

# RCA NON-DIRECTIONAL DYNAMIC MICROPHONE

## Type SK-45B

### FEATURES

- Frequency response—70 to 12,000 cps
- Rugged construction
- Light weight, small in size
- Attractive appearance
- High or low impedance
- Dynamic type
- Excellent for announce work
- Swivel mounting

### USES

The Type SK-45B Non-Directional Dynamic Microphone is excellent for paging and public address work indoors or outdoors where a rugged, light weight microphone with good response to voice and music is required. It is admirably adapted to commercial and industrial sound installations and also suitable as a "close-talk" mike.

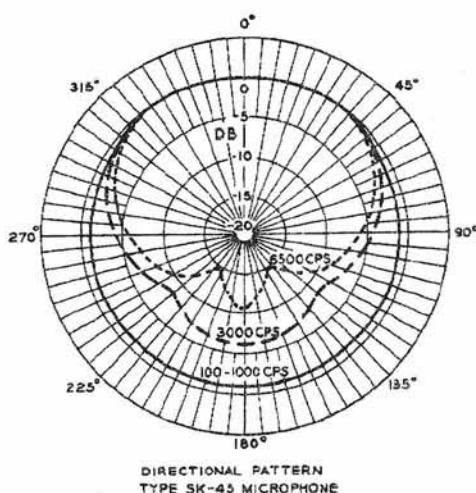
### DESCRIPTION

This microphone is a pressure operated microphone employing the dynamic principle. The moving element is a thin molded diaphragm. The wire voice coil which is held in the airgap of a strong permanent magnet generates a small voltage of the same wave form as the sound acting on the diaphragm. The wire is connected to the primary of a small, but efficient transformer, in order to provide an output voltage sufficiently high to allow the output to be fed directly to the grid of the first input tube. The 25-foot, two conductor shielded cable is connected permanently to the microphone.

The change from high to low impedance (or low to high) is easily accomplished by changing one soldered connection in the head of the microphone.



A swivel arrangement allows tilting of the head forward or back through an arc of approximately 45 degrees each side of the vertical position. New streamlined design, rugged construction and attractive baked TV gray enamel finish makes this microphone a welcome addition to any installation.



ELECTRONIC COMPONENTS AND DEVICES

HARRISON, NEW JERSEY

## THE MOST TRUSTED NAME IN SOUND



# SPECIFICATIONS

Directional Characteristics .....	Semi-Directional
Frequency Response .....	70 to 12,000 cps (see curve)
Output Impedance .....	200/15,000 ohms (200 as shipped)
Output Level (100 cps)	
a. 200 ohms	
Effective (10 dynes/cm <sup>2</sup> ) .....	-56 dbm
EIA-G <sub>m</sub> .....	-150 db
b. 15,000 ohms	
-58 db below 1 volt/dyne/cm <sup>2</sup>	
Hum Pickup (.001 gauss, 60 cps)	
a. 200 ohms .....	-106 dbm
b. 15,000 ohms .....	-88 db below 1 volt
Cable (attached) .....	25 ft., 2 conductor shielded, gray vinyl jacket
Mounting .....	Swivel mount, 5/8"-27 thread
Dimensions (overall) .....	5 1/2" high, 1 5/8" wide, 2" deep
Weight .....	1 lb. less cable
Finish .....	Satin chrome and low luster gray

## Ordering Information

Type SK-45B Microphone and Cable.....MA-2318

Information furnished by RCA is believed to be accurate and reliable. However, no responsibility is assumed by RCA for its use; nor for any infringements of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of RCA.

## Architects' and Engineers' Specifications

The microphone shall be an RCA SK-45B or equivalent pressure operated type employing the dynamic principle. Its pick-up characteristics shall be non-directional below 3000 cps and semi-directional above 3000 cps. The microphone shall have a frequency response 70 to 12,000 cps. Output impedance shall be approximately 200 ohms with provision for changing to 15,000 ohms. This microphone shall mount on any stand having a 5/8"-27 fixture thread. The head shall be capable of being tilted through an arc of 45 degrees forward or back from the vertical position. The microphone shall be supplied with 25 feet of 2-conductor shielded cable. Overall dimensions shall not exceed 5 1/2" in height, 1 5/8" in width, 2" in depth. Weight shall not exceed 1 pound less cable.

The following general characteristics shall apply:

Output Level (1000 cps)	
a. 200 ohms	
Effective (10 dynes/cm <sup>2</sup> ) .....	-56 dbm
EIA-G <sub>m</sub> .....	-150 db
b. 15,000 ohms	
-58 db below 1 volt/dyne/cm <sup>2</sup>	
Hum Pickup (.001 gauss, 60 cps)	
a. 200 ohms .....	-106 dbm
b. 15,000 ohms .....	-88 db below 1 volt

