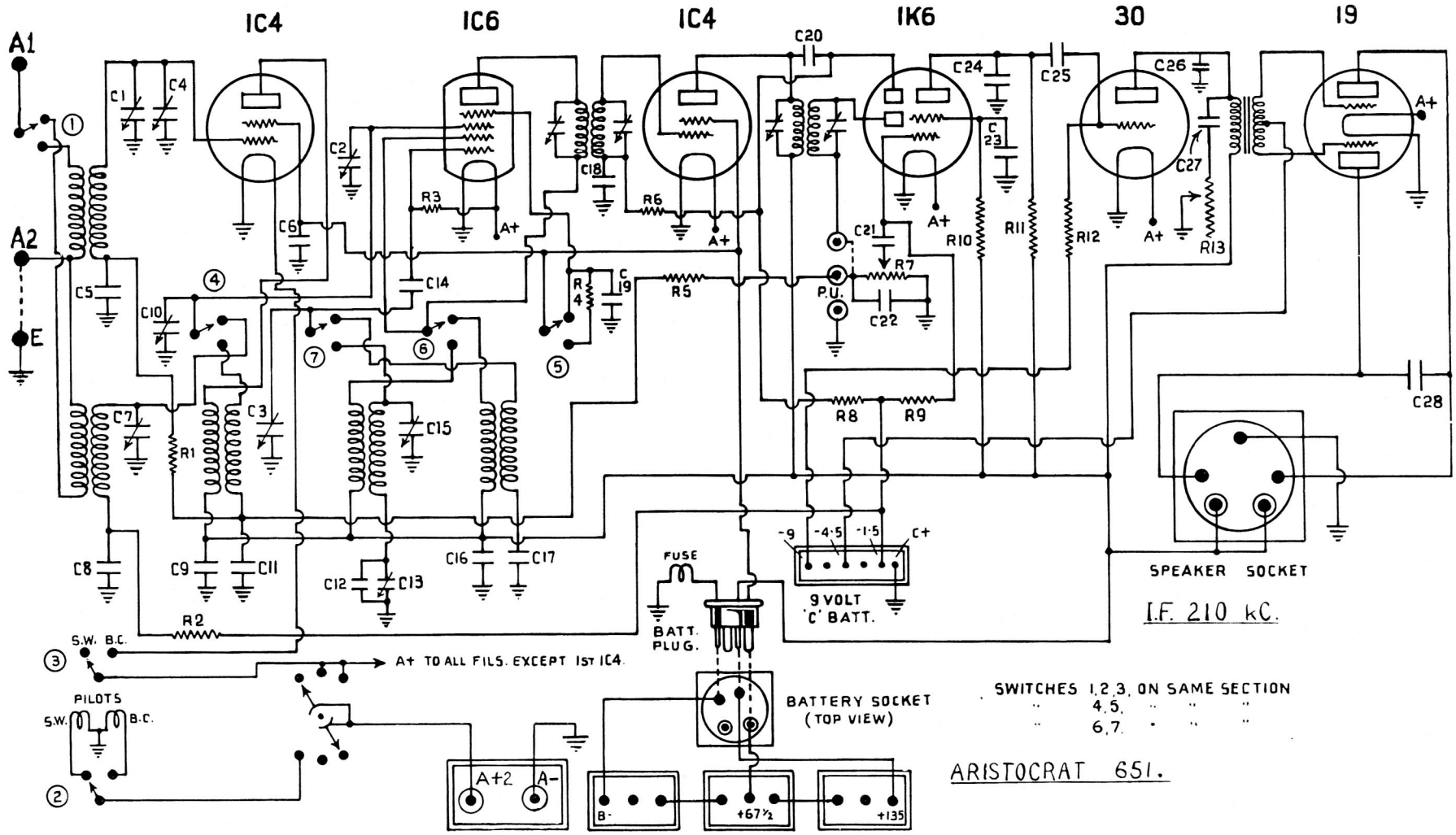
"Aristocrat" Battery Operated Dual-Wave Console Model 651



ARISTOCRAT MODEL 651

Uses 10-inch Permag. loudspeaker with 20,000 ohms p.-to-p. transformer. Early receivers of this model used 1B5 instead of 1K6 and omitted R10 and C23. Also listed as model "651V" with modifications to filament wiring to permit 6-volt operation and use of vibrator unit shown on p. 200.

Component Values

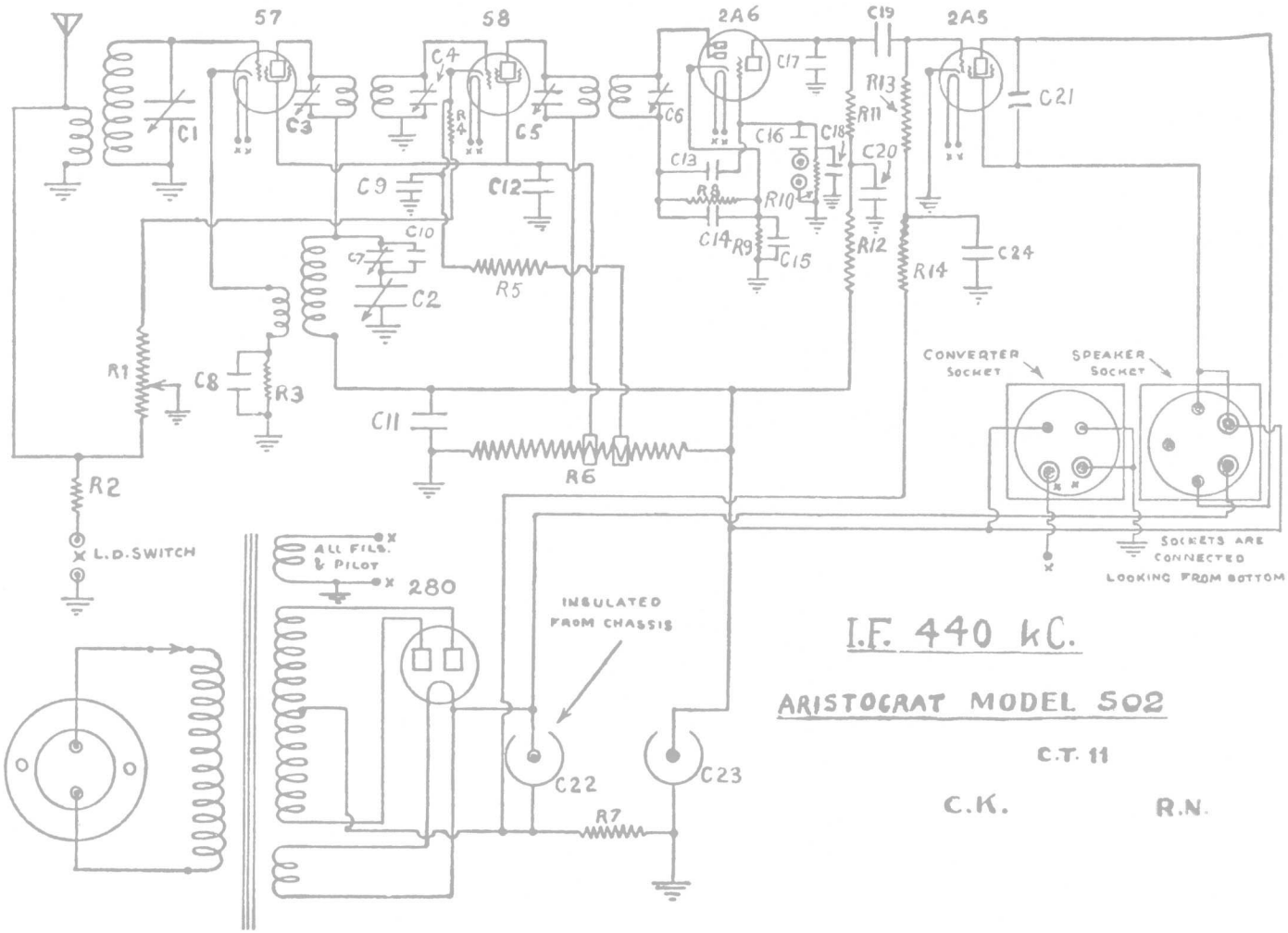
RESISTORS.

R1—100,000 ohms, ⅛ W.; **R2, R12**—500,000 ohms, ½ W.; **R3**—50,000 ohms, ⅓ W.; **R4**—25,000 ohms, 1 W.; **R5, R6, R9**—1 megohm, ⅓ W.; **R7**—500,000 ohms, volume control; **R8, R11**—1 megohm, 1 W.; **R10**—500,000 ohms, ½ W.; **R13**—500,000 ohms, variable.

CONDENSERS.

C1, C2, C3—sections of 3-gang variable; **C4, C7, C10, C15**—2-plate trimmers; **C5, C19**—0.05 mfd.; **C6, C8, C11, C16, C18, C23**—0.1 mfd.; **C9, C21, C25**—0.01 mfd., mica; **C12**—500 mmfd., B.C. padder shunt; **C13**—7-plate B.C. Padder; **C14, C20, C22**—100 mmfd., mica; **C17**—0.008, mfd., mica; S.W. padder; **C24**—100 or 250 mmfd., mica; **C26**—250 mmfd., mica; **C27**—0.02 mfd.; **C28**—0.004 mfd.

"Aristocrat" A.C. Operated Broadcast Console Model 502



Aristocrat Model 502 1935 Model Console

Magnavox Loudspeaker. Diameter, 10 in.; Field, 2500 ohms. 4-pin socket provides "A" and "B" for S.W. Converter.

COMPONENT VALUES.

RESISTORS.

R1—20,000 ohms, volume control; R2—20 ohms, w.w.; R3, R9—5,000 ohms; R4—300 ohms, w.w.; R5, R12—50,000 ohms; R6—15,000 ohms, voltage divider; R7—400 ohms, 60 mA., w.w.; R8, R10, R13, R14—500,000 ohms; R11—100,000 ohms.

CONDENSERS.

C1, C2—sections of 2-gang variable; C3, C4, C5, C6—I.F.T. trimmers; C7—4-plate padder; C8—0.001 mfd.; C9, C11, C12, C16, C20—0.1 mfd.; C10, C14—400 mmfd.; C13, C19—0.01 mfd.; C15—0.5 mfd., C17—100 mmfd.; C18—500 mmfd.; C21, C24—0.006 mfd.; C22, C23—8 mfd., electro.

OPERATING VOLTAGES.

All readings taken with a "1,000 ohms per volt" meter, and a 240 volts line input.

57, Autodyne Frequency Converter: Plate, 240 v.; screen, 110 v.; cathode, 7.0 v. Cathode current, 1mA.

58, I.F. Amplifier, 440 kC.: Plate, 240 v.; screen, 110 v., cathode 4.0 v. Cathode current, 8 mA.

"Aristocrat" Vibrator Unit

(at right)

Synchronous type, used with all 1937 "V" models.

COMPONENT VALUES.

RESISTORS.

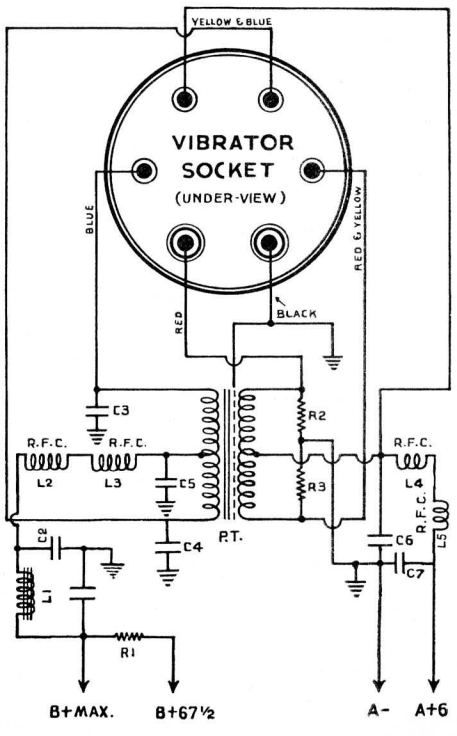
R1—25,000 ohms, 1 W.; R2, R3—150 ohms, w.w.

CONDENSERS.

C1, C2—8 mfd., electro; C3, C4—0.01 mfd., mica; C5—0.1 mfd., 400 v.; C6—0.1 mfd.; C7—0.001 mfd.

COILS. ETC.

L1—Filter choke; L2, L3, L4, L5—R.F. chokes.



2A6, Detector and A.F. Amplifier: Plate, 145 v.; cathode, 1.2 v. Plate current, 0.3 mA.

2A5, Output Pentode: Plate, 225 v.; screen, 235 v.; grid, 18 v. Cathode current, 28 mA.

80, Rectifier: A.C. volts per plate, 350 v.; output voltage from filament, 380 v.

Readings taken with gang at maximum capacity.