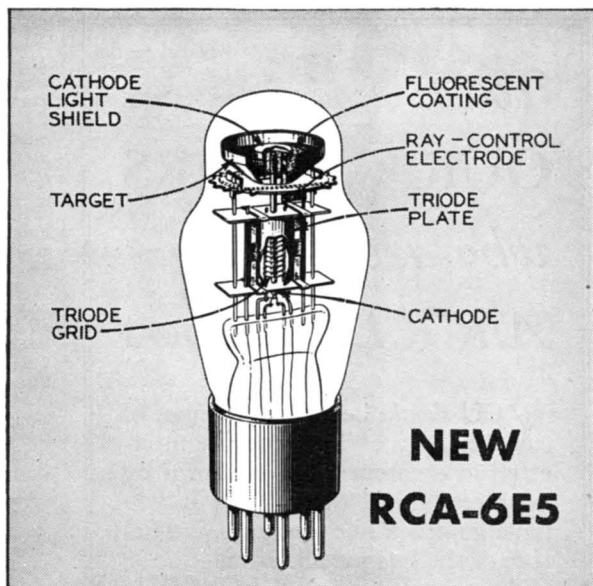




# The facts about the "MAGIC EYE"



As an amateur, you are sure to be asked, sooner or later, what the "Magic Eye" is, just as many amateurs were asked by the general public about the "Magic Brain"—the r-f amplifying and frequency-converting system that improves the signal-to-noise ratio, amplifies the signal, and eliminates image interference.

The "Magic Eye" is the latest, and we think the best, tuning indicator to be developed. By RCA engineers, of course. It operates on the principle of a simplified cathode-ray tube and is designed so that a ray-control electrode casts a wedge-shaped shadow of variable size on the green fluorescent coating of the viewing target. This new visual indicator, technically described as an Electron-Ray Tube, is designated as the RCA-6E5.

When the 6E5 is used as a tuning indicator (it has other possibilities for amateur use), the grid of its amplifying

triode unit is supplied with controlling voltage from the a.v.c. circuit of the receiver. With no a.v.c. voltage present (condition for no incoming signal), the wedge-shaped shadow on the target is wider; with a.v.c. present (condition encountered with an incoming signal), the shadow narrows. When it is narrowest, the signal is perfectly tuned.

An outstanding feature of the 6E5 is its dead-beat and instantaneous action. Electrons, traveling at speeds of several thousand miles per second, do the trick. With this sensitive visual device, the bcl can tune by eye quickly and accurately. Tuning by eye is far more accurate than tuning by ear, and avoids the probability of shaving the side bands so essential for full, rich, natural reproduction. It's really fb. Drop in at any RCA Victor dealer and try it yourself. Technical data on the RCA-6E5 sent on request.



## AMATEUR RADIO SECTION

RCA RADIOTRON DIVISION

RCA MANUFACTURING CO., INC., CAMDEN, N. J.