NEW
PROGRAMMABLE
ELECTRONIC
BAGPIPES

WITH MULTIPLE INSTRUMENT SOUNDS
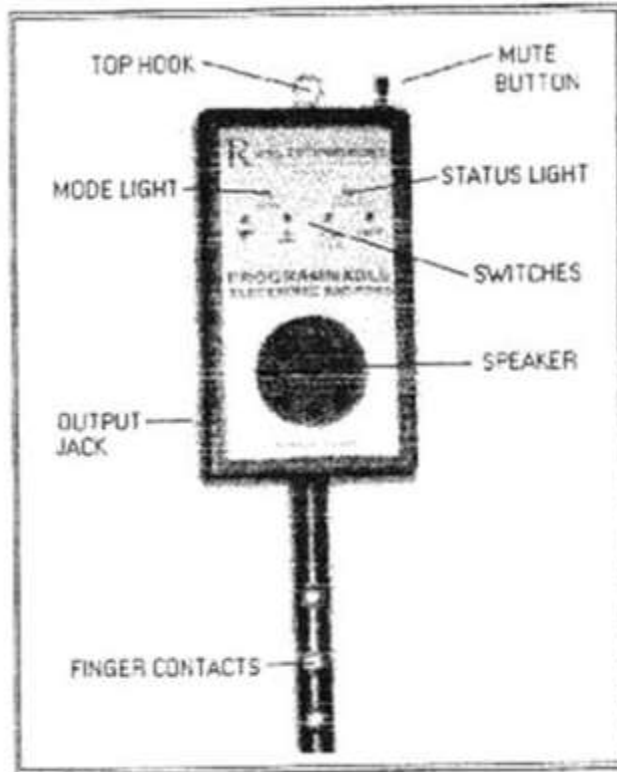
ROSS TECHNOLOGIES

ELECTRONIC BAGPIPES

CONTROL LAYOUT

TOP HOOK — | — MUTE BUTTON

MODE LIGHT — | — STATUS LIGHT

— SWITCHES

— SPEAKER

OUTPUT JACK —

FINGER CONTACTS —

ELECTRONIC BAGPIPES

GENERAL DESCRIPTION

The Brand new *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.

In addition to the standard *Highland Bagpipe* sound, you can
choose from one of several instruments such as *Uillean Pipes,
Whistle, Accordian, Bells, Piano, Strings and Organ.*

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 unit may be easily configured to turn on with your preferred
volume, instrument and key settings if desired, and will
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) The red *MODE* light will flash for approximately 3 seconds, followed by a single short "beep"

3) At the "beep", 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 Hi 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 red *MODE* light illuminated.

5) Pressing the top **MUTE** switch will place the unit in PLAY mode, with the chanter sounding, and the red *MODE* and *STATUS* lights off.

6) During playing, 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 red *MODE* 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 B♭. To learn more about the advanced features, please read on........

ELECTRONIC BAGPIPES

ADVANCED INSTRUCTIONS

INSTRUMENT SETTING

1) When the unit is in MUTE mode, with the red *MODE* light illuminated, pressing the ▲ or ▼ buttons will cycle through all 8 available instruments, with the chanter beeping out the instrument number.

2) Pressing the top **MUTE** button will again place the unit in MUTE mode, with the red *MODE* light on.

INSTRUMENT LIST

1	HIGHLAND BAGPIPES *
2	UILLEAN PIPES *
3	WHISTLE
4	ACCORDIAN
5	STRINGS
6	PIANO
7	BELLS
8	ORGAN

With Drones*

ELECTRONIC BAGPIPES

ADVANCED INSTRUCTIONS

HARMONY

At any time during PLAYING MODE, automatic Harmony (or 'Seconds') can be activated by pressing the **ON/FCN** button. Pressing the **ON/FCN** button again will turn off the automatic Harmony.

PLAY WITHOUT DRONES

1) While turning unit on, hold the top **MUTE** button.
2) The unit will start up, and the drones will be off for the current playing session only.

KEY CHART

CHANTER	LoG	LoA	B	C	D	E	F	HiG	HiA
PLAYING KEY	G	A	B	C	D	E	F	G	B♭
LoA Frequency	392	440	494	523	587	330	349	392	467hz

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CUSTOM USER SETTINGS

SAVE KEY SETTING

1) While turning the unit on, hold both the ▲ button AND the top **MUTE** button.

2) After a 1 second delay, the unit will play a 'futuristic' rising pitch sound instead of the usual startup tune, followed by a "ring" sound

3) The unit will now be in MUTE mode, with the red *MODE* light illuminated.

4) Play unit normally.

5) When the unit is turned on again, the introduction tune will be replaced by the "futuristic" rising pitch sound.

6) At the "ring" sound, whatever note is being 'played' on the chanter will determine the playing key. Example: playing 'E' will put the unit into the key of "E".

7) This key will now be saved in memory, and the pipes will turn on in this key from now on unless it is changed by steps 8 or 9 below.

8) CHANGING PLAYING KEY - at startup play any key other than HiA during the ring sound. This will now lock in a new playing key. Note- Playing HiA will keep the original saved key.

9) --OR-- Erase the setting (and go back to the ordinary introduction tune) by reverting to the *factory default settings* covered later.

ELECTRONIC BAGPIPES

To Save Preferred Settings (Cont'd.)

10)   A "futuristic" falling pitch, followed by a "ring" sound will occur, indicating that your preferred values have been saved.

11)   After a short pause, the unit will restart normally, and will play with your saved instrument, volume and key settings.

Playing With Preferred Settings

When there are preferred settings saved, the *MODE* light will be lit in MUTE MODE. At startup, as long as you don't play a note (or play HiA) the unit will turn on with your preset key setting. Playing any other note at the "ring" sound will cause the unit to play in the corresponding key for the current session only.

FACTORY DEFAULT SETTINGS

1)   While turning the unit on, hold the ▲ button AND the ▼ button.

2)   The unit will turn on with the *factory default settings*, which are:

Instrument	Highland Bagpipes
Key	B♭ ($A_4 = 467$ Hz)
Volume	60%
Startup	Regular "beep"

PLAY PRESET TUNES

1) While turning the unit on, hold the ▼ button, (press the
   ON/FCN button and the ▼ button).
2) A demo tune will play continuously.
3) Pressing the ▲ button or ▼ button will increase or decrease the
   volume.
4) Pressing the **ON/FCN** button will cycle to the next tune.
5) Playing may be stopped by pressing the **OFF** button
   Note: The unit will turn off automatically after approx. 2
   minutes. To play longer, simply play a note other than HiA on
   the chanter.

PLAY INTRODUCTION TUNE

This will play an introduction tune and "ring" sound each time the unit is
turned on.

1) While turning the unit on, press the ▼, ▲, **MUTE** & **ON/FCN**
   buttons. A short introduction tune will be played at startup from
   now on, even after battery removal.
2) If it is ever desired to revert to the regular startup (single beep
   and flashing light) at power-up, apply the Factory Default
   Settings on the previous page.

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

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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