



MODIFICATION SHEET

PHILIPS RADIOPLAYER

MODELS 148-B-C-D

NOTE: This sheet should be read in conjunction with the service data sheet for Model 148.

MODEL 148.

Errata.

Two errors were incorporated in the Model 148 sheet. Following are details of the necessary corrections.

In the "Miscellaneous Components" section, the entry of "Link, carrying handle," should have code number CS.365.252, not CS.365.282 as shown.

On the circuit diagram, the primary windings of the I.F. transformers carry incorrect lug numbering. In each case the plate ends should be marked 1 and the H.T. ends marked 3.

Code Number Changes

The following code number changes have been made and the necessary notation should be made on the original sheet.

Case end code numbers change:—
from CR.248.013 to CR.248.015;
from CS.217.014 to CR.248.016.

Dial scale code number changes from CS.412.331 to CS.412.362.

The mains power plug is now supplied as a complete unit.

From the "Miscellaneous Components" list, delete the following items:—

Body, power plug	CS.218.703
Contacts, power plug	CS.102.423
Plate, insul (power plug)	CS.110.799
Plate, cover (power plug)	CS.462.359

Add to the list:—

Assembly, power plug	CZ.365.112
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Change in Value.

R18 changed in value from 5 megohms to 3 megohms $\frac{1}{2}W$.

Circuit Changes.

Circuit diagram is published overleaf. The following circuit diagram and associated component value changes have been made.

C13 changed in value from 560 pF to 525 pF 2% mica.

R4 changed in value from 20,000 ohms to 50,000 ohms $\frac{1}{2}W$.

R3 changed in value from 50,000 ohms to 100,000 ohms $\frac{1}{2}W$.

C14 changed in circuit position from chassis return to junction of C13 and R3.

V2 screen volts changed to 35 volts.

R23 changed in value from 1,000 ohms to 500 ohms $\frac{1}{2}W$ 10% and in position to junction of pin 7 of V4 socket and pin 1 of V2 socket.

R22 changed in position to junction of pin 1 of V3 socket and C25.

R24, of value selected from the table below, is added to a position in parallel with the series combination of R16 and R17

R24 is selected from the following values such that filament voltage measured from pin 7 of V5 socket to chassis is within the limits 7.5-8.4 volts—

50,000 ohms 1W	20%
30,000 ohms 1W	20%
25,000 ohms 1W	20%
20,000 ohms 1W	20%

Negative feedback has been removed from the audio end.

R13 and R14 have been deleted.

R8 potentiometer is returned to chassis.

C18 is changed in value from 0.001 mF to 0.01 mF 600V paper.

R12 is changed in circuit position, now being returned to pin 7 of V4 socket.

MODEL 148A

This version was not produced.

MODEL 148B.

Model 148B incorporates all of the above changes as well as changes in the colour of external moulded parts.

Details of burgundy coloured items are:—

Carrying handle	CR.523.803
Dial support, L.H.	CS.217.212
Dial support, R.H.	CS.217.213
Mounting foot, front	CS.240.028
Mounting foot, rear	CS.240.029
Case end assembly, L.H.	CR.248.019
Case end assembly, R.H.	CR.248.020

MODEL 148C.

Model 148C is the same as Model 148B except for changes in I.F. transformers. Circuit diagram is published overleaf.

L6 11.5-15.5 ohms	} 1st I.F.T.	CZ.320.433
L7 12.5-16.5 ohms		
L10 12.5-16.5 ohms	} 2nd I.F.T.	CZ.320.433
L11 11.5-15.5 ohms		

R5 changes in value from 100,000 ohms to 82,000 ohms $\frac{1}{2}W$.

Screen voltage of V1 and V3 changes to 32 volts.

MODEL 148D.

Model 148D is the same as Model 148C except for changes in I.F. transformers, speaker and speaker transformer. Circuit diagram is published overleaf.

L6 8.0-9.0 ohms	} 1st I.F.T.	CZ.320.443
L7 9.8-11.2 ohms		
L10 9.8-11.2 ohms	} 2nd I.F.T.	CZ.320.443
L11 8.0-9.0 ohms		

L12	} Output transformer	(8,000 ohms)
L13		

L14 Speaker type 6H, F82

C21 changed in value from 0.02 mF to 0.01 mF 400V paper.

R5 changed in value from 82,000 ohms to 150,000 ohms $\frac{1}{2}W$.

Screen voltage of V1 and V3 changed to 27 volts. Alignment procedure for the I.F. channel is altered as follows:—

- Screw IN all slugs except secondary of 2nd I.F.T. by half-turn.
- Peak slugs in turn—
Secondary 2nd I.F.T. (nearer V4)
Primary 2nd I.F.T. (nearer V3)
Secondary 1st I.F.T. (nearer V3)
Primary 1st I.F.T. (nearer V2)
- Repeak primary 2nd I.F.T. ONLY—do not repeak other slugs.

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