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.

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.

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.
**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/cm²)...
  - EIA-Gm...
  - -106 dbm
  - -150 db
- b. 15,000 ohms
  - 58 db below 1 volt/dyne/cm²

**Hum Pickup (.001 gauss, 60 cps)**
- a. 200 ohms...
- 88 db below 1 volt
- 25 ft., 2 conductor shielded, gray vinyl jacket
- Swivel mount, 9/16-27 thread
- .512″ high, 1.5″ wide, 2″ deep
- 1 lb. less cable
- Satin chrome and low luster gray

**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 9/16-27 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 534″ in height, 1.5″ 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/cm²)...
  - EIA-Gm...
  - -106 dbm
  - -150 db
- b. 15,000 ohms
  - 58 db below 1 volt/dyne/cm²

**Hum Pickup (.001 gauss, 60 cps)**
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- 88 db below 1 volt
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**Ordering Information**

Type SK-45B Microphone and Cable...

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