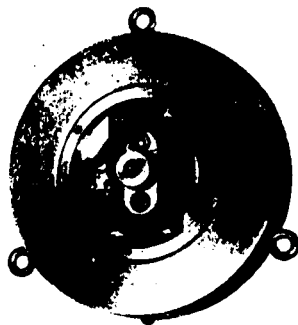


# Kellogg Broadcasting Equipment

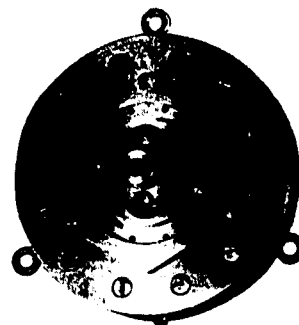
For Any Type of Transmission Service

## Kellogg No. 501 Microphone



Front View

A microphone is quite similar in construction to a telephone transmitter. Our experience in building transmitters and other delicate and sensitive telephone parts during the past third of a century naturally helped us to perfect an efficient microphone. Evidence of our success is quite apparent. Hundreds of Kellogg microphones in broadcasting stations all over the world are giving highly satisfactory service.



Rear View

In "line miles" the Kellogg microphone is known as about "forty miles down." This means that three stages of a power amplifier will bring the output of a Kellogg 501 microphone up to a volume the equal of the original expression, thus requiring power amplification before modulation in addition to push and pull amplification of a three stage amplifier. The current will produce best tone at 5 to 10 milliamperes per button. The battery milliammeter, and rheostat are placed in the third or cen-

ter leg of the microphone. There should be a total current through both buttons of not more than twenty milliamperes. A greater current than this must never be allowed to pass through the microphone. Excess current is the main cause of noisy microphones. It also introduces distortion without any appreciable gain in volume. Satisfactory results may be obtained with as low a current as five millies per button.

## The Construction of the No. 501 Microphone

The 501 microphone is ruggedly built into a brass frame which is machined to shape. The diaphragm is a special composition, carefully gold plated. Twelve screws are used on the reverse side of the frame for drawing the two sides of the frame together to stretch the diaphragm and pull it into its correct tension.

Two electrodes are provided, one on each side of the diaphragm. There is one cup containing carbon on each side of the diaphragm and the flanges of the cups are protected from the diaphragm by felt washers.

A collar is provided to help prevent damage to the diaphragm.

## Dimensions, Weight, Price, Etc.

Diameter  
4 in.

Weight  
2½ pounds

Finish  
Nickel plated

List Price  
\$100.00

Every microphone should be protected with a good stand, either of the desk or floor extension type. We supply both types.