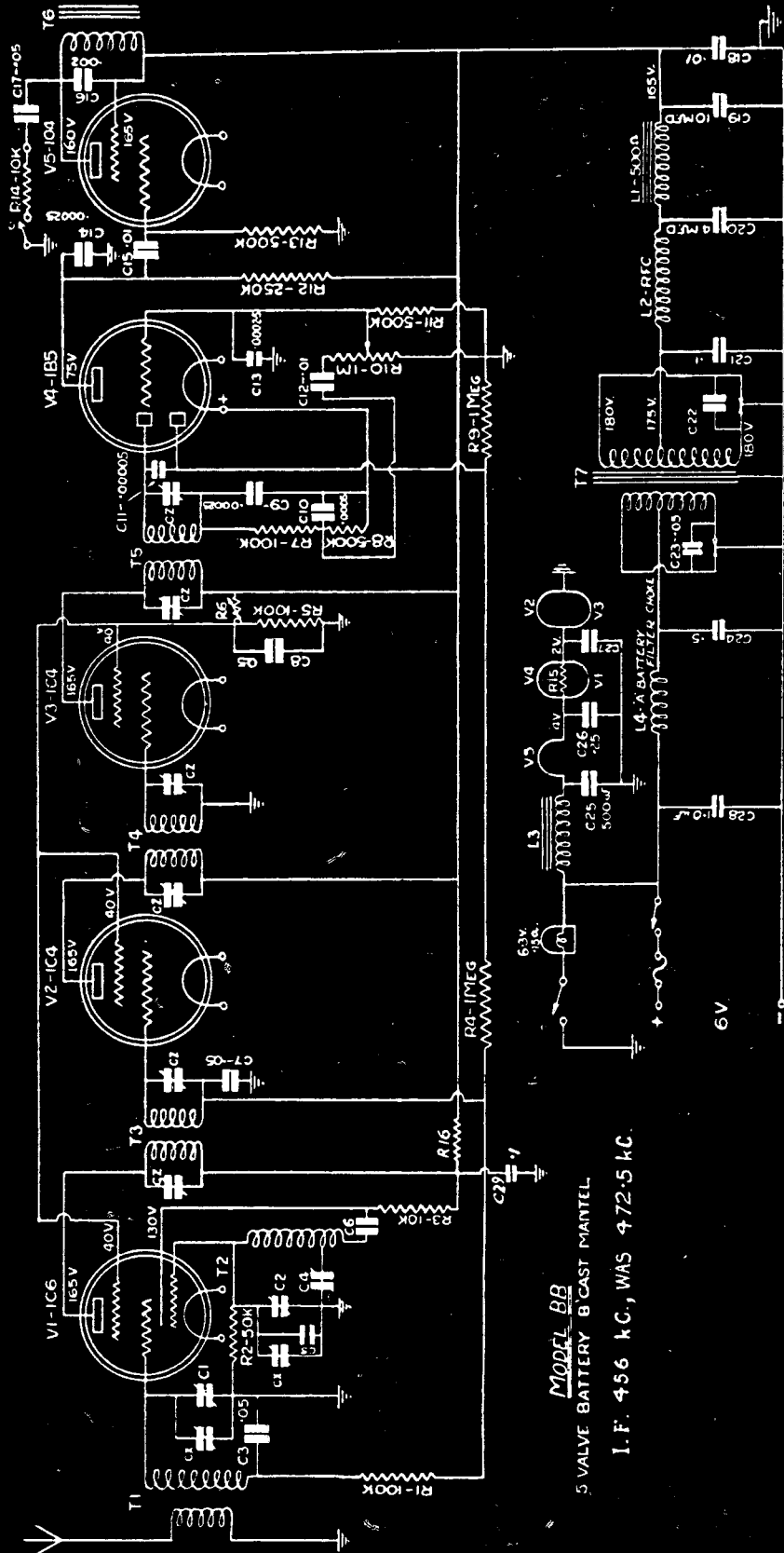


"Astor" Vibrator Powered Broadcast Mantel Model 77



MODEL BB
5 VALVE BATTERY B CAST MANTEL
I.F. 472.5 kc, WAS 472.5 kc.

COMPONENT VALUES.

RESISTORS.

R1, R5, R7—100,000 ohms, $\frac{1}{2}$ W.; R2—50,000 ohms, $\frac{1}{2}$ W.; R3, R14—10,000 ohms, $\frac{1}{2}$ W.; R4, R9—1 megohm, $\frac{1}{2}$ W.; R6 (PR102)—100,000 ohms, $\frac{1}{2}$ W.; R7, R10 (PR126)—1 megohm, volume control; R12—250,000 ohms, $\frac{1}{2}$ W.; R15 (PR160)—30 ohms, w.w., 5%; R16—2,000 ohms.

COILS, ETC.

T1 (PT102)—aer. coll.; T2 (PT104)—osc. coll.; T3 (PT105)—1st I.F. trans., 456 kc.; T4 (PT106)—2nd I.F. trans., 456 kc.; T5 (PT107)—3rd I.F. trans., 456 kc.; T6—15,000 ohms, loudspeaker trans.; T7 (PT115)—power trans.; L1 (PT108)—500 ohms, filter choke; L2 (PT109)—R.F. choke; L3 (PT112)—low resistance filament choke; L4 (PT111)—special air-core filter choke.

CONDENSERS.

C1, C2 (PC167)—sections of 2-gang variable; C3, C7, C23—0.05 mfd., 400 v., paper; C4 (PC148)—150/500 mmfd., padder; C5 (PC166)—20 mmfd., fixed osc. gang shunt; C6—800 mmfd., mica; C8—0.5 mfd., 400 v., paper; C9, C14—250 mmfd., mica; C10—500 mmfd., mica; C11—50 mmfd., mica; C15, C18—0.01 mfd., 400 v., paper; C16—0.002 mfd., 400 v., paper; C17—0.05 mfd., 600 v., paper; C19—10 mfd., 200 v., W, electro.; C20 (PC116)—4 mfd., 300 v., W, electro.; C21, C29—0.1 mfd., 400 v., paper; C22—0.003 mfd., 2,000 v., mica; C24 (PC118)—0.5 mfd., 200 v., metal clad; C25 (PC120)—500 mfd., 6 v., electro.; C26—0.25 mfd., 200 v., paper; C27—0.5 mfd., 200 v., paper; C28—1 mfd., 200 v., paper; C29—1 mfd., 200 v., paper; CX—Condenser trimmers.

SUNDRIES.

Dial Lamp—PM127, 6.3 v., 0.15A.; Fuse—PM111, 10A.; Single Contact 3-Position Tone Control Switch—PM120; 5-Pin 6 v., Synchronous Vibrator—PM104.

ALTERATIONS.

In earlier models of this series it will be found that R16 (2,000 ohms) and C29 (0.1 mfd.) are not present. These were added as from 18/1/38 in order to stabilize the receiver. It will also be noted that the intermediate frequency has been changed from 472.5 kc to 456 kc. This change was made on 3/3/38, and if any doubt exists as to the date of particular receiver in hand, a preliminary check on the I.F. should be made and alignment effected at whichever of the two frequencies given is nearest to the point found by this test.

ASTOR "77"
Chassis "BB"

Veneered Mantel, uses 6-inch, permag. loudspeaker.