



Thousand watt transmitter, for gaining a actual transmitting experience.



Control room of UTL radio club amateur radio station W4NKM.



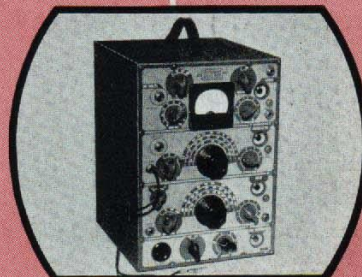
An associate checking television receiver under the guidance of a UTL engineer.



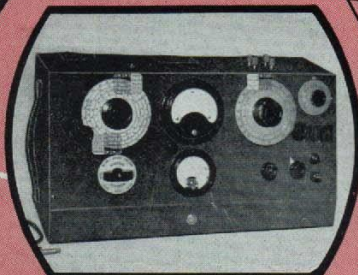
Training Division Building, United Television Laboratories.



Special signal generator used in aligning television receivers.



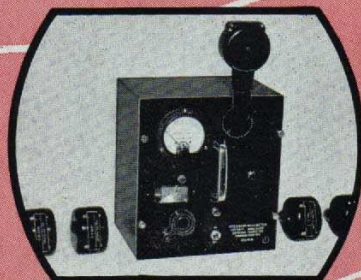
Service instrument which will quickly locate a defect in a radio receiver.



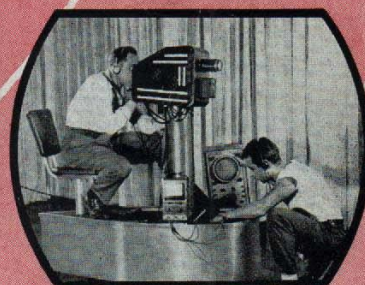
You will use this Q-Meter for determining the properties of coils and condensers.



UTL Engineers discussing the latest R.C.A. image orthicon television camera in our studio.



Precision wave-meter used in accurate frequency measurements in our laboratory.



Technicians adjusting Iconoscope Television camera in our studio.

# UNITED TELEVISION LABORATORIES

1400  
17th & Main Sts. • Louisville 2, Ky. • CLay 3831



# HISTORY AND PURPOSE

**T**HE United Television Laboratories, Incorporated, is a Research and Manufacturing Organization and conducts a training division, not only to develop its own personnel, but to help supply the Technicians and Engineers required today. The Industry must have this personnel in order to expand on a national scale.

## Television Development

The United Television Laboratories, Incorporated, is very fortunate in having at its helm men long identified with the Industry — men, who today, because of their untiring efforts in promoting and keeping alive the interest in television during some of its darkest hours, are seeing the justification of their faith and sacrifices. When the history of television is recorded for posterity, the accomplishments and contributions of United Television Laboratories will take their place beside those responsible for the development of the Industry.

The General Offices and all training Laboratories of United Television are located in Louisville, Kentucky. This city, because of its geographical location, is destined to become one of the key crossroads of the television networks that are now being pushed to enable our nation to enjoy the benefits of coast-to-coast hook-up television programs.

## Training Men

The present and future plans of our Organization include the manufacturing of television camera links, receivers, and

other electronic equipment. However, we will continue with the imperative need of the Industry foremost in our plans — that the Industry must develop its trained men before we can have television; and we pledge to maintain adequate training facilities to accommodate those who are qualified and wish to take advantage of the opportunities open in this great new industry.

The business of United Television Laboratories is TELEVISION. Therefore, the person who is qualified and accepted is going to be taught that which one must know in order to work in this industry. He further has the assurance of receiving a training which is part of the Industry and accepted by the Industry.

## Extension Training

The majority of the best qualified men because of financial or domestic reasons cannot avail themselves of resident training. The United Television Laboratories through its Extension Training Division enables a qualified man to prepare for Television employment at home in his spare time. This well-rounded and practical program supplies the applicant with the tools and units necessary for this work. By paying as he progresses, the applicant then owns, upon completion, the materials and units he must have. Due to the great amount of this equipment involved, the Extension Program is, naturally, not under the G. I. Bill.

# EMPLOYMENT TRAINING PROGRAM

Consists of at least one hundred assignments covering the science of radio, electronics, and television; the handling, working with, and use of radio receiving and transmitting equipment, television receiving and transmitting equipment, television cameras, and television camera control equipment.

## Opportunities

The radio and television field offers more diversified opportunities than any other field today. A few of the opportunities offered are listed below: Servicing radio and television re-

ceivers; designing radio or television receivers; installation of television receivers; production work — such as, trouble shooting, final testing, etc., of radio and television equipment. Radio transmitter work, as, chief engineer, control operator, recording technician. Television transmitter work, as, engineer, camera man, control operator. Sales engineering — public address work — research — hearing aids. Electronics in industry, induction heating, control devices, inter-office communication systems — vacuum tube and radio part manufacturing — miscellaneous communications systems used by airlines, railroads,

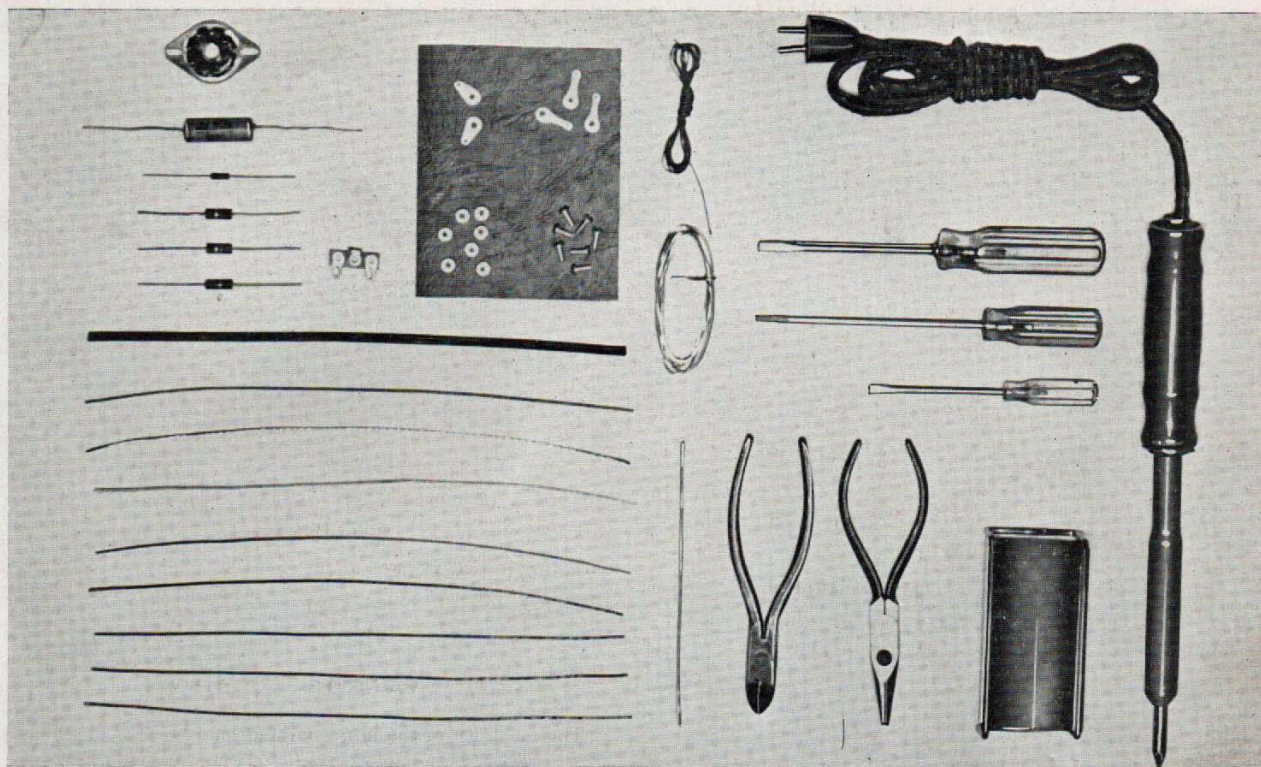


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**UNITED TELEVISION LABORATORIES**

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### FIRST HOME LABORATORY EXPERIMENT

Tools and equipment supplied for use in conducting your first home experiment.

police, taxi cabs. Radio altimeters, direction finders, radar. Electro-surgery equipment; electron-microscope; electronic-counting and weighing machines; radio parts distributor; geophysical exploration.

From the above list which mentions only a few of the opportunities offered by the radio, electronic and television fields, it can be seen that a myriad of opportunities awaits the properly trained technician. It is safe to predict that before long, the science of electronics will in one manner or another have a definite influence upon every phase of our lives — social, political, professional, and industrial. It is evident that an industry of such vast usefulness offers opportunities to the ambitious person who has the foresight and perseverance to acquire the "know how."

### Training With Equipment

During this program you perform over three hundred experiments with the equipment, including the construction of power supplies, filter circuits, detector circuits, audio amplifier circuits, a complete superheterodyne receiver incorporating automatic volume control, a complete commercial-type volt-

ohm-milliammeter; doing cathode ray tube experiments; adjusting and building cathode ray time base circuits; building a cathode ray oscilloscope; observing the nature of cathode ray television devices; modulating cathode ray beams; controlling cathode ray intensity; magnetic and electrostatic deflection of cathode rays; measuring frequency response of sound and television amplifiers; observing distortion; correcting distortion; and building, testing, and trouble shooting a television receiver.

### Commercial Laboratory Training

In the Laboratories in Louisville, Kentucky, you will be trained in practical television work with the most modern equipment together with the practical operation of more elaborate test equipment than one is able to use outside of a research laboratory. Here in our laboratories, the final television training is given under the personal direction of our staff engineers.

SATISFACTORY COMPLETION OF THIS TRAINING FITS YOU TO PASS A RADIO TELEPHONE FIRST CLASS LICENSE EXAMINATION, WHICH IS THE LICENSE REQUIRED TO OPERATE ANY RADIO OR TELEVISION BROADCASTING STATION.

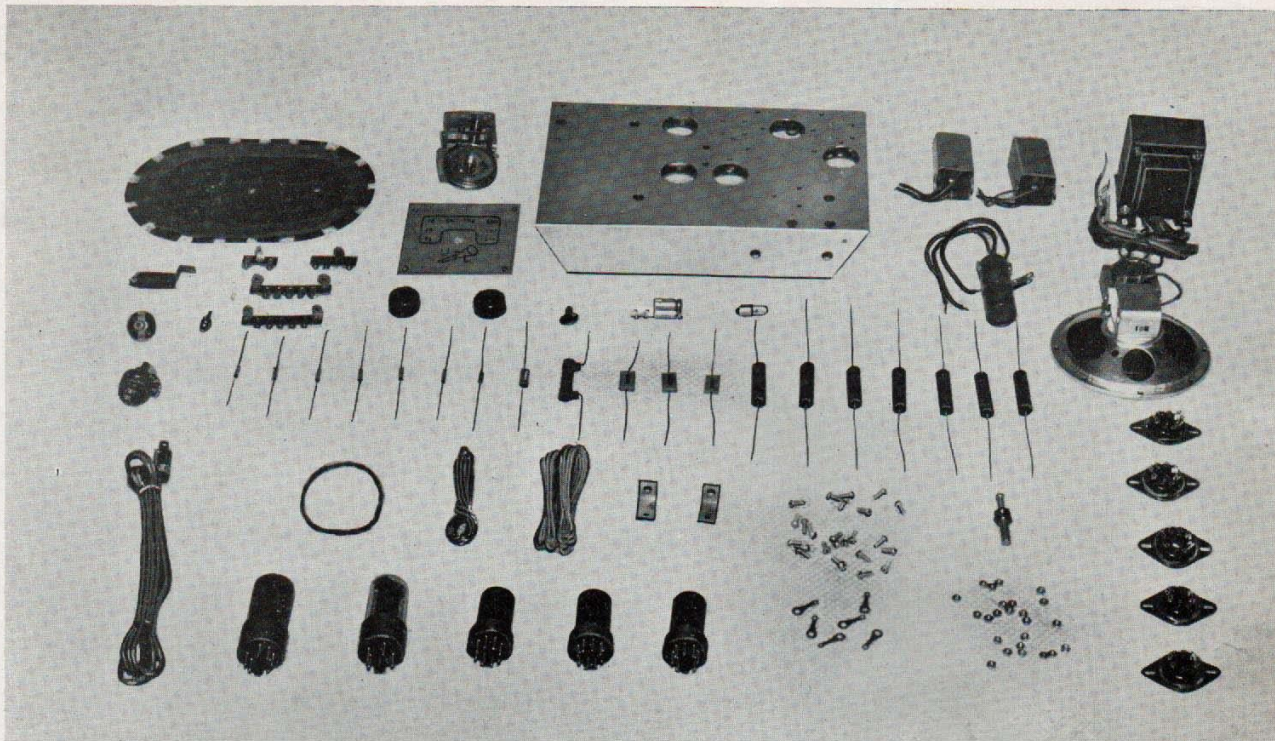


## UNITED TELEVISION LABORATORIES



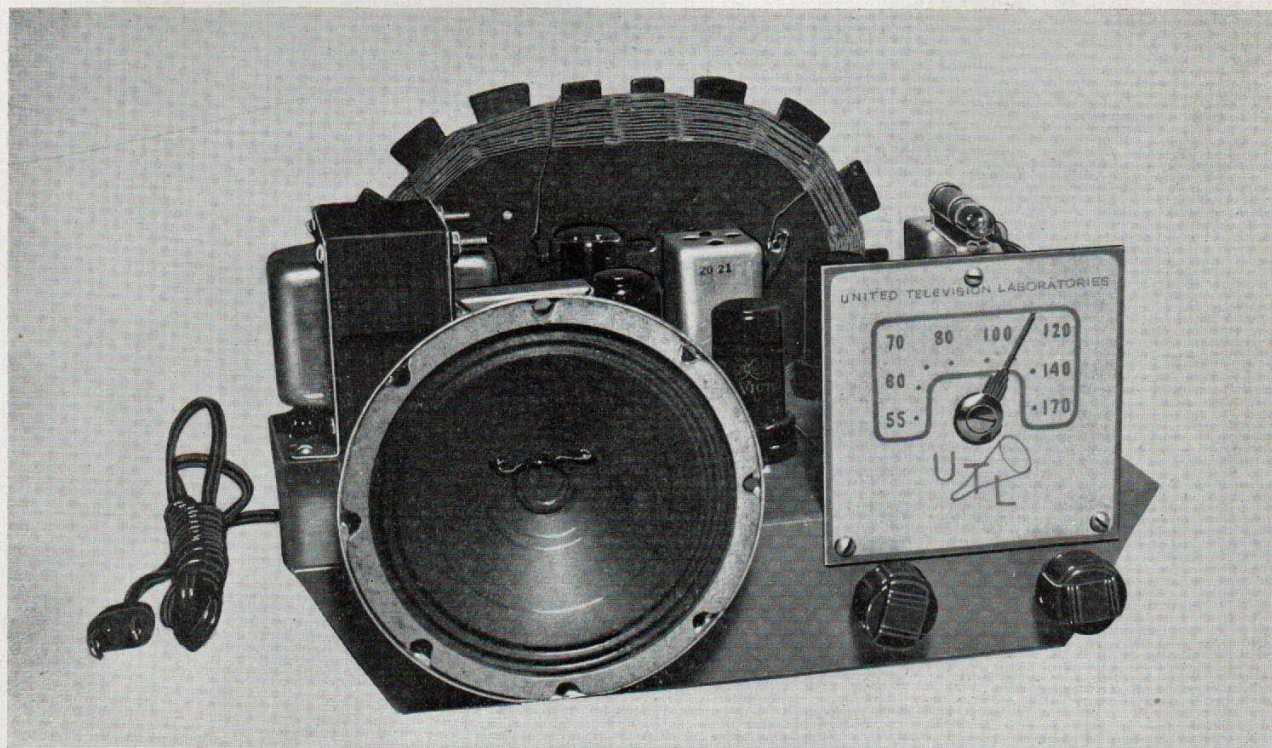






#### **PARTS FOR FIVE TUBE SUPERHETERODYNE RECEIVER**

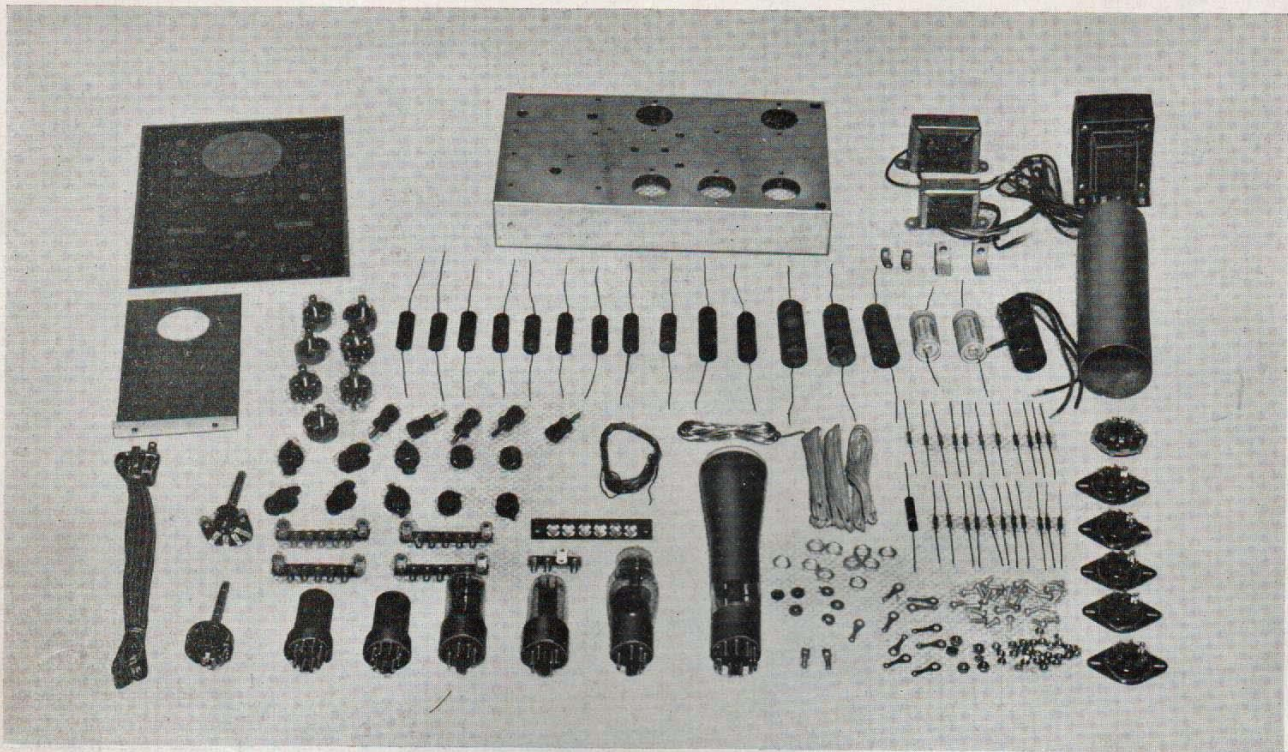
You will use these parts to perform experiments dealing with power supplies, audio amplifiers, oscillators and detectors.



#### **BROADCAST SUPERHETERODYNE RECEIVER**

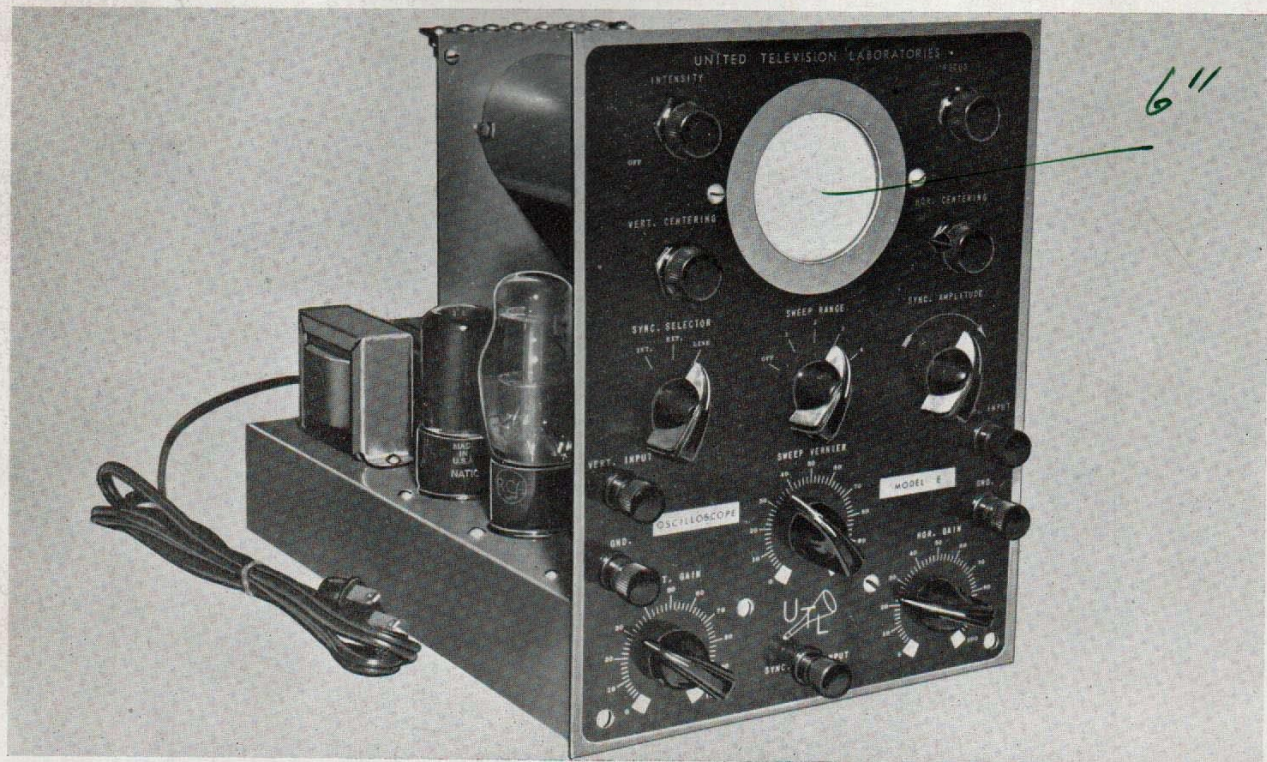
This receiver employs the most modern circuits producing excellent reception. In addition it has provision for use with an electric phonograph. Construction is from the parts illustrated at the top of this page.





### PARTS FOR CATHODE-RAY OSCILLOSCOPE

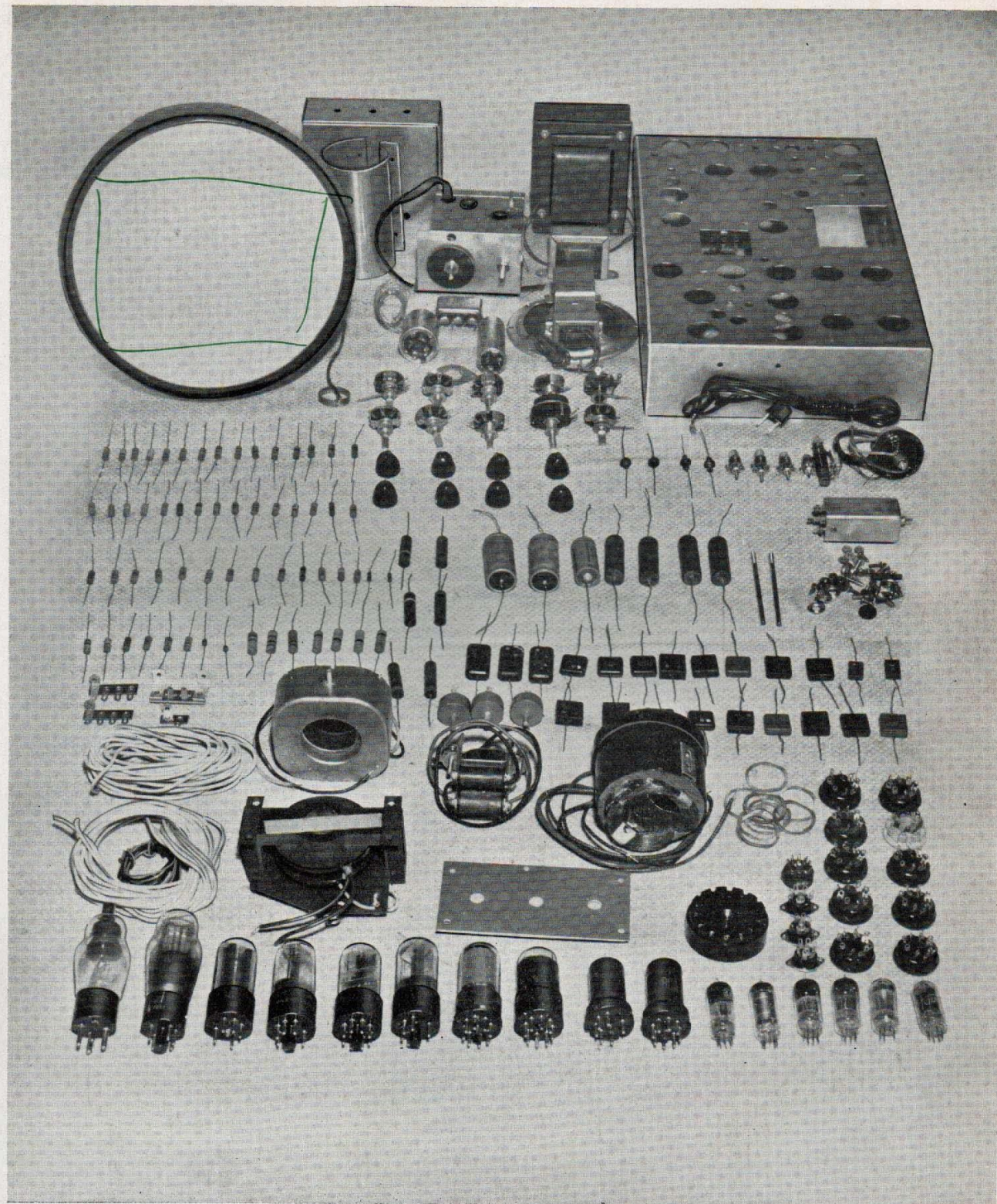
Experiments which you will conduct on Cathode-Ray tubes, Oscilloscope circuits and special television receiver circuits will employ these components.



### CATHODE-RAY OSCILLOSCOPE

You will build this complete television test instrument in your home from the parts shown at the top of this page. The oscilloscope is essential for servicing television receiving and transmitting equipment.





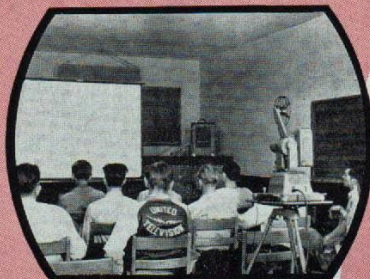
### **PARTS FOR TELEVISION RECEIVER**

This is the way your equipment will look when you first start constructing your television set. It will belong to you for use in your home.

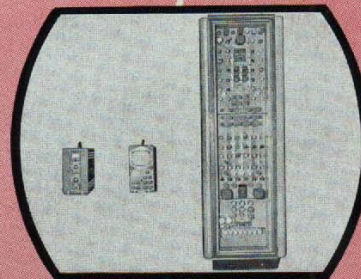




One of the transmitters used by members of UTL radio club.



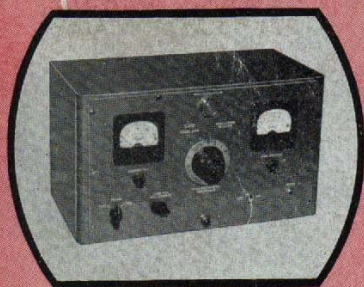
Modern visual training aids are used in our laboratories to help you complete your training.



UTL invested \$16,500.00 in this synchronizing generator and the image orthicon camera to provide thorough television training.



Television cameras similar to this are used in most commercial television stations.



Modulation monitor which indicates correct adjustments of the UTL transmitters.



Variety of test equipment available for servicing television receivers.



You will use this condenser analyzer to check radio and television components.



Air view of UTL showing our downtown Louisville location.



Technician adjusting television camera control equipment.



## UNITED TELEVISION LABORATORIES

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