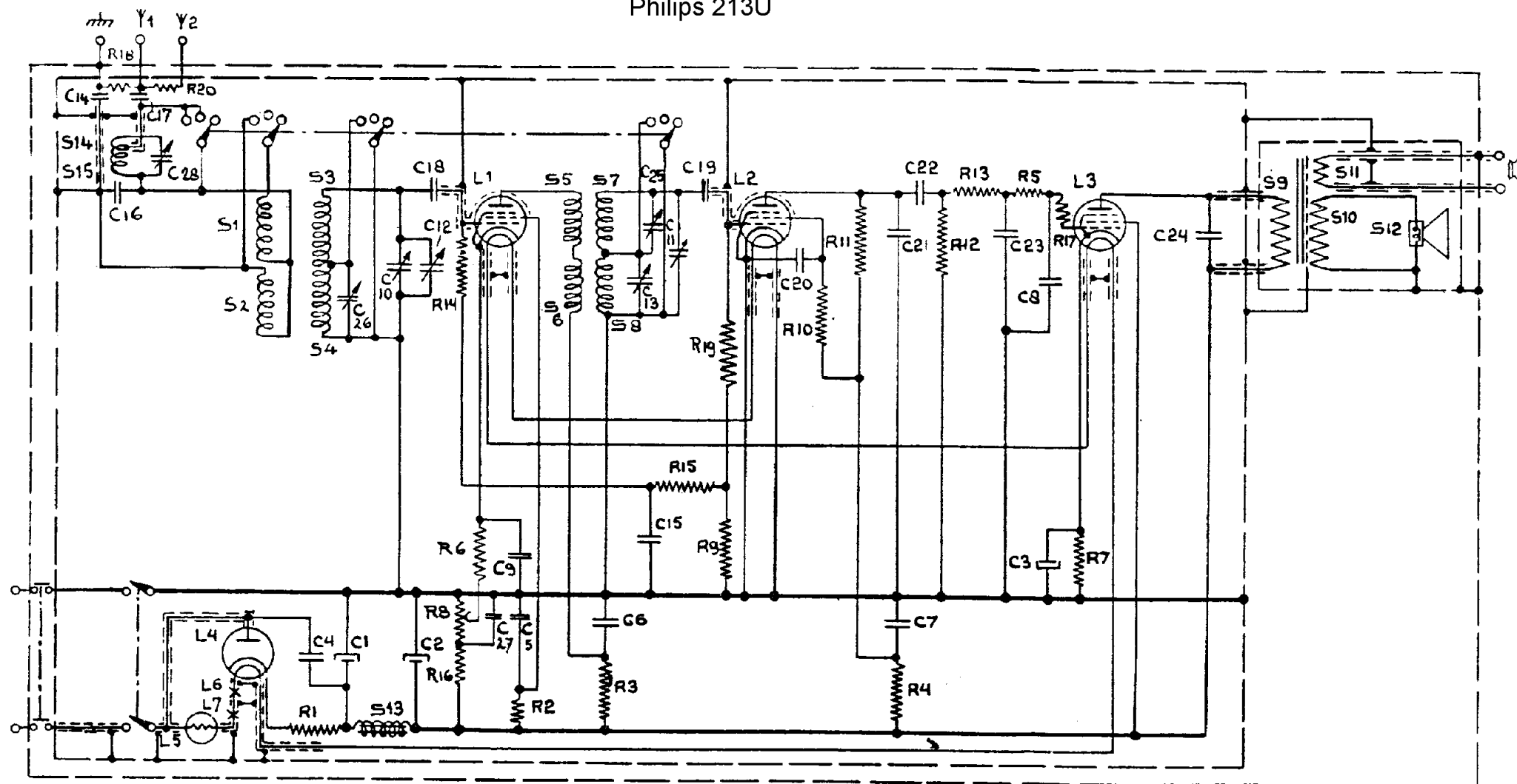


S:	14,15,	1, 2, 3,4,	13,	5,7, 6,8,				9,	10,	11,12
C:	14,28,16	4,17,1,16,	10,2,18,12,	9, 5,27,	6, 13,5,	11,19,25	20,	21,7,22,	23, 3,8,	8, 24
R:	18	20,	1,	6,14,8,16,1	3,	15,19,9,	10, 11,	4, 12,13,	5,17,7,	5,

# Philips 213U



# Philips 213U

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## LIST OF SPARE PARTS AND TOOLS—continued.

Fig.	Item.	Description.	Code No.
<b>TOOLS.</b>			
3   1		Trimming tool ... ..	09.990.900
		Universal measuring apparatus ... ..	09.991.030
		Universal support... ..	09.991.380
		Centring gauge for air gap ... ..	09.991.022
		Pertinax distance pieces for centring cone ... ..	09.990.840
		Box spanner for electrolytic condensers ... ..	09.990.760
		Service Oscillator Type GM.2880 (14—3,000 metres) ... ..	09.991.260
		Auxiliary dial ... ..	.....

## VALVES.

	L1	L2	L3	L4	L5	L6, L7
Type	VP13C	SP13C	Pen36C	CY1C	C1 or C1C	8070

## TABLE OF VOLTAGES AND CURRENTS.

	L1.	L2.	L3.	
Va	180—174	28.5	162	Volts
Vg'	85—88	24.5	84	Volts
—Vg	1.7—15.7	—	13.3	Volts
Ia	7.5	0.38	38	mA
Ig'	2.83	0.4	9	mA

- (1) All measurements are obtained with a mains voltage of 200 volts.
- (2) The voltages were measured with voltmeters having a resistance of 2,000 ohms per volt. The values given above are the mean of several measurements, therefore some readings obtained may differ appreciably, particularly as variations may arise due to the tolerances of the components as well as the valves. Before finally deciding that a valve is defective it is recommended that a replacement test with the same type of valve is made.

RESISTANCES.		
Designation	Resistances.	Code No.
R1	200 Ohm	28.799.420
R2	32000 Ohm	28.770.400
R3	1000 Ohm	28.770.250
R4	20000 Ohm	28.770.380
R5	50000 Ohm	28.770.420
R6	200 Ohm	28.770.180
R7	200 Ohm	28.770.830
R8	12500 Ohm	28.811.180
R9	0.64 M. Ohm	28.770.530
R10	0.8 M. Ohm	28.770.540
R11	0.32 M. Ohm	28.770.500
R12	0.5 M. Ohm	28.770.520
R13	50000 Ohm	28.770.420
R14	1.35 M. Ohm	28.770.560
R15	0.8 M. Ohm	28.770.540
R16	64000/2 Ohm	28.771.080
R17	1000 Ohm	28.770.250
R18	0.1 M. Ohm	28.770.450
R19	1.25 M. Ohm	28.770.560
R20	0.2 M. Ohm	28.770.480
R21	200 Ohm	28.720.180
CONDENSERS.		
C1	32 $\mu$ F	28.180.130
C2	32 $\mu$ F	28.180.130
C3	25 $\mu$ F	28.180.020
C4	0.1 $\mu$ F	28.199.900
C5	0.5 $\mu$ F	28.198.270
C6	0.1 $\mu$ F	28.199.090
C7	0.5 $\mu$ F	28.198.270
C8	100 $\mu\mu$ F	28.190.130
C9	0.1 $\mu$ F	28.199.090
C10	11—450 $\mu\mu$ F	} 28.210.510
C11	11—450 $\mu\mu$ F	
C12	0—27 $\mu\mu$ F	25.115.410
C13	0—27 $\mu\mu$ F	25.115.410
C14	0.1 $\mu$ F	28.199.850
C15	0.1 $\mu$ F	28.199.090
C16	80 $\mu\mu$ F	28.190.120
C17	1000 $\mu\mu$ F	28.199.650
C18	64 $\mu\mu$ F	28.190.110
C19	25 $\mu\mu$ F	28.210.040
C20	0.1 $\mu$ F	28.199.090
C21	125 $\mu\mu$ F	28.190.140
C22	20000 $\mu\mu$ F	28.199.020
C23	100 $\mu\mu$ F	28.190.130
C24	4000 $\mu\mu$ F	28.199.710
C25	0—27 $\mu\mu$ F	25.115.410
C26	0—27 $\mu\mu$ F	25.115.410
C27	0.5 $\mu$ F	28.198.270
C28	60—160 $\mu\mu$ F	28.210.720