

ALIGNMENT PROCEDURE  
SKY BUDDY  
Model S-19



**the hallicrafters inc.**  
2611 INDIANA AVENUE  
CHICAGO

## ALIGNMENT PROCEDURE FOR SKY-BUDDY MODEL S-19

## INTERMEDIATE FREQUENCY ALIGNMENT

HAVE THE CONTROLS SET AS FOLLOWS:

A.V.C. - B.F.O. CONTROL "OFF" OR VERTICAL POSITION  
 BAND SWITCH ON #1 BAND  
 ADJUST A.F. GAIN FOR MAXIMUM VOLUME  
 SET MAIN DIAL AT 1,800 KC OR MINIMUM CAPACITY POSITION

REMOVE 6K8 GRID CAP  
 CONNECT SIGNAL GENERATOR, THROUGH A .1 MFD CONDENSER TO THE GRID OF THE 6K8 MIXER OSCILLATOR TUBE.  
 CONNECT THE GROUND OF THE GENERATOR TO THE CHASSIS OF THE RECEIVER.

AN INTERMEDIATE FREQUENCY OF 455 KC IS USED. THE RADIO MANUFACTURERS ASSOCIATION HAS ADOPTED 455 KC AS A STANDARD INTERMEDIATE FREQUENCY FOR ALL-WAVE SUPERHETERODYNE RECEIVERS.

AFTER THE ABOVE ADJUSTMENTS HAVE BEEN MADE SET THE SIGNAL GENERATOR FOR 455 KC SIGNAL OUTPUT.  
 NOW ADJUST THE CONDENSERS ON T1 AND T2 FOR EXACT RESONANCE WHICH WILL BE INDICATED BY MAXIMUM SIGNAL OUTPUT.  
 IF YOU PREFER AN OUTPUT METER AS AN INDICATOR, IT SHOULD BE CONNECTED TO THE VOICE COIL LEADS OF THE SPEAKER, OR TO THE PLATE OF THE 6K6 OUTPUT TUBE THROUGH A SUITABLE COUPLING CONDENSER.

## RADIO FREQUENCY ALIGNMENT

REPLACE THE .1 MFD CONDENSER IN SERIES WITH THE GENERATOR LEAD 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 LOCATED ON THE TOP OF THE CHASSIS. ALL TRIMMER ADJUSTMENTS ARE FOR THE HIGH-FREQUENCY ENDS OF THE BANDS AND ARE MADE THROUGH THE BOTTOM OF THE CABINET. REMOVE THE GUARANTEE SEAL ON THE BOTTOM OF THE CABINET BY PLACING A KNIFE UNDER THE SMALL SNAP FASTENERS WHICH HOLD IT IN PLACE.

## BAND No. 1

PLACE BAND SWITCH ON #1, OR BROADCAST, BAND. SET GENERATOR TO 1,400 KC AND ADJUST THE MAIN DIAL TO THAT FREQUENCY. ADJUST OSCILLATOR TRIMMER CA, FOR MAXIMUM SIGNAL. NOW SET GENERATOR AND RECEIVER TO 600 KC. ADJUST PAD, C26 FOR MAXIMUM SIGNAL.

## BAND No. 2

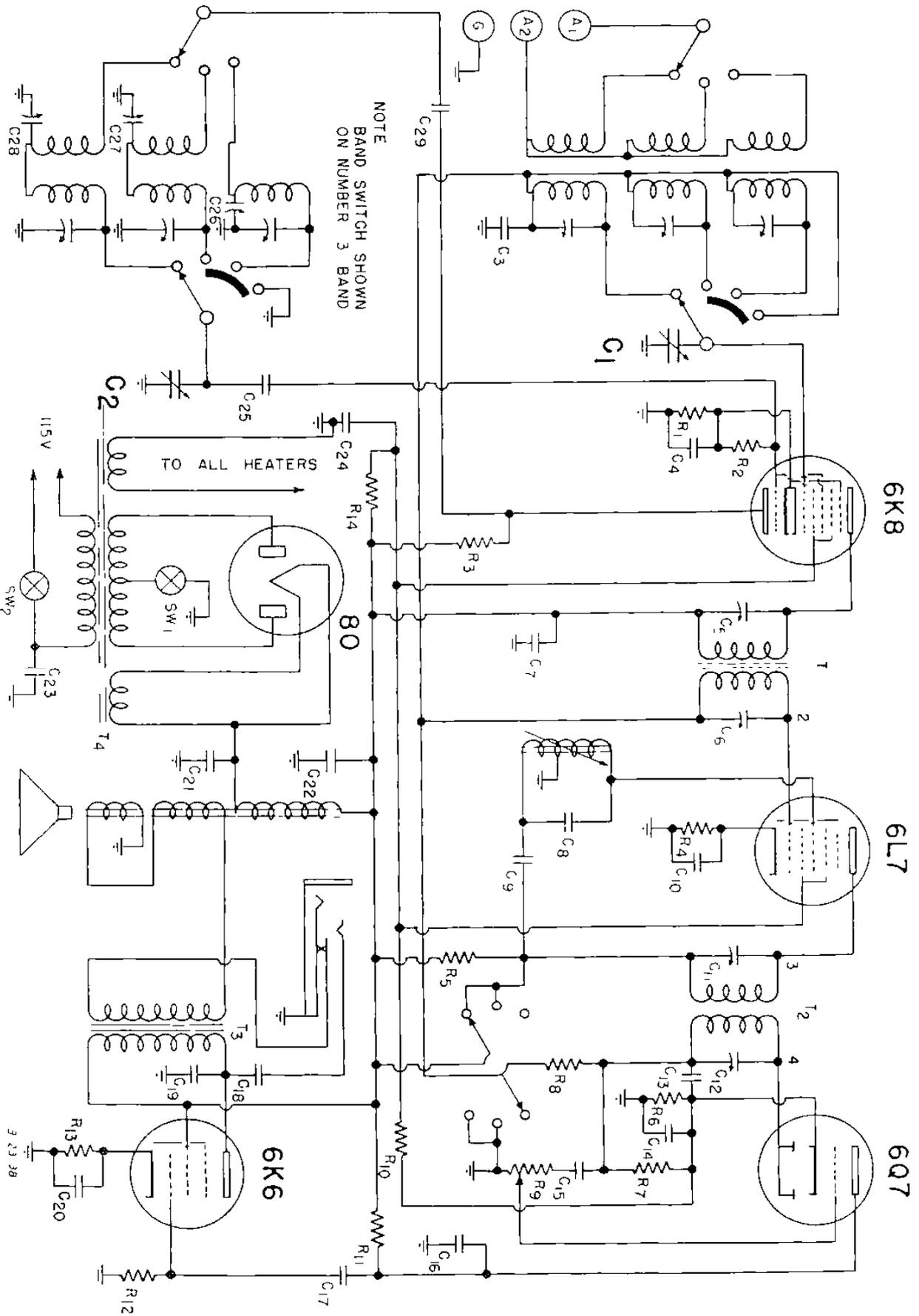
TURN BAND SWITCH TO #2 BAND. SET GENERATOR AND RECEIVER TO 4 MC AND ADJUST Cc FOR MAXIMUM SIGNAL. TUNE GENERATOR AND RECEIVER TO 1.8 MC AND RESONATE PAD C27 FOR MAXIMUM SIGNAL.

## BAND No. 3

PLACE BAND SWITCH ON #3 BAND. ADJUST GENERATOR AND RECEIVER TO 14 MC AND TRIM WITH Cc. SET GENERATOR AND RECEIVER TO 7 MC AND ADJUST PAD C28 FOR MAXIMUM SIGNAL.

WHILE MAKING THESE ADJUSTMENTS IT IS ADVISABLE TO "ROCK" THE MAIN CONDENSER ACROSS THE PARTICULAR FREQUENCY YOU ARE TRIMMING OR PADDING. ONCE THE EXACT POINT OF MAXIMUM OUTPUT IS REACHED FURTHER ADJUSTMENT FOR THE FREQUENCY USED IS UNNECESSARY.

SCHEMATIC DIAGRAM - SKY BUDDY - MODEL S-19

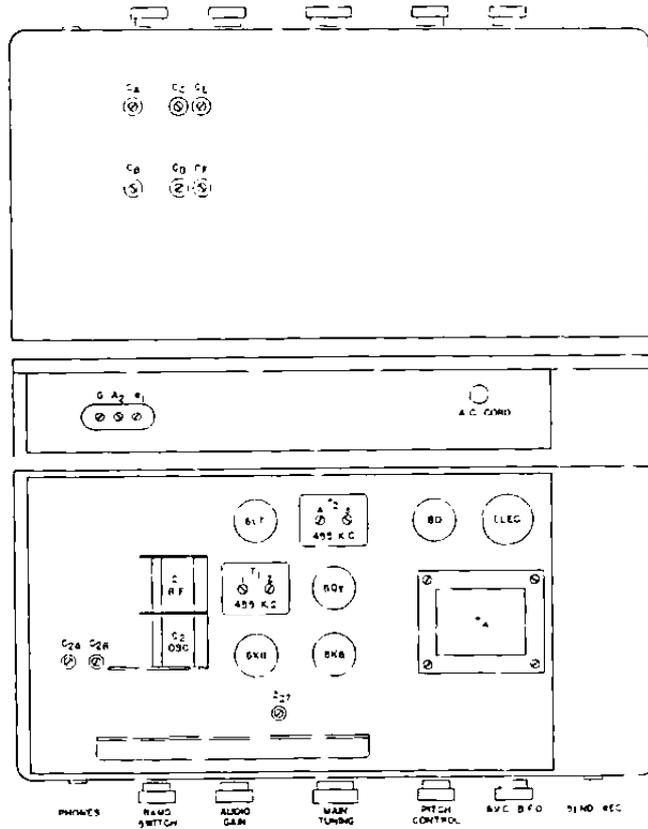


SKY-HOOT MODEL 3-19 PARTS LIST

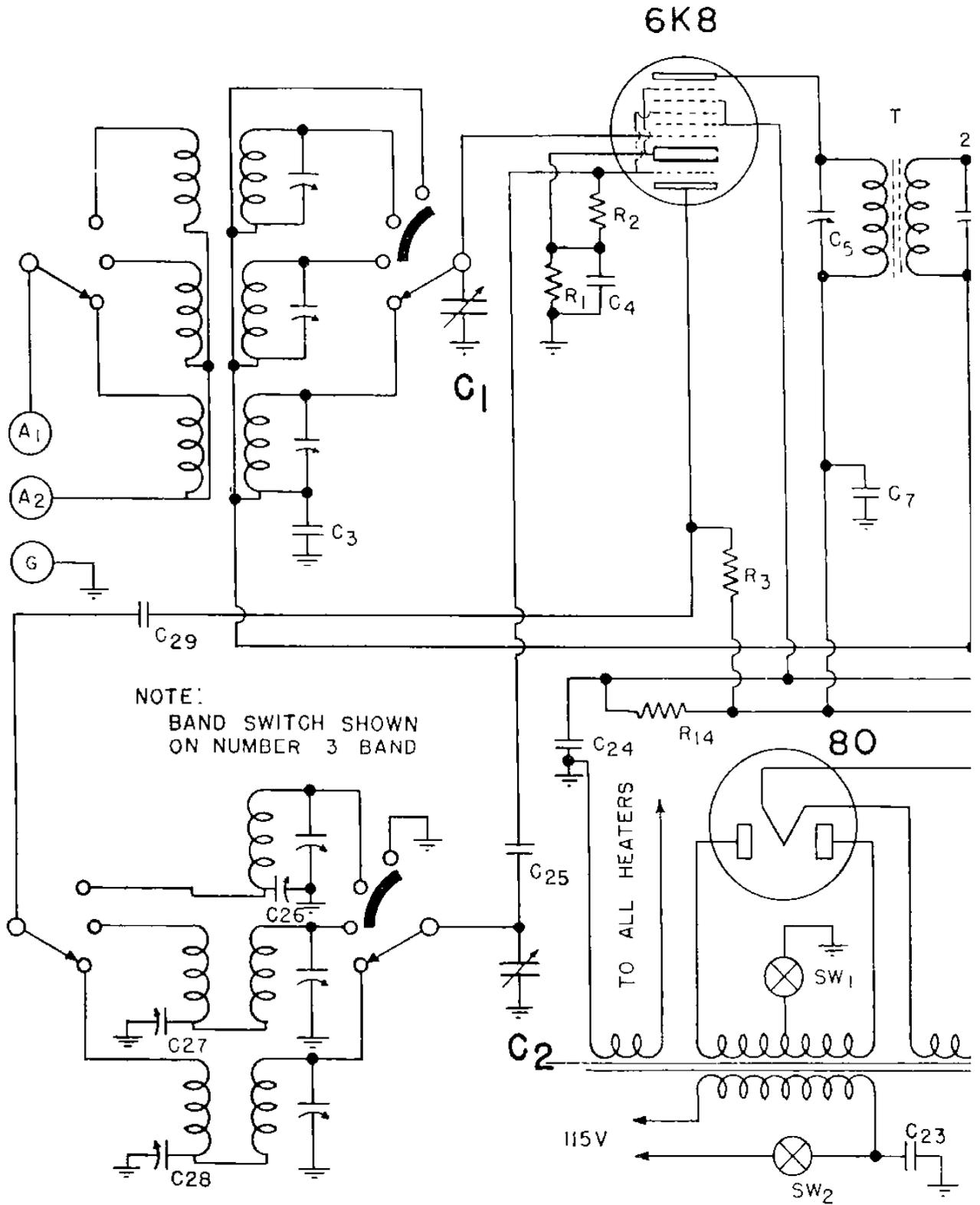
RESISTORS				CONDENSERS				
No.	OHMS	WATTAGE	PARTS NO.	No.	CAPACITY	TYPE	VOLTAJE	PARTS NO.
R1	200	1/3	20-015	C1	400 MFD	MILK	200	40-021
2	50,000	"	20-084	2	"	TUNING	"	"
3	15,000	1	20-067	3	.05 MFD	"	200	41-004
4	300	1/3	20-021	4	.1	"	200	41-006
5	3,000	"	20-048	5	TUNING CONDENSER	MOUNTED IN IF CAN	"	"
6	300	"	20-021	5	"	"	"	"
7	250,000	"	20-099	7	.25 MFD	"	400	41-009
8	1,000,000	"	20-198	8	1,500 MFD	MILK	400	40-022
9	500,000	VOLUME CONTROL	20-231	9	.01 MFD	"	400	41-001
10	25,000	"	20-073	10	.05	"	200	41-004
11	250,000	1/3	20-050	11	TUNING CONDENSER	MOUNTED IN IF CAN	"	"
12	500,000	"	20-084	12	"	"	"	"
13	500	1	20-225	13	250 MFD	MILK	400	40-037
14	10,000	1	20-051	14	.1 MFD	"	200	41-006
				15	.02	"	200	41-002
				16	.0005	"	"	40-009
				17	.02	"	400	41-003
				18	.01	"	600	41-002
				19	.01	"	600	45-002
				20	10	"	75	"
				21	8	"	450	42-021
				22	8	"	450	"
				23	.01	"	400	41-001
				24	.1	"	400	41-007
				25	.0001	"	"	40-007
				26	430 MFD	"	TRIGGER	40-025
				27	1,300	"	"	44-024
				28	2,100	"	"	44-025
				29	.002 MFD	"	"	40-013

SWITCHES	
S1	SWP - RECEIVE SPST
S2	AC ON - OFF (w/ IF TUN)



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