

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

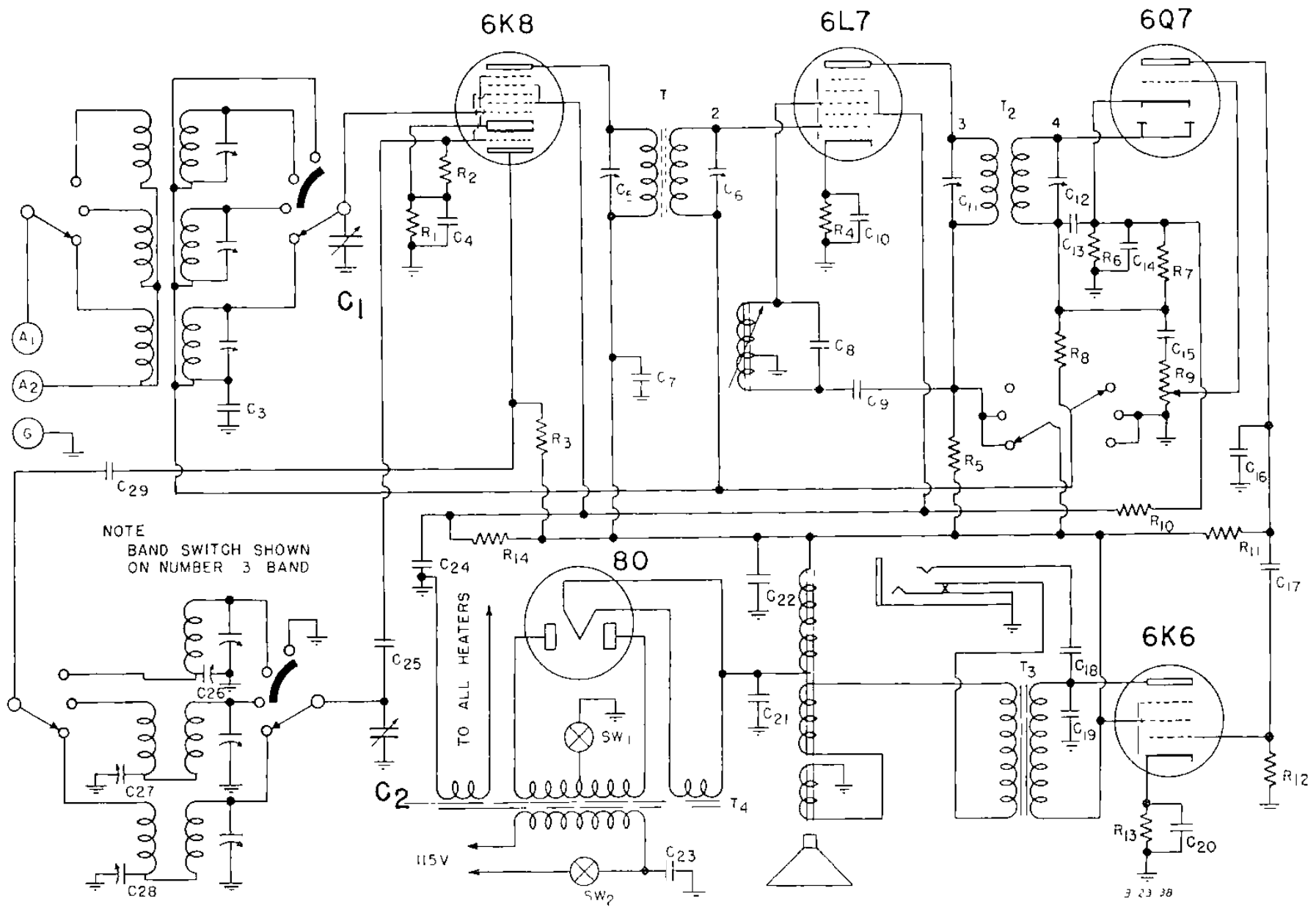
TURN BAND SWITCH TO #2 BAND. SET GENERATOR AND RECEIVER TO 4 MC AND ADJUST Cc FOR MAXIMUM SIGNAL. TUNE GENERATOR AND RECEIVER TO 1.8 MC AND RESONATE PAD C27 FOR MAXIMUM SIGNAL.

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

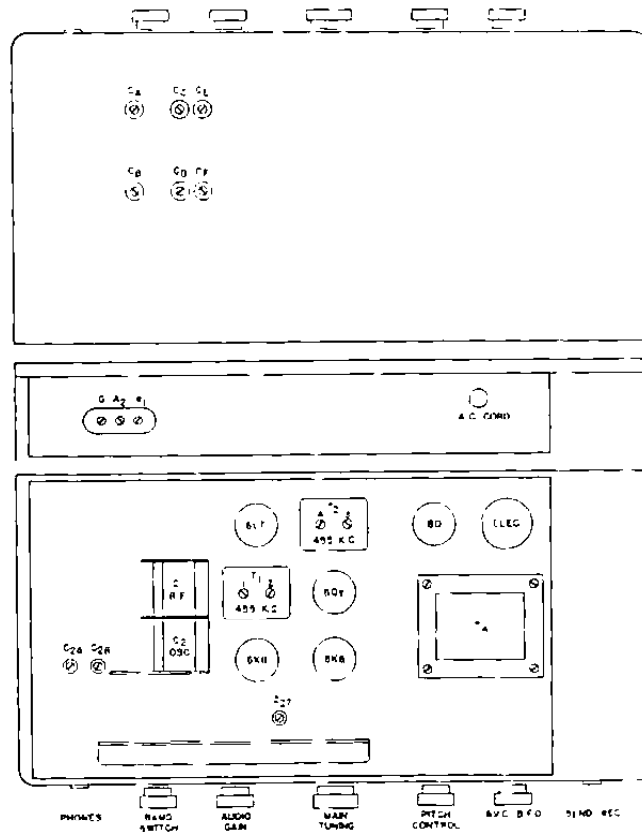
No.	OHMS	PARTS NO.
1	200	20-015
2	50,000	20-084
3	15,000	20-067
4	300	20-021
5	3,000	20-049
6	330	20-021
7	250,000	20-099
8	1,000,000	20-108
9	500,000	20-031
10	25,000	20-050
11	250,000	20-084
12	500,000	20-225
13	500	20-051
14	10,000	20-051

SWITCHES

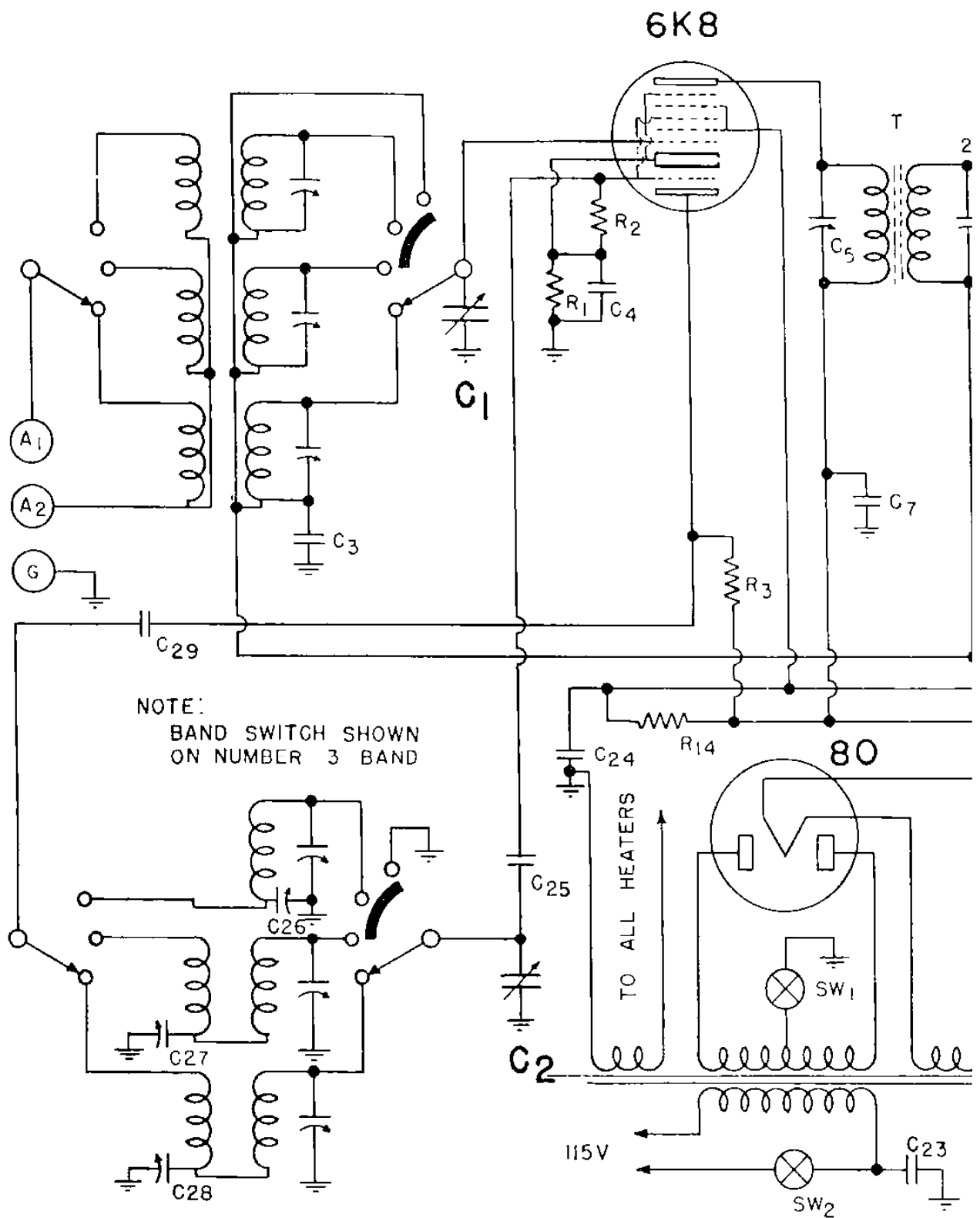
No.	DESCRIPTION
1	SWP - RECEIVE SPST
2	AC ON - OFF (w/ 1F TAIN)

CONDENSERS

No.	CAPACITY	TYPE	VOLTAJE	PARTS NO.
1	408 MFD	MAH	200	40-021
2	105 MFD	TUNING	200	41-004
3	105 MFD	TUNING	200	41-006
4	105 MFD	TUNING	200	41-006
5	TUNING CONDENSER	MOULDED	1N 1F CAN	41-009
6	25 MFD	WICA	400	41-009
7	1,500 MFD	WICA	400	40-022
8	101 MFD	WICA	400	41-001
9	105 MFD	WICA	200	41-004
10	105 MFD	WICA	200	41-004
11	TUNING CONDENSER	MOULDED	1N 1F CAN	40-037
12	250 MFD	WICA	200	41-006
13	101 MFD	WICA	200	41-006
14	102 MFD	WICA	200	41-006
15	10005 MFD	WICA	200	41-006
16	102 MFD	WICA	400	41-003
17	101 MFD	WICA	600	41-002
18	101 MFD	WICA	600	41-002
19	101 MFD	WICA	600	41-002
20	10 MFD	WICA	450	42-021
21	8 MFD	WICA	450	41-001
22	8 MFD	WICA	450	41-001
23	101 MFD	WICA	400	41-001
24	101 MFD	WICA	400	41-001
25	10001 MFD	WICA	400	40-037
26	430 MFD	WICA	400	40-025
27	1,300 MFD	WICA	400	44-024
28	2,100 MFD	WICA	400	44-025
29	1002 MFD	WICA	400	40-013



SCHEMATIC DIAGRAM - SKY BUDDY



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