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VALVE ELECTRONIC

CV341

ADMIRALTY SIGNAL AND RADAR ESTABLISHMENT

(Was CV151 Green)

Specification AD/CV341/Issue 2.	SECURITY		
Dated 28.11.49. To be read in conjunction with K1001	Specn.	<u>Valve</u>	
ignoring clauses: - 5.2, 5.8.	It was a second	UNCLASS IF IED	

CATHODE:- ENVELOPE:- PROTOTYPE:-	Hot Cathode, gas filled grid controlled triode. Directly heated. Glass. XGR3.			MARKING See K1001/4. Colour mark as in Fig.1.		
Vf Max. If Va Vg striking	(V) (mA) (V) (V)	1.4 220 135 -3.0 to	Note A B	DIMENSIONS & CONNECTIONS See Fig.1.		

NOTES

- A. Applied through 0.1 Megohms.
- B. Applied through 5 Megohms.
- C. Tests 'c', 'd', 'e'. (i) and (ii) are alternative tests.

 Either one may be used. In test (i) pure D.C. must be used.

 There must be no A.C. ripple. In Test (ii) the A.C.

 voltage must be sinusoidal.

CV341

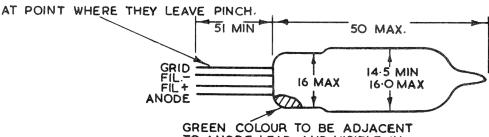
TESTS

All tests to take place after the valve has been struck six times in the circuit shewn in Fig. 2.

	Test Conditions		(S) 4	L	mits	No.	Note				
	Vf(V)		Test	Min	Max.	Tested	Note				
а	1.4	Va = Vg = 0	If (mA)	220	100%					
b	(Test in circuit Fig.2.) S2 closed. S1 open. Valve fired by opening S2.		Discharge test.	pas sec mus at	re must 35 mW onds: G read least ivisions	100%					
С	1.4	(i) Test in circuit Fig. 3. (ii) Test in circuit Fig. 4.	"Vg" for striking (i) (V DC) (ii) (V RMS)	-3.0 2.1		100%	С				
đ	Test 'c' repeated within 5 mins., change (+) in Vg for striking, from value in test 'c', observed.		Variation in "Vg" for striking. (i) (V DC) (ii) (V RMS)	-0	0.4 0.28	100%	С				
e	Test 'c' repeated. Change in Vg for striking, from value in test 'c' observed.		Change of *Vg with Vf (i) (V DC) (ii) (V RMS)	-	1.0 0.7	10%	С				
f	Valve operated with Va = 135 V. through 0.1 Megohm Vf = 1.1 V. on for 60 seconds and off for 3 minutes successively. Va applied throughout, Vg set for non-striking. On/off cycle repeated at least 1000 times.		Life Test	pass 'a' 'c' and	e at of	0.5% (5)					

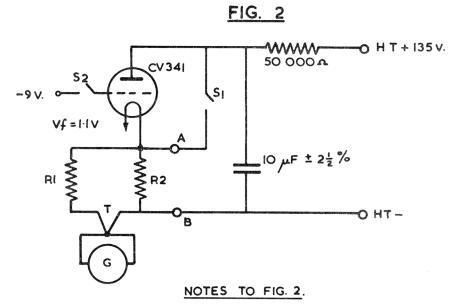
FIG. I

DEADS TO BE TINNED WITHIN 12.5 mm OF THE PINCH AND MUST BE NOT LESS THAN 1 mm APART BETWEEN CENTRES



GREEN COLOUR TO BE ADJACENT TO ANODE LEAD AND VISIBLE IN DIRECTION OF ARROW.

NOTE:- ALL DIMENSIONS IN MILLIMETRES.

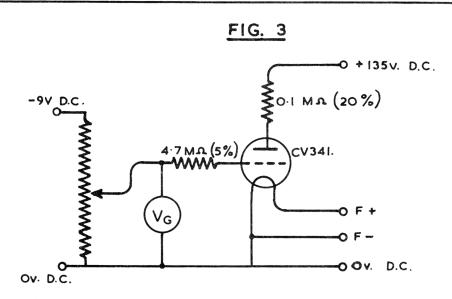


T: THERMOCOUPLE

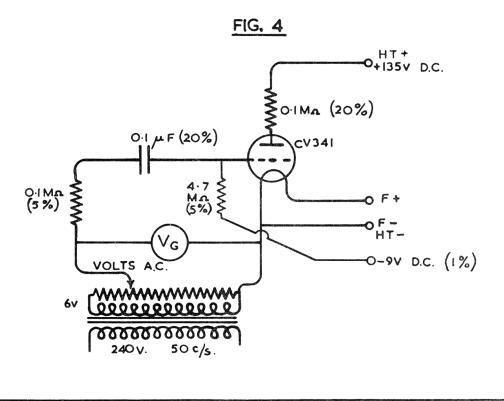
G: GALVANOMETER, CALIBRATED SO THAT A DEFLECTION OF 40 DIVISIONS IS GIVEN BY DISCHARGE OF IOMF CONDENSER ON CLOSING SWITCH SI.

52: THIS SWITCH REMOVES GRID BIAS AND FIRES THE CV341.

RI & R2 ARE SUCH THAT THE RESISTANCE BETWEEN A & B WITH SI. OPEN IS 3 ± 2 ½ %.



NOTE:- % TOLERANCES ON VALUES GIVEN IN FIG. 3 AND FIG. 4
ARE SHEWN IN BRACKETS.



APRIL 1950