

To be performed in addition to those applicable in K.1001

Test Conditions							Test	Limits		No. Tested	Note
	Vh (V)	Vg1 (V)	Va (V)	Vr (V)	Vg2 (V)	Io (mA)		Min.	Max.		
a	6.3	0	0	0	0	0	Ih (A)	0.27	0.33	100%	2
b	6.6	-200	235 to 245	225	150	-	Reverse Ig1 (μ A)	-	30	100%	
c	6.6	0	235 to 245	225	Ad-just	65	(i) Vg2 (V) (ii) Ig2 (mA)	80 -	200 7	100%	

Tests 'd', 'e' and 'f' to be carried out in the test circuit on page 3.

		Vg2 (V)	Ia + r (mA)	X (ins.)					
d	6.0	Adjust and record potentiometer position (P1)	24.5	0.030 ±.002	(i) Range of R to maintain oscillation (kΩ)	12.5	13.3	100%	
					(ii) Max. detector current within above range (mA)	0.2	-	100%	
		R initially adjusted between 12.5 and 13.5 kΩ for max. crystal current at Ia + r = 24.5 mA.				(iii) Frequency of oscillation (f1) (Mc/s)	-	1875	100%
e	6.0	Leave potentiometer at (P1)	-	0.350 ±.003	Range of R to maintain oscillation shall be at least 600 ohms within the limits 7.0 - 10.0 K ohms.	-	-	100%	
f	6.0	Leave potentiometer at (P1)	-	0.900 ±.005	(i) Range of R to maintain oscillation (kΩ)	2.4	3.0	100%	
					(ii) Max. detector current within the above range (mA)	1.5	-	100%	
					(iii) Frequency of oscillation (Mc/s)	3580 or 2 f1 which-ever is greater			

NOTES

- Tests 'd', 'e' and 'f' to be carried out with DC supply conditions as shown in figure 1 (Page 3), and in an approved tuning cavity fitted with an approved detector unit (an approved tuning cavity is given in MAP drawing BTR91428 and an approved crystal detector unit is given in MAP drawing DTR88502). The crystal output circuit is to be 1000 resistive inclusive of meter.

Dimension 'X' is from the inside surface of the valve end of the cavity to the most forward part of the plunger. (Fig. 2, Page 3).

- The valve normally has a 1,000 c/s heater supply.

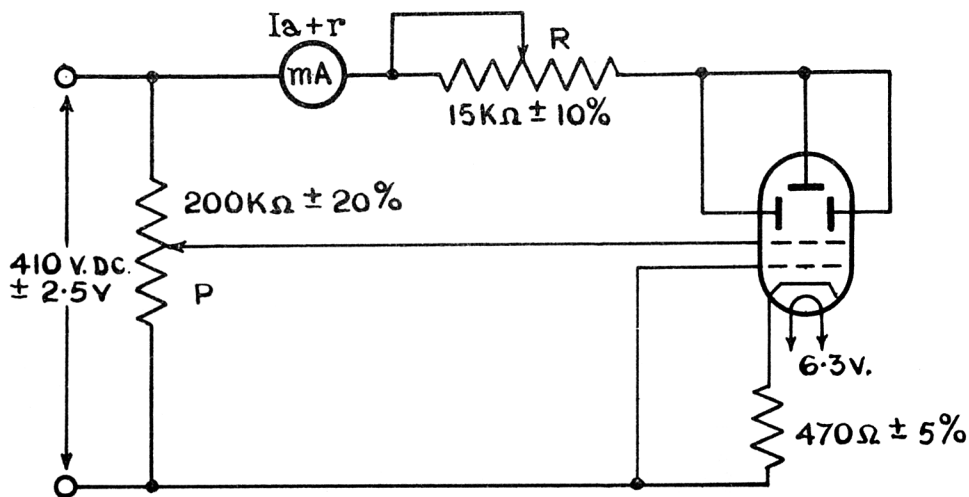


FIG.1

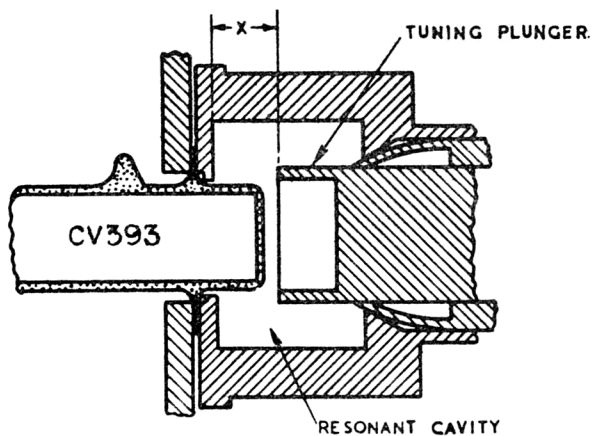


FIG.2

