

**CHARACTERISTICS**

**GENERAL DATA**

Focusing Method . . . . .			Electrostatic
Deflection Method . . . . .			Electrostatic
Types*	Fluorescence	Phosphorescence	Persistence
3ASP1	Green	.....	Medium
3ASP2	Blue-Green	Green	Long
3ASP11	Blue	.....	Short
Faceplate . . . . .			Flat, Clear

\*In addition to the types shown, the 3ASP- can be supplied with several other screen phosphors.

**ELECTRICAL DATA**

Heater Voltage . . . . .	6.3 Volts
Heater Current . . . . .	0.6 ± 10% Ampere
Direct Interelectrode Capacitances (approx.)	
Grid No. 1 to All Other Electrodes . . . . .	4.5 μmf
Between Deflection Plates 1-2 . . . . .	2.0 μmf
Between Deflection Plates 3-4 . . . . .	2.5 μmf
Deflection Plate 1 to All Other Electrodes . . . . .	6.5 μmf
Deflection Plate 2 to All Other Electrodes . . . . .	6.0 μmf
Deflection Plate 3 to All Other Electrodes . . . . .	5.5 μmf
Deflection Plate 4 to All Other Electrodes . . . . .	5.5 μmf

**MECHANICAL DATA**

Minimum Useful Screen Dimensions	
Horizontal . . . . .	2 3/4 Inches
Vertical . . . . .	1 1/8 Inches
Bulb . . . . .	LEA 448 or Equiv.
Base . . . . .	B8-218
Basing . . . . .	8KF
Anode No. 2 Contact . . . . .	J1-22

**Base Alignment**

Pin #3 aligns with major axis of tube face within 10°, and is on same side as anode contact (J1-22)

**Trace Alignment**

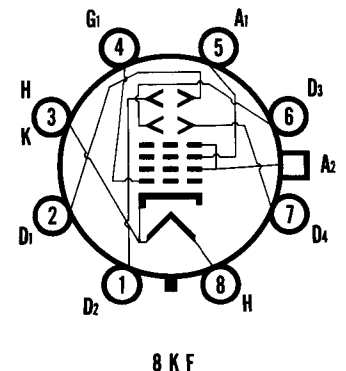
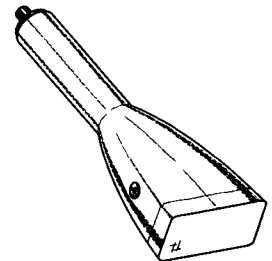
- Positive Voltage on D1 (Pin #2) with respect to D2, (Pin #1) defects spot approximately toward Pin #3.
- Positive Voltage on D3 (Pin #6) with respect to D4, (Pin #7) defects spot approximately toward Pin #5.
- Angle between D1-D2 and D3-D4 traces . . . . . 90 ± 1 Degree
- Angle between D1-D2 and major axis of tube face . . . . . 0 ± 1 1/2 Degrees

**Deflection Plates**

- D1 and D2 are nearer to the tube face
- D3 and D4 are nearer the base

**QUICK REFERENCE DATA**

- 1 1/2" x 3" Direct Viewed
- Rectangular Glass Type
- Clear, Pressed Faceplate
- Electrostatic Deflection
- Electrostatic Focus
- High Deflection
- Sensitivity



**SYLVANIA  
ELECTRONIC TUBES**

A Division of  
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**PICTURE TUBE OPERATIONS  
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File Under  
SPECIAL AND GENERAL PURPOSE  
CATHODE RAY TUBES

**RATINGS**

**MAXIMUM RATINGS (Absolute Maximum Values)**

Anode No. 2 Voltage . . . . .	3000 Volts	dc
Anode No. 2 Input . . . . .	6.0 Watts	
Anode No. 1 Voltage (Focusing Electrode) . . . . .	1200 Volts	dc
Grid No. 1 Voltage		
Negative Bias Value . . . . .	140 Volts	dc
Positive Bias Value . . . . .	0 Volts	dc
Positive Peak Value . . . . .	2 Volts	
Peak Voltage between Anode No. 2 and Any		
Deflection Plate . . . . .	600 Volts	
Altitude . . . . .	35,000 Feet	

**TYPICAL OPERATING CONDITIONS**

Anode No. 2 Voltage . . . . .	2000 Volts	dc
Anode No. 1 Voltage for Focus . . . . .	400 to 700 Volts	dc
Grid No. 1 Voltage Required for Cutoff <sup>1</sup> . . . . .	-40 to -70 Volts	dc
Deflection Factors		
Deflection Plates 1-2 . . . . .	68 to 92 Volts	dc/Inch
Deflection Plates 3-4 . . . . .	28 to 38 Volts	dc/Inch
Spot Position (Undelected, Focused) <sup>2</sup> . . . . .	Within a 15 mm Square	
P1 Light Output <sup>4</sup> . . . . .	20 Ft. L.	Min.
Modulation <sup>5</sup> . . . . .	38 Volts	dc Max.
Line Width A <sup>6</sup> . . . . .	0.65 mm	Max.

**CIRCUIT VALUES**

Grid No. 1 Circuit Resistance . . . . .	1.5 Megohms Max.
Deflection Circuit Resistance <sup>3</sup> . . . . .	1.0 Megohms Max.

**NOTES:**

1. Visual extinction of undeflected focused spot.
2. With the tube shielded and with the deflection plates connected to Anode No. 2, the square shall be centered on the tube face with its sides parallel to the deflection axis.
3. It is recommended that the deflecting electrode circuit resistances be approximately equal.
4. Raster size 1 1/8" x 1 9/16".
5. Measured at 20 Ft. L. on a raster 1 1/8" x 1 9/16".
6. Measured by compressed raster method starting with conditions of Note 5.

OUTLINE

