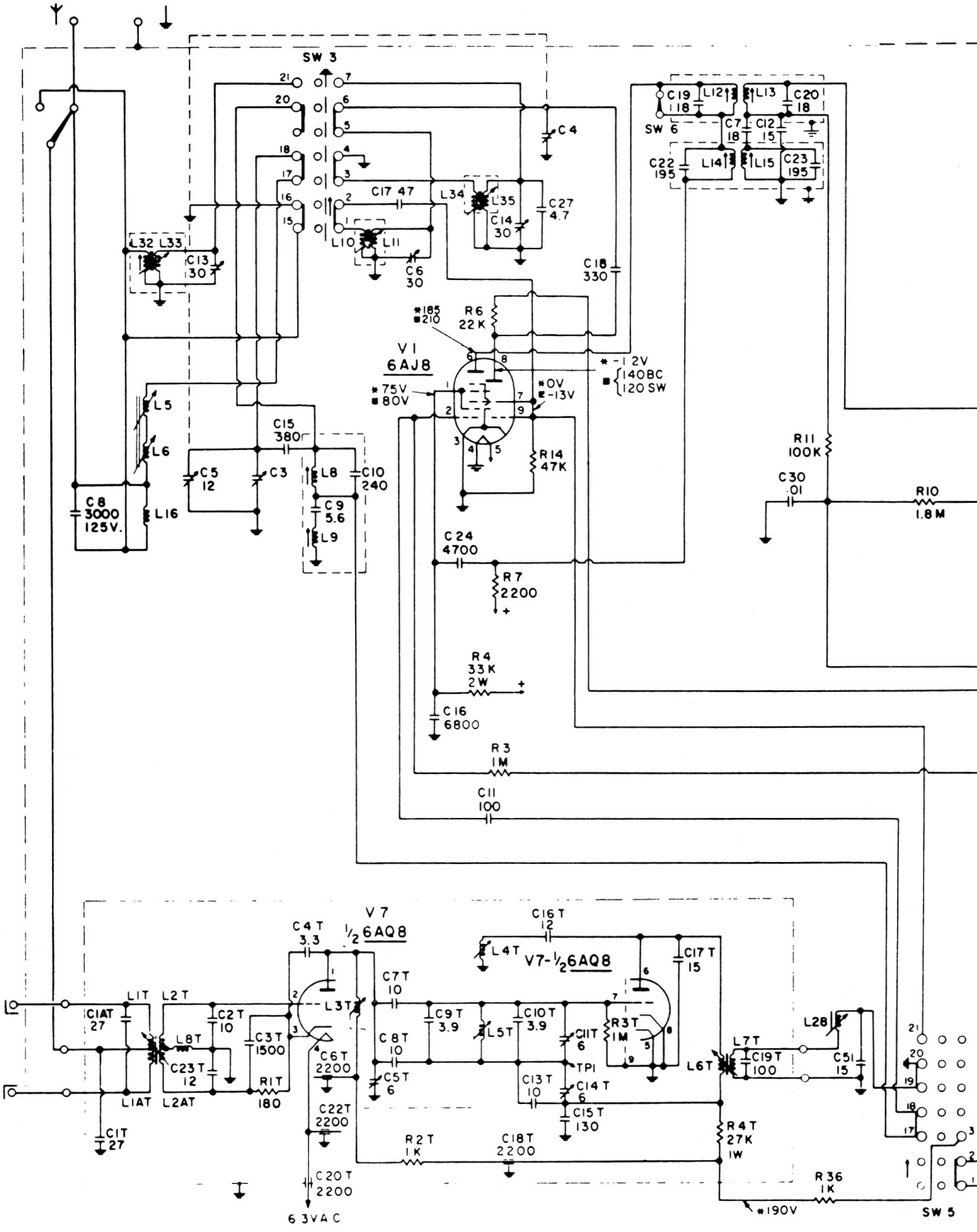
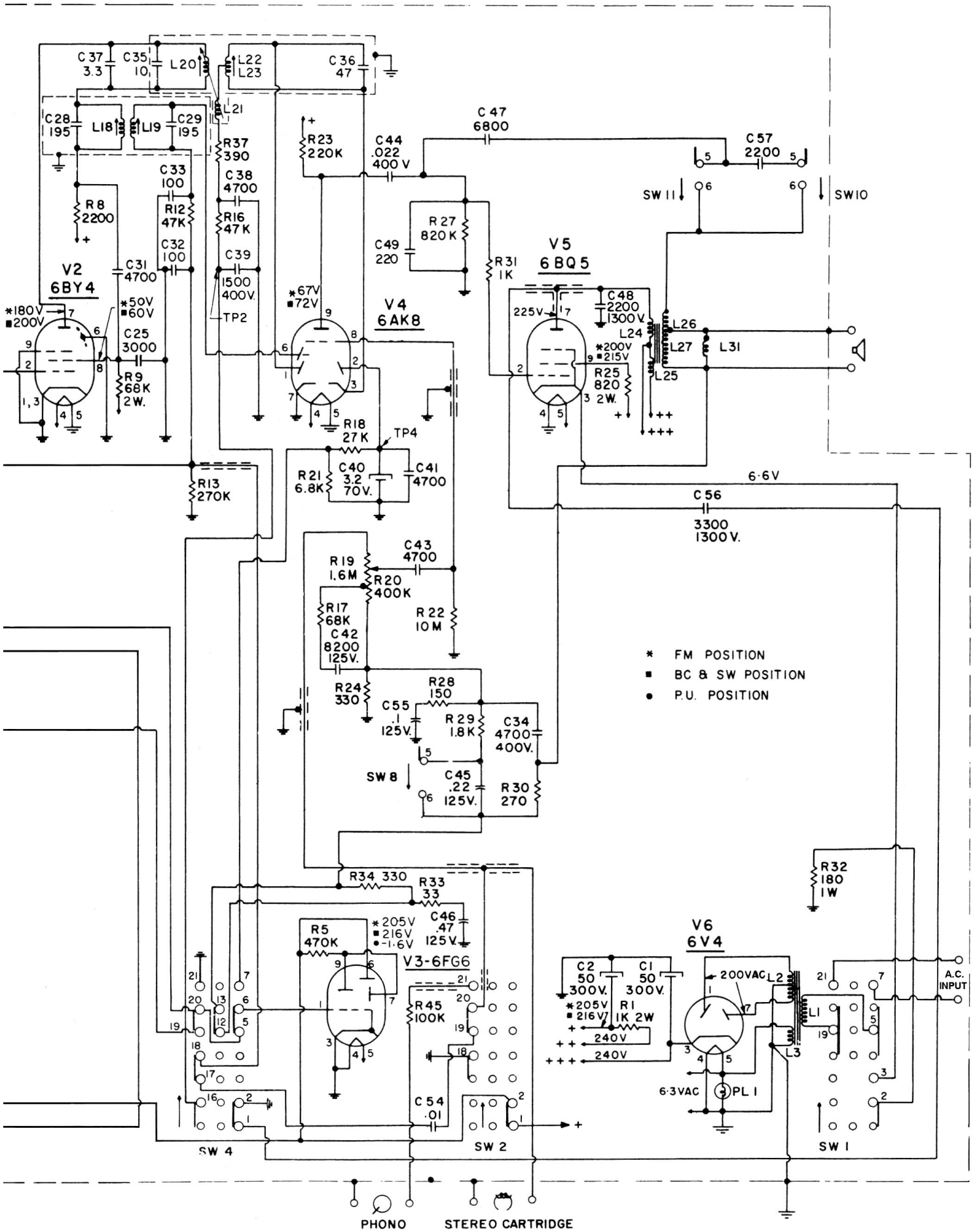


Philips B4C87A / Rogers Majestic RG5050


C37 3.3
C35 10
L20
L22 L23
C36 47
L21
C28 195
L18
L19
C29 195
R37 390
C38 4700
C33 100
R12 47K
R16 47K
C32 100
C39 1500 400V.
TP2
R8 2200
V2 6BY4
*180V ■200V
C31 4700
*50V ■60V
C25 3000
R9 68K 2W.
R13 270K
R23 220K
C44 .022 400 V
C47 6800
C49 220
R27 820 K
R31 1K
V4 6AK8
*67V ■72V
R18 27K
TP4
R21 6.8K
C40 3.2 70V.
C41 4700
V5 6BQ5
225V
C48 2200 1300V.
L24
L26
L27
L31
L25
*200V ■215V
R25 820 2W.
C57 2200
SW 11
SW 10
6·6V
C56 3300 1300V.
R19 1.6M
C43 4700
R20 400K
R17 68K
C42 8200 125V.
R22 10M
R24 330
R28 150
C55 .1 125V.
R29 1.8K
C34 4700 400V.
SW 8
C45 .22 125V.
R30 270
R34 330
R33 33
C46 .47 125V.
R5 470K
*205V ■216V ●-1·6V
V3-6FG6
R45 100K
C54 .01
SW 4
SW 2
R32 180 1W
V6 6V4
C2 50 300V.
C1 50 300V.
*205V ■216V
R1 1K 2W
240V
240V
200VAC
L2
L1
L3
6·3VAC
PL 1
A.C. INPUT
SW 1
* FM POSITION
■ BC & SW POSITION
● P.U. POSITION
PHONO
STEREO CARTRIDGE

Philips B4C87A / Rogers Majestic RG5050

ALIGNMENT PROCEDURE AND EQUIPMENT CONNECTIONS

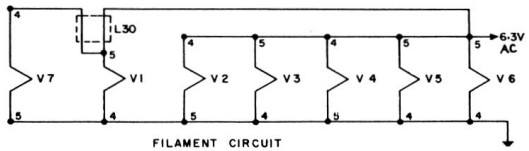
Output Indicator: **If a power output meter is used, adjust it for 4 Ω impedance and connect it across the secondary of the output transformer in place of the speaker voice coil. If an a.c. voltmeter is used, connect it across the speaker voice coil leads.**

At no time during alignment should the output exceed 500 milliwatts or 1.4 volts rms.

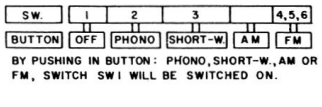
When aligning FM circuits a d.c. voltmeter is connected as indicated in alignment chart.

ALIGNMENT: Broadcast and Short Wave

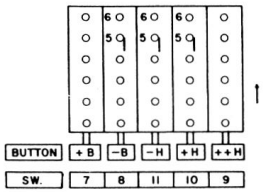
	SIGNAL GENERATOR COUPLING	FREQ.	BAND SWITCH	DIAL SETTING	INSTRUMENT	ADJUST	REMARKS
1.	Direct connected via. .05 coupling to pin 18 of switch #5	455 Kcs. 400 cps. Modulation 30%	Broadcast	1600 Kcs.	Output Meter 4 Ω load across output transformer or ac voltmeter across spkr. terminals	L14, L15 L18, L19 for max.	Tone button in B-H++ position, Vol. control max.
2.	Dummy Antenna connected via .05 coupling to AM antenna terminal.	455 Kcs. 400 cps Modulation 30%	Broadcast	520 Kcs.	Output Meter 4 Ω load across spkr. leads	L8, L9 for for min.	Short out coil L6 Tone & Voltage as in 1. Adjust input to maintain readable indication on meter.
3.	--	--	--	Set AM dial pointer to indication at left hand end of dial	--	--	--
4(a)	Dummy Antenna connected via .05 coupling to AM antenna terminal	1500 Kcs. 400 cps modulation 30%	Broadcast	1500 Kcs.	As in 1	C6 for max.	Short L5 & L6. Repeat 4a and 4b until freq. coincides with that indicated on dial. Remove L5 & L6 short.
4(b)	As in 2	550 Kcs 400 cps Mod. 30%	Broadcast	550 Kcs	As in 1	L11 for max.	
5	As in 2	1500 Kcs 400 cps Mod. 30%	Broadcast	1500 Kcs	As in 1	C5 for max.	
6(a)	As in 2	11.73mcs.	Shortwave	11.73mcs.	As in 1	C14 for	Repeat 6(a) & 6(b) until frequency is correct as indicated on dial
6(b)	As in 2	6.02mcs.	Shortwave	6.02mcs.	As in 1	L34, L35 for max.	
7(a)	As in 2	11.73mcs.	Shortwave	11.73mcs.	As in 1	C13 for max.	Repeat 7(a) & 7 (b) until no further improvement in gain results.
7(b)	As in 2	6.02mcs.	Shortwave	6.02mcs.	As in 1	L32, L33 for max.	



RESISTOR VALUES : K = 1 000, M = 1 000 000 OHMS. ½W UNLESS OTHERWISE STATED.
CAPACITOR VALUES : ⫩ SHOWN IN μμF, * ⫟ SHOWN IN μF.



BY PUSHING IN BUTTON: PHONO, SHORT-W., AM OR FM, SWITCH SW I WILL BE SWITCHED ON.



TONE CONTROL BUTTONS SHOWN IN ++H & +B OPERATING POSITIONS.

FM ALIGNMENT INSTRUCTIONS

8(a) FM Signal Generator connected across antenna terminals via 150 Ω in ground side of generator to give 300 Ω balanced input.	108 mc 15 Kcs. diviation 400 cps	FM	108 mc.	As in 1	Sensitivity 80 μV	Check that dial setting does not deviate from actual freq. by more than ±300 Kcs. If Freq. does not fall within limits adjust C11T.
8(b) As in 8 (a)	87.5 mc.	FM	87.5 mc.	As in 1	Sensitivity 80 μV	As in 8 (a)
9. Generator direct connected to TP1	10.7 mcs no model.	FM	108 mcs.	VTVM dc connected (see remark as to loc.)	1.0 for max. L22-L23 for 0V.	Connect 2 resistors of 220 K (1%) in series across C40. Connect VTVM between junction of 220K and top of volume control for adjustment of L22-L23. For adjustment of L20 connect VTVM across C40 and adjust for max. negative voltage. Remove 2 resistors after adjustment.
10. As in 9	10.7 mcs	FM	108 mcs	VTVM dc connected across C40	L12, L13, L28, L7T for max.	
RF ALIGNMENT INSTRUCTIONS						
11. Direct connected to FM antenna terminals	10.7 mcs	FM	108 mcs	VTVM dc connected across C40	Adjust C14T for min. response	Maintain high enough input signal to give readable indication on meter.
12. Balanced 300 ohm input to FM antenna terminals	108 mcs	FM	108 mcs	As in 10	Adjust C15T and C11T for max.	