

Wind Machine™

OPERATING INSTRUCTIONS

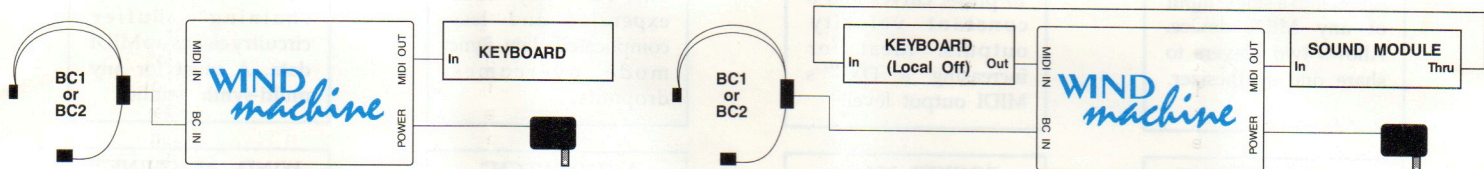
HOW WIND MACHINE™ WORKS

Wind Machine was developed to interface a Yamaha® breath controller BC1™ or BC2™ (not supplied) to virtually all synthesizers that respond to standard MIDI continuous controllers such as Modulation or Aftertouch. This allows the musician to control volume, timbre and other parameters during performance by simply varying breath pressure on the breath controller mouthpiece. Wind Machine reads the resistance created by the breath controller and converts it to any one of eight MIDI continuous controllers on any one of sixteen MIDI channels. Switches on the top of the product select the controller type and MIDI channel and these settings will be maintained even while the unit is powered down. Wind Machine may be used as a MIDI transmitting device only (see Connection 1 below) or it can merge incoming keyboard data with the controller data it generates (See Connection 2).

CONNECTIONS

1)

2)

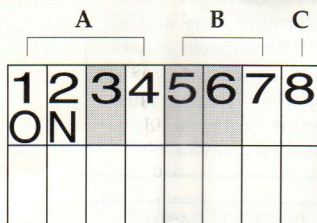


SELECTING TRANSMIT PARAMETERS

The 8 DIP switches on Wind Machine match its output with the type to which the synthesizer responds. The combination of switches 1 to 4 determine the MIDI output channel; switches 5 to 7 determine the type of controller and switch 8 is the Controller Thru Disable (see below). Experimentation with MIDI Volume, Modulation or Pitch Bend parameters on MIDI channel 1 are most likely to produce initial results quickly unless the synthesizer's exact controller specifications are known. This information is usually found at the back of the synthesizer's manual in the MIDI Implementation chart under Control Change (Recognized). The example below shows switches 3, 5 and 6 pressed indicating that Wind Machine is transmitting Modulation on MIDI channel 5.

NOTE 1: Wind Machine is capable of transmitting one controller type on one MIDI channel only.

NOTE 2: A switch is ON when it's lettered part is flat against the lid of Wind Machine.



A) MIDI CHANNEL SELECT

ON		OFF	
1	<input type="checkbox"/>	2	<input type="checkbox"/>
3	<input type="checkbox"/>	4	<input type="checkbox"/>
5	<input type="checkbox"/>	6	<input type="checkbox"/>
7	<input type="checkbox"/>	8	<input type="checkbox"/>
9	<input type="checkbox"/>	10	<input type="checkbox"/>
11	<input type="checkbox"/>	12	<input type="checkbox"/>
13	<input type="checkbox"/>	14	<input type="checkbox"/>
15	<input type="checkbox"/>	16	<input type="checkbox"/>

B) CONTROLLER TRANSMIT SELECT

ON		OFF	
Breath Control	<input type="checkbox"/>	Pitch Bend	<input type="checkbox"/>
Aftertouch	<input type="checkbox"/>	Modulation	<input type="checkbox"/>
Foot Controller	<input type="checkbox"/>	MIDI Volume	<input type="checkbox"/>
Pan	<input type="checkbox"/>	Expression	<input type="checkbox"/>

C) CONTROLLER THRU DISABLE.

When this switch is on, Wind Machine blocks continuous controller data received at its MIDI input that would interfere with MIDI data it is generating. For instance, if you are connected as in Connection 2 diagram above and wish to have the sound module's Filter setting modified by Aftertouch, applying pressure on the keys while blowing into the breath controller would cause the filter to erratically jump from one value to another as the module tries to keep up with the Aftertouch values generated by the keyboard and the Aftertouch values generated by Wind Machine. Setting the disable switch to ON will prevent this problem. In most cases however, the disable switch may be left OFF.

TROUBLESHOOTING

It is important to note that for Wind Machine to control your synthesizer, the synth's sound patch must be programmed to make a change in its sound when it receives input from Wind Machine. Factory patches do not always respond to the particular type of controller data you are sending and some patch modification may be necessary. If it is unclear whether or not the synthesizer is receiving control signals, setting the Wind Machine to MIDI Volume or Modulation on channel one will most likely cause a change in the sound. A synthesizer may respond globally to Aftertouch, Breath Control etc. but certain patches may not and will need to be modified. For more information, consult your synthesizer manual.

LED MODES

The red status LED is used to indicate power on or off and the presence of MIDI data. When connection is made between an AC adaptor and Wind Machine, the LED will glow indicating power on status. During normal operation, the LED will blink off and then on when data is either transmitted from the output or received at the input. Real time messages such as MIDI Clock, Start/Stop/Continue, and Active Sensing do not cause the LED to blink.

SPECIFICATIONS

POWER	Minimum 12 volt AC/DC unregulated supply
MIDI RECEIVED	All
MIDI TRANSMITTED	All

This device has been designed to comply with the MIDI 1.0 Specification Document Version 4.0 and will operate with all MIDI equipment designed to this specification.

Wind Machine™ Helpful Hints

FEATURES

- Adapts Yamaha™ Breath Controllers to MIDI
- Supports 8 continuous controllers
- 16 MIDI channel operation
- "Set and forget" programming

APPLICATIONS

- Perform more expressively
- Imitate saxophone solos more closely
- Control synth-brass swells
- Use Aftertouch during chord changes

OTHER PRODUCTS

POCKET MERGE™

An extremely useful tool that allows you to connect two MIDI cables into a single input of any MIDI device. Allows two players to share one synthesizer.

POCKET CURVE™

Add velocity scaling to any MIDI keyboard controller! Select from 18 preset curves and 6 constant velocity outputs. Ideal for increasing a DX-7's MIDI output level.

POCKET SYNC™

"Smart FSK" to MIDI tape sync device. Chase locks to tape just like SMPTE only less expensive and less complicated. Jam Sync mode overcomes dropouts.

POCKET THRU™

Expands the MIDI outputs of your system. Prevents problems caused by "daisy chaining". Buffer circuitry cleans up MIDI data. A must for any multi-synth studio.

POCKET MAPPER™

Remaps controllers allowing unconventional modulation capability. Mod Wheel could be mapped to Breath Control or vice versa! 15 MIDI controllers ie. Pitch Bend etc. supported.

POCKET MAC™

An economical version of POCKET PLUS designed as a Macintosh™ MIDI interface without the merging capability. LEDs indicate MIDI activity.

MIDIMATCH™

Run MIDI control signals over long distances using ordinary XLR audio cables! Studios wired for XLR cables need not add any new wiring to add MIDI.

WIND MACHINE™

Finally a universal Breath Controller interface! Works with the Yamaha® breath controllers so that you can add more expression to synthesizer performance.

STUDIO MERGE™

Rack mountable device that merges up to 8 MIDI devices to one input. All inputs are "on line" at all times. Better than a patchbay!

POCKET FILTER™

Removes unwanted data from the MIDI stream. Different data can be filtered on different channels at the same time. Channelize older synths that receive in Omni mode only!

SMP-7™ & SMP-16™

19" rackmount SMPTE synchronizers / patchbays featuring a Mac interface and 6 way real time control section. The SMP-16 also has a 16X16 MIDI controlled audio patchbay.

POCKET SPLIT™

Splits any MIDI keyboard into an 8 zone controller. Any and all MIDI channels can be sent from any zone. Special "Floating Split" point follows two-handed playing!

POCKET PEDAL™

Allow any volume pedal or footswitch to become a MIDI modulation source on any or all channels. Great for real-time control of MIDI effects units!

POCKET SEQUENCER™

16 Track small wonder! 6000 note capacity, quantization, overdub and punch-in ensure that your ideas become reality. 256k RAM card included.

POCKET PLUS™

A Macintosh® computer to MIDI interface with Pocket Merge circuitry built-in. Provides power to other Pocket Products. (Most interfaces do not)

POCKET PANIC™

Stops "Hung Notes" fast. Sends All Notes Off command as well as individual note-offs for each note. Can reset controllers or filter out the All Notes Off command if desired.

POCKET CHANNEL™

Convenient MIDI channel re-mapper updates older keyboards to send on any or many MIDI channels. Can also filter selected channels or allow velocity cross-switch capability.

POCKET TRANSPOSE™

Allows quick and easy semitone or octave transposition of all MIDI channels while performing. Also, each MIDI channel could be transposed to a different key +/- five octaves.

POCKET RECORD™

Scratchpad one track sequencer allows for music creation "on the fly". Will accept a 16 channel sequencer dump as well as system exclusive in a compact device.

LIMITED WARRANTY

Creation Technologies Inc. warrants this product to be free from manufacturer's defects for a period of ONE YEAR from the date of purchase. This warranty is void if the unit is opened or tampered with, if the unit is immersed in any liquid, or if the unit is connected to any device that does not meet standard MIDI specifications. Should the products prove to be defective within the warranty period, Creation shall repair or replace the unit at our election and sole expense (with the exception of shipping charges, which Creation will pay one way). Creation makes no other warranties, express or implied, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. In no event shall Creation be liable for loss of profits or benefits, indirect, special, consequential, or other similar damages arising out of any breach of this warranty or otherwise.

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