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.

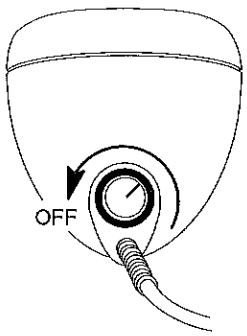
APPLICATIONS

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

- The volume control on the microphone should be turned down before plugging it into an amplifier. As you move away from the amplifier, the volume can be turned up.
- Adjust the microphone's volume control knob during performances as needed. For example, when switching from playing rhythm to lead or to place the microphone on standby between sets.
- To avoid feedback, maintain as much distance as possible from monitors or loudspeakers. Adjust the volume of monitors or loudspeakers at the mixing console so that no feedback is present when the volume control knob on the harmonica microphone is at its maximum setting.

NOTE: The volume setting of the guitar amplifier may have a significant effect on the overall tone produced. Experiment with different microphone and amplifier volume settings to achieve the desired effect.

VOLUME CONTROL



VOLUME CONTROL KNOB
FIGURE 1

LOW IMPEDANCE

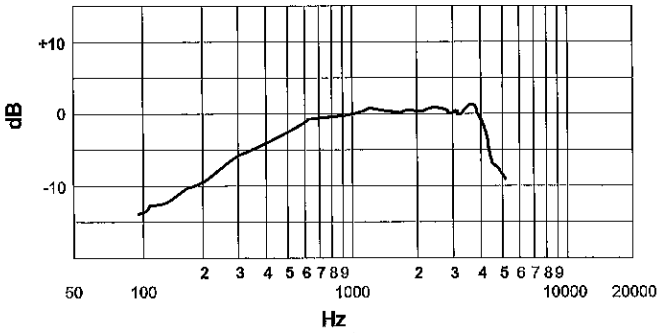
To connect the 520DX to a low impedance device, such as a mixer, use a low-to-high impedance-matching line transformer, such as the Shure model A95U.

NOTE: The 520DX can be rewired for low impedance, but this disables the volume control. Contact the Shure Applications Group at (847) 600-8440 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 –38.0 dBV/Pa (13 mV)*
*1 Pa = 94 dB SPL

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
63 mm (2.5 in) max diameter, 82.6 mm (3 1/4 in) long

Net Weight (with cable)
737 grams (26 oz)