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OTO Machines Machines Bim Bit Delay

OTO Machines Machines Bim Bit Delay Instruction Manual

Contents

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Product Information

Specifications

- Latest Revision for BIM: 1.5 and 2.5 (as of January 2024)
- Serial Number Requirement: If SN is lower than 0300, contact OTO Machines before upgrading
- Firmware Upgrade Method: MIDI connection using SysEx files

Product Usage Instructions

Checking Current Revision

1. Switch off the BIM device.
2. Press FX TYPE and FILTERS simultaneously while powering on the BIM.
3. Observe the LEDs on the upper and lower lines for the revision numbers.
4. Upper line LED indicates the first digit, and the lower line LED indicates the second digit of the revision.
5. If no indication is shown before startup animation, it could be a pre-production batch BIM.

Upgrading Firmware (Mac)

1. Connect a MIDI cable between your MIDI interface's out port and BIM's MIDI input.
2. Download the SysEx file from the OTO Machines website.
3. Download and install SysEx Librarian or use a DAW capable of sending SysEx files.
4. Open the SysEx Librarian and ensure MIDI interface is selected.
5. Turn on BIM while pressing DIVISION, FX TYPE, FILTERS, and OFFSET switches to prepare for upgrade.
6. Select the SysEx file in SysEx Librarian and initiate the upgrade process.
7. Monitor the progress through LED indications on the BIM screen.

Upgrading Firmware (PC)

1. Follow steps 1 to 6 of the Mac upgrade process.
2. Proceed with upgrading the firmware as described for Mac.

FAQ

Q: What should I do if my BIM has a Serial Number lower than 0300?

A: Contact OTO Machines at **support@otomachines.com** before installing a new revision to avoid any issues.
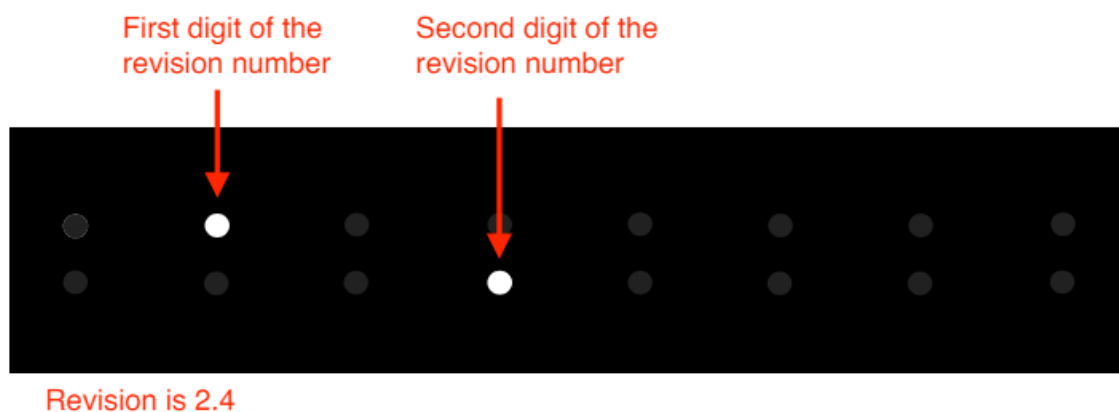
UPGRADE INSTRUCTIONS

Please first check the revision already installed on your BIM :

1. Switch off BIM.
2. Press FX TYPE and FILTERS while powering BIM on.
3. During 3 seconds, one LED is lit on the upper line and another LED on the lower line.
4. The upper line LED should be 1 or 2 and is the first digit of the revision (before the dot).
5. The lower line LED should be 2, 3 or 4 and is the second digit of the revision (after the dot).

    For example if the upper LED is 2 and the lower LED is 4, the revision is 2.4.
6. You may also have no indication of the revision before the startup animation.

That indicates a BIM from the pre-production batch. In that case, please send us an email: **support@otomachines.com**

Revision is 2.4

BIMs with a serial number under 1000 will display 1 as the first digit. BIMs with a serial number above 1000 will display 2 as the first digit. (The serial number is written on the sticker underneath the unit or on the product

packaging). Revision 1.4 and 2.4 has the same specifications (new features, bug fixes,…) but should be installed on the corresponding BIM. For example, if your BIM has a revision 1.4 installed (serial number under 1000), you can upgrade it with revision 1.5 but not with 2.5. As of January 2024, the latest revision for BIM is 1.5 and 2.5.

IMPORTANT NOTE :

If your BIM has a Serial Number lower than 0300 (it's written on the sticker under the machine and on the packaging), please contact OTO Machines (**support@otomachines.com**) BEFORE installing a new revision

How to upgrade BIM firmware (Mac)

1. Connect a MIDI cable between the MIDI out port of your MIDI interface and the BIM's MIDI input.
2. Download the SysEx file BIM_rev_X.X.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/ You can also use a DAW that have the possibility to send SysEx files. In that case, go to 8.
4. Move or copy the BIM_rev_X.X.syx file into the « SysEx Librarian » folder (in your « Documents » folder).
5. Double-click on the BIM_rev_X.X.syx file. SysEx Librarian will open.
6. Verify that your MIDI interface is displayed on the upper field, near the Play button. If not, select your MIDI interface.
7. Go to SysEx Librarian then Preferences…. Set Pause between played messages to 250 milliseconds and SysEx receive timeout to 500 milliseconds. Close the Preferences… menu.
8. Switch BIM on while pressing the DIVISION, FX TYPE, FILTERS and OFFSET switches. These 4 switches light up. BIM is now ready for the upgrade.
9. Select the BIM_rev_X.X.syx file in the SysEx Librarian main screen and press the Play button. The following message Sending message… is displayed on the Sysex Librarian screen. If you use a DAW, send the file BIM_rev_X.X.syx to the correct MIDI output port.
10. LEDs 1 and 9 are lit on the BIM screen indicating that the firmware upgrade has started. The LEDs on the BIM screen will display the progress of the firmware upgrade (from LEDs 1 and 9 to the whole 16 LEDs lit up). BIM will reset itself and is ready to use. You can check the revision number by switching BIM on while pressing the FX TYPE and FILTERS switches.

How to upgrade BIM firmware (PC)

1. Connect a MIDI cable between the MIDI out port of your MIDI interface and the BIM's MIDI input.
2. Download the SysEx file BIM_rev_X.X.syx from our website :
   http://www.otomachines.com/support/
3. Download and install SysEx utility MIDI-OX from this address :
   http://www.midiox.com/ You can also use a DAW that have the possibility to send SysEx files. In that case, go to 7.
4. Open the MIDI-OX application.
5. Click Options then MIDI Devices…. Select your MIDI interface on the MIDI Outputs box. Your MIDI interface should be highlighted. Click OK.
6. Click View then SysEx…. Go to Sysex then Configure…. Set Low Level Output Buffers to 300 (size) and 19

(Num) Auto-adjust Buffer… and Delay After F7 boxes should be unchecked. Click OK.

7. Switch BIM on while pressing the DIVISION, FX TYPE, FILTERS and OFFSET switches. These 4 switches light up. BIM is now ready for the upgrade.

8. On the SysEx View and Scratchpad screen, click File and Send SysEx File…. Select the BIM_rev_X.X.syx file with the opened browser. MIDI OX is now sending the firmware via SysEx. If you use a DAW, send the file BIM_rev_X.X.syx to the correct MIDI output port.

9. LEDs 1 and 9 are lit on the BIM screen indicating that the firmware upgrade has started. The LEDs on the BIM screen will display the progress of the firmware upgrade (from LEDs 1 and 9 to the whole 16 LEDs lit up). BIM will reset itself and is ready to use.
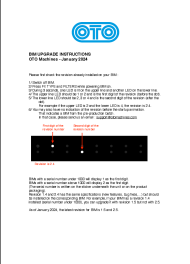
You can check the revision number by switching BIM on while pressing the FX TYPE and FILTERS switches.

BIM revision Changelog

(NF = New feature, BF = Bug fix, IM = Improvement

Revision nr	Date	Description of changes
1.3 and 2.3	April 2018	NF: REVERSE and THRU modes added (FX TYPE no. 5 and 6) NF : TAP can be displayed ON or OFF IM: Accuracy of the TAP Tempo and MIDI Beat Clock sync is improved BF: Aux and Spillover mode were not working well under certain circumstances BF: Delay Time was unstable after a MIDI STOP and PLAY messages BF: TAP Tempo display was not effective in « TAP to LFO » and « TAP to BOTH » modes BF: IN GAIN parameter was corrupted after a « TAP to LFO » BF : « LFO Division » was not working after a change in setting. Needed to tap the tempo again.
1.4 and 2.4	April 2021	BF: MIDI CC and PGM CHGE were not working well under certain circumstances
1.5 and 2.5	January 2024	NF: Sample Rate Reducer mode added (FX TYPE no. 7) NF : CC no. 93 is assigned to the TAP Tempo NF: The brightness of the 8 switches can be dimmed (4 values) IM : Tapping a Tempo automatically set the DIVISION to the quarter note. It can now be deactivated IM: « Ghost » samples that could be heard when loading presets, changing the RANGE or tapping a slower tempo are discarded IM: The number of the last preset loaded or saved before switching BIM off is displayed when you press PRESET after a power up BF: TAP Tempo under 55 BPM applied a wrong delay time

Documents / Resources

[**OTO Machines Machines Bim Bit Delay**](#) [pdf] Instruction Manual
Machines Bim Bit Delay, Bim Bit Delay, Bit Delay, Delay

References

- 🌐 [**MIDIOX**](#)
- [**User Manual**](#)