

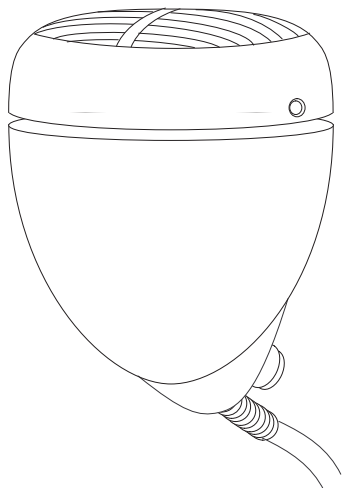


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## 520DX HARMONICA MICROPHONE

## Specification Sheet



### GENERAL

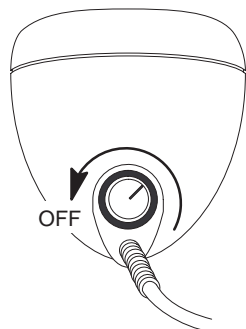
Contoured to fit comfortably in the palm of your hand, the Model 520DX "Green Bullet" microphone produces the unique sound that has made it a legend among harmonica players.

The 520DX features a volume control knob at the base of the microphone (see Figure 1) that allows musicians to make adjustments to suit their needs during a live performance. An attached cable with a standard 1/4-inch phone plug allows the microphone to be connected to a high-impedance device.

### APPLICATIONS

Connect the 520DX directly into a guitar amplifier to produce the classic blues harp sound.

### VOLUME CONTROL



VOLUME CONTROL KNOB  
 FIGURE 1

### LOW IMPEDANCE

To connect the 520DX to a low impedance device, such as a mixer, use a low-to-high impedance-matching line transformer, such as the Shure model A95U.

**NOTE:** The 520DX can be rewired for low impedance, but this disables the volume control. Contact the Shure Applications Group at (847) 866-2525 for more information.

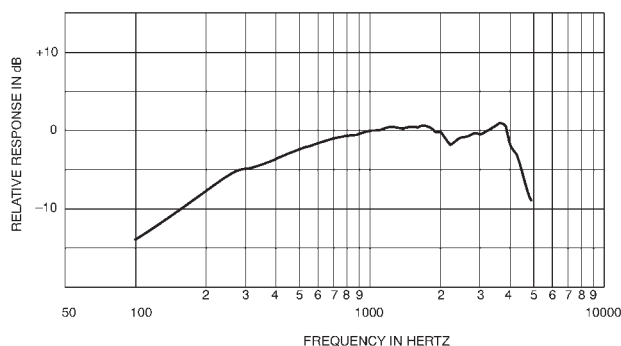
### SPECIFICATIONS

#### Type

Dynamic

#### Frequency Response

100 to 5,000 Hz (Figure 2)



TYPICAL FREQUENCY RESPONSE  
 FIGURE 2

#### Polar Pattern

Omnidirectional

#### Impedance

High, unbalanced

#### Load Impedance Range

Minimum: 100 kΩ

#### Output Level (at 1,000 Hz)

Open Circuit Voltage . . . . . -54.0 dB (2.0 mV)\*

\*0 dB = 1 volt per microbar

#### Polarity

Positive sound pressure on diaphragm produces positive voltage on tip with respect to sleeve (ground) of microphone output phone plug connector

#### Cable

6.1 m (20 ft) two conductor shielded with standard 1/4-inch phone plug attached (supplied wired for high-impedance, unbalanced connection)

#### Case

Green and chrome finished die casting

**Dimensions**

62.7 mm ( $2\frac{25}{32}$  in.) diameter, 82.6 mm ( $3\frac{1}{4}$  in.) long

**Net Weight (with cable)**

737 grams (26 oz)

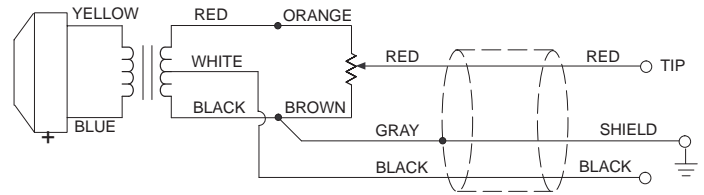
**Certification**

Conforms to European Union directives, eligible to bear CE marking; meets European Union EMC Immunity Requirements (EN 50 082-1, 1992); RF radiated (IEC 801-3); ESD (IEC 801-2); EFT (IEC 801-4).

**CONNECTIONS**

The RED lead is the high-impedance audio output; the SHIELD is the audio return and case ground.

The Model 520DX Green Bullet Microphone is supplied wired for high-impedance, unbalanced operation with the 1/4-inch phone plug (Figure 3).



INTERNAL CONNECTIONS:  
UNBALANCED HIGH-IMPEDANCE OUTPUT  
**FIGURE 3**