

Mullard Model 92

1938 Console Model

Battery-operated and uses 10-inch permag. loudspeaker.

Circuit diagram appears on facing page.

COMPONENT VALUES.

RESISTORS.

R1—10,000 ohms, $\frac{1}{2}$ W.; R2, R9—30,000 ohms, $\frac{1}{2}$ W.; R3, R10—50,000 ohms, $\frac{1}{2}$ W.; R4, R12, R15—100,000 ohms, $\frac{1}{2}$ W.; R5, R6—10,000 ohms, $\frac{1}{2}$ W.; R7—5,000 ohms, $\frac{1}{2}$ W.; R8—100,000 ohms, $\frac{1}{2}$ W.; R11—1 megohm, $\frac{1}{2}$ W.; R13, R14, R16, R21—500,000 ohms, $\frac{1}{2}$ W.; R17—500,000 ohms, volume control; R19—180 ohms, w.w.; R20—130 ohms, w.w.; R22—50,000 ohms, $\frac{1}{2}$ W.; R23—1 megohm, $\frac{1}{2}$ W.; R24—250,000 ohms, $\frac{1}{2}$ W.

CONDENSERS.

C1, C5, C13, C14, C16—0.05 mfd., 400 v., paper; C2, C3, C6, C15, C24—0.1 mfd., 400 v., paper; C4—8 mfd., 500 v. peak, electro; C7, C19—100 mfd., mica; C8—3,900 mmfd., $\pm 1\%$, mica, S.W. padder; C9—300 mmfd., $\pm 3\%$, mica, B.C. padder shunt, C10—3-plate B.C. padder; C11—0.001 mfd., mica;

C12—0.25 mfd., 400 v., paper; C17, C21, C23—250 mmfd., mica; C18—0.005 mfd., mica; C20—0.01 mfd., 400 v., paper; C22, C26—0.002 mfd., mica; C25—25 mfd., 25 v. peak, electro.

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 operating under "no signal" conditions with the wave-change switch in the S.W. position.

1D5G, R.F. Amplifier: Plate, 130 v.; screen, 55 v.; grid, —3.5 v. Plate current, 1.5 mA.

1C7G, Frequency Converter: Plate, 125 v.; screen, 55 v.; grid, —3.5 v.; osc. anode grid, 65 v. Plate current, 1.2 mA.

1D5G, 456 KC., 1st I.F. Amplifier: Plate, 130 v.; screen, 35 v.; grid, —3.5 v. Plate current, 0.4 mA.

1D5G, 456 KC., 2nd I.F. Amplifier: Plate, 130 v.; screen, 35 v.; grid, —3.5 v. Plate current, 0.4 mA.

1K7G, Detector, A.V.C. Rectifier and A.F. Voltage Amplifier: Plate, 40 v.; screen, 20 v.; grid, zero. Plate current, 0.3 mA.

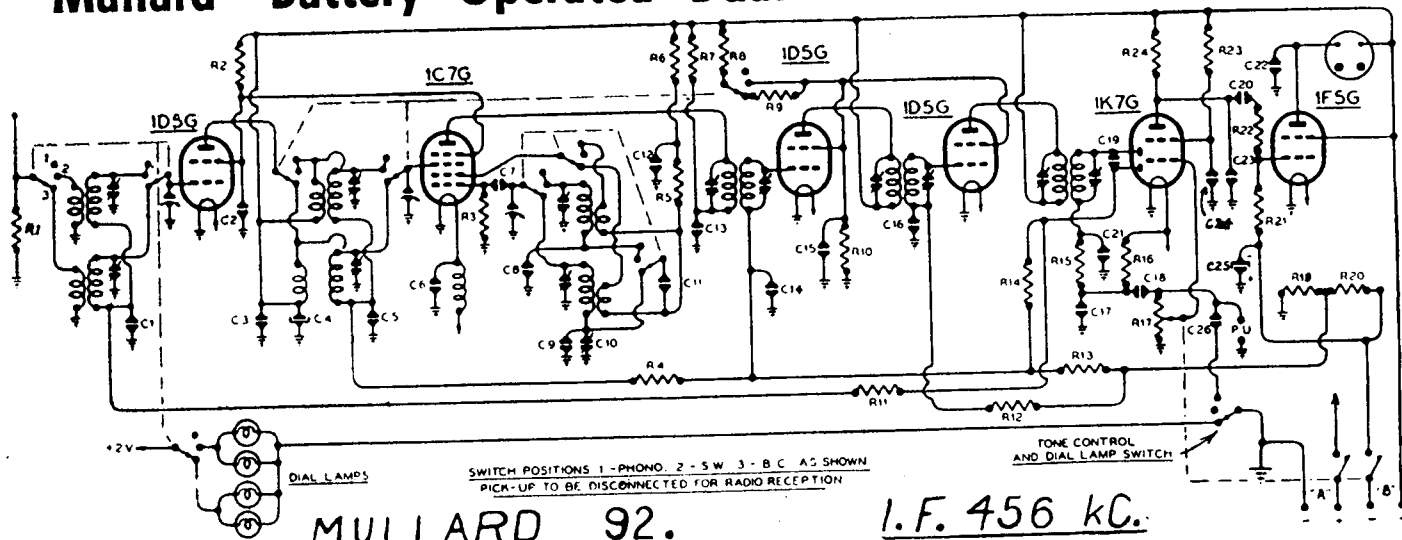
1F5G, Output Pentode: Plate, 125 v.; screen, 130 v.; grid, —6 v. Plate current, 6 mA.

Total "B" battery drain (no signal), 20 mA.; total "A" battery drain (without dial lamps), 0.54 amperes.

BATTERY COLOUR CODE.

Yellow—B +, 135 v.; White—B—, 135 v.; Red—A +, 2 v.; Black—A—, 2 v.

"Mullard" Battery Operated Dual-Wave Console Model 92



Circuit data and operating voltages for Mullard 92 will be found on facing page.