Specification MOS/CV1536	SECURITY SECURITY			
Issue 2 dated:- December 1957.	<u>Yalve</u>			
To be read in conjunction with K1001 and B8.448	Unclassified	Unclessified		

- Indicates a change

TYPE OF VALVE:- TYPE OF DEPLECTION:-	TYPE OF VALVE:- Cathode Ray Tube TYPE OF DEFLECTION:- Electrostatic suitable for symmetrical deflections.			<u>NARKING</u> See K1001/4			
TYPE OF FOCUS:-	Electrostatic		BASE				
BULB:-	Glass, internally coated with conductive coating.		B 12 D See BS.hks.				
SCREEN:-	18,3,			CONNECTIONS			
ROTOTTPS:-	G.E.C. 1608ABA		PIM	ELECTRODE			
RATING		_	1	£			
Heater Voltage	(V)	4	2	k			
Heater Current	(A)	.1	3	h h			
Max. Final Amode Velts	ge (KY)	6	5	l -			
Hex. First Anode Volta	- -	2.2	6	8 ₁ 8 ₂			
I plate sensitivity	(ma/V)	620/143	7	internal coating			
Y plate sensitivity	(1881/V)	1200/Va3	ė	y ₂			
TYPICAL OPERATING CONE	ITIONS		9	3 2			
Final Anode Voltage	(kV)	3.5	10	a ₃			
Second Anode Voltage	(Y)	600	11	¥1			
First Anode Voltage	(kV)	2	12	7 1			
			DIMENSIONS				
			See Brawing Page 4				

NOTES

- A. The internal conductive coating may be connected with as to pin 10 of the base and pin 7 left blank.
- B. Looking at the screen with the tube positioned such that the base spigot is uppermost, a positive voltage applied to pin 11 shall deflect the spot to the left and a positive voltage applied to pin 12 shall deflect the spot upwards.

CVI536

To be performed in addition to those applicable in K1001

98	Test Conditions	Test	Limits		No.
Clause		1926	Min.	Max.	Tested
8	See K1001/5A-13	Capacitances (pf) 1. Each x plate to all other electrodes. 2. Each y plate to all other electrodes. 3. Grid to all other electrodes. 4. Each x plate to each		25 25 25	24(5) 24(5) 24(5)
		y plate.		3	2%(5)

100	b		Heater Current (A)	0.66	1.2	100%	
	FOR ALL TESTS GIVEN BELOW Vat = 2.0kV and Va3 = 3.5kV							
	C	Adjust Va2 for optime focus and Vg for cut-off. See K1001/5A.10.	<u>Grid Base</u> -Vg (٧)	39	85	100%	
C	d	With a raster scan of convenient size adjust va2 for optimum focus and vg for a light intensity of 0.05 acthochromatic candels.	Light Intensity and Grid Drive Change in Vg from that in test "o".	V)		13	100%	
The second section of the policy of the second section of the s	0	Vg as in test "d". Obtain one setting of Va2 for optimes spot size with the spot andeflected and with it deflected to the four corners of a square of 80 mm. side.		M)	450	0 . 6	100% 100%	
The Country and Section Section (Section Country and Legislation)	•	(i) Vg -85V. <u>QC</u> (ii) See K1001/5A. 3.2. Resister 10 megohms.	Grid Insulation (1) Leakage Current (u Gr (ii) Increase in Voltmeter reading.	A)		8•5 100%	100%	
>	S		•	m)	±60 ±52.5		100% 100%	

	Test Conditions	Test	Limits		No.
(2)	1057 70000111000	1496	Hin.	Hax.	Tested
h		Deflection Sensitivities 1. I plate (nm/V)	520 Va3	7 <u>20</u> ¥a3	19%(10)
		2. Y plate (m/V)	1050 Ye3	1350 Ya3	10%(10)
j	See K1001/5A.11.1	Deviation of spot from contre of screen (nm)		10	100%
k		Orientation of deflection Axes 1. Orientation of X axis of deflection relative to 0-01 on drawing	80°	100 ⁰	160%
		2. Angle between X and Y axes of deflection	88°	920	169%
. 1	See K1001/11.5.	<u>Vibration</u>			T.A.
78.	Tube to be subjected to the conditions of K1001/10.1. for 28 days.	There shall be no signs of blister of the coating.	laking	T.A.	

BRANING NOTES

- Y. The glass pinch cavity to be filled with Silicone Insulating Compound made by Midland Silicones Ltd., to Ministry of Supply Specification DTD 900/4298.
- 2. From the base to the point of maximum diameter the bulb is to be conted externally to prevent light falling on the back of the fluorescent acreen.

