

# TGI1-700/25

So far, the most powerful tool in my collection. Oh, very impressive stuff!



Thyratron pulse modulator with a hydrogen content. Oxide cathode, an indirectly heated. Max. surge current 700 A, max. voltage of 25 kV.

[A copy of the passport](#) , [reference sheet](#) , and [the data from the Yellow pages](#) to it.

Producer - "polaron", Lviv (Ukraine)

A great feature. According to the "Sanitary Rules of X-ray sources of unused N 1960-79 of 19 January 1979" This thyatron at work pretty well emits röntgen. Exposure dose of 30 ... 300 mR / s, a narrow beam with a peak just below the anode, the radiation is perpendicular to the axis of the lamp.



#### Anode input

Input before vpaem bottle wrapped in glass and placed in a narrow glass tube, here it is clearly visible. This is done to facilitate technology-junction, also plays the role of the glass screen to protect against discharge.

It is made in the form of expanded plates, first to increase the bond strength to the container (anode input undergoes significant thermal overloads), and secondly to reduce the possibility of electrical breakdown on the surface of the cylinder.



Anode chamber

Anode itself is almost invisible, it is closed at the top and side shields. Side the screen is made of a grid, to improve the cooling.

interesting point - in the screen done triangular hole ... lamp was not working, so this is obviously factory work:







Cathode assembly

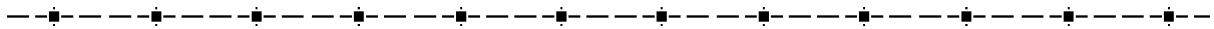
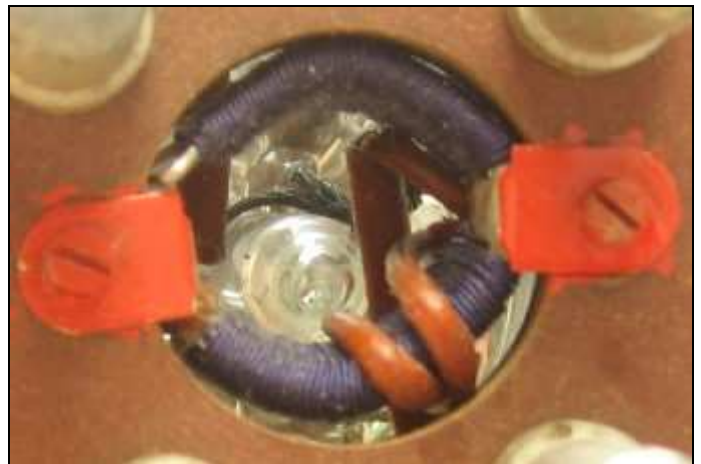
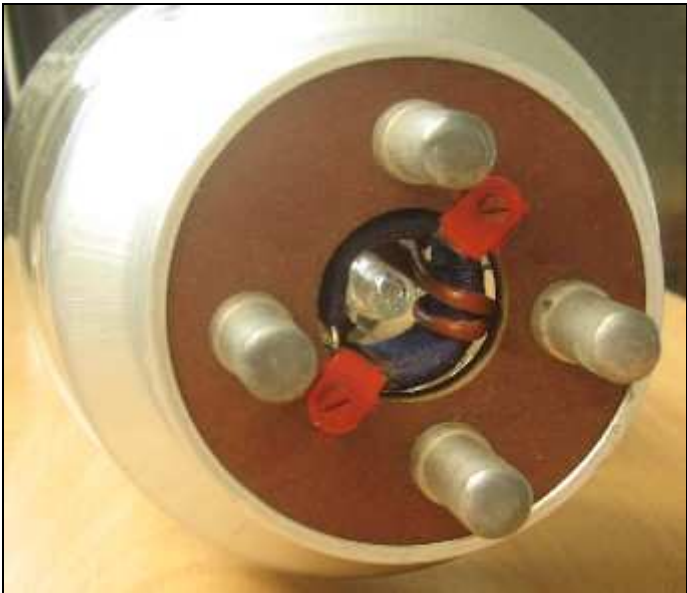


Very good view hydrogen generator. White mass on the

end - the vacuum cement:

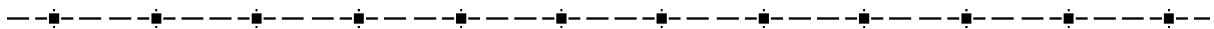


in this photo clearly shows that the glass "button" is located asymmetrically:



#### Sources:

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