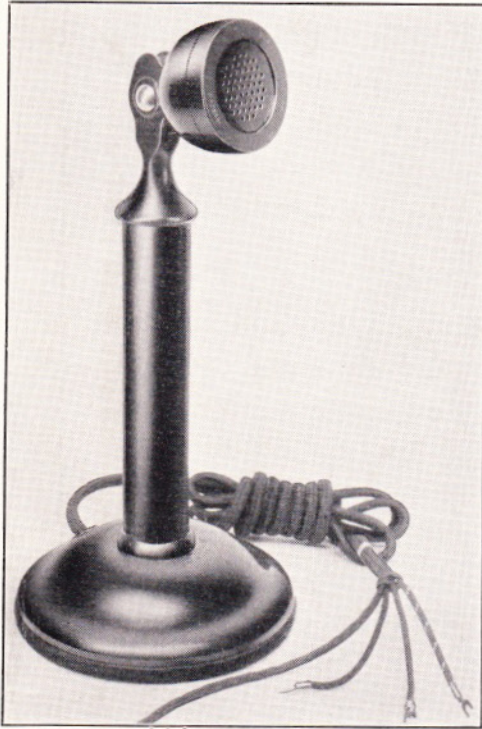


# DYNAMIC MICROPHONE

MICROPHONE

632A

*Western Electric*



## *for* SOUND SYSTEMS

**T**HE WESTERN ELECTRIC 632A Microphone meets the need for a low price dynamic microphone for close talking applications such as may be encountered in announcing and public address systems. In these fields particularly, the 632A has become increasingly useful because of its exceedingly quiet operation, absence of overloading, ruggedness and freedom from temperature and humidity effects.

The 632A Microphone employs a pressure unit similar in principle to that used in the well known Western Electric 618, 630, 633 and 639 Dynamic and Cardioid Directional Microphones, but designed so that its response is more suitable for close talking purposes. This pressure unit is housed in a black phenol plastic case and is terminated with two flexible cords brought out through holes in the rear of the case.

The 632A Microphone has an outside diameter of approximately  $2\frac{1}{8}$ " , a depth of  $2\frac{5}{8}$ " and weighs approximately 8 oz. The assembly is arranged to mount directly on the Western Electric 41CJ Desk Stand. Connections to the microphone then may be made by means of a 3 conductor, 6 foot D3N Cord.

For best results under close talking conditions, the Microphone has been designed to give a rising characteristic from 150 to 5000 cycles. The output level is approximately  $-80$  vu (0 level calibration 1 milliwatt). The impedance of the microphone is approximately 25 ohms; this low impedance permits the microphone to be used several hundred feet from its associated amplifier.

## *Western Electric*

**ARCHITECTS' AND ENGINEERS' SPECIFICATIONS**

This microphone shall be of the moving coil dynamic type with a voice coil impedance of  $25 \pm 2$  ohms and an output level of approximately -80 vu (0 level calibration 1 milliwatt). It shall consist of a pressure element 2-3/16" in diameter and 1-1/2" deep, weighing no more than 8 oz. and shall be assembled in a black phenol plastic case. The diaphragm shall consist of .0011" 52S Aluminum Co. of America alloy which shall be treated with an anodic finish on both sides and a chromate baking primer also on the outward side to resist corrosion.

It shall be ruggedly constructed and practically unaffected by humidity and temperature changes and as free as possible from the effects of wind when used outdoors. Means also shall be provided for equalizing the barometric pressure and for draining off the moisture caused by breath condensation.

The microphone shall be so constructed that the user will not come in contact with the electrical circuit when his lips touch the face of the instrument and the instrument shall be capable of withstanding a 500 volt breakdown voltage applied between parts designed to be insulated from each other.

The microphone in its case shall be capable of being mounted on the Western Electric 41CJ Desk Stand or equivalent, and shall be equipped with a 6 ft., three conductor cord, similar to the Western Electric D3N.

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