

MAKING TUBES IS EASY...



If
**YOU KNOW
HOW!**

Hytron commercial engineer makes precision measurements of 50L6GT performance in many typical radio receivers. He then compiles weighted averages of tube characteristics selected to be correlated for functional testing.

Out of the commercial engineer's investigations grows this functional production tester. Combined functional and standardized tests are quicker. Operator can be even more accurate, and you are assured of more uniform performance.



FUNCTIONAL TESTING . .

You may have discovered that a tube rigidly inspected by standardized testing procedures (JAN, RMA, IRE) still may not perform satisfactorily in your equipment. Ordinary control of basic characteristics may not be enough. Functional dynamic tests—selected and correlated to simulate performance in typical equipment applications—may have to be added.

Simple analogy explains why. Testing of fundamental tube characteristics is like inspection of individual components of multi-ganged tuned circuits. When the tuner is assembled or the tube connected into a circuit, coils and condensers or tube characteristics may not combine properly. Individual variations within tolerances may be in opposition. Operational tests are the only positive checks.

Hytron commercial engineers, therefore, developed functional testers like the illustrated 50L6GT production test kit

Another **HYTRON EXTRA!**

—essentially a customary equipment circuit. Whether or not a part of the standardized tests, 50L6GT characteristics related to power sensitivity and output are simultaneously checked for smooth dynamic interaction. This comprehensive functional test automatically includes additional minor tests—pertinent but usually omitted from production testing. Hum itself is also measured, because no basic characteristic test controls it adequately.

Functional testing is another Hytron extra. Based on painstakingly acquired know-how, it is often the best and easiest way to assure you of uniform, reliable tube performance in your equipment.

SPECIALISTS IN RADIO RECEIVING TUBES SINCE 1921



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