

2 - Receiving types, including hi-rel ones

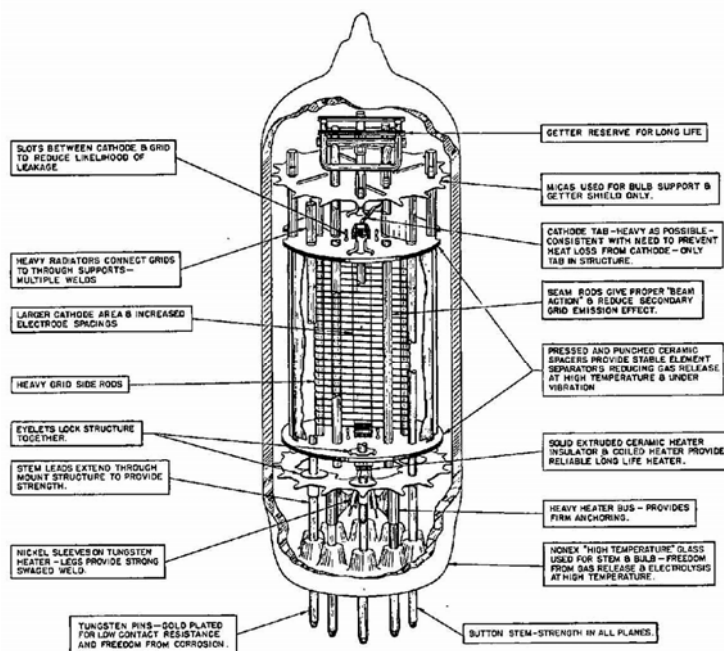
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This section is intentionally left incomplete, since there are many sites which give every kind of information on tubes for radio or even audio applications. The proposed objective is to give an overview of high-rel tubes, mainly intended for instrumentation, communication and military equipment, illustrating improvements over their commercial prototypes whenever possible.

Common tubes were intended to operate in fixed sets and in favorable environments. They failed in military or mobile operations due to their poor capability to withstand vibrations, shocks, wide temperature fluctuations and even large heater voltage variations in battery operated equipment. So we find electrode assemblies ruggedized by the insertion of additional mica spacers, sometimes held in place by eyelets welded on supporting rods. Asymmetries were introduced in electrode assemblies to prevent resonances. Heaters were sometimes spiralled, not folded, and then cathoretically covered by the insulating alumina layer.

Anyway the boundary between hi-rel tubes used in receiving equipment and those used in other applications is quite weak, so many special quality tubes are listed in other sections, as the tubes intended for hi-performance AC/DC amplifiers, those for computer applications or for telephony repeaters.



STRUCTURAL FEATURES OF 6094 PROVIDE HIGH RELIABILITY AND LONG LIFE.

Fig. 3 - Internal details of the Bendix [6094](#), a high-rel variant of the 6AQ5 power amplifier capable to survive at 300°C or under 500g shocks and 50g vibrational accelerations. (Click to enlarge)

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