

How to test the Cartomatic II and III

There are 9 testcards, kaart 2 to 10. These cards are designed by Philips.

They are used to check the performance of tube testers Cartomatic II and III

Three different tests are to be done:

- 1) With mains power and a test card inserted, measure the ac voltages between the pins indicated.
- 2) Without power, measure the resistance between the pins indicated.
- 3) Without power, apply the indicated dc current to the pins indicated and check the meter. It should go to 1/3 of full scale.

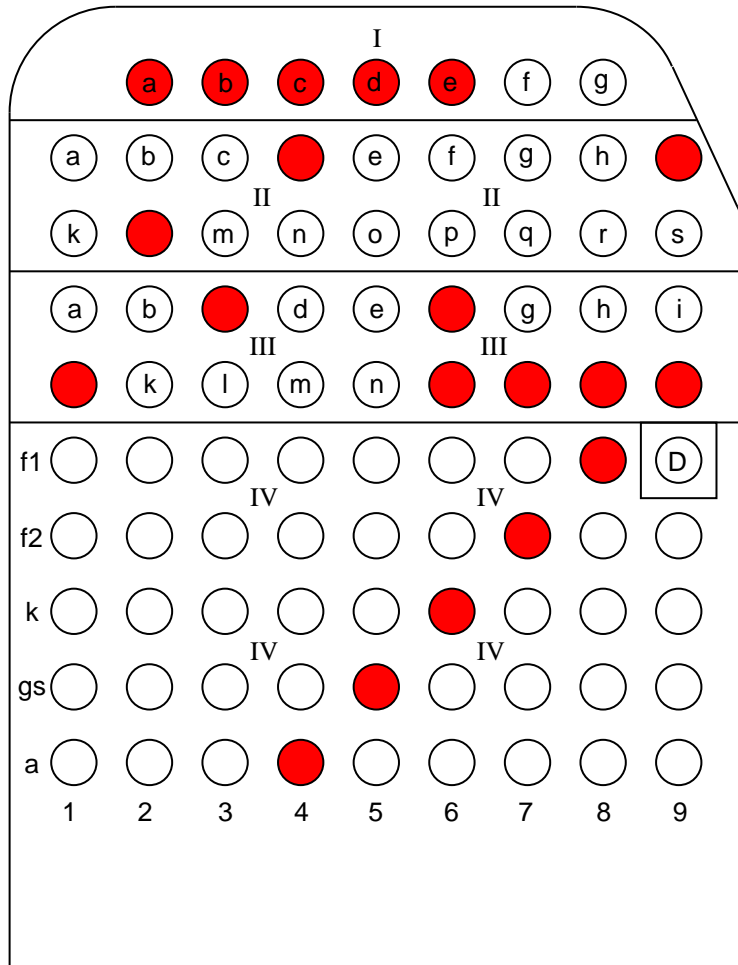
For all the tests the result should be approximately the value as shown on the testcards.

If you print these testcards, set the scale to 1:1 or 100%. Then you have the correct dimensions.

The red holes have to be punched.

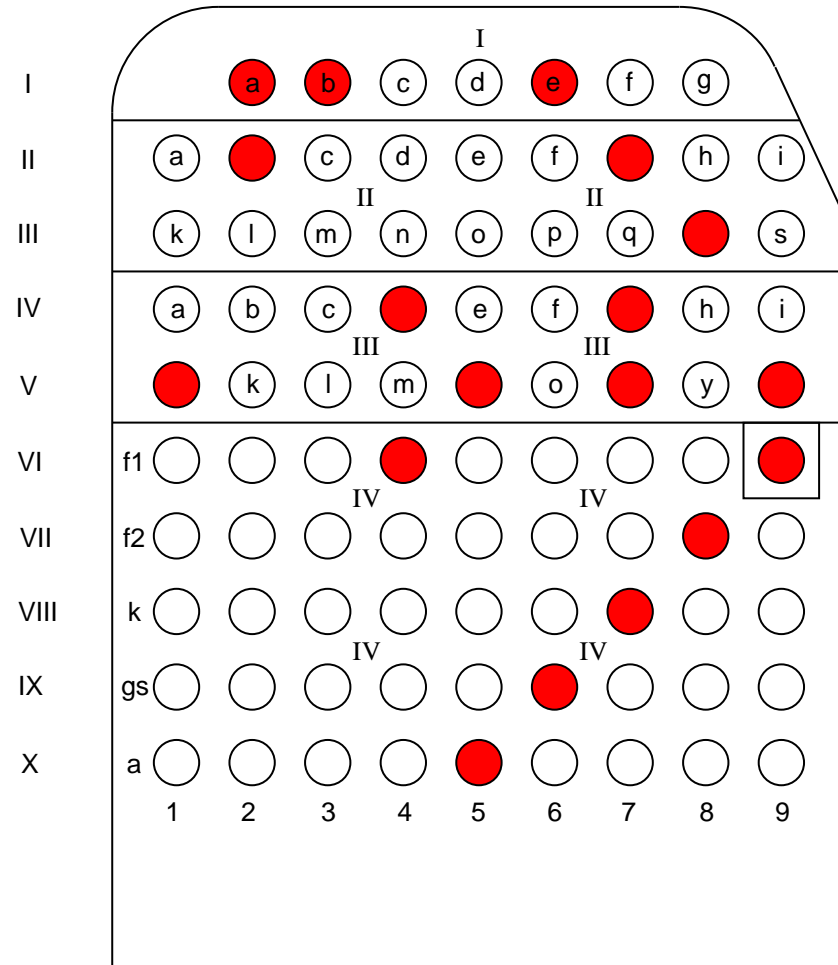
There are also circuits for each testcard. See [GM7633 Circuit](#).

(FP 2018-09-30)



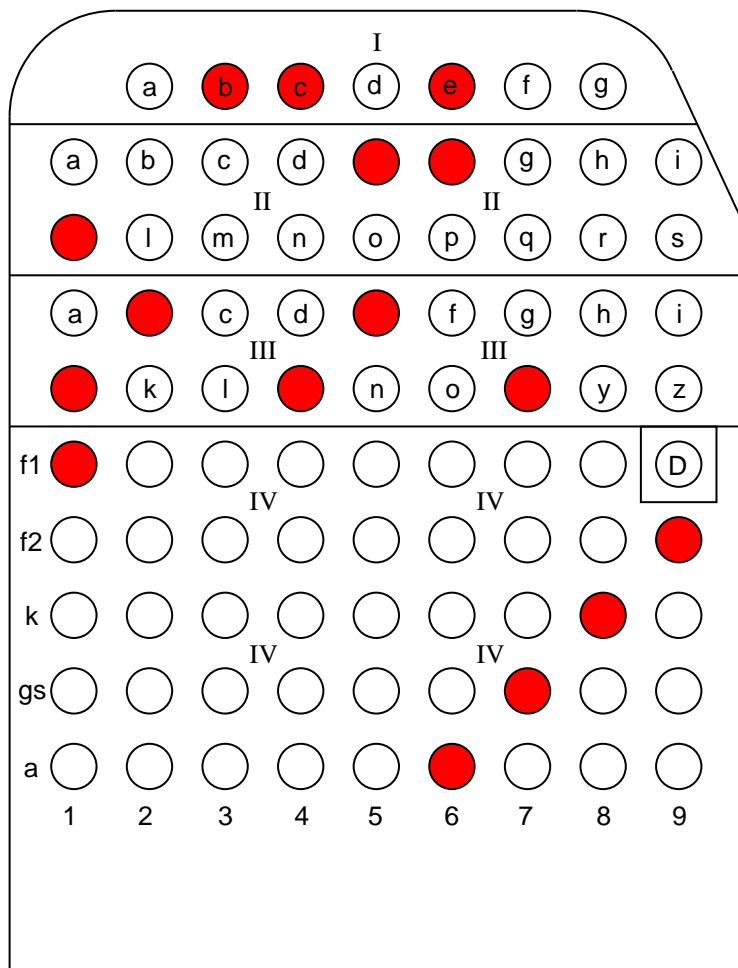
kaart 2

4-6 : 80V
 5-6 : 180V
 7-8 : 1V
 6-7 : 30Ω
 5-6 : 10kΩ
 4-6 : 0.25mA



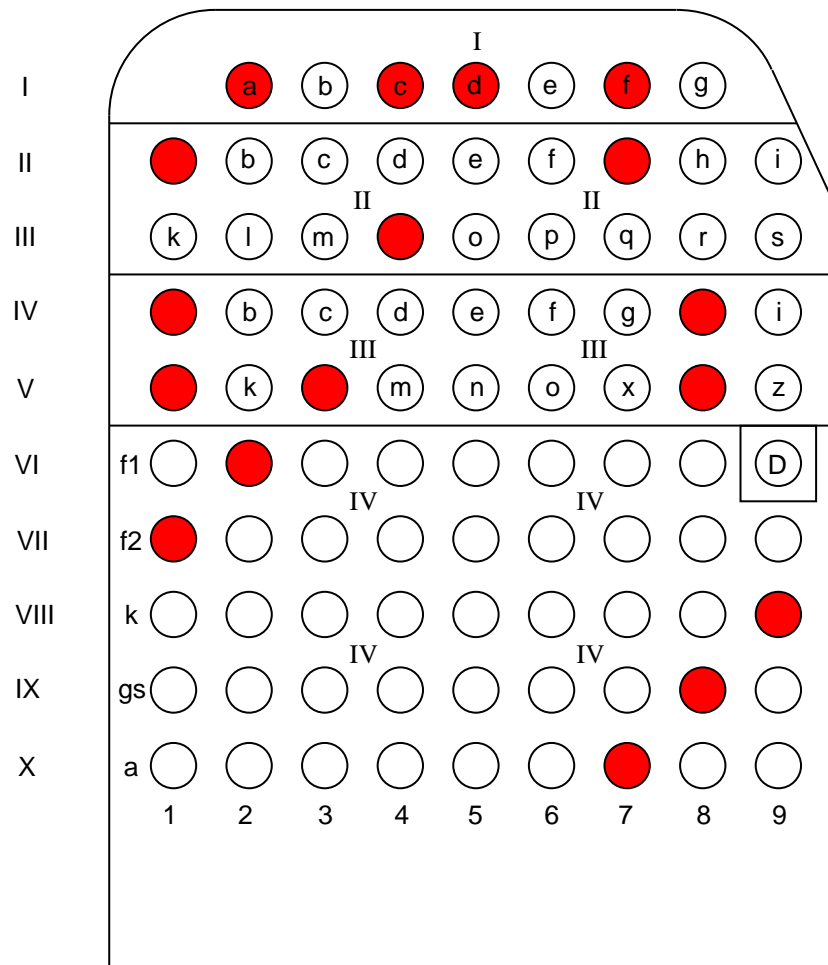
kaart 3

5-6 : 170V
 4-6 : 14V
 4-8 : 7.8V
 6-7 : 12kΩ
 5-7 : 1mA



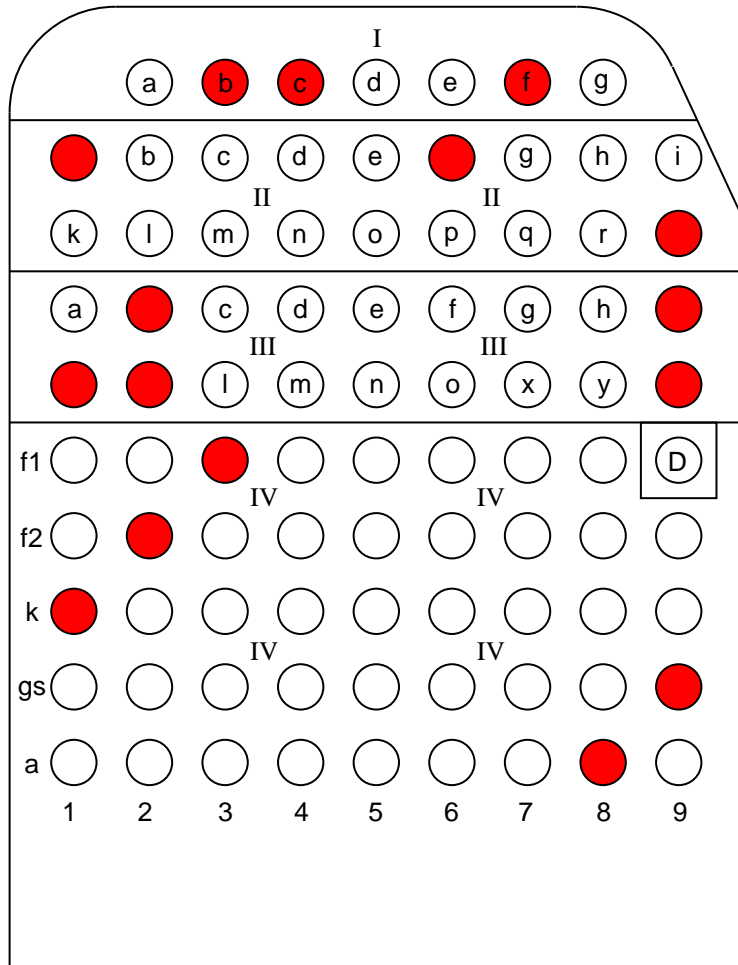
kaart 4

7-8 : 200V
 6-8 : 10V
 1-9 : 14V
 8-9 : 30Ω
 8-7 : 13kΩ
 6-7 : 2.5mA



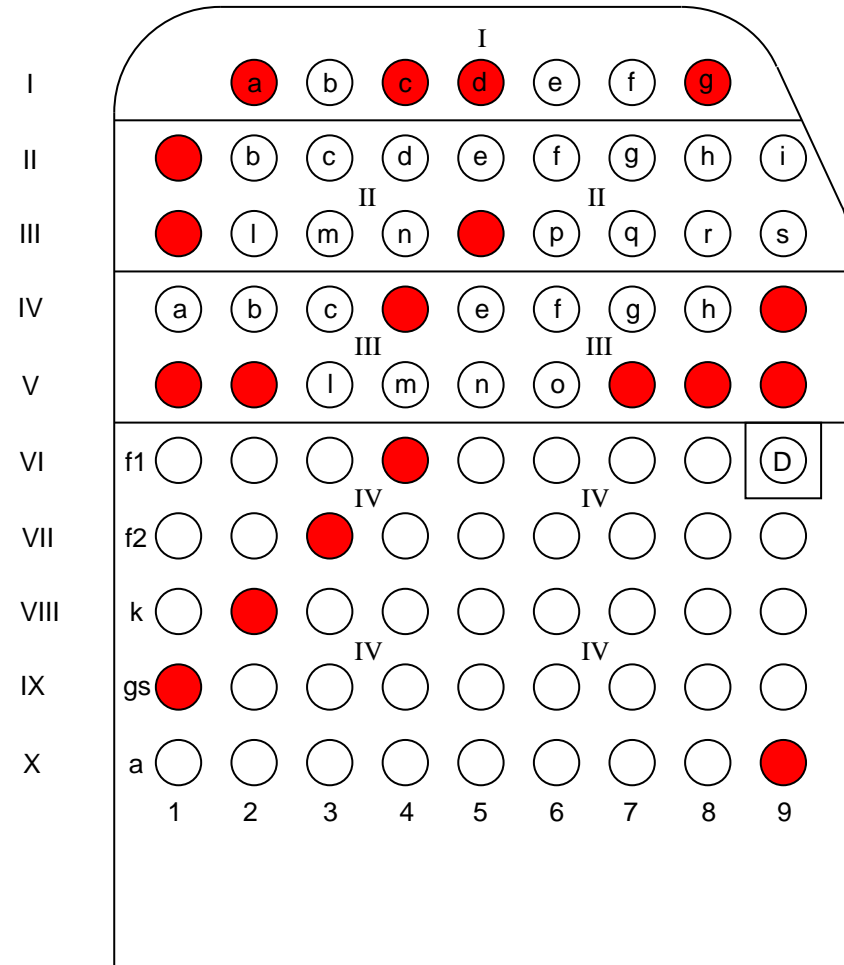
kaart 5

1-2 : 66V
 8-9 : 60V
 7-9 : 210V
 1-9 : 30Ω
 8-9 : 19kΩ
 7-8 : 5mA



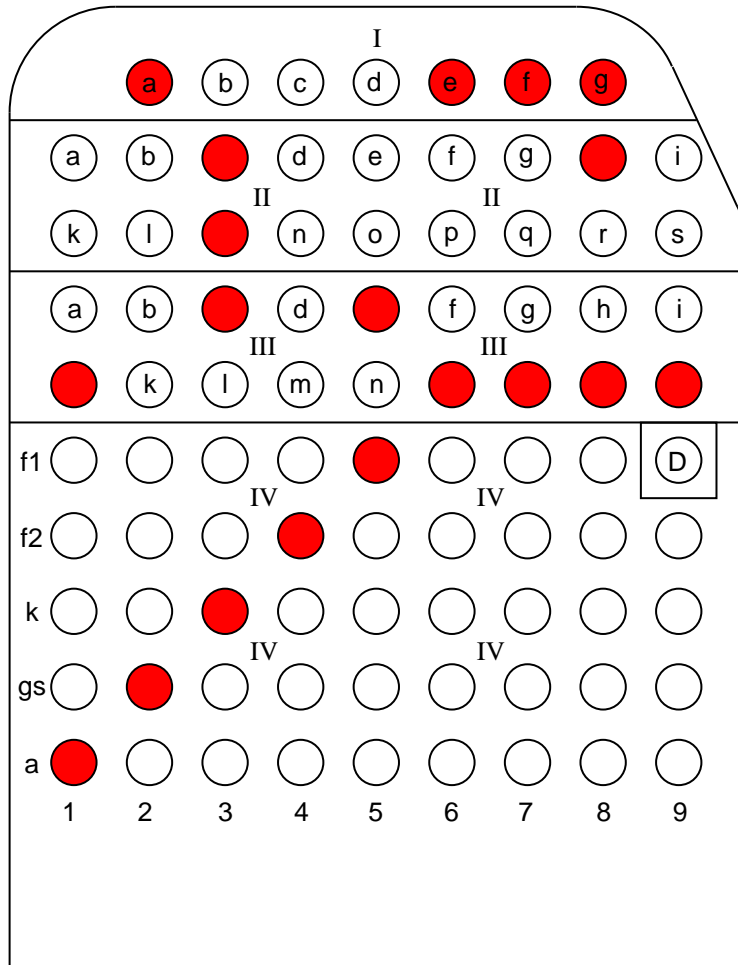
kaart 6

2-3 : 180V
 1-9 : 30V
 1-8 : 200V
 1-2 : 30Ω
 1-9 : 16kΩ
 1-8 : 10mA



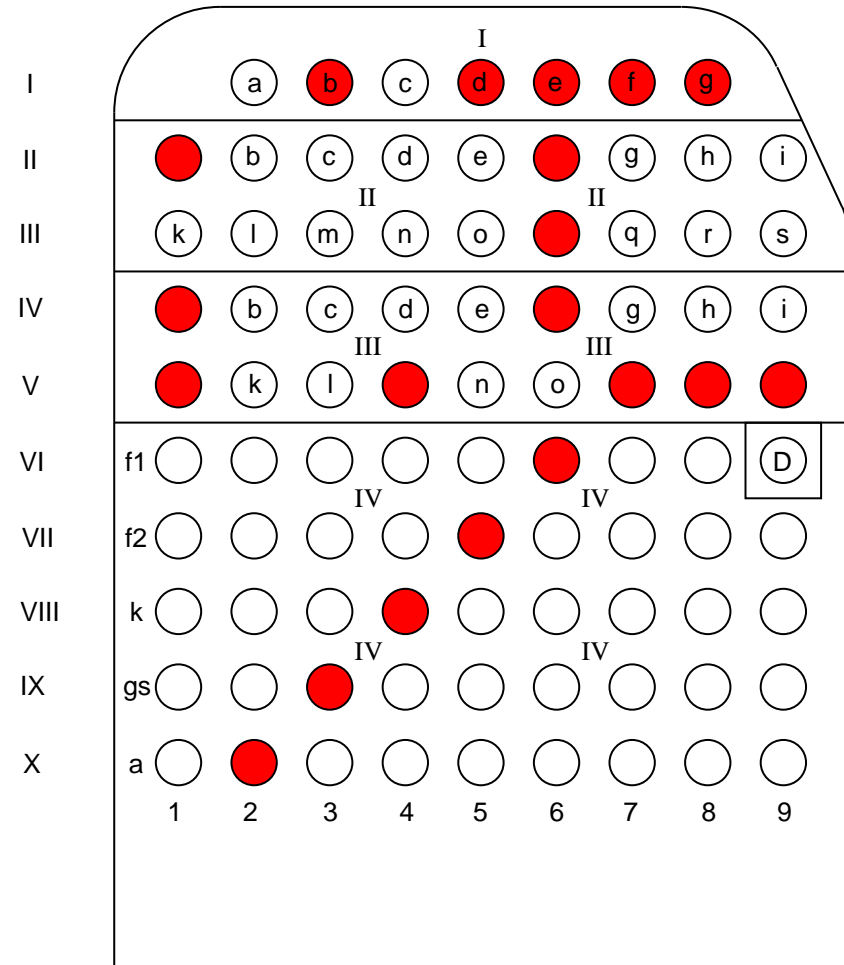
kaart 7

3-4 : 281V
 1-2 : 190V
 9-2 : 190V
 2-3 : 30Ω
 1-9 : 10kΩ
 2-9 : 20mA



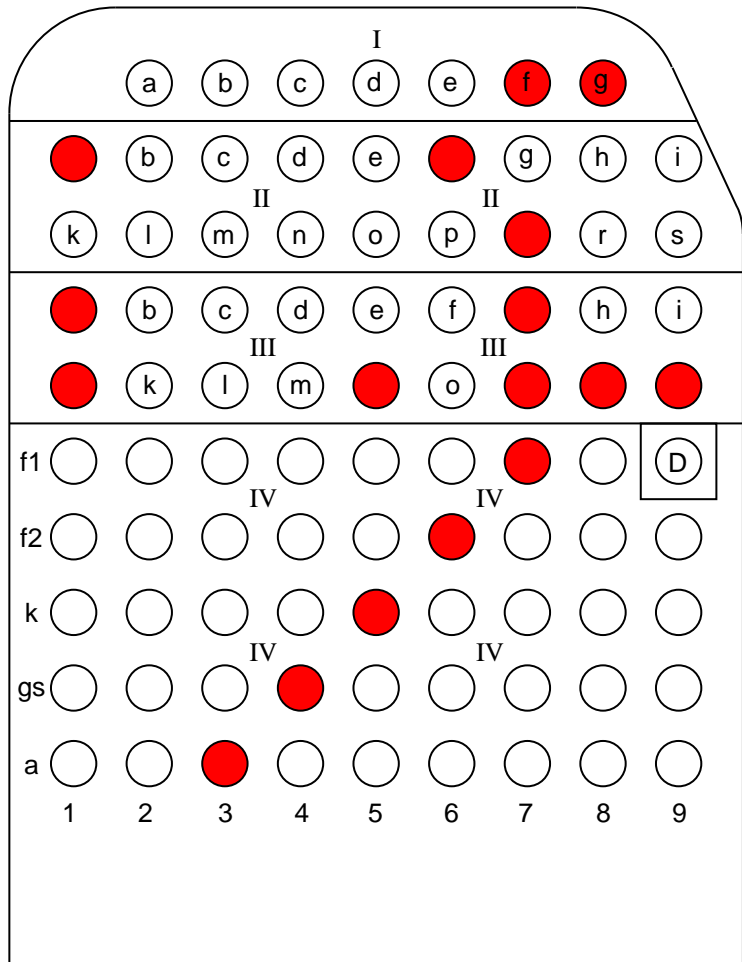
kaart 8

4-5 : 0.9V
 3-1 : 120V
 3-2 : 120V
 3-4 : 30Ω
 1-2 : 10kΩ
 1-3 : 30mA



kaart 9

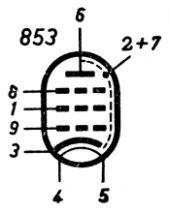
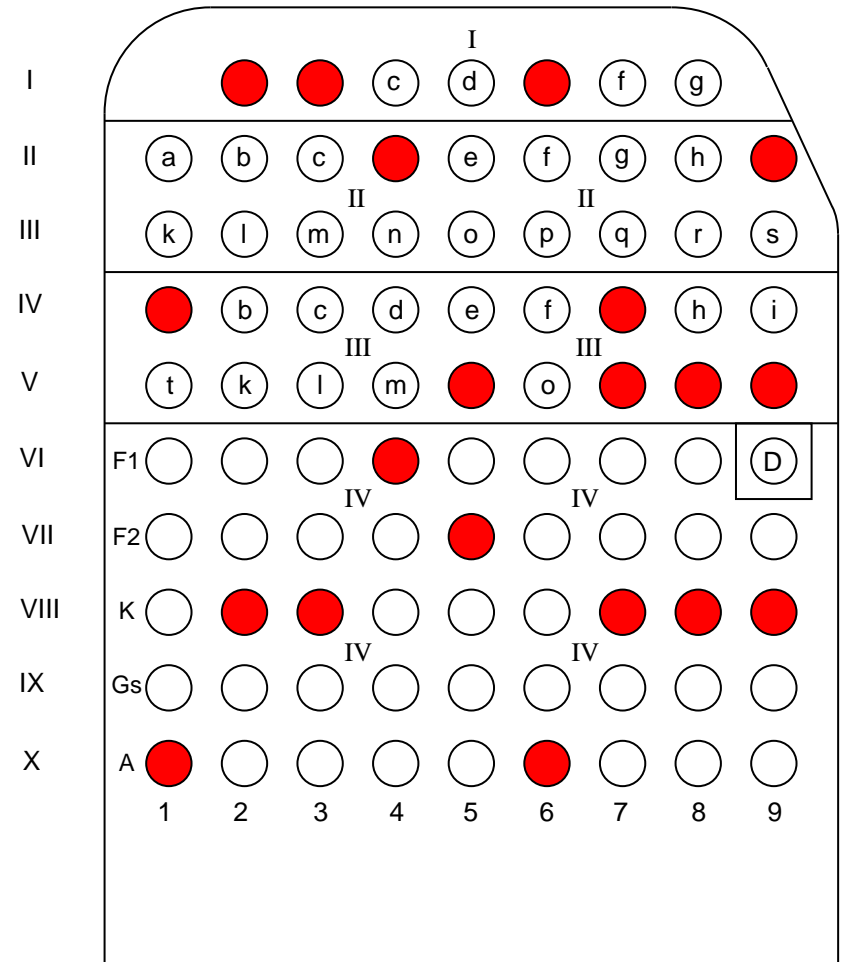
5-6 : 20V
 2-3 : 200V
 2-4 : 200V
 4-5 : 30Ω
 2-4 : 41mA
 1-2 : 10kΩ



kaart 10

3-5 : 200V
 3-4 : 210V
 6-7 : 6.3V
 5-6 : 30Ω

 3-5 : 63mA



GM7630

Type: EF86
 Socket: GM76331/80 Noval
 Electrode: 1+6
 dd: 2018-09-30