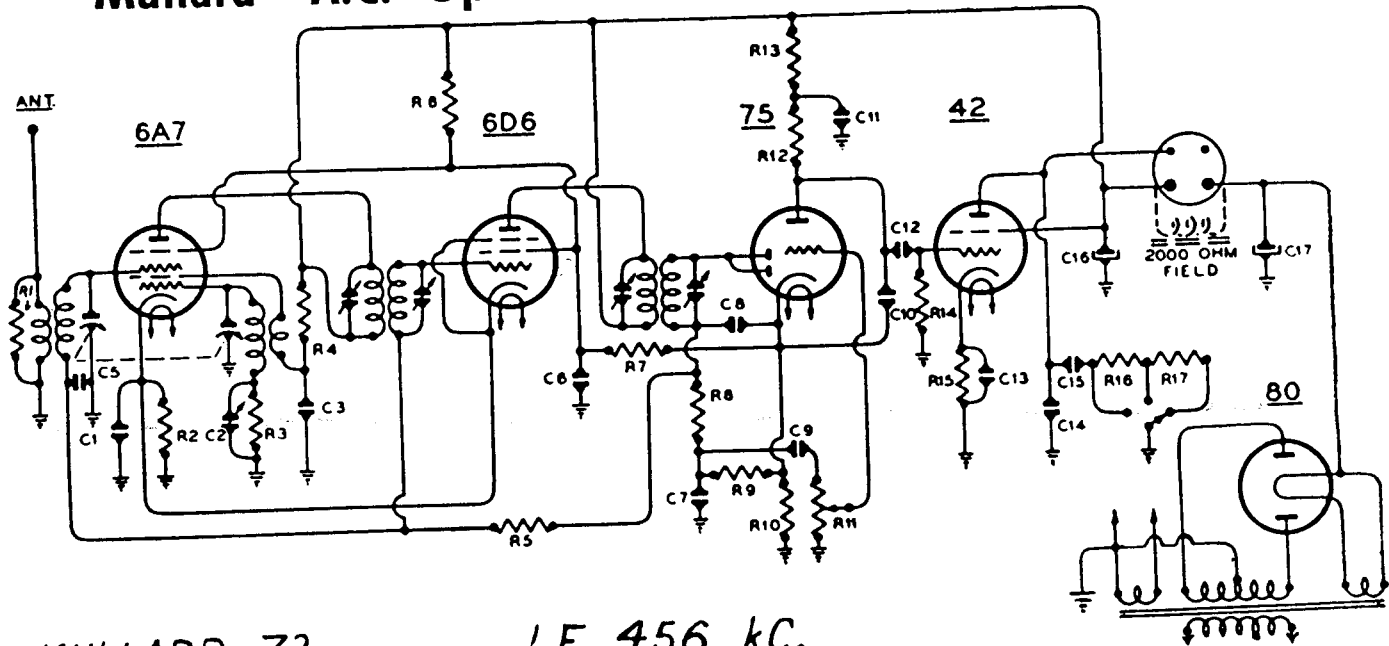


# "Mullard" A.C. Operated Broadcast Console Model 73



MULLARD 73.

I.F. 456 KC.

1938 CONSOLE MODEL.

Uses 8-inch, 2,000 ohms field, loudspeaker.

COMPONENT VALUES.

RESISTORS.

R1—10,000 ohms,  $\frac{1}{2}$  W.; R2, R10—200 ohms,  $\frac{1}{2}$  W.; R3, R7—20,000 ohms,  $\frac{1}{2}$  W.; R4—30,000 ohms,  $\frac{1}{2}$  W.; R5—1 megohm,  $\frac{1}{2}$  W.; R6—10,000 ohms, 1 W.; R8—50,000 ohms,  $\frac{1}{2}$  W.; R9—25,000 ohms,  $\frac{1}{2}$  W.; R11—500,000 ohms, volume control; R12—250,000 ohms,  $\frac{1}{2}$  W.; R13—50,000 ohms,  $\frac{1}{2}$  W.; R14—500,000 ohms,  $\frac{1}{2}$  W.; R15—500 ohms, 1 W.; R16—5,000 ohms,  $\frac{1}{2}$  W.; R17—15,000 ohms,  $\frac{1}{2}$  W.

CONDENSERS.

C1—0.2 mfd., 400 v., paper; C2—5-plate padder, C3—2,000 mmfd., mica; C5—0.1 mfd., 400 v., paper; C6—0.02 mfd., 400 v., paper; C7, C8—100 mmfd., mica; C9, C12—0.01 mfd., paper; C10—250 mmfd., mica; C11—0.25 mfd., 400 v., paper; C13—10 mfd., 25 v. electro.; C14—5,000 mmfd., mica; C15—0.05 mfd., 400 v., paper; C16, C17—3 mfd., 500 v., 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 readings were taken with the receiver in a "no signal condition, and the mains voltage at

either 215 or 240 volts, whichever range is selected on the transformer tap. It should be noted that the transformer primary colour code is as follows—black, common; yellow, 200/230 v.; red, 230/250 v.

6A7, Frequency Converter: Plate, 230 v.; screen, 110 v.; cathode, 5 v.; osc. anode grid, 120 v. Plate current, 6 mA.

6D6, 456 KC. I.F. Amplifier: Plate, 230 v.; screen, 110 v.; cathode, 5 v. Plate current, 8 mA.

75, Detector, A.V.C. Rectifier and A.F. Voltage Amplifier: Plate, 80 v.; cathode, 1 v. Plate current, 0.4 mA.

42, Output Pentode: Plate, 225 v.; screen, 230 v.; cathode, 15 v. Plate current, 30 mA.

60, Rectifier: Filament to chassis, 375 v.; voltage drop across loudspeaker field, 145 v.