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Shure Model 202 Microphone

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**SHURE**

222 HARTREY AVE., EVANSTON, IL. 60204 U.S.A.

MICROPHONES AND ELECTRONIC COMPONENTS

AREA CODE 312/328-9000 • CABLE: SHUREMICRO

**DATA SHEET****MODEL 202 PALM MICROPHONE****CERAMIC NOISE CANCELLING COMMUNICATIONS MICROPHONE****SPECIFICATIONS****Frequency Response Characteristics:**

Smooth and uniform from 200 to 4,000 hertz. Free from undesirable peaks. Effective response range, ideal for clear, natural voice reproduction.

**Noise Discrimination:** Superior to Standard Ceramic Communications Microphones.

**Voltage Sensitivity:** 2.93 Millivolts per microbar at end of attached cable across 1 to 5 megohms at 1,000 cps. (This is equivalent to 50.5 db below 1 volt per microbar.)

**Recommended Load Impedance:** 1 to 5 megohms.

**Cable:** Attached 3 conductor (1 conductor shielded) retractable cable that extends to 5 feet (1.5 m).

**Finish:** Gray high impact "Armo-Dur" case.

**Dimensions:** See Figure A.

**Weight:** Net Weight—10 ounces (283.5 g). Packaged Weight—15 ounces (425 g).

**General:** The Model 202 Noise Cancelling Communications Microphone is designed to provide clear, crisp natural voice reproduction of high intelligibility and to provide discrimination against unwanted background noise. The noise reducing characteristics are obtained by installing a specially designed internal ceramic cartridge into a case with carefully located apertures. The Model 202 is relatively immune to adverse temperature and humidity conditions and will operate in ambient temperatures of 160° F.

The microphone fits naturally and comfortably in the palm of the hand, retaining a natural feel when the weather varies from hot to cold. The sturdy, high-impact case is light and compact and takes minimum space in portable equipment.

The Model 202 Microphone is equipped with a heavy duty push-to-talk (non-locking) switch, designed to withstand severe operating conditions and constant usage.

**Applications:** The Model 202 Microphone is especially recommended for all types of mobile communications, as in the Police, Fire, Utility, Forestry, Transportation services, including fixed station, amateur, Citizens Band, and other applications where a rugged hand microphone is required. The frequency response is designed to produce a clear, natural, voice response.



**Operation:** No polarizing voltage is required for ceramic microphones.

Ceramic microphones may be seriously damaged if accidentally connected to loud speaker or power supply outlets carrying high voltage. Check your connections carefully.

When used near a radio transmitter, use the minimum length of cable consistent with placement requirements. Careful grounding of the cable shield is advisable.

The Model 202, as supplied, has a switch which is a momentary contact (non-locking) type. For use, grasp microphone in the palm of the hand and activate push-to-talk switch with fingers.

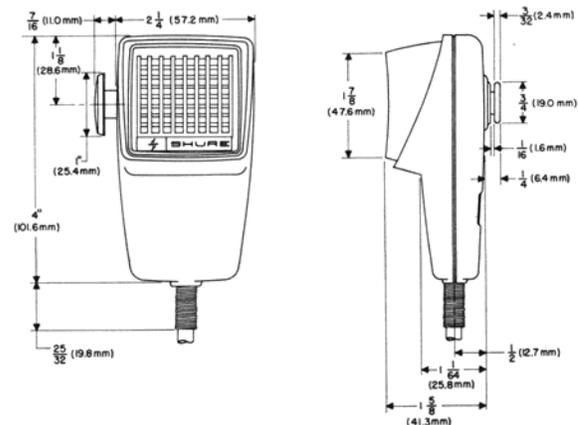


FIGURE A

**Installation:** The microphone is provided with a bracket for a permanent placement with the associated equipment. The bracket has mounting holes with clearance for No. 8 screws. (See Figure C.)

**Connections:** The internal switch and cable connections of the Model 202 Microphone are shown in Figure B. Using the microphone as supplied, the push-to-talk switch operates both the microphone circuit and an external relay or control circuit. Connect red and black leads of microphone cable to the proper input or terminals controlling the relay or control circuit of the equipment. (See Equipment Manual.)

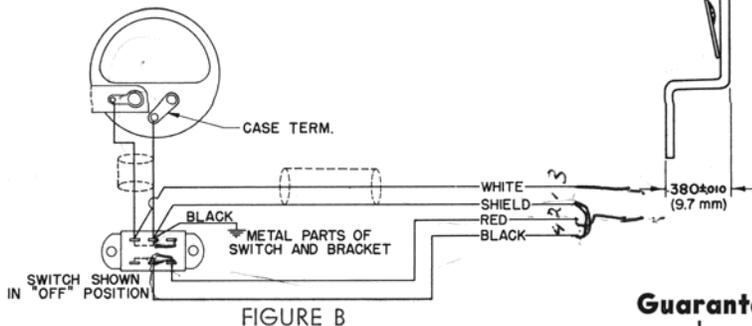


FIGURE B

Connect the white or "hot" lead (shielded conductor) of the microphone cable to the proper high impedance input of the equipment, or to the capacitor feeding the grid of the first tube in the microphone amplifier, across a load resistance of 5 megohms. Input resistance as low as 1 megohm may be used, if necessary, to reduce low frequency response.

The shield should be connected to the amplifier chassis or ground. The shield, chassis or amplifier ground should be securely grounded to the water pipe (fixed station equipment) or amplifier ground to prevent shock hazard during operation of the amplifying system. Added

length of connecting cable will be accompanied by a decrease in output level. There is no frequency discrimination introduced by the capacity of the shielded conductor in the cable, regardless of length.

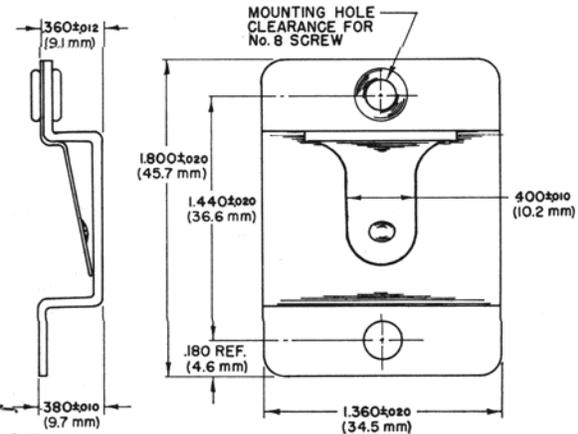


FIGURE C

**Guarantee:** This Shure product is guaranteed in normal use to be free from electrical and mechanical defects for a period of one year from the date of purchase. Please retain proof of purchase date. This guarantee includes all parts and labor.

**Shipping Instructions:** Carefully repack the unit and return it prepaid to the factory. 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.

**Patent Notice:** Manufactured under U.S. Patent D194,749.