USES
The RCA Type SK-46 Program Velocity Microphone is useful for AM, FM and TV studio or control room announcing. Its excellent response, directional characteristics and small size makes it a valuable and versatile instrument where quality production of sound is desired. The directional characteristics reduce unwanted acoustical background noise, reflections and feedback. This makes the microphone appropriate for "on stage", announce booth and general indoor programs. The microphone is not recommended for outdoor use because of the relative sensitivity of this type unit to wind.

DESCRIPTION
The SK-46 is a small light weight velocity microphone in which the moving element is a thin, corrugated metallic ribbon supported at the ends and placed between the poles of two small powerful magnets in a magnetic circuit. Because of its light weight, the motion of the ribbon corresponds very closely to the velocity of the air particles; therefore, the voltage generated by it is a faithful reproduction of the sound waves that traverse it. The ribbon is connected to the primary winding of a small efficient transformer whose secondary winding matches either 150-250 ohms or high impedance, as required. The change in impedance is easily accomplished by changing one soldered connection inside the microphone. A swivel arrangement permits tilting the microphone back approximately 85°. Pleasing functional design incorporating excellent performance and rugged construction, attractively finished in TV gray and satin chrome, makes this microphone a welcome addition to any installation. A two conductor shielded cable permanently attached to the microphone is connected for low impedance operation as stocked.
SPECIFICATIONS

Electrical Specifications

Directional Characteristics: Bi-directional

Output Impedance: 200 ohms and 15,000 ohms

Effective Output Level at 1000 cycles/second:
  Low Impedance: 
  GM: 
  High Impedance: -60 db below 1 volt

Hum Pickup Level:
  Low Impedance: 
  High Impedance: 

Frequency Range: 50 to 10,000 cycles/sec.

Output Voltage:
  Low Impedance: 117 µV/dyne/cm²
  High Impedance: 1020 µV/dyne/cm²

Mechanical Specifications

Mounting: 9/6-27 fixture thread

Dimensions:
  Height: 53/56”
  Width: 1 29/32”
  Depth: 1 13/16”

Finish: TV gray and satin chromium plated screen

Weight (less cable): 13 ounces

Equipment Supplied

Type SK-46 Program Velocity Microphone, 25-foot cable (less plug) and Instructions (18-24885): MI-12046

* Stock with soldered connection to the 200 ohm tap.
† Relative to field of 1 x 10⁻⁸ gauss.

RADIO CORPORATION OF AMERICA
Broadcast Equipment
Camden, N. J.