



## PRODUCT MANUAL

# ACCORDION MICROPHONE SYSTEM

This system consists of 3 miniature gooseneck mics (one single and one twin) and a dual channel preamp especially designed for use with miniature microphones.

Two mics are connected to one ¼" plug. These twin mics are for the treble side. Another single mic with ¼" plug is for the bass side of the accordion.

The mics should be mounted with the self-adhesive dual-lock fastening system attached to the base of their goosenecks. This dual-lock is like industrial-strength "Velcro" -- it will never wear out and can be opened and closed repeatedly. The adhesive surface is only good for one application, though.

**Tip:** The adhesive on the dual-lock is very strong and its residue may be difficult to remove, especially when the dual lock has been on the accordion for a long time. You can stick a piece of duct tape or masking tape to the instrument first and then attach the dual lock to the tape. The adhesion is not as strong this way, but it can easily be removed. Goo-Gone (check your hardware store) or WD40 is a good solvent to remove residue without damaging the finish of the instrument.

## ATTACHING THE MICS

### TREBLE MICS

One on the upper and the other one on the lower end of the treble grill. Both mics are technically identical but they have different cable lengths. Position the mic with the longer cable in the upper position (which are the lower tone keys) and the one with the shorter cable on the higher key position. You may have to experiment to find the best locations. We recommend aiming the mics towards the grill with about 2" distance between mic head and grill. Mount them in a way that the mic heads end up being about 10 to 12 inches apart.

Plug the treble mics into INPUT 1 of the preamp.

### BASS MIC

On the lower edge of the bass side, also pointing towards the grill with about 3" distance. Make sure that it is not in the way of your hand.

Plug the bass mic into INPUT 2 of the preamp.

## PREAMP

Before first use, please insert a 9-volt battery in the preamp. Open the access screw on the side of the box and remove the lid. Insert battery into designated compartment.

This preamp is a small but powerful mixer in a belt clip box. It is designed for mixing the melody and bass side of your accordion system together into 1 output. It offers volume, gain and 3-band EQ for each channel.

The tone controls feature an extended range of +/- 20 dB, which exceeds many mixers on the market today. To keep the box as small as possible, the gain and tone controls are trim pots inside the unit (small potentiometers for adjustment with a supplied tiny screwdriver).

The EQ trim pots are in linear position (no cut or boost) when the white arrow points to a center position. Please keep in mind that the midrange trimmers, as opposed to the bass and treble trimmers, are oriented 90 degrees clockwise

The **gain** trimmers set the degree of pre-amplification on the input of the circuit. They act like volume controls but if they are set too high, distortion may occur. (**Note:** The lowest (counterclockwise) setting does not shut the channel off. It is the lowest available gain setting.) We recommend you use the gain trimmers to balance the two channels so that when you turn both thumbwheel volume controls to full, you have each channel at your maximum desired volume. From there you can blend the two channels in any way you desire.

We factory preset these trimmers, but this setting will likely not be perfect for your instrument. In order to perform the sound adjustments properly, please use a good quality PA system (if possible). Connect the mics into the corresponding inputs of the preamp and connect the preamps output via a mono 1/4" instrument cable with the mixing board. Set the mixing boards EQ to a flat (center) setting first.

A combo amp can also be used but due to different tonal characters of the different models it makes it quite hard to determine a good neutral EQ setting to start with. Use a PA if possible.

Adjust the gain trim pots of each individual channel on the preamp until both channels yield about the same loudness. The treble side may need to be adjusted higher in gain as the bass side.

The initial adjustment procedure will take some trial and error so please be patient and do not hesitate to experiment with EQ and with your position in relation to the speakers.

If you experience feedback even when standing away from the speakers, you have to determine if it is a high- or low-frequency feedback. If it is high frequency you have to turn down the treble EQ's. If it is a low frequency feedback, turn down the bass EQ's. You may also have to find out if the feedback is coming from the melody or bass side and adjust accordingly.

Feedback control adjustment can either be done on the preamp or on the amp or mixing board but we recommend to EQ the preamp so it provides a signal as clean and balanced as possible with a flat EQ setting on a good quality PA system.

Once you found your personal setting, close the lid and you are ready to go. Usually the EQ in the preamp has to be adjusted initially just once to balance the mics in respect to your accordion and PA or amp you are using.

After this initial setup you will just use the 2 volume pots on the outside to balance the volume accordingly.

To switch the battery off, always unplug the OUTPUT on the preamp



## TECHNICAL DATA

Frequency response: 10 30,000 Hz

Inputs: 1 Mega Ohm

Output: 10 Kilo Ohm

Battery consumption: 3 Milli Amp about 60 hours