How to install Upgrades on your Biscuit (Mac)

> **IMPORTANT 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 ".syx" from our website :
http://www.otomachines.com/support/

3/ Download and install freeware SysEx utility "SysEx Librarian" from this address :
http://www.snoize.com/SysExLibrarian/

4/ Close all the running applications, such as audio or video player, internet and email programs.

5/ Move or copy the "Biscuit_vX.X.syx" file into the "SysEx Librarian" folder (in your "Documents" folder).

6/ Double-click on the "Biscuit_vX.X.syx" file. "SysEx Librarian" will open.

7/ Verify that your MIDI interface is displayed on the upper field, near the "Play" button. If not, select your MIDI interface.

8/ Go to "SysEx Librarian" then "Preferences...". Set "Pause between played messages" to 250 milliseconds and "SysEx receive timeout" to 1 second. Close the "Preferences" menu.

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/ Select the "Biscuit_vX.X.syx" file in the "SysEx Librarian" main screen and press the "Play" button.
The following message "Sending message 1 of 31" appears and 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 "SysEx Librarian" utility and unplug the MIDI cable.

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

- increase the "Delay after F7" to "1500" (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.

How to install Upgrades on your Biscuit (PC)

MPORTANT 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 ".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 "1500" (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...,
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