

FERRANTI RADAR TUBES

16in. diameter Radar Display Tubes with metal backed screens
magnetic deflection and Low Voltage Electrostatic focus.

FOCUS	Low Voltage. Electrostatic.
DEFLECTION	Magnetic.
SCREEN.		
		16/03HB 16/03JB.
Phosphor	Type 'H'* Type 'J'
Fluorescence	Orange Blue.
Afterglow	Orange Yellow.
Persistence	Very long long.

For further details, refer to the relevant phosphor characteristics at the front of this section of the handbook.

PHYSICAL DETAILS.

Base	B12A (Duodecal).
Anode Cap	CT8 Cavity Type.
Max. Overall Length	485 mm.

For other dimensions, see drawing.

Mounting Position	Any except vertical screen down.
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Both types have an external conductive coating which can be used for E.H.T. smoothing.

BASE CONNECTIONS.

Pin 1—Heater.	Pin 7—No Connection.
Pin 2—Grid.	Pin 8—No Pin.
Pin 3—No Pin.	Pin 9—No Pin.
Pin 4—No Pin.	Pin 10—1st Anode.
Pin 5—No Pin.	Pin 11—Cathode.
Pin 6—3rd Anode.	Pin 12—Heater.
Side Contact—2nd Anode + 4th Anode.	

HEATER.

*Heater Voltage	6.3 volts.
Heater Current	0.3 amp.

RATINGS.

Max. A ₁ Voltage	500 volts.
Max. A ₂ + A ₄ Voltage	15 kV.
Max. Pos. A ₃ Voltage	+500 volts.
Max. Neg. A ₃ Voltage	-500 volts.
Min. A ₁ Voltage	200 volts.
Min. A ₂ + A ₄ Voltage	8 kV.
Max. V _{h-k}	200 volts.
Max. R _{g-k}	1.5 MΩ
Max. R _{h-k}	1.0 MΩ

TYPICAL OPERATION.

Heater Voltage	6.3 volts.
1st Anode Voltage	300 volts.
2nd + 4th Anode Voltage	12 kV.
3rd Anode Voltage for focus	-300 to + 300 volts.
†V _g for visual cut off	-30 to -90 volts.

CAPACITANCES.

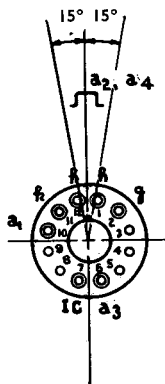
C _{k-all}	<8 pF.
C _{g-all}	<8 pF.
C _{a-ext. coating}	1500 pF. approx.

*The screen material of Type 16/03HB is liable to burn if operated with a stationary or slow moving spot, even at low values of beam current.

†The modulator should never be positive with respect to the cathode, except during the period immediately after switching off, when it may be allowed to rise to + 1 volt.

16/03HB

16/03 JB



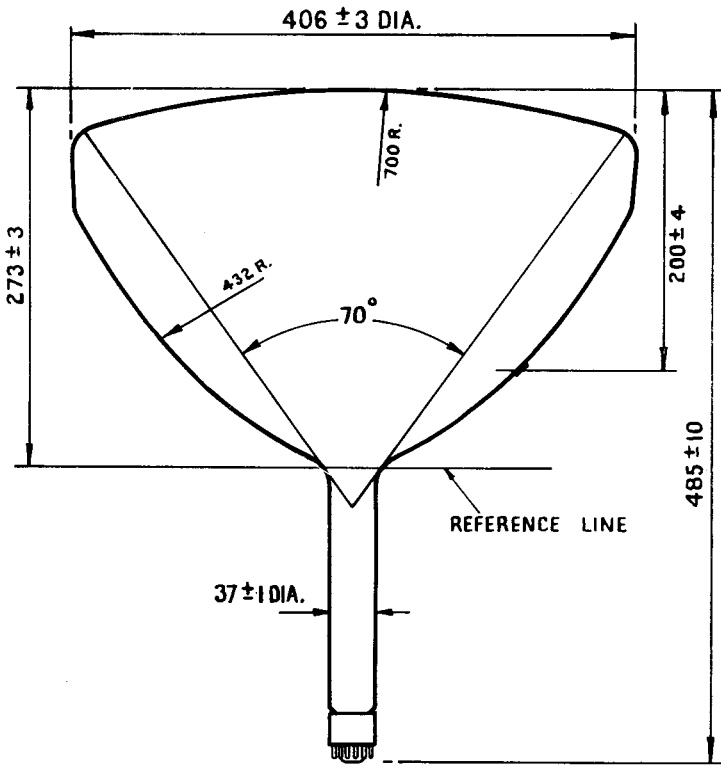
**Base
Connections
Underside View
of Base**





16/03HB

16/03 JB



ALL DIMENSIONS ARE IN MILLIMETRES