MAZDA

30.C.2

CATHODE RAY TUBE - ALL ELECTROSTATIC. $5\frac{1}{2}$ " Dia. Indirectly heated - for measurement purposes.

RATING		
Heater Voltage (volts) Heater Current (amps) Maximum 1st Anode Voltage (volts) Maximum 2nd Anode Voltage (volts) Maximum 3rd Anode Voltage (volts) Maximum 3rd Anode Voltage (volts) Va2(me Average Sensitivity of "X" Plates (mm/V)	ix)	4.0 0.72 2,500 1,000 6,000 600/V
 Where "V" denotes the voltage on the Anode and bulb coating. 	3rd	
INTER-ELECTRODE CAPACITANCES		
Xl Deflecting Plate/All other electrodes (µµF) XZ Deflecting Plate/All other electrodes (µµF) Yl Deflecting Plate/All other electrodes (µµF) YZ Deflecting Plate/All other electrodes (µµF) Xl Deflecting Plate/Yl Deflecting Plate (µµF) Xl Deflecting Plate/Yl Deflecting Plate (µµF) XZ Deflecting Plate/Yl Deflecting Plate (µµF) XZ Deflecting Plate/Yl Deflecting Plate (µµF) Control Grid (Wehnelt)/all other electrodes (µµF)	Cx1,all Cx2,all Cy1,all Cy2,all Cx1,yl Cx1,y2 Cx2,yl Cx2,y2 Cg,all	15.0 15.0 14.5 14.5 1.5 1.0 1.25
DIMENSIONS .		
Maximum Overall Length (mm)		430
Maximum Diameter (mm)		140
Nominal Screen Diameter (inches)		5 è
Approximate Nett Weight (ozs)		30
Approximate Packed Weight (1bs)		112

NOTES

30 C 7

For general measurement work the 30.C.2/Pl is recommended. This has a screen with a medium persistence green phosphor. For special applications, however, the tube may be supplied with any of the standard phosphors described on the Introductory Page to this Section.

Final Anode and Bulb coating are brought out separately in order to enable a finer spot or a high writing speed to be obtained by increasing the Final Anode Voltage above the limit set for the lst Anode Voltage.

In use the 3rd Anode and Bulb coating are normally joined.

September 1948

RADIO DIVISION

Issue 2/3

MAZDA

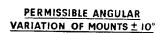
30.C.2

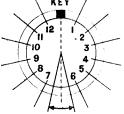
CATHODE RAY TUBE - ALL ELECTROSTATIC. 5½" Dia. Indirectly heated - for measurement purposes.

TYPICAL OPERATION			
3rd Anode Voltage (volts)	Vas	2,000	5,000
2nd Anode Voltage - approximate, for focus (volts)	V _{a2}	440	800
lst Anode Voltage (volts) Average Bias on Control Grid	Val	2,000	2,000
for Cut-off of Beam Current (volts) Average Working Bias for	$V_{\mathbf{g}}$	-60	-60
20µA Beam (volts) Approximate Sensitivity of		-33	-33
"X" Plates (mm/V)		0.30	0.12
Approximate Sensitivity of "Y" Plates (mm/V)		0.57	0.23

BASE Special 12 Contact Key Base (BS448)

VIEW OF FREE END





CONNEXIONS

Pin 1

	1 111 1	Control Grid
	Pin 2	Cathode
	Pin 3	Heater
	Pin 4	Heater
	Pin 2 Pin 3 Pin 4 Fin 5 Pin 6 Pin 7	Anode 1
	Pin 6	Anode 2
ı	Pin 7	Internal Coating
	Pin 8	Deflecting Plate Y2
	Pin 9 Pin 10	Deflecting Plate X2
		Anode 3
	Pin 11	Deflecting Plate X1
	Pin 12	Deflecting Plate Y1

September 1948

RADIO DIVISION

Issue 2/3

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xl yl

30.C.3