Amendment No. 1 to specification CV2352 - Issue 3 - dated July, 1956

Page 5.

Amend radius of screen curvature on the "Y" axis (short axis) to read 450 ± 100 mm instead of 600 ± 50mm radius.

Amend overall bulb height to read 66 \pm 2mm instead of 66 \pm 1.5mm.

July, 1957.

T.V.C. for R.R.E.

N.88393R.

Specification MOS/CV2352 Issue 3	SECURITY		
Dated: - February 1956.	Specification	Valve	
To be read in conjunction with K1001	Unclassified	Unclassified	

Indicates a change

TYPE OF VALVE: -	Cathode Ray		:	MARKING	
TYPE OF DEFLECTION:		lectrostatic ymmetrical or		See K1001/4	
	Asymmetrica		BASE		
TYPE OF FOCUS: -	Electrostat	ic		B14A.	
BULB: -	Glass. Int			See B.S.448: 1953	
	nally coate			CONNECTIONS	
,	coating.	0740	Pin	Electrode	
SCREEN: -	GG4		1	h	
PROTOTYPE: -	PROTOTYPE: - VCRX 390 RATING		2 3	k g	
RATING			4 5	a2 No connection	
Heater voltage	(<u>v</u>)	6.3	6	Internal coating	
Heater current Max. Va1	(A) (kV)	0.3 2.5	7 8	y1 y2 a3	
Max. Va2	(kV)	1.1	9 10		
Max. Va3 Sensitivity, x plat	(kV) es (mm/V)	6.0 925	11	x 2 x 1	
bonstorvioy, a prac		Va3	12	No connection	
Sensitivity, y plat	es (mm/V)	1000 Va3	13 14	a ₁ h	
		143			
TYPICAL OPERATING CONDITIONS				<u>DIMENSIONS</u>	
Va1 (kV) Va2 (kV)		1.8 0.65	See drawing, page 5		
Va3	$\langle k \Lambda \rangle$	5.0	1		
					

NOTES

A. For optimum focus quality the potential between the internal conductive coating and as must not exceed 10 volts.

To be performed in addition to those applicable in K1001

18	Test Conditions	Test	Lin	No.	
	Test Conditions	1650	Min.	Max.	Tested
-	See K1001/5A-13	Capacitances (pF) 1. Each x plate to all other electrodes		20	25 (5)
		2. Each y plate to all other electrodes	-	16	
		Grid to all other electrodes	-	10	
		4. Each x plate to each y plate	-	15	
		5. Cathode to all other electrodes	-	10	

FOR ALL TESTS GIVEN BELOW Vh = 6.3V

Ī	b		Ih	(A)	0.28	0.66	100%
Ī	c	Cathode 100 volts positive	Heater-cathode cur	rent			
		to heater		(uA)	-	100	100%

FOR ALL TESTS GIVEN BELOW Va1 = 1.8kV, Va3 = Vm = 5.0kV WITH ASYMMETRICAL X AND Y DEFLECTION VOLTAGES

1	_	WITH ASYMMETRICAL	A 1	AND I DIFFICULTO	IN ACTUE	CHAN		
	đ	With a raster scan of convenient size adjust Va2 for optimum overall focus and Vg for a light intensity of 0.06 candela measured through a Wratten 61N colour filter.	2.	X direction Y direction	(V) area. (mm) (mm) (uA)	1 125 35	200	100% 100% 100%
-	е	With an elliptical scan nominally 100 mm x 30 mm adjust Va2 for optimum focus and Vg as in (d).		Line width Va2	(Mm)	600	0•7 700	100% 100%
		Va2 as in (e) Adjust Vg for cut-off See K1001/5A.10.	2.	-Vg Increase in nevalue of Vg cowith value not test (d1) Within the ran Vg found in test to that in test the beam curreshall increase continuously	ompared ed in (V) age of est f.1 et d.1 ent	25 -	70 30	100% 100% 100%

Pa	ge 3 TESTS	G (Contd)	C۱	/2:	352
Clause	Test Conditions	Test	Lân Min.	its Max.	No. Tested
	See K1001/5A.3.2. (a) Vg -80V (b) Alternative method. Resistor 5MΩ	Grid Insulation (a) Leakage current (uA) (b) Increase in volt- meter reading	-	16 100%	100%
h	· · · · · · · · · · · · · · · · · · ·	Deflection Sensitivities 1. x plates (mm/V) 2. y plates (mm/V)	850 Va3	1000 Va3 1100 Va3	10% (10)
j	See K1001/5A-11-1-	Deviation of spot from centre of screen (mm)	_	7•5	100%
k		Orientation of Deflection Axes 1. Orientation of x axis of deflection relative to 00'	-2°	+2°	100%
		on drawing 2. Angle between x and y axes of deflection	88°	92°	100%
]1	A screen area of at least 100 mm x 30 mm to be scanned.	Trapezoidal Distortions 1. Angle between adjacent sides. 2. Angle between opposite sides	87 ⁰ 177 ⁰	93 ⁰ 183 ⁰	
m	With a defocussed raster scan to cover the useful screen (see test d.2), adjust Vg for any convenient light intensity. See Note 1.	Blemishes Bubbles and Dead Spots 0.25 to 0.6 mm. 0.6 to 1.0 mm. greater than 1.0 mm.		10 5 0	100%
n	Air Ministry Test Set 42 See K1001/11.5.	<u>Vibration</u>		,	T.A.
0	All conditions as in clause "e" but with the internal conductive coating + and - 10 volts with respect to a3	Line width (mm)		0.7	T.A.

NOTE

1. If two or more blemishes are separated by a distance not greater than the maximum dimension of the largest blemish in a group, then the group of blemishes shall be considered as one blemish of dimension equal to the maximum overall dimension of the group.

CV 2352

