

MAKING TUBES IS

Easy

IF YOU KNOW HOW!

Life racks (sides) and voltage distribution panels (rear) at Hytron's Newburyport plant. Up to 2880 tubes can be life-tested simultaneously.

TO GIVE YOU TUBES THAT LIVE LONGER

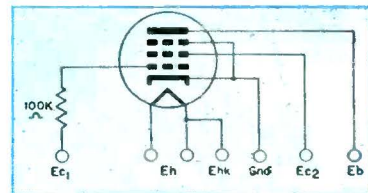
Tubes are like folks. Some live longer than others. That is why you are protected by your Hytron service guarantee. More important to you, statistical information amassed by continual life testing provides Hytron engineers with the means to control and extend the life of the average tube.

Of necessity, life tests are limited samplings. An adequate number of tubes from each day's production are plugged into life racks. Positive potentials are patched in from distribution panels. The life racks themselves supply other potentials. Time meters count the hours of operation. Cycling controls permit adjustable intermittent tests. Repetitive, paralleled circuits, such as those diagramed, simulate worst-possible maximum operating conditions.

Tubes run to predetermined life test end points — adequate to control deterioration of characteristics during normal life. At frequent intervals, engineers check important characteristics like transconductance, gas current, and power output. Special dynamic life tests help determine ratings and overload capabilities of newly developed tubes. For example, the 5516 was life-tested intermittently and continuously at 160 mc.

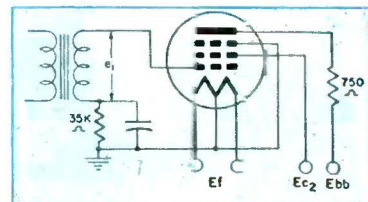
Life will vary from tube to tube. But such careful, persistent checking makes it much easier to assure you of uniform Hytron tubes which live longer.

STATIC LIFE TEST — 6SK7GT



Static class A amplifier with fixed bias, maximum operating potentials, and heater-cathode potential to test breakdown of h/k insulation.

DYNAMIC LIFE TEST — 2E30



Dynamic class C amplifier with grid leak bias and maximum operating potentials. Note rms voltage in series with rectified d-c grid potential.

SPECIALISTS IN RADIO RECEIVING TUBES SINCE 1921

HYTRON

RADIO AND ELECTRONICS CORP.



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