HAND HELD CERAMIC COMMUNICATIONS MICROPHONE

Microphone Features:
- Highly intelligible voice response
- Reliable, high-output ceramic cartridge
- Tough, rubber-jacketed, four-conductor coiled cable
- Rugged ARMO-DUR case
- Mounting bracket supplied — fits hang-up button on microphone

CONNECTIONS

The Model 201 is a high-impedance microphone with a double-pole single-throw slide switch to control the microphone circuit and an external relay or switching circuit. The cable is a three-conductor, one conductor shielded, coiled cord. Added cable length will be accompanied by a decrease in output, although no frequency discrimination will be introduced.

The internal connections of the Model 201 are shown in Figure 1. Connect the cable leads as follows:

- WHITE to the high-impedance audio input circuit
- SHIELD to chassis or circuit ground
- RED and BLACK to the relay or switching circuit.

GENERAL

The Model 201 communications microphone is a pressure-actuated diaphragm type, ceramic microphone. It was designed for clear, crisp, natural voice reproduction of high intelligibility. The microphone is recommended for all types of mobile communications, such as police, fire, utility, forestry, and transportation services, including fixed station, amateur, Citizens Band, and any other applications where a rugged hand held microphone is required.

Model 201 is relatively immune to adverse temperature and humidity, and it will operate in temperatures to 71°C (160°F). The microphone is high impedance with omnidirectional polar characteristics.

Model 201 is equipped with a heavy duty push-to-talk switch to control the microphone circuit and an external relay or switching circuit.

The microphone fits naturally and comfortably in the hand. The exclusive ARMO-DUR® case is immune to oil, grease, fumes, salt spray, sun, rust, and corrosion — and is outstanding in its ability to resist mechanical shocks and vibration. It is designed to withstand rigorous operating conditions and constant use.

INTERNAL CONNECTIONS

FIGURE 1

OPERATION

No polarizing voltage is required for ceramic microphones. Ceramic microphones may be seriously damaged if accidentally connected to loudspeaker or power supply outlets carrying high voltage. Check your connections carefully. When used near a radio transmitter, keep the cable to the minimum length consistent with placement requirements.

Model 201 will operate satisfactorily under all ordinary conditions of humidity, heat, and cold. Severe mechanical shocks, such as dropping the microphone, should be avoided.
SPECIFICATIONS

Type
Ceramic

Frequency Response
200 to 4,000 Hz

Polar Pattern
Omnidirectional

Internal Impedance
Equivalent to 1200 pF

Load Impedance Range
Minimum: 1 megohm
Recommended: 5 megohms

Output Level (at 1,000 Hz)
Open Circuit Voltage .............. −12.0 dB (0.25V)
(0 dB = 1 volt per 100 microbars)

Switch
Push-to-talk switch to actuate microphone circuit
and relay or switching circuit. Microphone circuit
normally closed.

Cable
1.7m (5½ ft) extended, three-conductor, one con-
ductor shielded, coiled cable. 1,000 pF capacitance.

Case
Blue ARMO-DUR®

Dimensions
See Figure 2

Net Weight
283 grams (10 oz)

Packaged Weight
425 grams (15 oz)

MOUNTING

A mounting bracket for permanent installation is
supplied with the microphone (see Figure 3)

FURNISHED ACCESSORY
Mounting Bracket ...................... RK6MB

REPLACEMENT PARTS
Cartridge .............................. R3
Cable .................................. C20C
Case Assembly ......................... RK94C
On-Off Switch Assembly ............ RK9S5H
Switch Button ......................... 65A189A

GUARANTEE

This Shure product is guaranteed in normal use to
be free from electrical and mechanical defects for a
period of one year from date of purchase. Please
retain proof of purchase date. This guarantee includes
all parts and labor. This guarantee is in lieu of any
and all other guarantees or warranties, express or
implied, and there shall be no recovery for any con-
sequential or incidental damages.

SHIPPING INSTRUCTIONS

Carefully repack the unit and return it prepaid to:
Shure Brothers Incorporated
Attention: Service Department
1501 West Shure Drive
Arlington Heights, Illinois 60004

If outside the United States, return the unit to your
dealer or Authorized Shure Service Center for repair.
The unit will be returned to you prepaid.