

## BISCUIT FIRMWARE UPGRADE (PC)

**NOTE:** BEFORE UPGRADING THE FIRMWARE, WE RECOMMEND YOU TO SAVE YOUR PRESETS WITH A MIDI SYSEX DUMP (see page 31 of BISCUIT USER MANUAL).  
Presets are not modified by the firmware upgrade, but it's safer to do so.  
DOING A PRESET SYSEX IS ALSO A GOOD WAY TO TEST MIDI COMMUNICATION BETWEEN BISCUIT AND YOUR COMPUTER PRIOR TO THE UPGRADE.

- 1/ Connect a MIDI cable between the MIDI OUT port of your MIDI interface and the BISCUIT's MIDI IN port.
- 2/ Download the SysEx file "Biscuit\_vX.X.syx" from our website :  
<http://www.otomachines.com/support/>
- 3/ Download and install SysEx utility "MIDI-OX" from this address (don't forget to donate !) :  
<http://www.midiox.com/>
- 4/ Close all the running applications, such as audio or video player, internet and email programs.
- 5/ Open the "MIDI-OX" application.
- 6/ Click "View" then "SysEx...". Go to "Sysex" then "Configure...".  
Check "Delay After F7". It should be selected and the value should be: "500" Milliseconds  
Click "OK".
- 7/ Click "Options" then "MIDI Devices...". Select your MIDI interface on the "MIDI Outputs" box.  
Your MIDI interface should be highlighted. Click "OK".
- 8/ Click "Options" then "Configure Buffers...". Set "Low Level Output Buffers" to 900 (size) and 19 (Num).  
Click "OK".
- 9/ Switch BISCUIT on while pressing the "BYPASS", "BRAIN", "FILTER" and "8 / STEP" switches.  
The "BYPASS", "BRAIN" and "FILTER" switches should light up red, the other switches are off.  
BISCUIT is now ready for the upgrade.
- 10/ Click "Actions" then "Send" then "SysEx File...". Select the "Biscuit\_vX.X.syx" file with the opened browser. "MIDI OX" is sending the firmware via SysEx.  
The BISCUIT's "1 / TAP" switch should light up red.  
The switches 2 to 8 will light up red one after the other, indicating the upgrade in progress.  
Check that the 8 rectangular switches are all lit up red for 3 seconds at the end of the upgrade.  
BISCUIT will reset itself and is ready to use.  
You can quit MIDI-OX" application and unplug the MIDI cable.

If you encounters problems when upgrading firmware via SysEx, try to:

- increase the "Delay after F7" to "1000" (or more) Milliseconds,
- update the drivers for your MIDI interface,
- remove any devices between your interface and BISCUIT such as MIDI thru boxes, mergers, splitters...,
- use another MIDI interface.