Philips' "Radioplayer" Battery Model 6510

1937 Console, uses 8-inch permag. loudspeaker.

(Circuit diagram appears on facing page.)

COMPONENT VALUES.

RESISTORS.

R1, R7, R10—1 megohm, ½ W.; **R2, R8**—100,000 ohms, ½ W.; **R3, R5**—50,000 ohms, 1 W.; **R4**—25,000 ohms, 1 W.; **R6**—500,000 ohms, volume control; **R9, R12**—500,000 ohms, ½ W.; **R11**—250,000 ohms, 1 W.; **R13**—400 ohms, w.w.

CONDENSERS.

C—sections of 3-gang variable; **C1, C6**—special condensers, inside coil cans; **C2, C9, C10**—0.1 mfd., paper; **C4**—0.5 mfd., paper; **C5, C11**—0.05 mfd., paper; **C7, C12, C14**—100 mmfd., mica; **C8**—padder; **C13**—0.02 mfd., paper; **C15**—250 mfd., mica; **C16**—0.01 mfd., mica; **C17**—0.004 mfd., mica; **C18**—25 mfd., low voltage, electro.

OPERATING VOLTAGES.

The following measurements were made with a "1,000 ohms per volt" meter, and voltages are those existing between the socket contact indicated and chassis. Grid voltages are measured at the source (i.e., at the various tappings on the back-biassing resistor R13), and not at the socket contacts. The receiver was in a "no signal" condition with the volume control in the "minimum" position.

KF3, R.F. Amplifier: Plate, 130 v.; screen, 130 v.; grid, —1 v. Plate current, 1.5 mA.

KK2, Frequency Converter: Plate, 130 v.; screen, 40 v.; grid, —1 v.; osc. anode grid, through 25,000 ohms, 1 W., resistor from H.T. Plate Current, 0.5 mA.

KF3, 462.5 kC. I.F. Amplifier: Plate, 130 v.; screen, 130; grid, —1 v. Plate current, 1.5 mA.

KBC1, Detector, A.V.C. Rectifier and A.F. Voltage Amplifier: Plate, 25 v.; grid, —3 v. Plate current, 0.2 mA.

KL4, Output Pentode: Plate, 130 v.; screen, 130 v.; grid, —5 v. Plate current, 6 mA.

"B" battery drain, 10 mA.; "A" battery drain, 0.47 ampere.

I.F.—462·5 kC.

Philips' "Radioplayer" Battery Broadcast Console 6510