

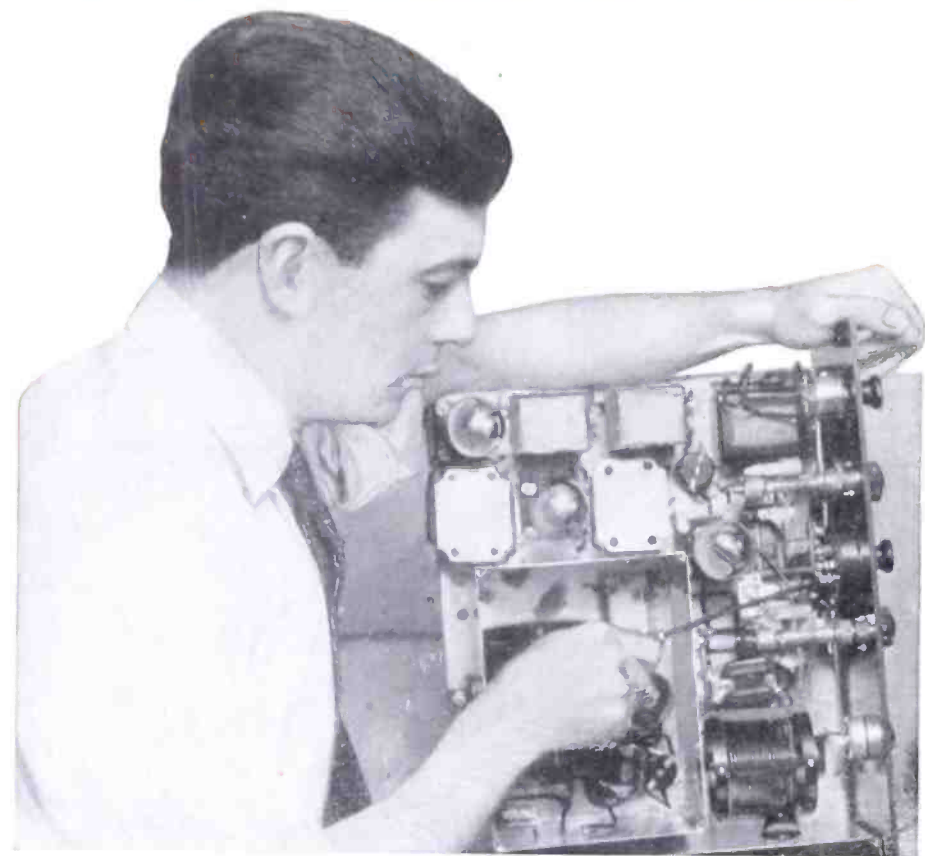
# Learn by Doing!



WITH THIS PRACTICAL EXPERIMENTAL APPARATUS

# PRACTICE with THEORY has made hu

Read What Bordes Says About Practical Training



Graduate M. T. Bordes of California, applying his practical training

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"And this money was repaid to me very early in the Course. The Outfits gave me the practice which put me in the class of experienced Radio men.

"I am convinced of your honorable way of doing business, and of the efficiency of your Course. Thank you, Mr. Smith, for your friendly guidance in my career."

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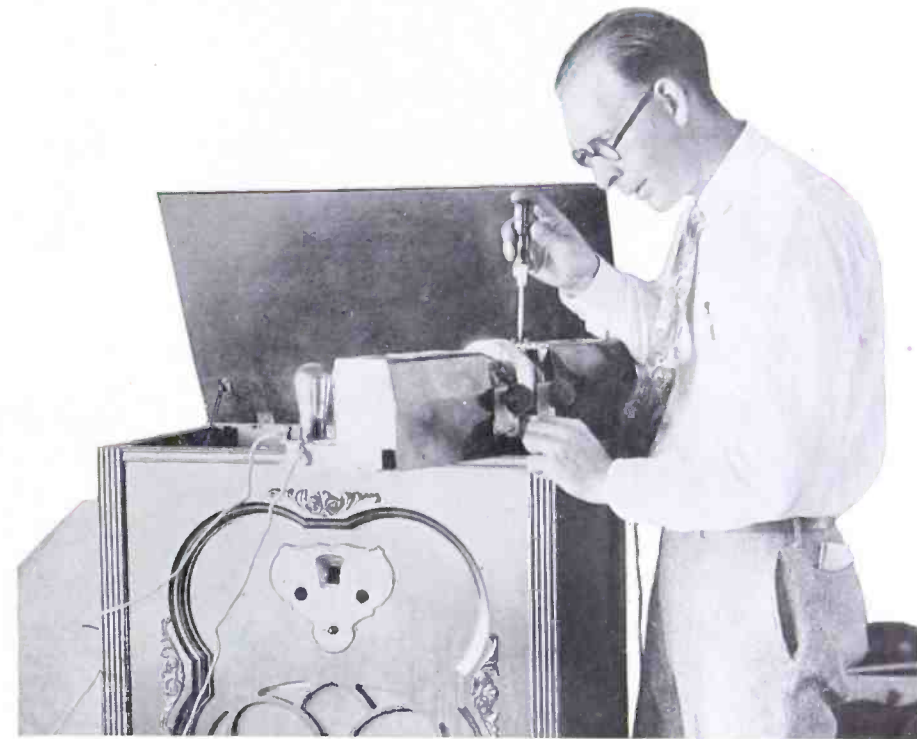
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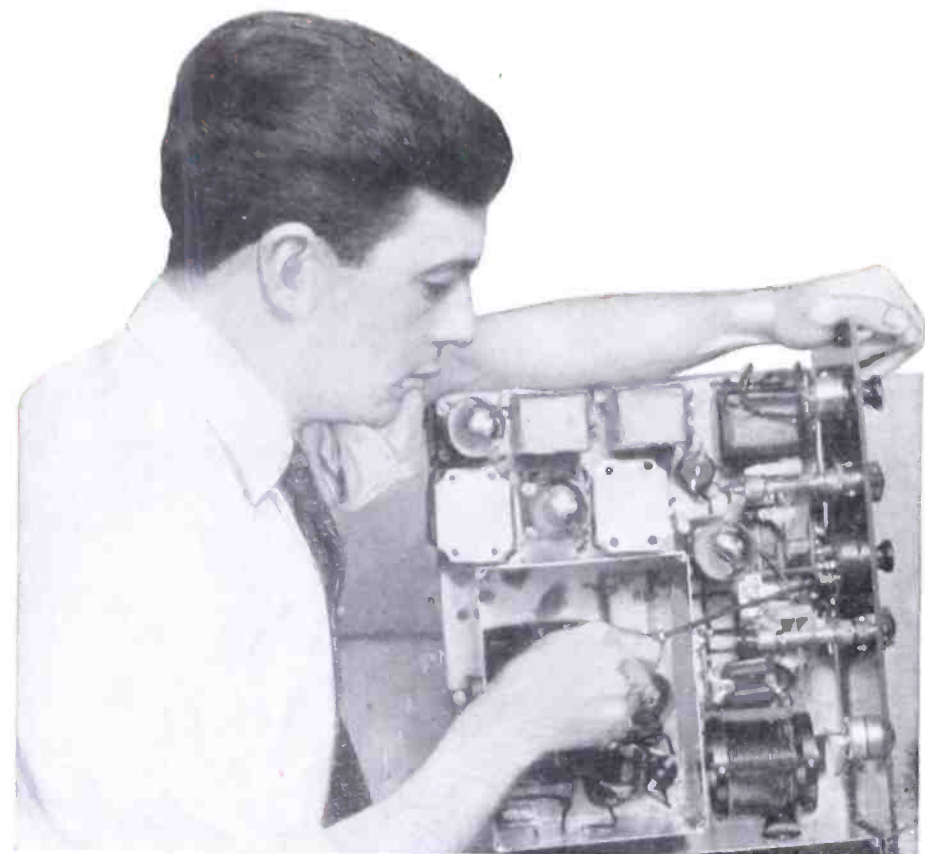
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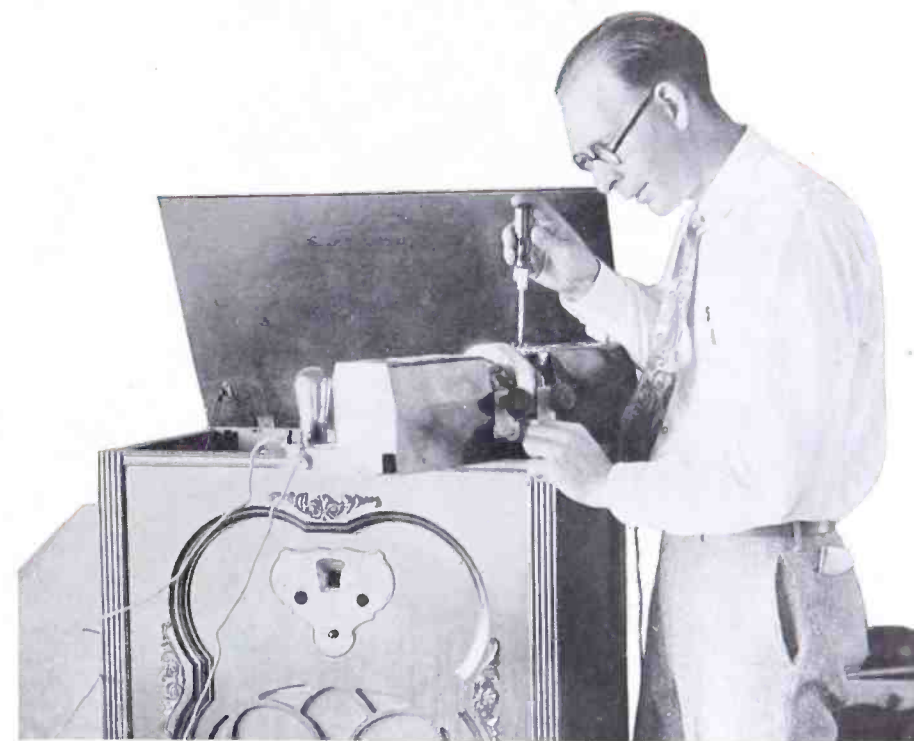
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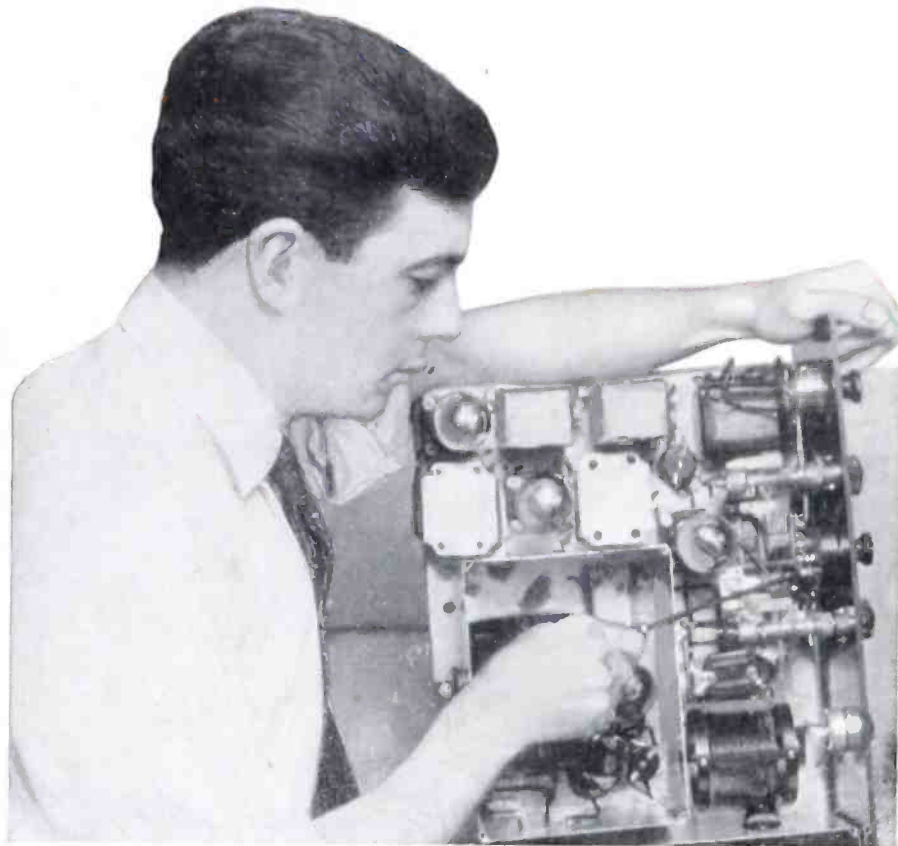
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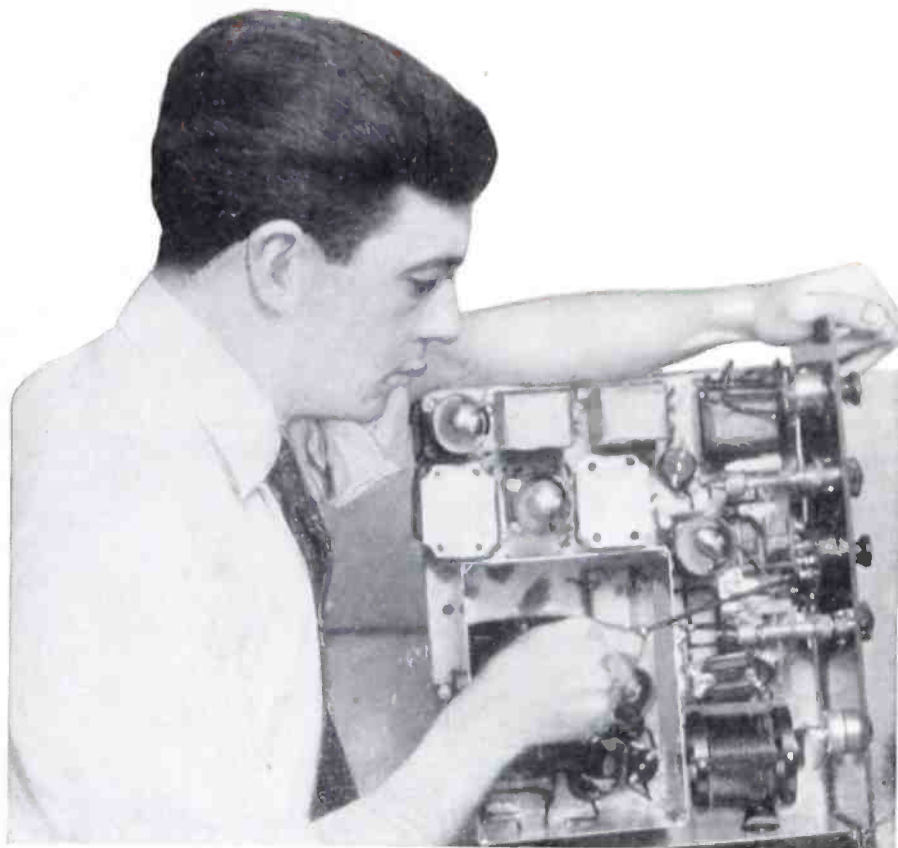


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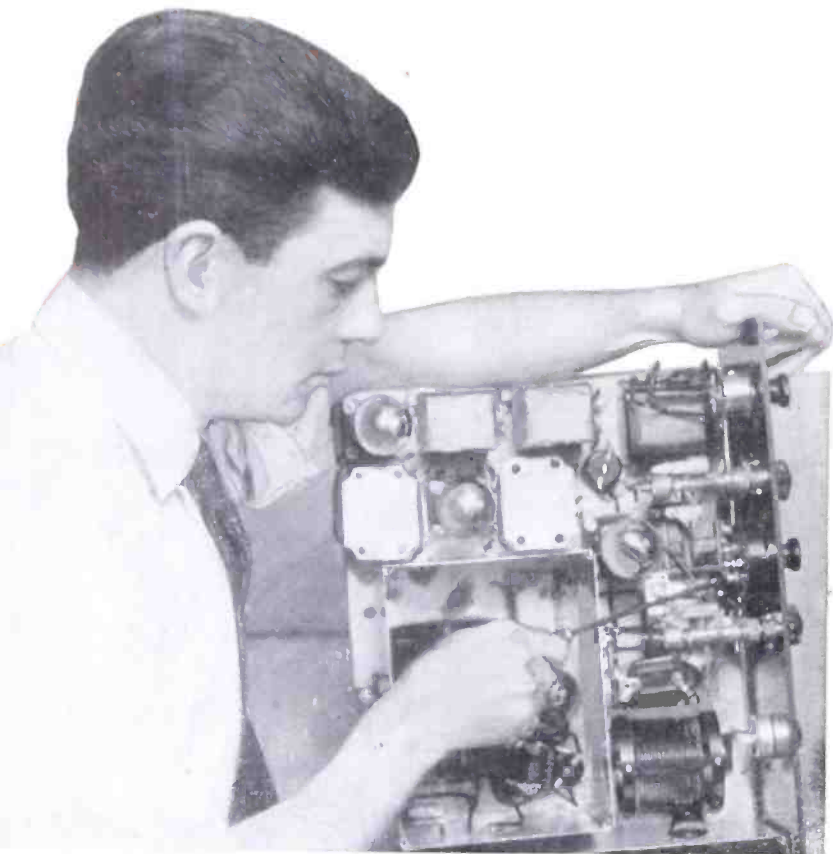


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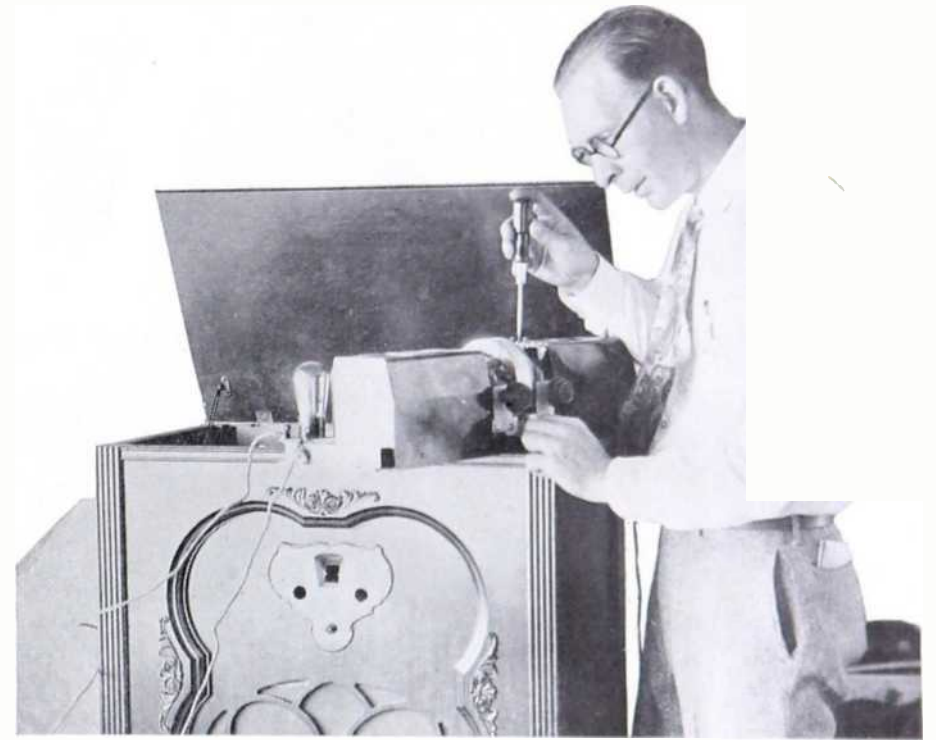
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# *This Practical Work Will Help YOU*

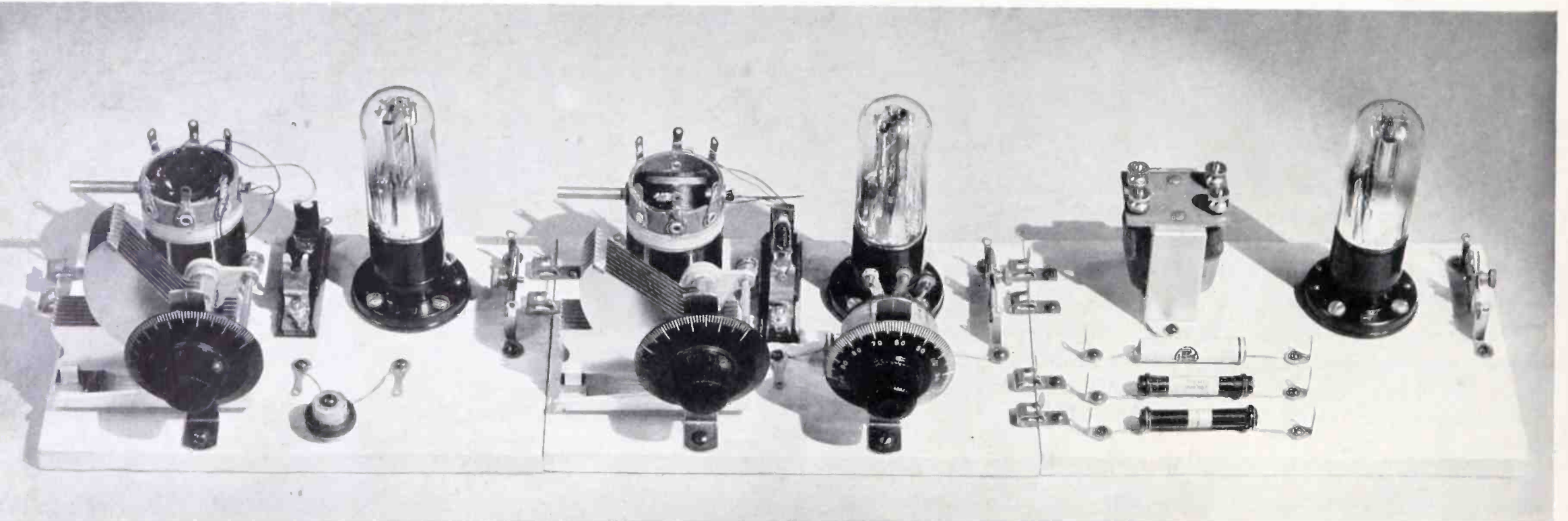
*In Any Branch of RADIO You Follow!*

Perhaps you intend to be an A-1 Service Man; or it may be your desire to start a Radio Store. Possibly you'll want to be an operator aboard ship—in an Aircraft organization—Commercial Station or with a Broadcaster.

Then again, your ideas may turn toward Television; the Talking Movies

There's really no substitute for the feel of actual parts and apparatus in your hands. Seeing a diagram or a picture is one thing—handling the material—actually working with it is another.

Get into whatever branch of Radio you may—you'll find tubes, con-



Set up in Outfit No. 5 for receiving Radio Signals. Consists of one stage of Radio frequency amplification, detector, and one stage of audio frequency amplification

and Sound Work. You may take service with one of the many Police Departments operating Radio Systems or be employed by any of the industrial organizations which utilize Radio in some manner or other.

It makes not the slightest difference what line you follow you'll be the better equipped for having studied the N. R. I. way. You'll thank N. R. I. many times for giving you practical apparatus to work with.

condensers, resistors, coils, transformers, etc., are still the important features—just as in your practical N. R. I. work.

So study—work—plug. You're out after Success. You want that Success as rapidly as possible. You're in Radio for the money it can give you—so put forth the effort—both on your lessons and the Practical apparatus which can carry you to your goal—SUCCESS IN RADIO.

# THIS EQUIPMENT GIVES YOU



Pictured above is the equipment supplied as Outfit No. 1

## OUT

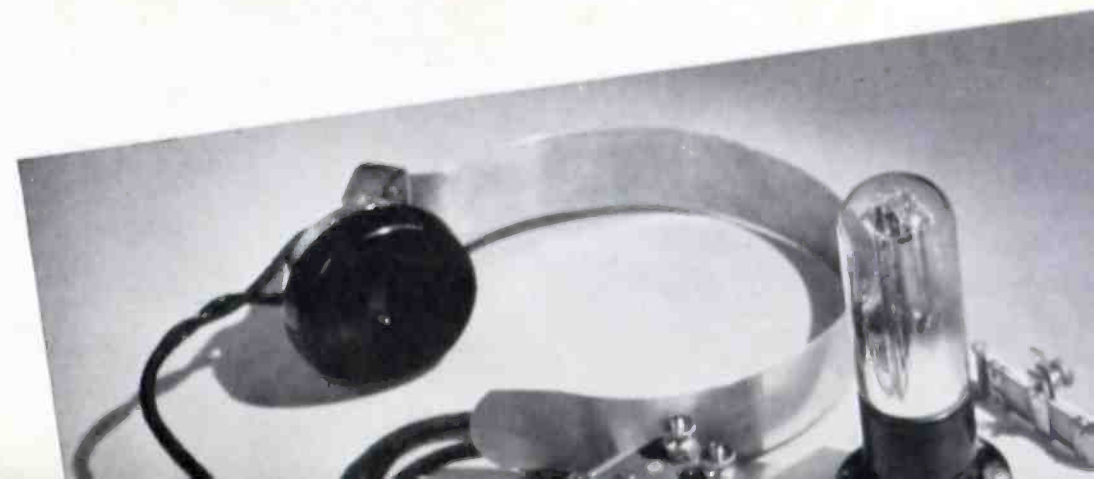
Electricity is the basis of Radio. This is our starting point on the Practical Work to be done with Electricity. We will experiment with it just enough to get the necessary electrical knowledge to understand Radio.

You'll find the experiments on the method and experimental generation of electricity very fascinating. They are simple but conclusive even though you have had previous experience or training you'll want to perform all of the tests because you're bound to learn something new.

## OUTFIT NUMBER 2

Radio in all its branches owes its present-day perfection and growth largely to one thing—and that is the vacuum tube.

The development of this little piece of apparatus is responsible not only for the Radio receivers in the home but also for Talking Moving Pictures, Television, Aircraft Radio, Transmitters, Public Address Systems, and all of the commercial applications of Radio principles.



# THIS EQUIPMENT GIVES YOU

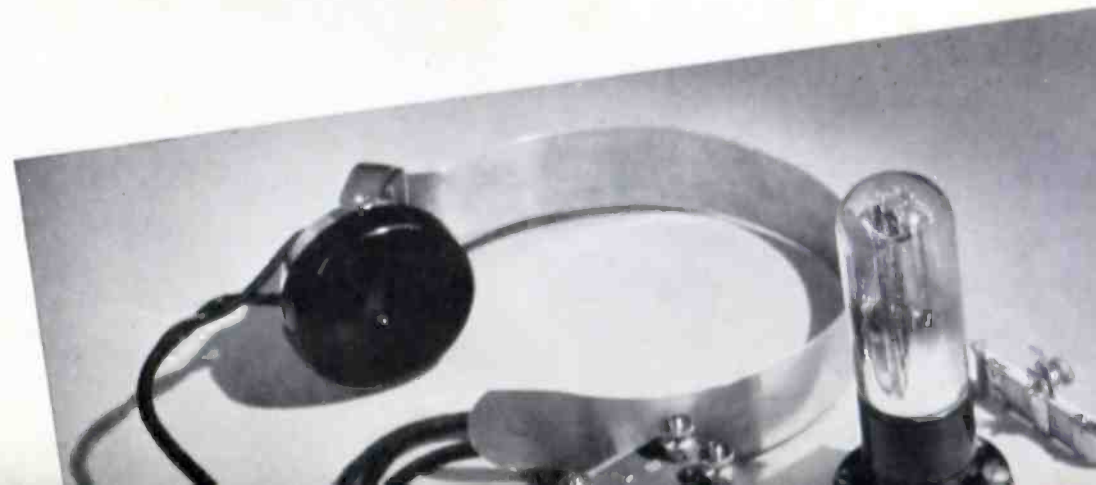


Pictured above is the equipment supplied as Outfit No. 1

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OUT

Electricity is the basis of Radio. This is our starting point on the Practical Work to be with Electricity. We will experiment with it just enough to get the necessary electrical knowledge to understand Radio.

You'll find the experiments on the meter and experimental generation of electricity fascinating. They are simple but conclusive even though you have had previous experience or training you'll want to perform the tests because you're bound to learn something new.

# DAD, PRACTICAL EXPERIENCE

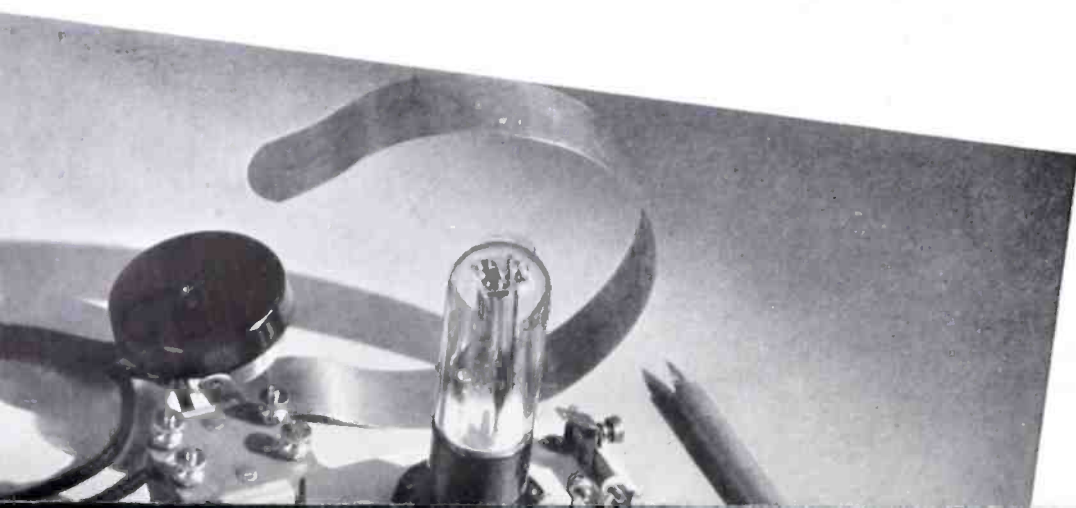
R 1

also have an opportunity to study, practical point of view, the difference between insulators and conductors—those materials that prevent or permit the flow of electric current. And then to round out the experiments with this practical Outfit you'll build a simple electro-magnet and a simple transformer.

Completion of practical Outfit No. 1 will give you a surprising amount of things that you will remember, too, because you have learned them in the proper way—part by theory and part by practice.



Above—Showing layout for test conducted with modulated oscillator and detector, Outfit No. 4



## OUTFIT NUMBER 4

Let us suppose that we wanted to send an extremely valuable piece of glassware to someone at a distant point. First, we would wrap it very carefully and then ship it in a padded carton. But upon its arrival at its destination it would be of absolutely no use or value until it was removed from its package.

This should enable us to understand conditions in the case of a modu-

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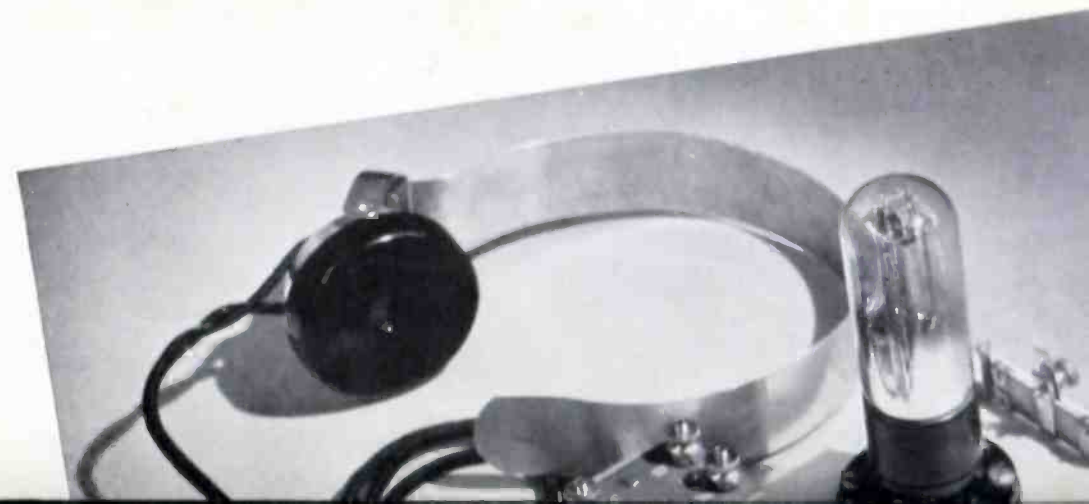
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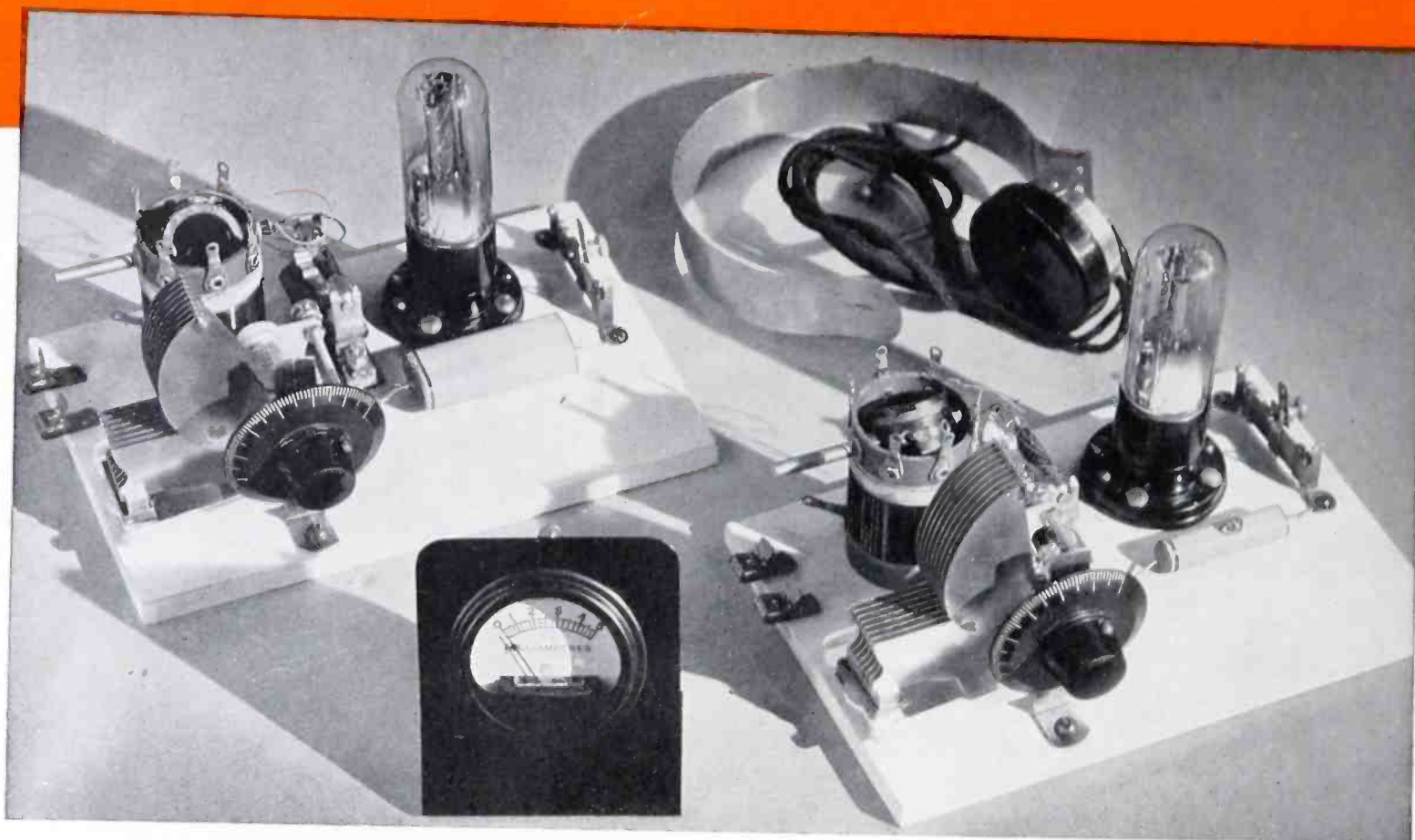


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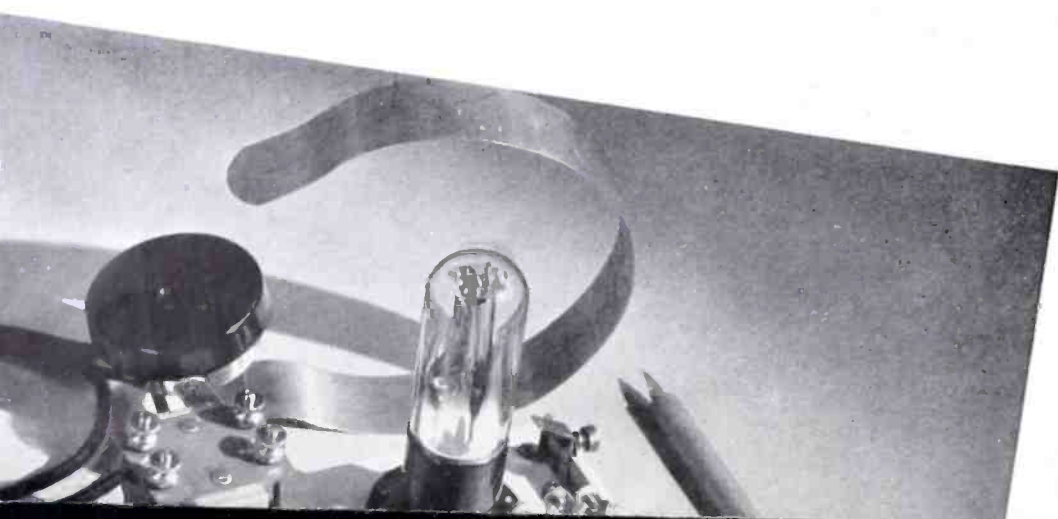
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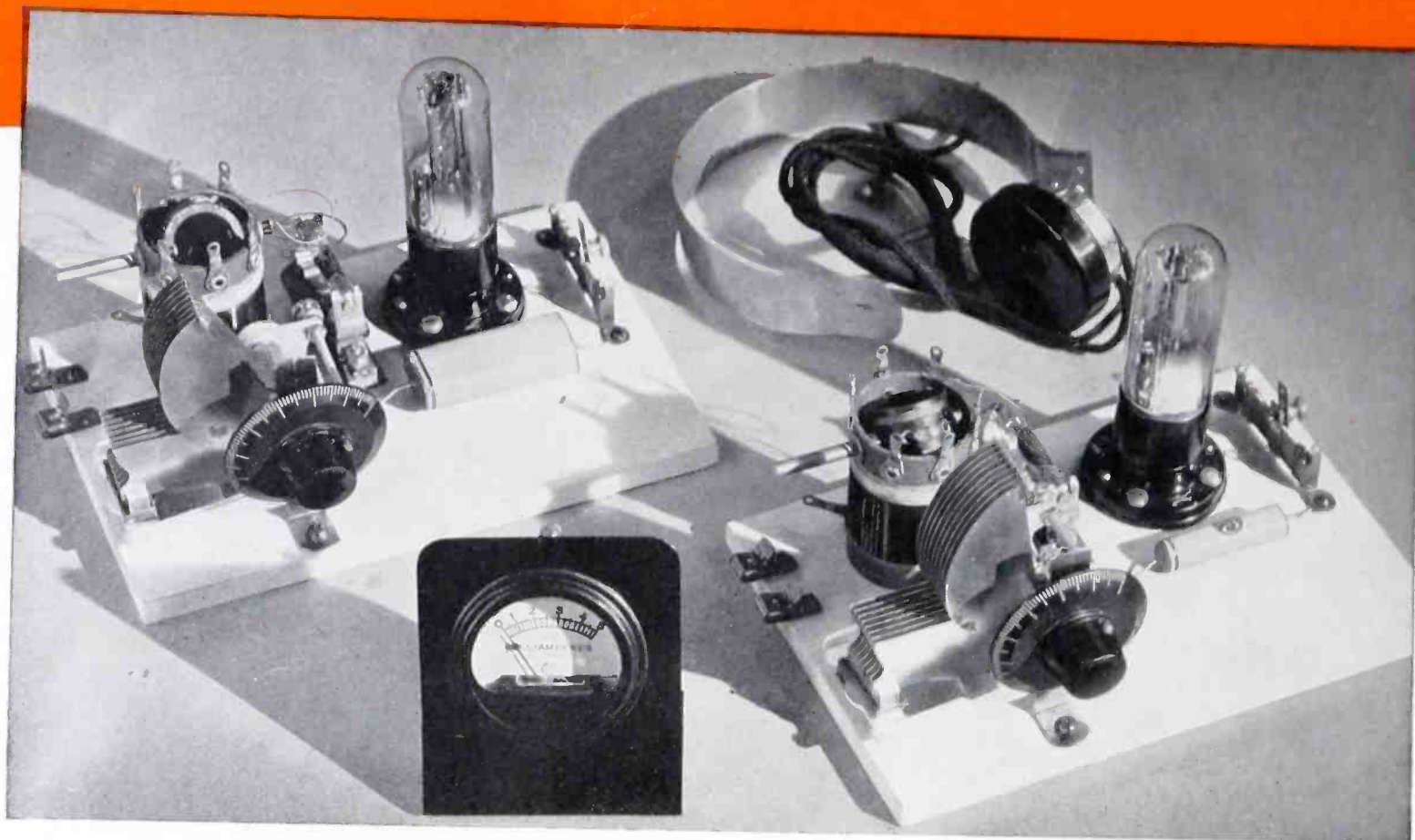
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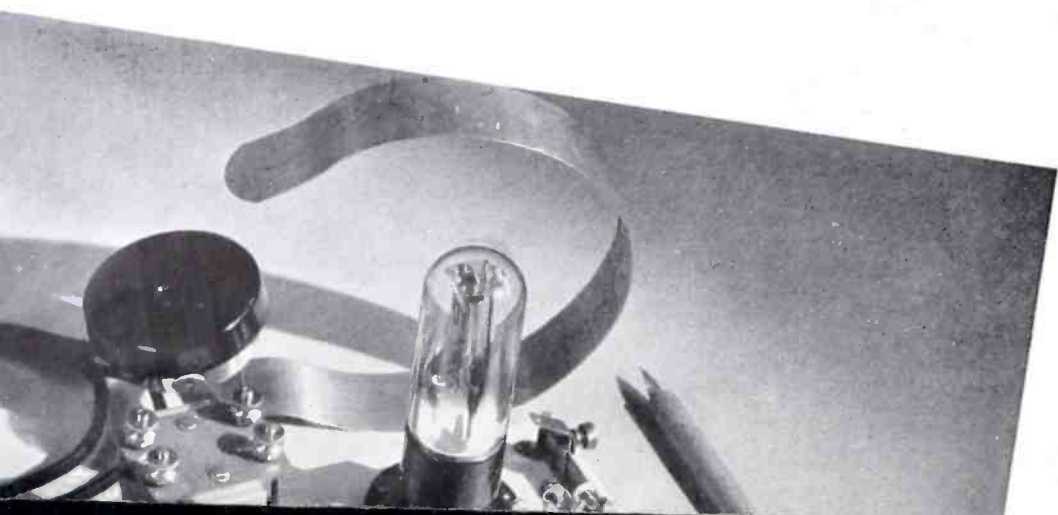
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