COMPONENTS NOT SHOWN ON CIRCUIT DIAGRAM.

No. on Dial Drawing.	Description.	Code No.	Price.
—	Back, cabinet	33/679	5/6
—	Badge, Philips emblem	24/447	1/–
6	Bracket, dial slider rod, adjustable	23/444	6d.
7	Bracket, dial mounting	23/441	6d.
11	Bracket, gang, cable support	23/443A	1/6
—	Bracket, lamp socket mounting	23/474	1/6
—	Bracket and spindle, tuning control	93/249	2/–
—	Bracket, tuning indicator mounting	23/469	9d.
—	Bracket, tuning indicator socket	23/463	8d.
—	Cabinet, No. 27	33/663	£5/15/–
—	Card, knob indicating	33/223	2/–
4	Clamp and slider, pointer transport	24/519	2/6
—	Clicker plate, wave change	72/220	2/3
8	Cord, dial drive	35/316	5d.
—	Cord, power cable	26/211	1/9
—	Connector, power, male	34/579	9d.
—	Connector, power, female	34/578	1/3
5	Counterweight, dial pointer	24/475	3d.
10	Drum, dial drive	32/226	2/8
—	Escutcheon, moulded	32/256	2/11
—	Glass, dial, printed	33/577	6/3
—	Grommet, rubber, chassis mounting	32/311	2d.

No. on Dial Drawing.	Description.	Code No.	Price.
—	Knob, tuning control	32/229	7d.
—	Lamp, dial illuminating	92/212	1/6
—	Locking ring, amphenol socket	24/666	1d.
3	Pointer, glass	33/524	6d.
—	Rubber bands, dial glass	33/316	3d.
—	Silk, baffle	35/230	4/6
1	Slide rod, dial	24/252	1/6
—	Socket, octal, amphenol	34/521	6d.
—	Socket, 7 pin small, amphenol	34/542	6d.
—	Socket, "P" type	34/516	4d.
—	Socket, dial lamp	24/662	1/2
—	Spacers, brass, chassis mounting	24/299	2d.
—	Spacers, insulated, tuning control mounting	24/953	6d.
—	Speaker, complete with transformer	45/348	30/–
—	Spindle, extension, insulated	24/954	2/–
—	Spindle, volume control	24/963	6d.
9	Spring, dial cord tension	25/211	2d.
—	Switch section, wave-change	73/411	2/–
—	Switch, tone control	74/422	1/10
—	Transformer, speaker output	44/324	7/6
2, A, 12, 13, 14, 15	Wire assembly, dial drive	26/323	3/–

(PRICES QUOTED ARE STRICTLY NETT AND SUBJECT TO CHANGE WITHOUT NOTICE)

PHILIPS RADIOPLAYER

MODEL 2768

A.C./D.C. OPERATED FOR BROADCAST AND SHORT WAVE RECEPTION.

SPECIFICATIONS.

(Subject to alteration without notice.)

Voltage Rating (power supply):	195-260 volts A.C. or D.C.
Tuning Range:	1600 to 540 Kc/s, 8 to 22 Mc/s.
Intermediate Frequency:	472.5 Kc/s.

VALVE EQUIPMENT.

Frequency Converter	EK2G Octode.
I.F. Amplifier	CF2 R.F. Penthode.
Demodulator and Audio	CBC1 Diode Triode.
Power Amplifier	CL4 Power Penthode.
Rectifier	CY2 Half-wave.
Regulating Lamp	C1 Barretter.
Dial Lamp	(See parts list).

THE BARRETTER.

The function of the Iron-hydrogen regulating lamp is to control the current in the filament circuit so that variations in the power supply have no detrimental effect on the useful life of the receiving valves. The use of the Barretter furthermore enables the receiver to be operated on any mains voltage from 195 to 260 volts A.C. or D.C. without circuit alterations.

SAFETY PRECAUTIONS.

Every care has been taken to ensure that the Model 2768 is safe in operation. Aerial and earth connections are isolated by the provision of series condensers, control shafts are insulated and the set is enclosed by a protective back. It is necessary, however, to exercise due care in the installation or servicing of the receiver.

IMPORTANT.

Do not make any adjustment or in any way tamper with the back of the receiver without first removing the power plug. Adjustments to trimmers, etc., under "live" conditions should only be carried out with insulated tools and care should be taken to avoid personal contact.

REMOVING THE CHASSIS:

1. Remove power plug from mains socket.
2. Unscrew cabinet back.
3. Unscrew knobs at front of cabinet.
4. Remove chassis mounting bolts.
5. Withdraw loudspeaker plug from chassis.
6. Remove dial glass and mechanism by withdrawing the four screws securing the dial bracket at either end of the dial. Care should be taken during this operation to see that, when released, the dial glass is carefully laid aside to avoid risk of breakage. The remaining mechanism of the dial is now laid with care on top of the chassis, with due attention to the fact that the flexible cable should not be kinked.
7. The chassis may now be withdrawn.
8. Replacing the chassis may be accomplished by a reversal of the above-mentioned withdrawal procedure.

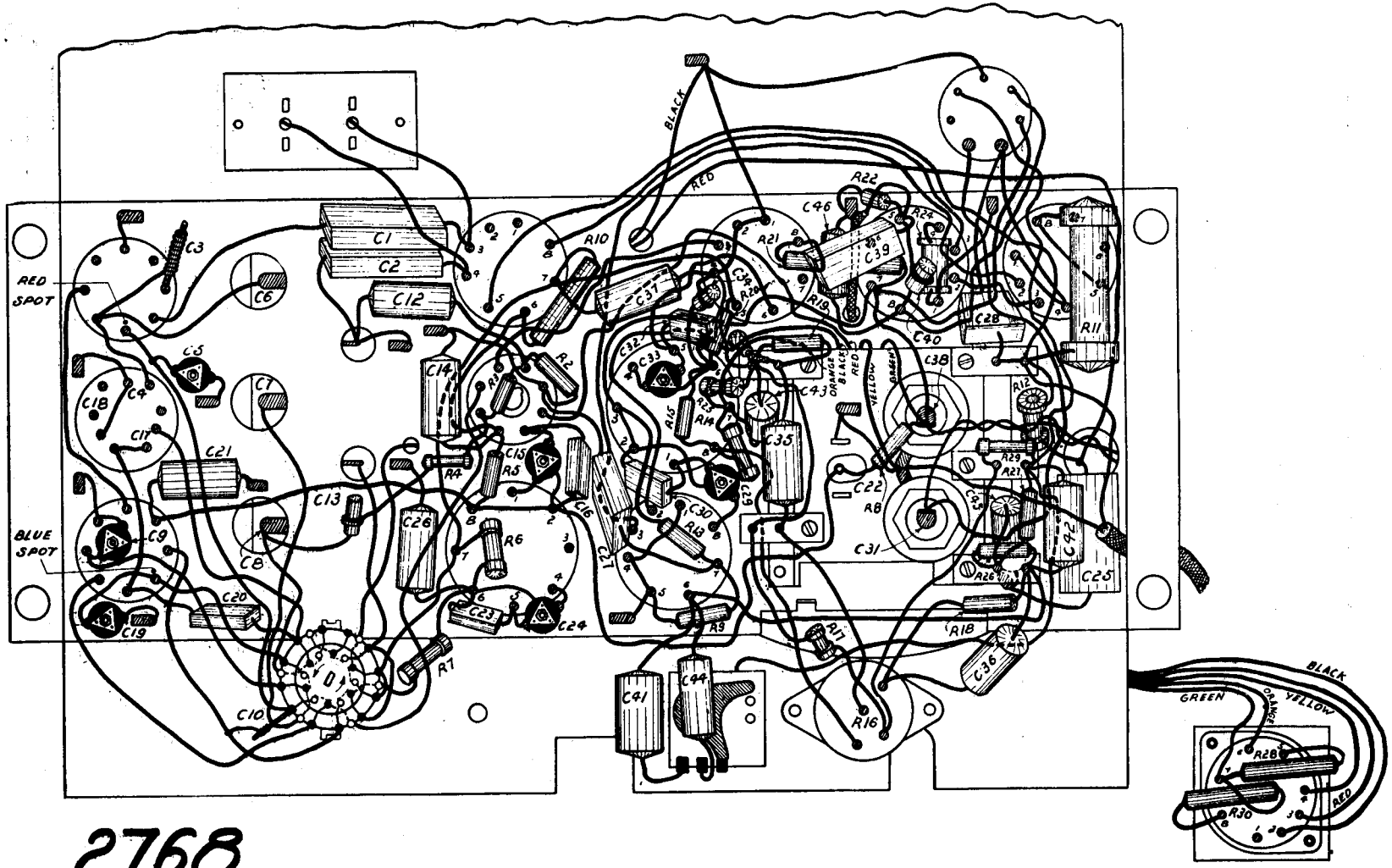
DIAL CALIBRATION.

If the pointer does not indicate the correct position for a given station, the position of the pointer in relation to the gang condenser may be adjusted by loosening the clamping screw on the pointer slider and moving the slotted wire tension guide in relation to the pointer slider.

After adjustment, tighten the clamping screw securely.

COMPONENT LOCATION DIAGRAM.

C.	4.9. 3. 6.7.8. 1. 26. 29. 27. 41. 33. 44. 29. 35. 46. 31. 39. 40. 45. 28. 42. 25.	C.
	18. 19. 17. 5. 21. 20. 10. 13. 2. 12. 19. 23. 15 16. 32. 31. 30. 34. 43. 22. 38. 36.	
R.	7. 4. 3. 5. 6. 2. 11. 15. 13. 14. 9. 25. 20. 21. 19. 17. 16. 8. 22. 24. 18. 26. 27. 12. 29. 11. 30. 28.	R.



2768

SERVICE DATA.

COMPONENT PARTS.

CONDENSERS. (PRICES QUOTED ARE STRICTLY NETT AND SUBJECT TO CHANGE WITHOUT NOTICE.)

No. on Circuit Diagram.	Value.	Code No.	Price.
C1	0.01 uF	52/225	1/5
C2	0.01 uF	52/225	1/5
C3	8 uuF	52/521	3d.
C4	2.5 to 30 uuF	54/313	8d.
C5	2.5 to 30 uuF	54/313	8d.
C6, C7, C8	Tuning Gang	53/215	10/3
C9	2.5 to 30 uuF	54/313	8d.
C10	Neutralising Condenser	52/527	3d.
C11	100 uuF	52/235	6d.
C12	0.01 uF	52/336	5d.
C13	100 uuF	52/235	6d.
C14	0.01 uF	52/336	5d.
C15	2.5 to 30 uuF	54/313	8d.
C16	80 uuF	52/239	6d.
C17	2.5 to 30 uuF	54/313	8d.
C18	2.5 to 30 uuF	54/313	8d.
C19	2.5 to 30 uuF	54/313	8d.
C20	420 uuF	52/236	7d.
C21	0.01 uF	52/336	5d.
C22	8 uF	52/428	3/–
C23	80 uuF	52/239	6d.
C24	2.5 to 30 uuF	54/313	8d.

No. on Circuit Diagram.	Value.	Code No.	Price.
C25	0.01 uF	52/225	1/5
C26	0.01 uF	52/336	5d.
C27	0.01 uF	52/336	5d.
C28	0.01 uF	52/225	1/5
C29	2.5 to 30 uuF	54/313	8d.
C30	80 uuF	52/239	6d.
C31	32 uF	52/417	3/4
C32	80 uuF	52/239	6d.
C33	2.5 to 30 uuF	54/313	8d.
C34	100 uuF	50/235	6d.
C35	0.05 uF	52/314	7d.
C36	0.1 uF	52/316	6d.
C37	.05 uF	52/314	7d.
C38	32 uF	52/417	3/4
C39	0.1 uF	52/317	7d.
C40	100 uuF	52/235	6d.
C41	0.05 uF	52/340	6d.
C42	0.002 uF	52/325	8d.
C43	0.05 uF	52/314	7d.
C44	0.006 uF	52/326	8d.
C45	0.05 uF	52/314	7d.
C46	0.004 uF	52/324	7d.

RESISTORS.

No. on Circuit Diagram.	Value.	Code No.	Price.
R1	1 megohm	62/214	4d.
R2	250 ohm	62/243	6d.
R3	50,000 ohm	62/212	4d.
R4	50 ohm	62/211	6d.
R5	0.15 megohm	62/233	4d.
R6	5 megohm	62/227	5d.
R7	5 megohm	62/227	5d.
R8	10,000 ohm	62/213	4d.
R9	0.25 megohm	62/232	4d.
R10	10 megohm	62/434	6d.
R11	60 ohm	64/224	1/6
R12	500 ohm	64/232	1/–
R13	0.1 megohm	62/215	4d.
R14	5 megohm	62/227	5d.
R15	50,000 ohm	62/212	4d.

No. on Circuit Diagram.	Value. Potentiometer,	Code No.	Price.
R16	tapped	63/612	3/9
R17	25 ohm	62/223	6d.
R18	50,000 ohm	62/212	4d.
R19	2 megohm	62/222	4d.
R20	2 megohm	62/222	4d.
R21	0.25 megohm	62/415	5d.
R22	0.5 megohm	62/216	4d.
R23	50,000 ohm	62/212	4d.
R24	200 ohm	64/240	6d.
R25	5 megohm	62/227	5d.
R26	10,000 ohm	62/213	4d.
R27	1,000 ohm	62/234	4d.
R28	0.5 megohm	62/419	6d.
R29	50 ohm	62/211	6d.
R30	1 megohm	62/418	5d.

COILS.

No. on Circuit Diagram.	Description.	Code No.	Price.
L1, L2, L3, L4	Aerial Coil	42/720	4/9
L5, L6, L7, L8, L9	Bandpass and osc. coil	42/216	5/–
L10, L11	1st Intermediate	42/319	7/3

No. on Circuit Diagram.	Description.	Code No.	Price.
L12, L13	2nd Intermediate	42/423	7/3
L14	Choke 250 ohm	44/415	6/6
L15, L16, L17, L18, L19	Speaker with transformer	45/348	30/–
L15, L16	Output transformer	44/324	7/6

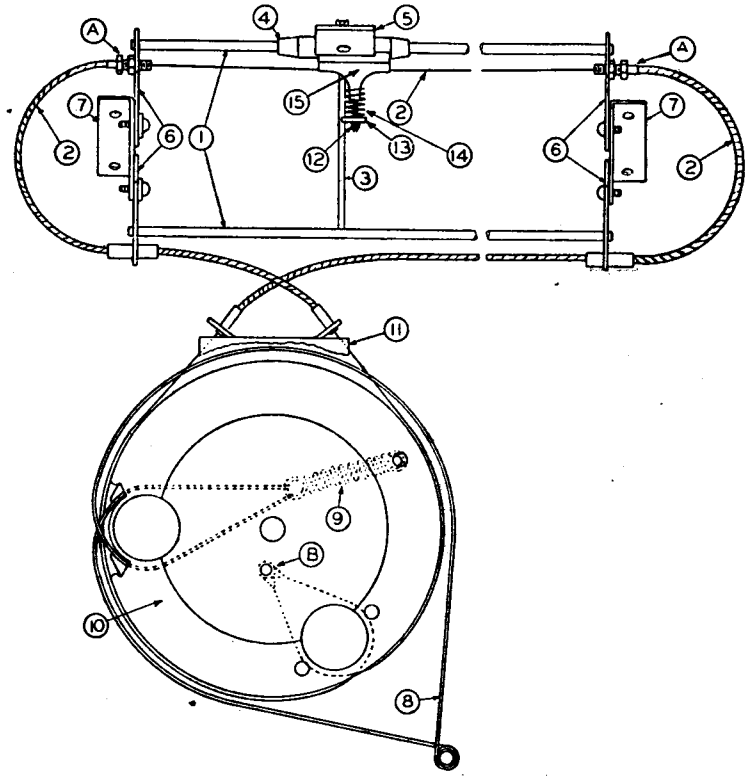
IMPORTANT: In ordering spare parts quote CODE NUMBER ONLY. If claiming free replacement under GUARANTEE, return defective parts PROMPTLY and quote TYPE and SERIAL NUMBER of RADIOPLAYER.

VOLTAGE ANALYSIS.

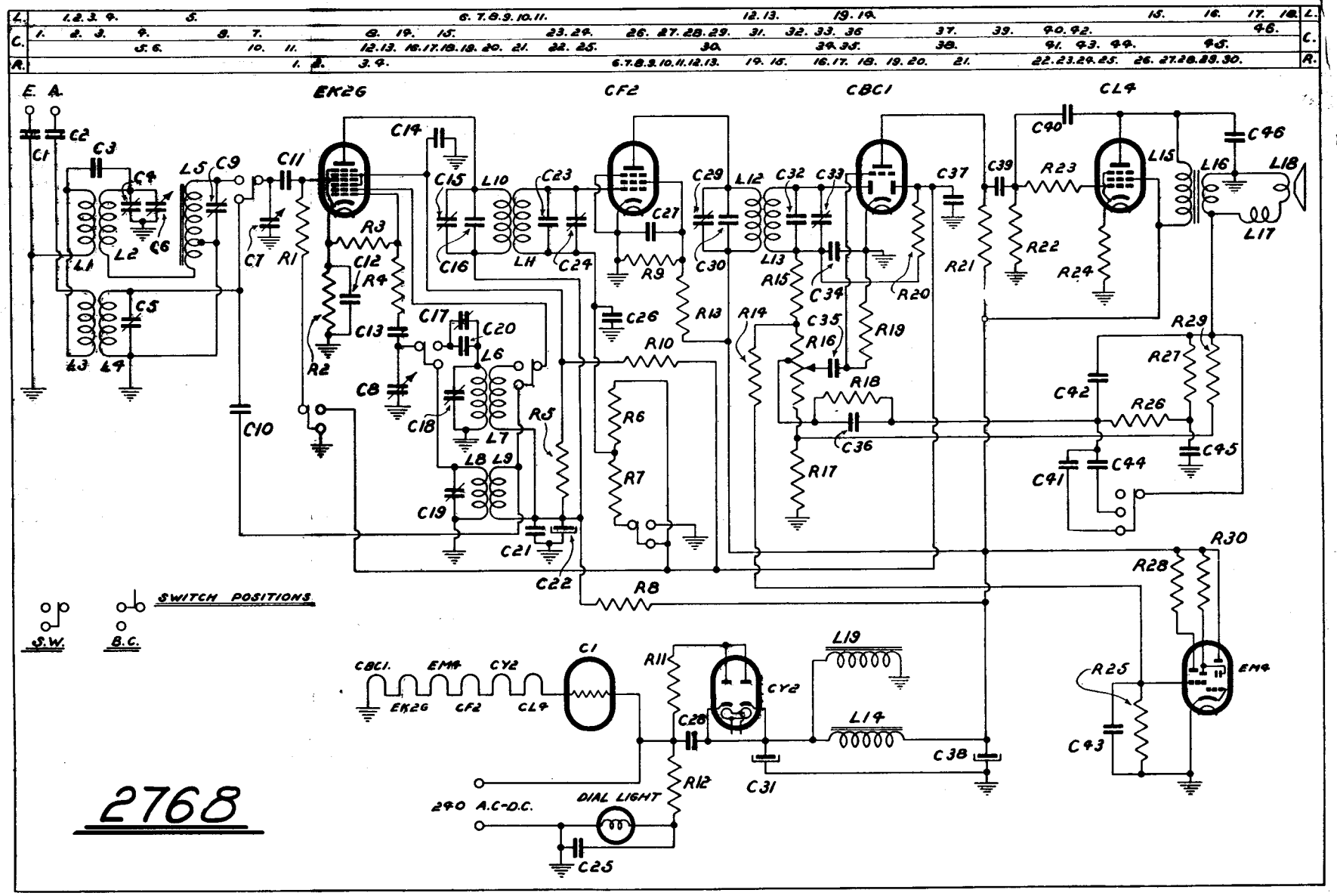
Valve. Type.	Plate Voltage.	Screen Voltage	Cathode. Voltage.
EK2G	175 (osc. p. = 175v)	45	2
CF2	235	80	0
CBC1	35	—	0
CL4	230	235	10

NOTE:

The abovementioned voltage values are measured between the socket points indicated and chassis, with the receiver in the no signal condition and with the volume control at zero. Voltages are measured with a 1,000 ohm per volt voltmeter and may vary as much as 10 per cent. from the figures quoted.



DIAL PARTS DIAGRAM



CHASSIS LAYOUT DIAGRAM.