

# **PROGRAMMABLE ELECTRONIC BAGPIPES**

**WITH AUTO HARMONY FEATURE**

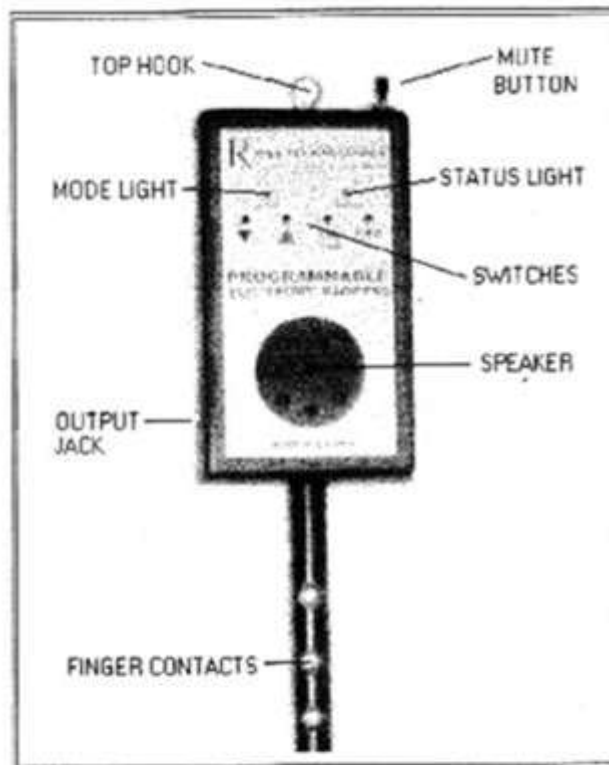


**ROSS TECHNOLOGIES**



# ELECTRONIC BAGPIPES

## CONTROL LAYOUT



# ELECTRONIC BAGPIPES

## GENERAL DESCRIPTION

The *Ross Technologies* Programmable Electronic Bagpipes are an affordable, high quality digital instrument, equally suitable for use as a convenient practice chanter or, with an amplifier for live performance.

The notes are played in a very realistic manner, by covering electronic touch sensors, positioned to exactly match the finger spacing of a regular pipe chanter.

The unit may be programmed to play in the regular bagpipe key of "b-flat", or one of seven different keys, to match the pitch of other instruments - all by simply playing the desired key on the finger holes ie: all holes covered for the key of "g".

The pipes may also be set to play an automatic harmony accompaniment (seconds) if desired.

The unit may be easily configured to turn on with or without drones, and will save the last volume setting used. They will also automatically shut down after a period of non-use to conserve battery power.

# ELECTRONIC BAGPIPES

## REGULAR OPERATING INSTRUCTIONS

- 1) Press the **ON/FCN** button
- 2) During an approximately 3 second delay, the green *STATUS* light will blink rapidly, followed by a short "beep".
- 3) At the "beep" sound, whatever note is being 'played' on the chanter will determine the playing key for the current session. Example: playing 'E' will put the unit into the key of "E". Playing Bb A (or no fingers on the chanter) will place the unit in the default bagpipe key of "b-flat".
- 4) The unit will now be placed in MUTE mode, with the green *STATUS* light illuminated.
- 5) Pressing the top **MUTE** switch will place the unit in PLAY mode, with the chanter sounding, and the green *MODE* and *STATUS* lights off.
- 6) Pressing the ▲ or ▼ buttons will increase or decrease the volume level.
- 7) Playing may be paused by pressing the top **MUTE** switch, which will again place the unit in MUTE mode, with the green *STATUS* light illuminated {step 4}
- 8) Pressing the **OFF** button at any time will turn the unit off.  
Note - If the unit is left on for approximately 2 minutes without playing,, it will turn off automatically to extend the battery life.

This is all you need to know to play the basic *Highland Bagpipe* sound in the key of Bb. To learn more about the advanced features, please read on.....

# ELECTRONIC BAGPIPES

## TO PLAY WITHOUT DRONES

- 1) While Turning the unit on, hold the top **MUTE** button (press BOTH **ON/FCN** and **MUTE**).
- 2) The unit will start up, and the drones will be off for the current playing session.

## TO PLAY WITH HARMONY

- 1) Anytime the pipes are playing, automatic Harmony (or "Seconds") can be activated by pressing the **ON/FCN** button. The green *MODE* light will be on.
- 2) Pressing the **ON/FCN** button again during play will turn off the automatic Harmony.

## VOLUME

The volume level may be changed any time the unit is powered up, while playing or in mute mode. The last setting at power-off is saved for the next startup. If it is set to zero, you will not hear the startup "beep". Simply increase the volume by pressing the ▲ button to return to normal operation.

## LOW BATTERY

When the battery is at the end of its' useful life, the unit will shut down automatically. This will first occur at higher volume settings, when the power draw is higher. Replace the battery with a fresh ALKALINE nine volt battery to resume normal operation.

# **ELECTRONIC BAGPIPES**

## **TROUBLESHOOTING**

The most common problem which may be encountered when first using the Programmable Electronic Bagpipes is the "skipping" of notes (i.e. when playing down the scale, jumping from C, for example to Low A without sounding the B), or simply not being able to sound certain notes. This is caused by having particularly dry skin, which raises your natural skin resistance, and causes difficulty in sensing if your fingers are actually covering the holes. The remedy is to simply wash your hands to moisten them, and thus lower your skin resistance.

## **PLAYING WITH HEADPHONES**

When playing with headphones, it is recommended that the drones be disabled by pressing and holding the **MUTE** (top) pushbutton while powering the unit up. This will yield a cleaner sound, hi-lighting any crossing noises, for more accurate practice. Be sure to use a 3.5mm (1/8"), 3- conductor (STEREO) headphone. A 2-conductor (MONO) will not work properly.

# ELECTRONIC BAGPIPES

## SPECIFICATIONS

- Battery 9 Volt (Alkaline Recommended)
- Output 3.5mm 3-Conductor Jack  
For headphones or amp.
- Size 142 x 84 x 38 mm  
Chanter tube 255 mm

## FREQUENCY

<i>KEY</i>	<i>LoA=</i>
E	330Hz
F	349Hz
G	392Hz
A	440Hz
B flat *	468Hz
B	494Hz
C	523Hz
D	587Hz

\* B flat = Regular Bagpipe Key of A<sub>2</sub>=470Hz

# Certificate of Warranty

Thank you for purchasing a quality Ross Technologies product.

Your new Programmable Electronic Bagpipes are guaranteed to be free of defects for a period of 90 days after the date of purchase.

In the unlikely event of a warranty claim, carefully package your instrument and return it with proof of purchase, prepaid to the point of sale.

This Warranty excludes accidental damage, batteries, battery leakage and misuse.

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S/N: \_\_\_\_\_

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