2024 Stereo reverb processor

OTO 2024 Stereo reverb processor Instruction Manual

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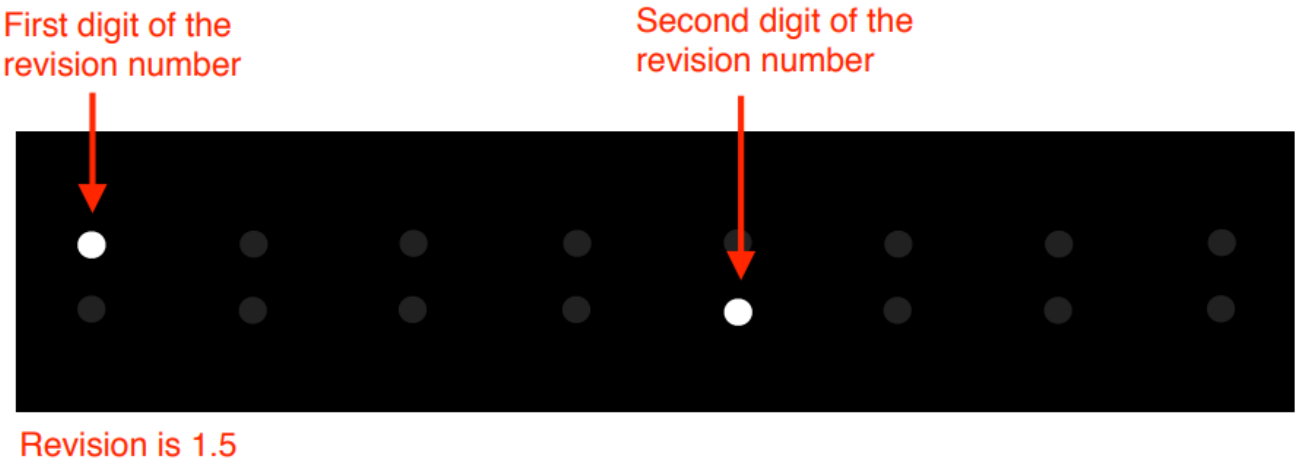
BAM UPGRADE INSTRUCTIONSOTO Machines

Please first check the revision already installed on your BAM :

1. Switch off BAM.
2. Press IN GAIN and FILTERS while powering BAM 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 and is the first digit of the revision (before the dot).
5. The lower line LED should be 3, 4 or 5 and is the second digit of the revision (after the dot). For example, if the upper LED is 1 and the lower LED is 5, the revision is 1.5.



As of January 2024, the latest revision for BAM is 1.5. Revision 1.6 is planned for 2024 Q2.

How to upgrade BAM firmware (Mac)

1. Connect a MIDI cable between the MIDI out port of your MIDI interface and the BAM's MIDI input.
2. Download the SysEx file BAM_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 BAM_rev_X.X.syx file into the « SysEx Librarian » folder (in your « Documents » folder).
5. Double-click on the BAM_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 BAM on while pressing the TYPE, IN GAIN, FILTERS, and CHORUS switches. These 4 switches light up. BAM is now ready for the upgrade.
9. Select the BAM_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 BAM_rev_X.X.syx to the correct MIDI output port.
10. LEDs 1 and 9 are lit on the BAM screen indicating that the firmware upgrade has started. The LEDs on the BAM screen will display the progress of the firmware upgrade (from LEDs 1 and 9 to the whole 16 LEDs lit up). BAM will reset itself and is ready to use. You can check the revision number by switching BAM on while pressing the IN GAIN and FILTERS switches.

How to upgrade BAM firmware (PC)

1. Connect a MIDI cable between the MIDI out port of your MIDI interface and the BAM's MIDI input.
2. Download the SysEx file BAM_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 BAM on while pressing the TYPE, IN GAIN, FILTERS, and CHORUS switches. These 4 switches light up. BAM is now ready for the upgrade.
8. On the SysEx View and Scratchpad screen, click File and Send SysEx File….Select the BAM_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 BAM_rev_X.X.syx to the correct MIDI output port.
9. LEDs 1 and 9 are lit on the BAM screen indicating that the firmware upgrade has started. The LEDs on the BAM screen will display the progress of the firmware upgrade (from LEDs 1 and 9 to the whole 16 LEDs lit up). BAM will reset itself and is ready to use. You can check the revision number by switching BAM on while pressing the IN GAIN and FILTERS switches.

BAM revision Changelog
(NF = New feature, BF = Bug fix, IM = Improvement)

Revision nr	Date	Description of changes
1.3 or below	N/A	Need to be upgraded to 1.4 or more
1.4	June 2018	NF: THRU mode added (TYPE no. 8) BF: CC no. 18 was not working IM: some algos were prone to internal clipping with long reverb times and high damping
1.5	May 2021	BF: MIDI CC and PGM CHGE were not working well under certain circumstances

Specifications

- **Product**: BAM (Bass Augmentation Machine)
- **Latest Revision**: 1.5 (As of January 2024)
- **Planned Revision:** 1.6 (2024 Q2)

FAQ

Q: How can I check the current revision installed on my BAM?
A: Switch off BAM, then press IN GAIN and FILTERS while powering it on. Follow the LED indications to identify the revision number.

Q: What do the lit LEDs on the BAM screen during the firmware upgrade indicate?
A: LEDs 1 and 9 indicate that the firmware upgrade has started. The progress of the upgrade is displayed by lighting up LEDs sequentially until all 16 LEDs are lit.

Documents / Resources

	OTO 2024 Stereo reverb processor [pdf] Instruction Manual 2024 Stereo reverb processor, 2024, Stereo reverb processor, reverb processor, processor

References

- MIDIOX
- User Manual