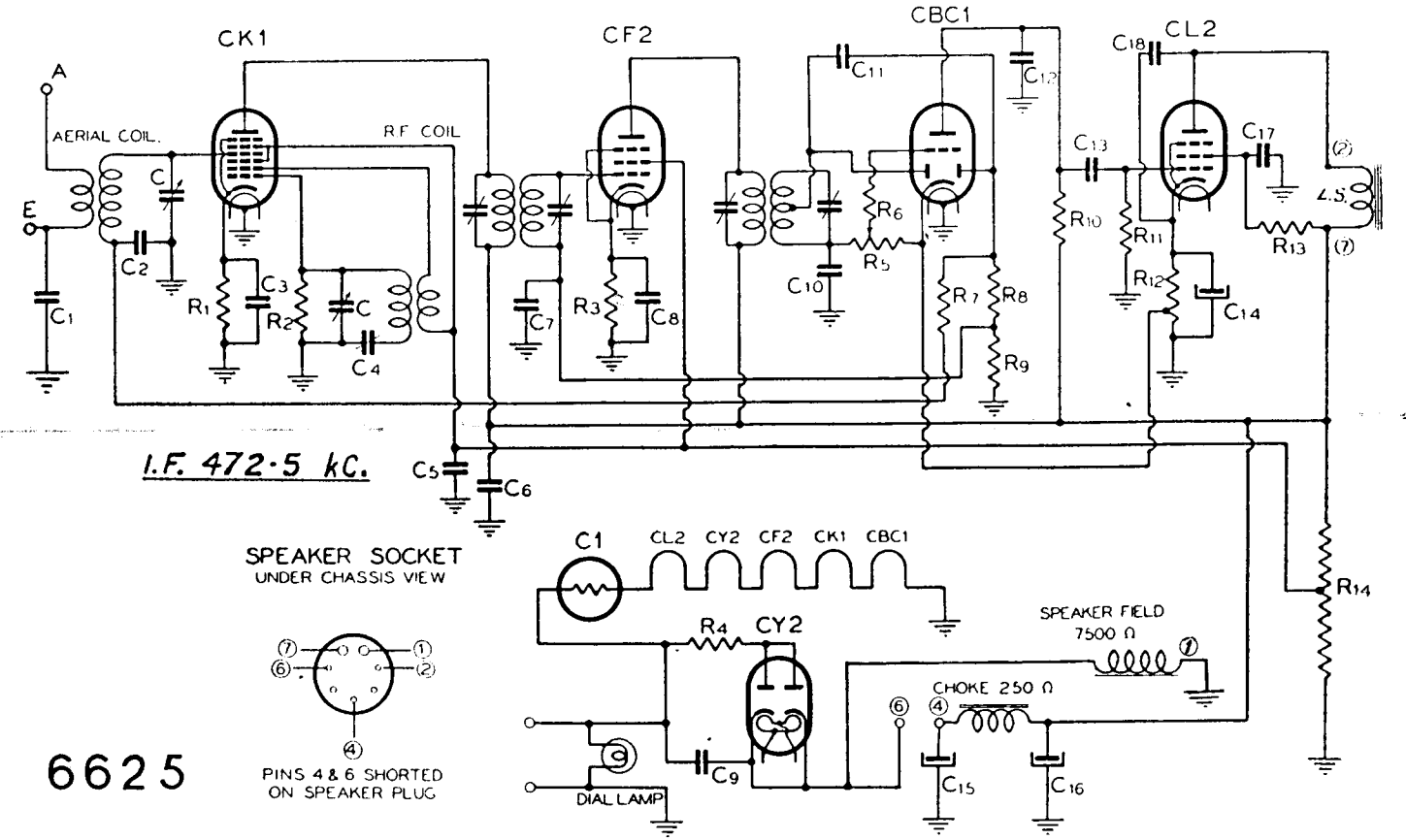
Philips' "Radioplayer" A.C./D.C. Broadcast Mantel 6625



6625

Radioplayer "6625"

1937 Mantel Model

Uses 8-inch, 7,500 ohms field, loudspeaker.

Note method of biasing CBC1 and also return of CBC1 cathode to CL2 bias resistor tap in order to provide A.V.C. delay.

COMPONENT VALUES.

RESISTORS.

R1, R3—500 ohms, ½ W.; **R2**—50,000 ohms, ½ W.; **R4**—60 ohms, w.w.; **R5**—500,000 ohms, volume control; **R6**—100,000 ohms, ½ W.; **R7, R8, R11**—1 megohm, ½ W.; **R9**—500,000 ohms, ½ W.; **R10**—100,000 ohms, 1 W.; **R12**—350 ohms, w.w.; **R13**—25,000 ohms, 1 W.; **R14**—25,000 ohms, voltage divider.

CONDENSERS.

C—sections of 2-gang variable; **C1, C9**—0.01 mfd., mica, 1,500 v. test; **C2, C3, C5, C8, C17**—0.1 mfd., paper; **C4**—padder; **C6**—0.25 mfd. paper; **C7**—0.05 mfd., paper; **C10, C11, C12**—100 mmfd., mica; **C13**—0.02 mfd. paper; **C14**—25 mfd., low voltage, electro.; **C15, C16**—32 mfd., high voltage, electro.; **C18**—0.006 mfd., mica.

OPERATING VOLTAGES.

All measurements were made with a "1,000 ohms per volt" meter and voltages are those existing between the socket contact indicated and chassis. The receiver was operated from 240 v. A.C. supply, under "no signal" conditions with the volume control in the "minimum" position.

CK1, Frequency Converter: Plate, 225 v.; screen, 90 v.; cathode, 4 v.; osc. anode grid, 90 v. Plate current, 1.3 mA.

CF2, 472.5 kC. I.F. Amplier: Plate, 225 v.; screen, 90 v.; cathode, 2 v. Plate current, 3.5 mA.

CBC1, Detector, A.V.C. Rectifier, and A-F. Voltage Amplifier: Plate, 45 v.; cathode, 5 v. Plate current, 1.5 mA.

CL2, Output Pentode: Plate, 200 v.; screen, 90 v.; cathode, 16 v. Plate current, 33 mA.