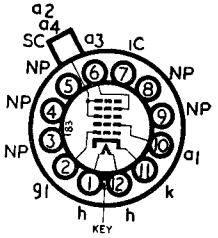
Replacement Type

TYPE C17JM

B12A (DUODECAL) BASE



Rectangular Wide Angle Deflection, Electrostatic Focus Teletube, with Ion trap, aluminized screen and external conductive coating.

RATINGS

Heater Voltage	6.3 volts
Heater Current	0.6 amp.
Final Anode Voltage (V_{a2+4})	17.5 kV absolute max.
Final Anode Voltage (V_{a2+4})	12 kV min.
Focus Anode Voltage (V_{a3})	—500 volts max. + 1,000 volts max.
First Anode Voltage (V_{a1})	410 volts max. 200 volts min.
Beam Current	250 μA max.
Grid Voltage	—2 volts max.
Peak Heater to Cathode Potential	150 volts max.
Peak Heater to Cathode Potential†	380 volts max.
Diagonal Deflection Angle	70 degrees approx.

† *Heater negative with respect to cathode and only during warm-up period not exceeding 15 secs.*

OPERATING CHARACTERISTICS

Final Anode Voltage	14 kV
Focus Anode Voltage	—64 volts to + 350 volts
First Anode Voltage	300 volts
Peak to Peak Modulation for beam current of 150 μA	30 volts
Grid Voltage Limits for spot cut-off	—33 to —77 volts
Scanning Power for coil of mean length $2\frac{1}{4}$"	25 ampere turns/inch approx.
Field Strength of Ion-Trap Magnet*	63 gauss

* *Suitable magnet is the IT9 supplied by Messrs. ELAC Ltd.*
Note.—Picture shifting devices should operate in space on neck within 3 inches of the reference line.

INTER-ELECTRODE CAPACITANCES

Grid to all	9.0 pF max.
Cathode to all	6.0 pF max.
Final Anode to external coating	1,500 pF max.

DIMENSIONS

Dimensions are the same as the C17BM, except that the overall length is $\frac{11}{16}$" less.

NOTE: Tubes having a tinted faceplate will have a recessed type anode side-cap, type CT8.

ADJUSTMENT OF ION-TRAP MAGNET

The magnet should be located on the neck with the arrow pointing towards the screen along the line marked on the neck, and between the top of the base shell and the line marked parallel to it. With an unmodulated raster the magnet should be slid up the neck to give the brightest picture. It may be necessary to re-adjust the focus during this operation and after doing so the magnet setting should again be adjusted for optimum brightness. It is important to set the ion-trap magnet correctly, as incorrect positioning may lead to premature failure of the tube.