

June 15, 1944

CATHODE-RAY TUBE

Type 9GP7

PHYSICAL CHARACTERISTICS

Focusing Method			Magnetic
Deflecting Method			Magnetic
Maximum Solid Deflecting Angle			55°
Phosphor			P7
Direct Electrode Capacitances			
	<u>Min</u>	<u>Max</u>	
Cathode to all other electrodes	6	11	uuf
Grid No. 1 to all other electrodes	3	10	uuf
Grid No. 2 to all other electrodes	3	12	uuf
Overall Length	17 ± 1 Inches		
Greatest Diameter of Bulb	9 ± 1/8 Inches		
Minimum Useable Screen Diameter	7 3/4 Inches		
Base	Octal-8-Pin, Sleeve		
Basing	RMA Designation - 5 AN		
Bulb Contact	Medium Metal ICap		
Spot Center	20 mm Radius		

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

	<u>Typical Operation</u>		<u>Maximum Ratings</u>	
Heater Voltage §, a-c		6.3		Volts
Heater Current		0.6		Amp
High Voltage Electrode	4000	7000	7700	Volts
Grid No. 1 (Control Electrode) Voltage	-45*	-45 ± 50%*	Never Positive	
Grid No. 2 (Accelerating Electrode) Voltage	250	250	330	Volts
Grid No. 2 Current	100	100		ua
D-c Heater-Cathode Potential #			-125	Volts
Grid Circuit Resistance			1.5	Megohms

✧ The center of the undeflected unfocused spot will fall within a circle of given radius concentric with the tube face.

§ Heater voltage and heater current allowable variation ± 10%.

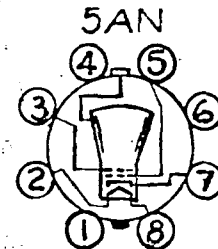
* Cutoff voltage which is necessary for visual extinction of a stationary focused spot.

With heater negative. Cathode should be connected to the midtap or to one side of heater supply.

Release No. 380
June 15, 1944

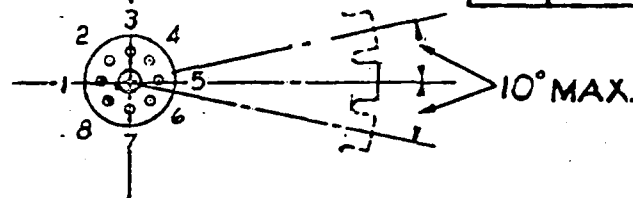
NOTE:

REFERENCE LINE IS DETERMINED BY A POINT WHERE GAUGE 1.430" $\pm$.003" DIA. AND 2" LONG WILL STOP AGAINST BULB BODY.



BASING DIAGRAM

PIN	CONNECTION
1	NO CONNECTION
2	HEATER
3	GRID #2
4	NO CONNECTION
5	GRID #1
6	NO CONNECTION
7	CATHODE
8	HEATER



OUTLINE
9GP7 CATHODE-RAY TUBE