

908:A

OSCILLOGRAPH TUBE

Supersedes Type 908

General:	
DJ1 to All Other Electrodes 8.5 DJ3 to All Other Electrodes 6.5 Phosphor (For Curves, see front of this Section) No	μμf μμf lue tic /8" /4" /4" /7CE
DJ_3 and DJ_4 are nearer the base	
With DJ ₂ positive with respect to DJ ₁ , the spot is deflected toward pin I. With DJ ₄ positive with respect to DJ ₃ , the spot is deflected toward pin 6.	
The angle between the trace produced by DJ3 and DJ4 and its intersection with the plane through the tube axis and pin 6 does not exceed 10° .	
The angle between the trace produced by DJ $_3$ and DJ $_4$ and the trace produced by DJ $_1$ and DJ $_2$ is 900 \pm 30.	
Maximum Ratings, Design-Center Values:	
ANODE-No.2 & GRID No.2 VOLTAGE 1500 max. vol ANODE-No.1 VOLTAGE	ts ts





OSCILLOGRAPH TUBE (continued from preceding page)

Typical Operation:
Anode No.2 & Grid No.2 Voltage* 1000 1500 volts Anode No.1 Voltage for Focus at 75% of Grid-No.1 Volt-
age for Cutoff volts Grid-No.1 Volt. for Visual Cutoff33 -50 volts Màx. Anode-No.1 Current Range. Between -50 and +10 µamp. Deflection Sensitivity:
DJ1 and DJ2 0.334 0.223 mm/v dc DJ3 and DJ4 0.348 0.233 mm/v dc Deflection Factor:**
DJ1 and DJ2
* Brilliance and definition decrease with decreasing anode-No.2 voltage. In general, anode-No.2 voltage should not be less than 1000 volts. Individual tubes may require between *29\formalf and -44\formalf of the values shown with grid-No.1 voltages between zero and cutoff. I visual extinction of stationary focused spot. Supply should be adjustable to £ 50\formalf of these values. See curve for average values. Individual tubes may vary from these values by £ 20\formalf.
Spot Position:
The undeflected focused spot will fall within a 15-mm square centered at the geometric center of the tube face and having one side parallel to the trace produced by DJ $_{\rm I}$ and DJ $_{\rm 2}$. Suitable test conditions are: anode-No.2 voltage, 1500 volts; anode-No.1 voltage, adjusted for focus; deflecting-electrode resistors, I megohm each for DJ $_{\rm I}$ and DJ $_{\rm 3}$, connected to anode No.2; the tube shielded from all extraneous fields. To avoid damage to the tube, grid-No.1 voltage should be near cutoff before application of anode voltages.
Maximum Circuit Values:
0.31 8.4 03 1. 0 1

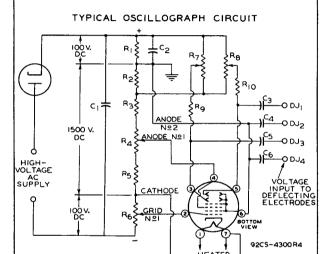
Grid-No.1 Circuit Resistance 1.5 max. Impedance of Any Deflecting-Electrode
Circuit at Heater-Supply Frequency 1.0 max. 1.5 max. megohms megohm Resistance in Any Deflecting-Electrode Circuit♣♠ 5.0 max. megohms

f AA It is recommended that both deflecting-electrode-circuit resistances be approximately equal.



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- C1: 0.1 µf C2: 1.0 µf C3 C4 C5 C6: 0.05-µf Blocking Capacitors*
- R1 R2: 1.5 Megohms R3: 4 Megohms

R4: 2-Megohm Potentiometer R5: 1.0 Megohm R6: 0.5-Megohm Potentiometer R7 R8: Dual 3-Megohm Potentiometer R9 R10: 2-Megohms

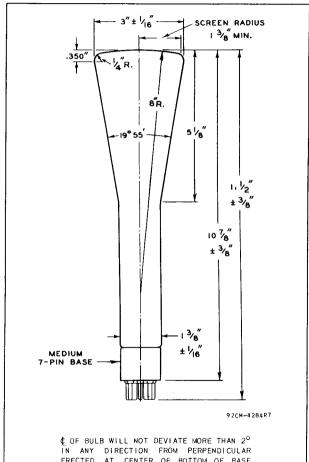
When cathode is grounded, capacitors should have high voltage rating; when anode No.2 is grounded, they may have low voltage rating. For dc amplifier service, deflecting electrodes should be connected direct to amplifier output. In this service, it is preferable usually to remove deflecting-electrode resistors to minimize loading effect on amplifier. In order to minimize spot defocusing, it is essential that anode No.2 be returned to a point in the amplifier system which will give the lowest possible potential difference between anode No.2 and the deflecting electrodes.

The license extended to the purchaser of tubes appears in the License Notice accompanying them. Information contained herein is furnished without assuming any obligations.





OSCILLOGRAPH TUBE



ERECTED AT CENTER OF BOTTOM OF BASE

JUNE 20, 1946

CE-4284R7 **JUBE DIVISION**



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AVERAGE CHARACTERISTICS

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⊥ F a = 6 3 V∩ITS ±				
E _f =6.3 VOLTS	1 - 1 1 1 1 1 1	1112111111		1 T
ANODE NOI VOL	IS ADJ	USTED TO) GIVE	FOCUS ::

	CURVE	ELECTRODE CURRENT	ANODE Nº2 & GRID Nº2 VOLTS			1	į		
Ħ	Α	ANODE Nº I	1500	H	-	H	7	1	
Ħ	8	ANODE Nº I	1000		Ī	Ξ		Ŧ	
	С	ANODE Nº 2 & GRID Nº 2	1500		ŀ	Ė		Ī	
Ĭ	D	ANODE Nº 2 & GRID Nº 2	1000			Ī	Ħ	ŧ	

