

16BUP4
CATHODE RAY TUBE

16 INCH, RECTANGULAR, GLASS	FACE PLATE -- SPHERICAL GRAY
FOCUS -- ELECTROSTATIC	INTEGRAL PLASTIC IMPLOSION BARRIER
DEFLECTION -- MAGNETIC	ALUMINIZED SCREEN
114 DEGREE DEFLECTION	EXTERNAL CONDUCTIVE COATING

-----DESCRIPTION AND RATING-----

The 16BUP4 is a 16 inch electrostatic focus and magnetic deflection glass light-weight picture tube employing an integral plastic implosion barrier. Other outstanding features include a short over-all length, a small neck diameter and a non-ion-trap gun designed for operation at an intermediate Grid No. 2 voltage for use in cathode-drive circuits. The fluorescent screen is aluminized to increase light output and reduce undesirable screen charging. An external conductive coating is provided to serve as a filter capacitor when grounded.

ELECTRICAL DATA

Focusing Method	Electrostatic
Deflection Angle, Approximate	
Horizontal	102 degrees
Vertical	84 degrees
Diagonal	114 degrees
Direct Interelectrode Capacitance	
Cathode to all other electrodes, approx.	5 uuf
Grid #1 to all other electrodes, approx.	6 uuf
External Conductive Coating to Anode	1500 max. uuf 1000 min. uuf
Heater Current at 6.3 volts	450 ± 23 ma.
Heater Warm-up time	11 sec.

OPTICAL DATA

Phosphor Number	P4 Aluminized
Light transmittance at center (Approximate)	48 Percent

CATHODE RAY TUBE DEPARTMENT

GENERAL  ELECTRIC

Syracuse, N. Y.

MAXIMUM CIRCUIT VALUES

Maximum Grid #1 Circuit Resistance 1.5 max. megohm
Grid #2 Circuit Resistance 0.1 min. megohm
Focusing Electrode Circuit Resistance 0.1 min. megohm

Protective resistance in Grid No. 2 and focusing electrical circuits is advisable to prevent damage to tube. If applicable, one resistor common to both circuits may be used.

NOTES:

1. Visual extinction of focused raster.
2. With the combined Grid #1 bias voltage and video-signal voltage adjusted to give an anode current of 150 ua on a 12-15/16" x 10-1/4" pattern from RCA 2F21 monoscope or equivalent.
3. Individual tubes will have satisfactory focus at 0 volts.

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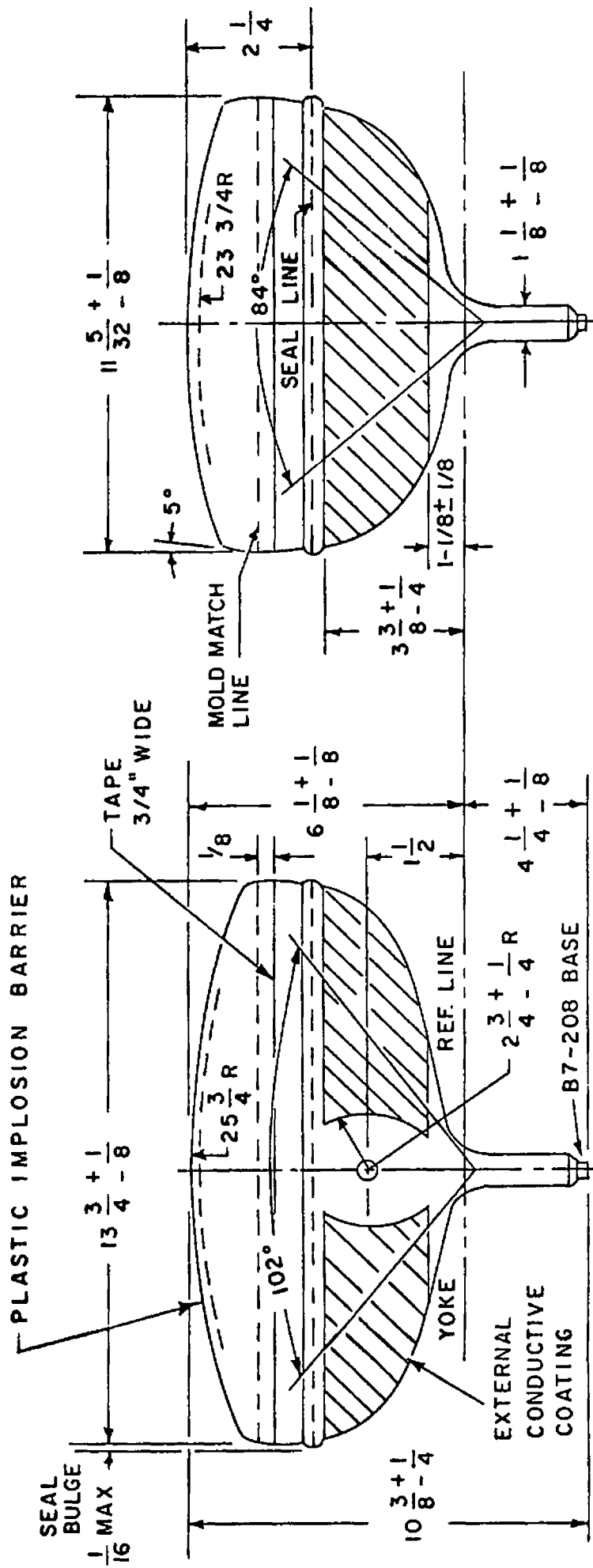
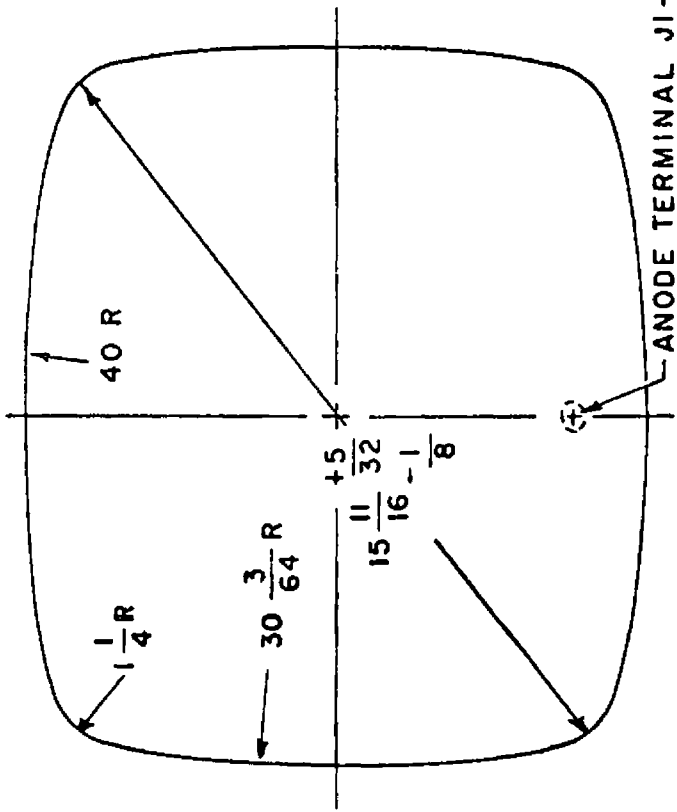
SCREEN DIMENSIONS

DIAGONAL — 14 7/8

WIDTH — 12 15/16

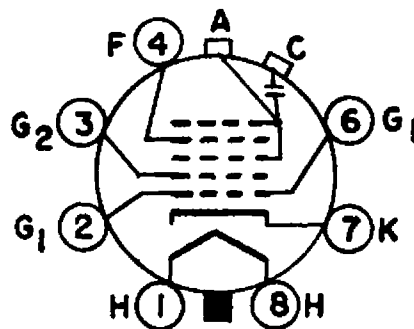
HEIGHT — 10 1/4

AREA — 125 SQ. IN.



OUTLINE NOTES

1. The reference line is determined by the intersection of the plane C-C of gage (EIA No. 126) with the glass funnel.
2. Deflection angle on the diagonal is 114°
3. Anode terminal aligns with pin no. 4 ± 30 degrees.
4. Use a non-rigidly mounted socket with flexible leads. Bottom circumference of base wafer will fall within 1-3/4 inch diameter circle concentric with the bulb axis.



**BASING DIAGRAM
8 HR**