

Hallicrafters, Inc.

Model: RE-1

Chassis:

Year: Pre 1950

Power:

Circuit:

IF:

Tubes:

Bands:

Resources

[Riders Volume 19 - HALLICRAFTERS 19-1](#)

[Riders Volume 19 - HALLICRAFTERS 19-2](#)

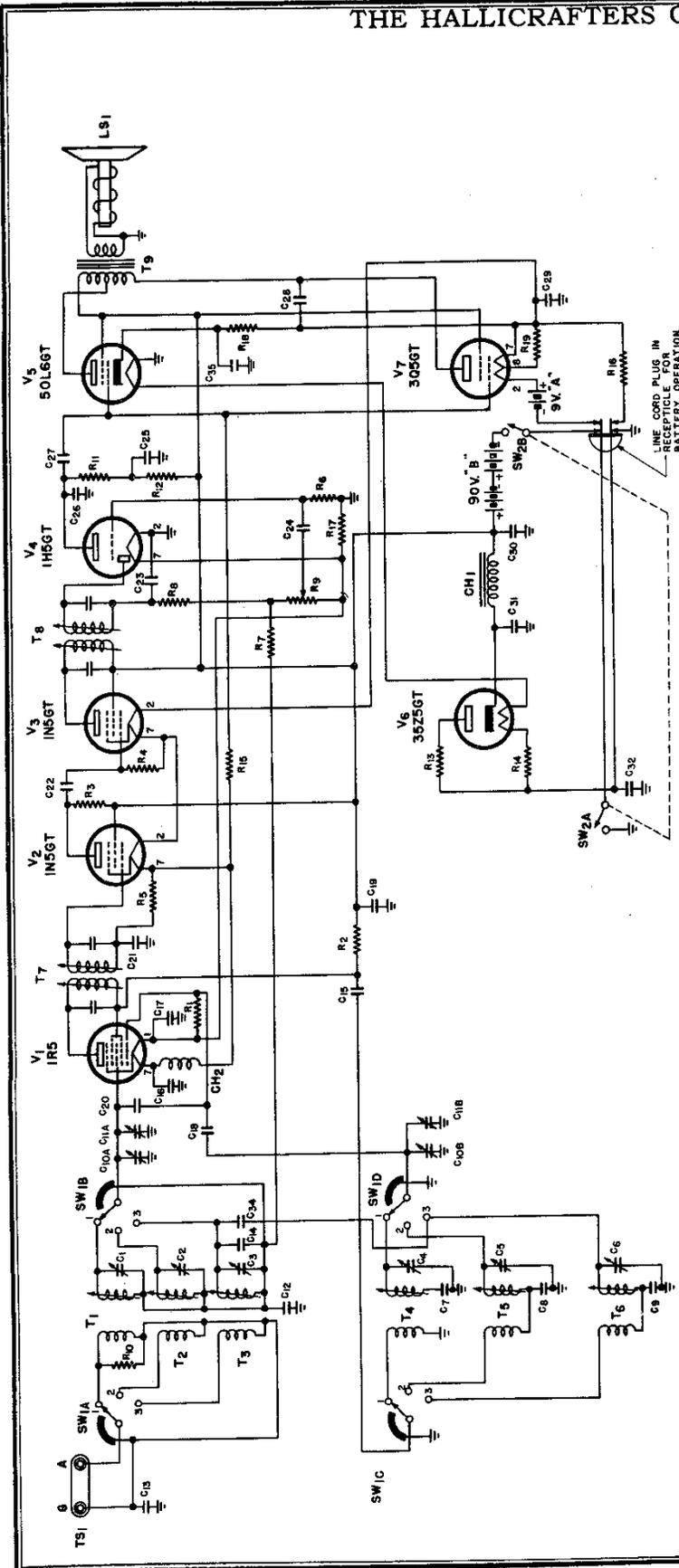
[Riders Volume 19 - HALLICRAFTERS 19-3](#)

[Riders Volume 19 - HALLICRAFTERS 19-4](#)

[Riders Volume 19 - HALLICRAFTERS 19-5](#)

THE HALLICRAFTERS CO.

MODEL RE-1,
Sky Courier

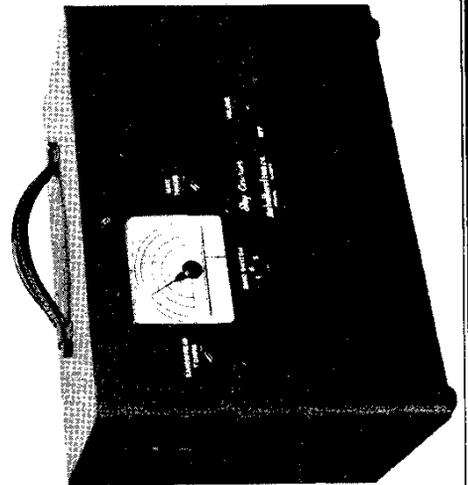


Note: When operating from a 110/125 volt direct current source, it may be necessary to turn the line plug around in the wall socket before the set will operate.

CAUTION: Remove run-down batteries from their compartment to avoid corrosion resulting from the deteriorating cells.

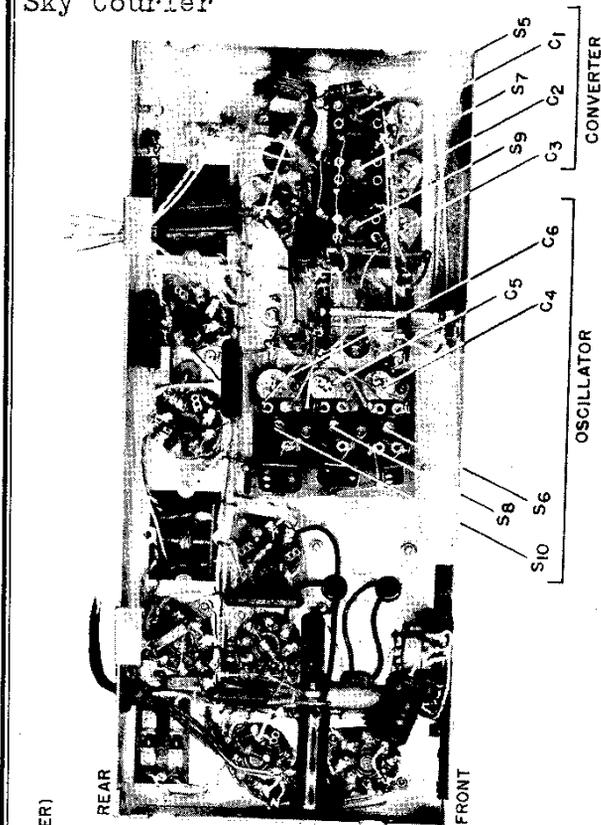
BATTERY REPLACEMENT

- Replace "B" batteries with Burgess #5308 or equivalent.
- Replace "A" batteries with four Burgess #2370 Standard Terminal Type or two Burgess G3 Plug Type or equivalent.

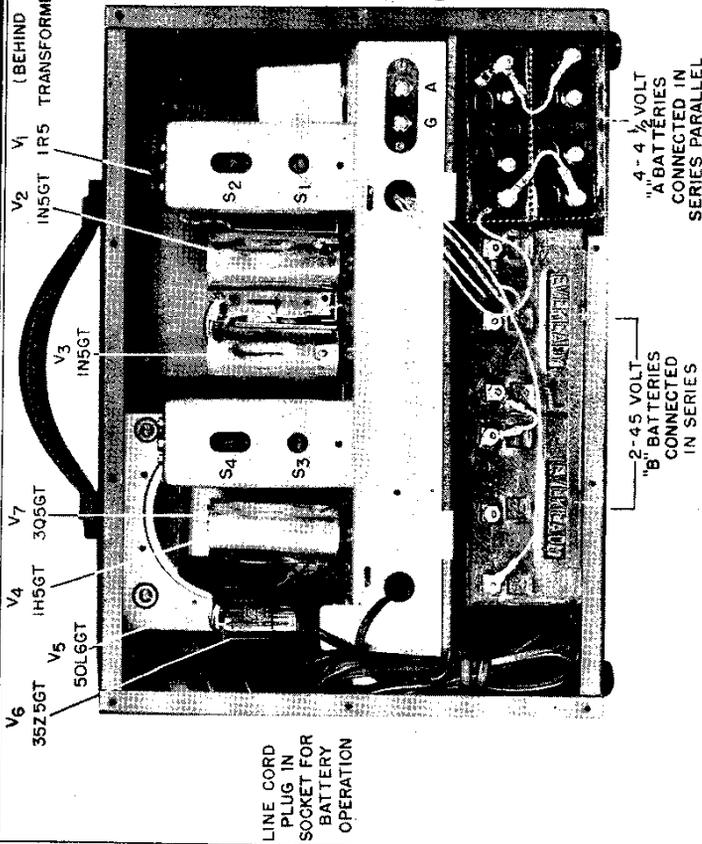


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MODEL RE-1,
Sky Courier



BOTTOM VIEW OF CHASSIS



REAR VIEW—COVER REMOVED

ALIGNMENT AND SERVICE

EQUIPMENT REQUIRED -

- (1) Signal generator covering 455 KC. to 20 MC. and equipped to provide a 400 cycle modulated signal.
- (2) Non-metallic screw driver.
- (3) Output meter.
- (4) 0.1 mfd. condenser.
- (5) 100 mmfd. condenser.
- (6) 25 ohm non-inductive resistor.
- (7) 400 ohm non-inductive resistor.

LINE CORD
PLUG IN
SOCKET FOR
BATTERY
OPERATION

THE HALLICRAFTERS CO.

MODEL RE-1,
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I-F ALIGNMENT -

- (1) Connect the "hot" lead of the signal generator to the stator of the front section of the gang condenser through the 0.1 mfd. condenser. Connect the ground lead of the generator to the ground terminal on the antenna terminal strip.

CAUTION - Do not ground the chassis of the receiver directly, make all ground connections to the G terminal of the terminal strip.

- (2) Connect the output meter across the speaker terminals.
- (3) Turn on the receiver and set the VOLUME control at maximum volume.
- (4) Set the BAND SWITCH at BAND 2. and set the MAIN TUNING dial at approx. 7 MC.
- (5) Set the signal generator at 455 KC. and turn on the 400 cycle modulation.
- (6) Adjust i-f transformer slugs S_1 , S_2 , S_3 and S_4 for maximum output. Refer to the rear view of the receiver for location of the slug adjustments.

R-F ALIGNMENT -

- (1) Connect the "hot" lead of the signal generator to the antenna terminal through the dummy antenna specified in the chart. Leave the ground lead of the generator connected to the ground terminal of the antenna terminal strip.
- (2) Leave the output meter connected as for i-f alignment.
- (3) Set the VOLUME control for maximum volume.
- (4) Set the BAND SWITCH, MAIN TUNING dial, signal generator, trimmer condenser, and slug adjustments as follows:

SET BAND SWITCH	USE DUMMY ANT.	SET RECEIVER & SIGNAL GENERATOR	SET TRIMMER FOR MAX. OUTPUT	SET SLUG FOR MAX. OUTPUT
1	100 mmfd. condenser	1500 KC.	C_1 and C_4	-
1		600 KC.	-	S_5 and S_6
2	25 ohm resistor	7 MC.	C_2 and C_5	-
2		3 MC.	-	S_7 and S_8
3	400 ohm resistor	18 MC.	C_3 and C_6	-
3		9 MC.	-	S_9 and S_{10}

NOTE: Refer to rear and bottom views of the receiver for location of adjustment screws.

MODEL RE-1,
Sky Courier

THE HALLICRAFTERS CO.

LIST OF REPLACEABLE PARTS (Cont'd.)

REF. SYMBOL	NAME OF PART AND DESCRIPTION	FUNCTION	MFG. CODE	CMTY'S. PART NO.
C ₈	CAPACITOR, fixed, 1500 mfd., ± 10%, 500 V, D-C working, mica dielectric, humidity resistant	Padder for transformer T ₃	ASA	CM20152K
C ₉	CAPACITOR, fixed, 3900 mfd., ± 10%, 500 V, D-C working, mica dielectric, humidity resistant	Padder for transformer T ₆	ASA	CM20292K
C _{10A}	CAPACITOR, 2 sections, ganged, section #1 (C _{10A}) min. cap. 31.7 mfd., max. cap. 33.3 mfd., section #2 (C _{10B}) min. cap. 33.9 mfd., max. cap. 35.5 mfd., air dielectric; band pass filter for each section; three 6-32 NC-28/32" spade bolts mount assembly (2 on front frame 7/8" apart, 1 centered on rear sheet metal pulley 2-7/8" O.D. is stamped to the main gang and handspread gang shafts.	Transformers T ₁ , T ₂ , T ₃ main tuning Transformers T ₄ , T ₅ , T ₆ main tuning	OM Special	480125
C ₁₂	CAPACITOR, fixed, .005 mfd., ± 10 - 40%, 600 V, D-C working, paper dielectric, molded case, Same as C ₁₁	A-V-C by-pass	MIC type 346	464MCOJ1
C ₁₃	CAPACITOR, fixed, .01 mfd., ± 10 - 40%, 600 V, D-C working, paper dielectric, molded case, Same as C ₁₂	D-C voltage block between chassis and ground	MIC type 342	464MCOJ2
C ₁₄	CAPACITOR, fixed, 20 mfd., ± 20%, 500 V, D-C working, ceramic dielectric, 0.00075 mfd./ mfd.; degree Cent. temp. coeff.	Trimmer for transformer T ₃ secondary	ASA	CM201W20M
C ₁₅	CAPACITOR, fixed, .005 mfd., ± 20% ± 60%, 400 V, D-C working, paper dielectric, molded case, Same as C ₁₄	Coupling between oscillator inductance and plate circuit of tube V ₁	ASA	CM201B402
C ₁₆	CAPACITOR, fixed, .25 mfd., ± 10 - 40%, 200 V, D-C working, paper dielectric, molded case	Filament by-pass for tube V ₁	MIC type 342	464B2547
C ₁₇	CAPACITOR, fixed, .1 mfd., ± 10 - 40%, 400 V, D-C working, paper dielectric, molded case, Same as C ₁₅	Filament by-pass for tube V ₁	MIC type 342	464F104J
C ₁₈	CAPACITOR, fixed, .47 mfd., ± 20%, 500 V, D-C working, mica dielectric, humidity resistant	Coupling between oscillator inductance and oscillator grid circuit of tube V ₁	ASA	CM201A70M
C ₁₉	CAPACITOR, same as C ₁₂	Plate circuit by-pass	BC Special	494A01
C ₂₀	CAPACITOR, fixed, 100 mfd., ± 20%, 500 V, D-C working, bakelite dielectric, molded body, Same as C ₁₄	Coupling between oscillator and converter	MIC type 342	464M20C3
C ₂₁	CAPACITOR, fixed, .02 mfd., ± 10 - 40%, 200 V, D-C working, paper dielectric, molded case	Grid return by-pass for tube V ₂	ASA	CM201A222M
C ₂₂	CAPACITOR, fixed, 250 mfd., ± 20%, 500 V, D-C working, mica dielectric, humidity resistant	Coupling between tubes V ₂ and V ₃	ASA	CM201A101M
C ₂₃	CAPACITOR, fixed, 100 mfd., ± 20%, 500 V, D-C working, mica dielectric, humidity resistant	Diode load r-f by-pass for tube V ₄	ASA	
C ₂₄	CAPACITOR, same as C ₁₃	A-F coupling between detector circuit and audio amplifier section of tube V ₄		
C ₂₅	CAPACITOR, same as C ₁₇	Plate circuit decoupling for tube V ₄		

LIST OF REPLACEABLE PARTS.

REF. SYMBOL	NAME OF PART AND DESCRIPTION	FUNCTION	MFG. CODE	CMTY'S. PART NO.
R ₁	RESISTOR, 100,000 ohms ± 20%, ½ watt, carbon, insulated, humidity resistant. Same as R ₁₂	Oscillator grid return for tube V ₁	ASA	RC10M810M
R ₂	RESISTOR, 4,700 ohms ± 10%, ½ watt, carbon, insulated, humidity resistant	Decoupling for tube V ₁	ASA	RC10M8472K
R ₃	RESISTOR, 22,000 ohms ± 20%, ½ watt, carbon, insulated, humidity resistant	Plate load for tube V ₂	ASA	RC10M8252M
R ₄	RESISTOR, 470,000 ohms ± 10%, ½ watt, carbon, insulated, humidity resistant. Same as R ₁₁ , R ₁₃	Grid return for tube V ₃	ASA	RC10M8474K
R ₅	RESISTOR, 2 megohms ± 20%, ½ watt, carbon, insulated, humidity resistant.	Grid return for tube V ₂	ASA	RC10M8205M
R ₆	RESISTOR, 10 megohms ± 20%, ½ watt, carbon, insulated, humidity resistant.	Grid return for tube V ₄	ASA	RC10M8105M
R ₇	RESISTOR, 3.5 megohms ± 20%, ½ watt, carbon, insulated, humidity resistant.	A-V-C decoupling	ASA	RC10M8255M
R ₈	RESISTOR, 47,000 ohms ± 20%, ½ watt, carbon, insulated, humidity resistant.	Diode load for tube V ₄	ASA	RC10M8475M
R ₉	RESISTOR, variable, 500,000 ohms ± 20%, bush-2/8-32 x ½" long, short 5/8" long x ½" dia., includes DFR toggle action switch on rear of control	VOLUME control	CT type 120	25A090
R ₁₀	RESISTOR, 10,000 ohms ± 20%, ½ watt, carbon, insulated, humidity resistant	Primary loading for transformer T ₁	ASA	RC10M8103K
R ₁₁	RESISTOR, same as R ₄	Plate load for tube V ₄		
R ₁₂	RESISTOR, same as R ₁	Decoupling for tube V ₄		
R ₁₃	RESISTOR, two sections, section #1 (R ₁₃) 100,000 ohms ± 20%, ½ watt, wire wound; section #2 (R ₁₄) 250 ohms ± 5%, 6.5 watts, wire wound; solder lug terminals on rear of control	Burge voltage stabilizing for tube V ₆		
R ₁₄	RESISTOR, 250 ohms ± 5%, 6.5 watts, wire wound; solder lug terminals on rear of control	Filament voltage dropping for tubes V ₅ and V ₆		
R ₁₅	RESISTOR, same as R ₄	Grid return for tubes V ₅ and V ₆		
R ₁₆	RESISTOR, 650 ohms ± 10%, ½ watt, carbon, insulated, humidity resistant	Filament voltage divider for battery operation	ASA	RC10M8611K
R ₁₇	RESISTOR, 270 ohms ± 10%, ½ watt, carbon, insulated, humidity resistant	Shunt for filament of tube V ₄	ASA	RC10M8271K
R ₁₈	RESISTOR, 47 ohms ± 10%, ½ watt, carbon, insulated, humidity resistant	Cathode bias for tube V ₅	ASA	RC21M8470K
R ₁₉	RESISTOR, 330 ohms ± 10%, ½ watt, carbon, insulated, humidity resistant	Shunt for filament of tube V ₇	ASA	RC10M8311K
C ₁	CAPACITOR, adjustable, min. cap. 4 mfd., max. cap. 20 mfd., ceramic dielectric, solder lug terminals and mfg.; same as C ₂ , C ₃ , C ₄ , C ₅ , C ₆	Trimmer for transformer T ₁	OM type 880	444116
C ₂	CAPACITOR, same as C ₁	Trimmer for transformer T ₂		
C ₃	CAPACITOR, same as C ₁	Trimmer for transformer T ₃		
C ₄	CAPACITOR, same as C ₁	Trimmer for transformer T ₄		
C ₅	CAPACITOR, same as C ₁	Trimmer for transformer T ₅		
C ₆	CAPACITOR, same as C ₁	Trimmer for transformer T ₆		
C ₇	CAPACITOR, fixed 300 mfd., ± 10%, 500 V, D-C working, mica dielectric, humidity resistant	Padder transformer T ₄	ASA	CM20D931J

THE HALLICRAFTERS CO.

MODEL RE-1,
Sky Courier

LIST OF REPLACEABLE PARTS - (Cont'd.)

REF. SYMBOL	NAME OF PART AND DESCRIPTION	FUNC. CODE	CONTR.'S. PART NO.
C26	CAPACITOR, same as C22	ASA	CK11B-02
C27	CAPACITOR, fixed, .006 mfd., 20 - 60K, 600 V. 2 winding, paper dielectric, humidity resistant, same as C22	IC type P-1	454072
C28	CAPACITOR, same as C27		
C29	CAPACITOR, 3 section unit, 4 prong plug-in type dry electrolytic; section #1 (C ₂₉) 40 mfd., 10 - 50K, 150 V. D-C, working; section #2 (C ₂₉) 40 mfd., 10 - 50K, 150 V. D-C, working; section #3 (C ₂₉) 100 mfd., 10 - 60K, 50 V. D-C, working; terminal #1 common to all sections		
C30	CAPACITOR, same as C13		
C31	Not used.		
C32	CAPACITOR, same as C20		
C33	TRANSFORMER, R-F, 3 unit assembly; unit #1 (T ₁) 550-1600 KC., universal windings primary and secondary; Hollowax #2012 impregnation, variable iron core adjustment; unit #2 (T ₂) 2.8 - 7.8 MC., universal winding primary, single layer winding; secondary, Hollowax #2012 impregnation, variable iron core adjustment; unit #3 (T ₃) 10 MC., single layer windings primary and secondary; Hollowax #2012 impregnation, variable iron core adjustment; assembly mounted on a bakelite board 3" long x 1-3/4" wide x 1/16" thick with 2 mtg. holes 1" apart centered on the board; coils wound on bakelite form 1" long x 3/8" O.D.		
T ₁			
T ₂			
T ₃			
T ₄	TRANSFORMER, R-F, 3 unit assembly; unit #1 (T ₄) 550-1600 KC., universal windings primary and secondary; Hollowax #2012 impregnation, variable iron core adjustment unit #2 (T ₄) 2.8 - 7.8 MC., single layer windings; Hollowax #2012 impregnation, variable iron core adjustment; unit #3 (T ₄) 10 MC., single layer windings primary and secondary; Hollowax #2012 impregnation, variable iron core adjustment; assembly mounted on a XP bakelite board 3" long x 2-3/8" wide x 1-1/16" thick with 2 mtg. holes 1" apart centered on the board; coils wound on bakelite form 1" long x 3/8" O.D.		
T ₅			
T ₆			
T ₇	TRANSFORMER, I-F, 455 KC., fixed trimmer capacitors, variable iron core tuning, shielded assembly		
T ₈	TRANSFORMER, I-F, 455 KC., fixed trimmer capacitor, variable iron core tuning, shielded assembly		
T ₉	TRANSFORMER, A-F; primary to match a 8000 ohm 300GT tube plate load, tapped to match a 2500 ohm 50L6GT tube plate load; secondary to match 2.3 ohm voice coil; metal case covered with corite wax except on mounting surfaces; two single hole mtg. feet with 1-3/4" mtg. centers.		

LIST OF REPLACEABLE PARTS - (Cont'd.)

REF. SYMBOL	NAME OF PART AND DESCRIPTION	FUNC. CODE	CONTR.'S. PART NO.
V ₁	Tube, pentagrid converter, type 1R5		
V ₂	Tube, r-f amplifier pentode, type 1J6GT/G		
V ₃	Tube, same as V ₂		
V ₄	Tube, diode high-vac triode, type 1J6GT/G		
V ₅	Tube, beam power amplifier, type 50L6GT		
V ₆	Tube, half-wave high-vacuum rectifier, type 302GT/G		
V ₇	Tube, beam power amplifier, type 302GT/G		