

Hallicrafters, Inc.

Model: S22R

Chassis:

Year: Pre April 1941

Power:

Circuit:

IF:

Tubes:

Bands:

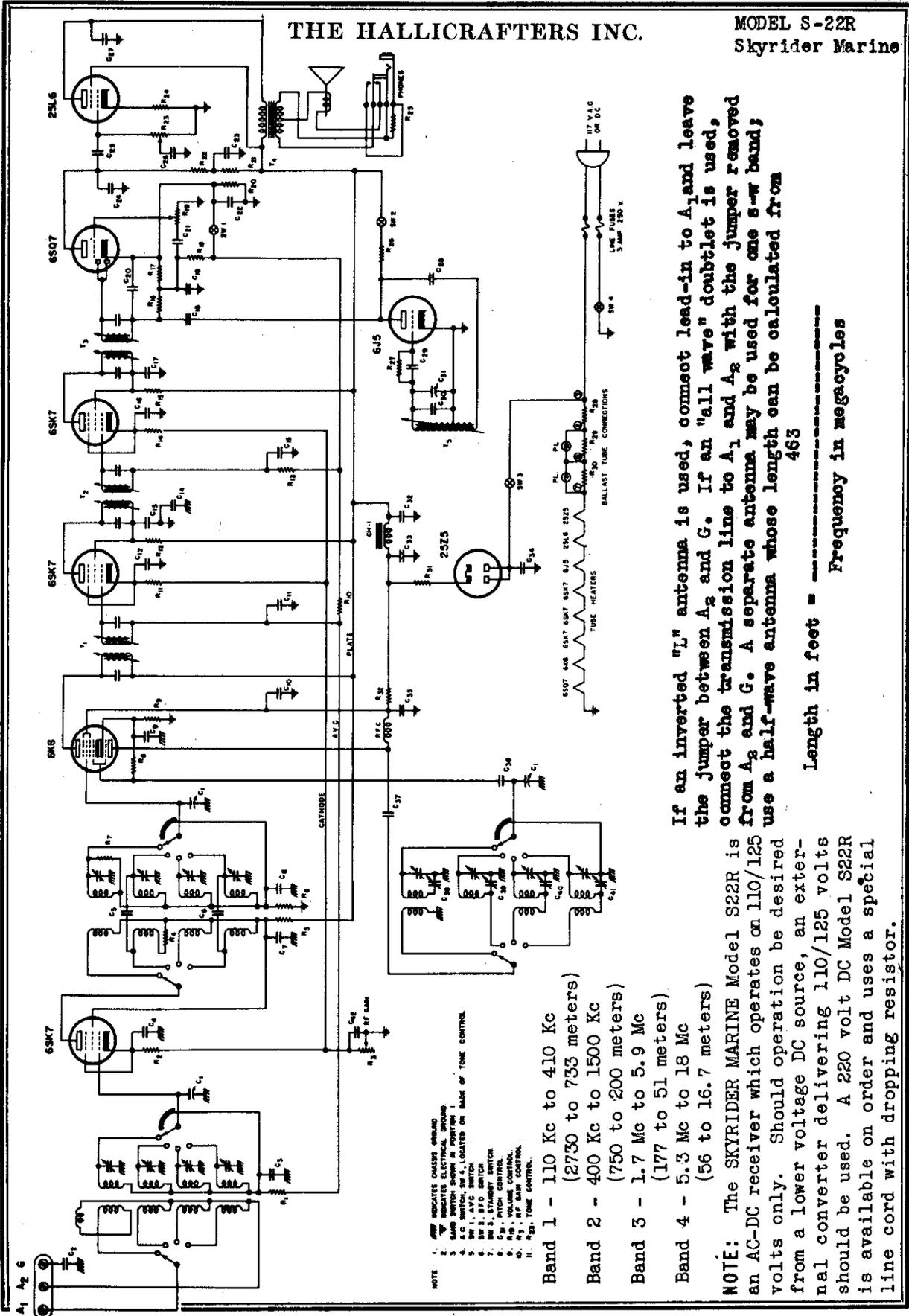
Resources

[Riders Volume 12 - HALLICRAFTERS 12-1](#)

[Riders Volume 12 - HALLICRAFTERS 12-2](#)

THE HALLICRAFTERS INC.

MODEL S-22R
Skyrider Marine



- NOTE:
1. INDICATES CHASSIS GROUND
 2. SWITCH SHOWN IN POSITION 1
 3. SW 1, AVC SWITCH
 4. SW 2, STANDBY SWITCH
 5. SW 3, STANDBY SWITCH
 6. C-3, PITCH CONTROL
 7. R-9, VOLUME CONTROL
 8. R-5, 250V BIAS CONTROL
 9. R-25, 250V BIAS CONTROL
 10. R-21, TONE CONTROL

- Band 1 - 110 Kc to 410 Kc
(2730 to 733 meters)
- Band 2 - 400 Kc to 1500 Kc
(750 to 200 meters)
- Band 3 - 1.7 Mc to 5.9 Mc
(177 to 51 meters)
- Band 4 - 5.3 Mc to 18 Mc
(56 to 16.7 meters)

NOTE: The SKYRIDER MARINE Model S22R is an AC-DC receiver which operates on 110/125 volts only. Should operation be desired from a lower voltage DC source, an external converter delivering 110/125 volts should be used. A 220 volt DC Model S22R is available on order and uses a special line cord with dropping resistor.

If an inverted "L" antenna is used, connect lead-in to A₁ and leave the jumper between A₂ and G. If an "all wave" doublet is used, connect the transmission line to A₁ and A₂ with the jumper removed; use a half-wave antenna whose length can be calculated from

$$\text{Length in feet} = \frac{900}{\text{Frequency in megacycles}}$$

463

MODEL S-22R
Skyrider Marine

THE HALLICRAFTERS INC.

ALIGNMENT PROCEDURE
1600 Kc IF ALIGNMENT.

ALIGNMENT INSTRUCTIONS:

- Equipment needed for aligning:
 1 - An all wave signal generator which will provide an accurately calibrated signal at the test frequencies indicated.
 2 - Output indicating meter connected to a headphone plug, and inserted in the headphone jack.
 3 - Non-metallic screw driver.
 4 - Dummy antenna of .002 mfd. condenser and 400 ohm resistor.

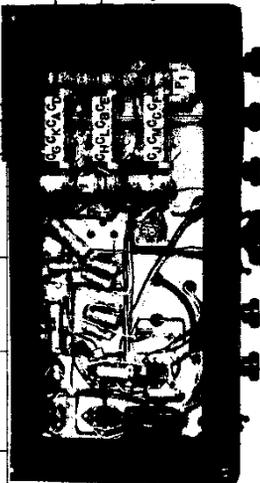
SETTING OF CONTROLS PRIOR TO ALIGNMENT - IF AND RF.

- 1 - Tune control at maximum high frequency position.
- 2 - AVC switch OFF.
- 3 - BFO switch OFF.
- 4 - RF Gain at maximum.
- 5 - AF gain at maximum.

R.F. ALIGNMENT

Connect hot Lead of Signal Generator to A₁ through dummy Antenna shown in Table. Leave Jumper connected between A₂ and G. Ground of Generator to Chassis.

BAND	REC. DIAL SETTING	SIG. GEN. FREQ.	DUMMY ANTENNA	HIGH FREQUENCY END ADJUST OSC WITH	LOW FREQUENCY END ADJUST OSCILLATOR WITH
1	125 Kc	125 Kc	.002 mfd	-----	P ₁
	350 Kc	350 Kc	.002 mfd	C _G -C _B	-----
2	450 Kc	450 Kc	.002 mfd	-----	P ₂
	1400 Kc	1400 Kc	.002 mfd	C _G -C _D	-----
3	2 Mc	2 Mc	400 Ohm	-----	P ₃
	4.5 Mc	4.5 Mc	400 Ohm	C _J -C _H	-----
4	7 Mc	7 Mc	400 Ohm	-----	P ₄
	15 Mc	15 Mc	400 Ohm	C _L -C _K	-----



ANTENNA
R.F.
OSCILLATOR

NO.	VALUE	VOLTAGE OR PURPOSE	TYPE	NO.	VALUE	VOLTAGE OR PURPOSE	TYPE
C1	Tuning Condenser	563 mmfd	per section	C26	.01 mfd	400 V.	Paper
C2	.01 mfd	400 V.	Paper	C27	.005 mfd	600 V.	Paper
C3	.05 mfd	400 V.	Paper	C28	.01 mfd	400 V.	Paper
C4	.05 mfd	400 V.	Paper	C29	250 mmfd		Mica
C5	5 mmf		Ceramic	C30	200 mmfd		Mica
C6	5 mmf		Ceramic	C31	5 mmf BFO Pitch Con.	Air Variable	
C7	.25 mfd	400 V.	Paper	C32	40 mfd	150 V.	Electrolytic
C8	.05 mfd	400 V.	Paper	C33	40 mfd	150 V.	Electrolytic
C9	.05 mfd	400 V.	Paper	C34	.05 mfd	400 V.	Paper
C10	.1 mfd	400 V.	Paper	C35	50 mfd	150 V.	Electrolytic
C11	.02 mfd	400 V.	Paper	C36	100 mmfd		Mica
C12	.02 mfd	400 V.	Paper	C37	2000 mmfd		Mica
C13	.01 mfd	400 V.	Paper	C38	32 mmfd Band 1 Pad		
C14	.25 mfd	400 V.	Paper	C39	110 mmfd Band 2 Pad		
C15	.02 mfd	400 V.	Paper	C40	480 mfd Band 3 Pad		
C16	.02 mfd	400 V.	Paper	C41	1300 mfd Band 4 Pad		
C17	.10 mfd	400 V.	Paper	C42	.1 mfd	200 V.	Paper
C18	10 mmf		Ceramic				
C19	100 mmf		Mica				
C20	.02 mfd	400 V.	Paper	SW1	A.V.C. "ON-OFF"		
C21	10 mf	25 V.	Electrolytic	SW2	R.F.O. "ON-OFF"		
C22	.05 mfd	400 V.	Paper	SW3	Standby		
C23	250 mfd		Mica	SW4	A.C.-D.C. Line		
C24	.05 mfd	400 V.	Paper				
R1	100,000		1/3	R17	250,000		1/3
R2	300		1/3	R18	1 Meg.		1/3
R3	25,000		R. F. Gain Control	R19	500,000		Aud to Gain Control
R4	400		1/3	R20	7,500		1/3
R5	1,000		1/3	R21	100,000		1/3
R6	100,000		1/3	R22	250,000		1/3
R7	100,000		1/3	R23	500,000		Tone Control
R8	50,000		1/3	R24	140		1/2
R9	400		1/3	R25	100		1/2
R10	100,000		1/3	R26	5,000		1/3
R11	500		1/3	R27	250,000		1/3
R12	1,000		1/3	R28	Plug-in Ballast Tube Meter-Type BK290		
R13	100,000		1/3	R29	Plug-in Ballast Tube Meter-Type BK290		
R14	400		1/3	R30	Plug-in Ballast Tube Meter-Type BK290		
R15	1,000		1/3	R31	4.00		1 Watt
R16	100,000		1/3	R32	4.00		1/2 Watt

CONDENSERS PLUG-IN BALLAST
C₂₉-C₃₃-C₃₅ / R₂₈-R₃₀



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