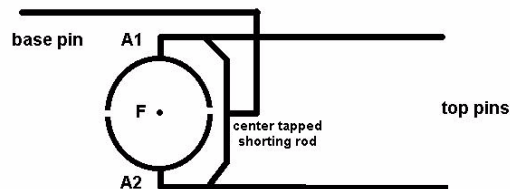


A-103A - RCA Experimental Split-Anode Magnetron

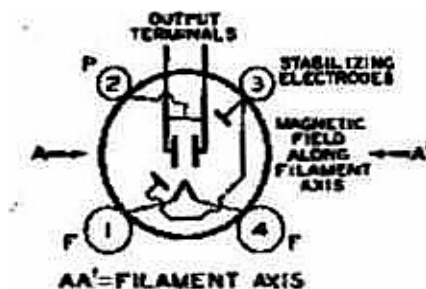


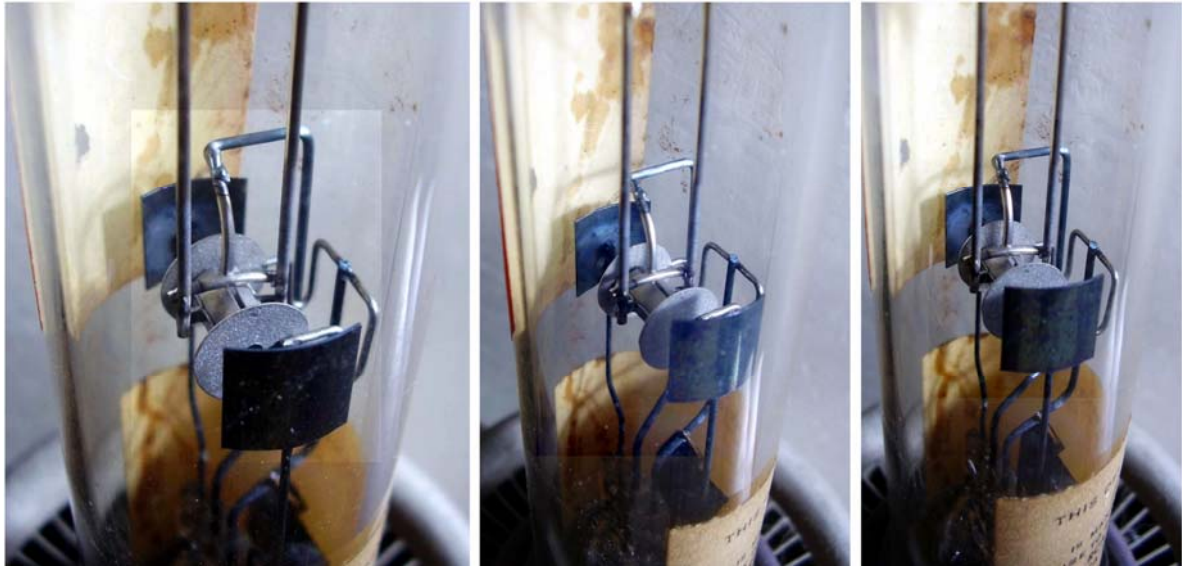
This looks to be a split-anode magnetron with self-contained resonating line. The two anode half cylinders are connected to the two top pins. The connecting rods are shorted together shortly above the anode, likely in a voltage node of what was the intended resonating system. The position of the shorting rod suggests that the tube was designed to oscillate at very high frequency.



According to Lud Sibley, an A-103B RCA experimental magnetron was registered as 2J35 in 1943. Data available in the [RMA release No. 324](#).

Not known the differences between the A-103A and A-103B. Anyway shape and electrode arrangement looks to be very similar if not the same.





Here are some close-up views of the resonator formed by two vertical segments, about 5 mm each, and the two halves of the horizontal shorting jumper. The center of the jumper is connected to one pin of the base. The equivalent line is about 1 cm long and should resonate at about 4 cm.