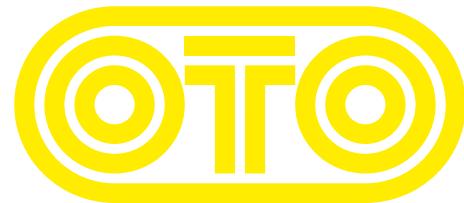


BAM USER MANUAL ADDENDUM

OTO Machines - February 2024



This document lists all the new features, improvements and bug fixes added since the printed User Manual included in the packaging or available on the OTO website.

BAM REVISION 1.6 (February 2024)

1. NEW FEATURES :

1.1 : New FX Types : **BLOOP** and **BOING**.

The TYPE parameter has now 10 settings : Room, Hall, Plate, Ambient, Chorus, Non-Linear, Primitive, Thru, Bloop and Boing.

BLOOP : inspired by the BLOOM algorithm from the Alesis MIDIVERB II (programs 45 and 49).

Like the original algorithm, the BLOOP is based on several allpass delays in series to create a dreamy and ethereal soundscape.

This algorithm has a slow attack inherent to its structure.

The MIDIVERB II had no modulation, so if you want to get closer to the original BLOOM programs, set the CHORUS parameter to 1 (Off) and the SIZE pot around noon.

But of course the CHORUS parameter is very useful to create a more dense and spacey sound than the original BLOOM sound.

Note : because this algorithm is prone to noise and instability with very long reverb times, the FREEZE function has been deactivated.

BOING : close to a spring reverb, but not a faithful emulation, so we've called it « Boing » !

A nice spring reverb sound can be reached with the following settings :

LO CUT : 80 Hz, HI CUT : 4.5 kHz, SIZE from mid to max, DAMPING from mid to max.

Note : the CHORUS parameter is not working with the BOING algorithm.

1.2 : The CHORUS parameter has now 8 values instead of 4.

Value no. 8 offers the same chorus intensity than the previous value no. 4 (Strong), so 4 intermediate values has been added.

The 4 previous values were Off, Light (was value 2, now value 3), Mid (was value 3, now value 7) and Strong (was value 4, now value 8).

You'll find more infos about the correspondences between the old and the new values on the next drawing (PRE DELAY RANGE parameter).

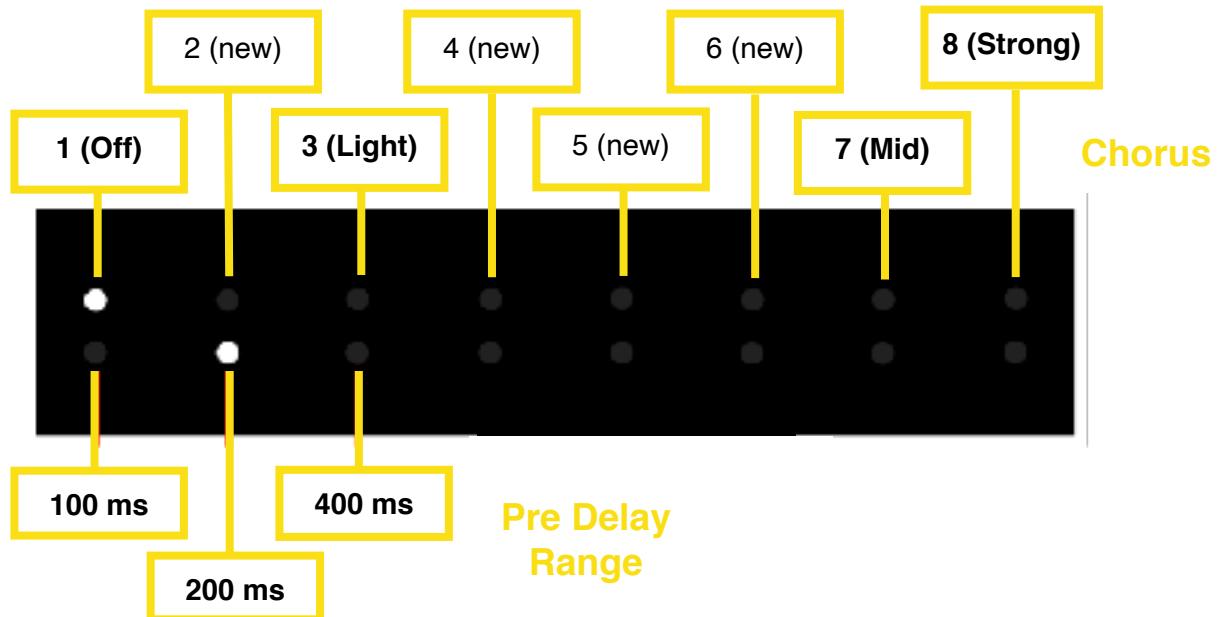
1.3 : A PRE DELAY RANGE parameter has been added.

This parameter changes the maximum delay time set by the PRE DELAY pot.

On previous BAM revisions, the maximum delay time was 400 ms (now PRE DELAY RANGE value 3). It was a bit hard to accurately set a short pre-delay.

With the PRE DELAY RANGE parameter set to 1 or 2, the setting of the PRE DELAY pot is more precise.

The CC number for the PRE DELAY RANGE parameter is 24.



1.4 : You can dim the brightness of the 8 switches.

Press IN GAIN switch while powering BAM on.

The DATA pot now controls the brightness in 4 steps.

When you are ok with the brightness, switch BAM off and on.

This setting is kept in memory.

The brightness dim function is not applied on the submenus (Active mode, Display mode, ...), the Preset save mode and the MIDI menu.

2. IMPROVEMENT :

On previous revisions the first displayed preset number after startup was always 1.1, regardless of the last preset loaded or saved before BAM was turned off.

The number of the last preset loaded or saved before BAM was turned off is now displayed when you press PRESET after a power up.

This is useful if you want to know which preset was used before BAM was turned off.

3. BUG FIX:

The THRU FX (TYPE no. 8) had an erratic behavior like freezing BAM or no sound passing through. It has been fixed.

NOTE : the TAP to Reverb Time function (see page 12 of the User Manual, « TAP TEMPO DESTINATION ») is not working.

BAM REVISION 1.5 (May 2021)

BUG FIX:

MIDI CC and PGM CHGE messages were not working well under certain circumstances.

BAM REVISION 1.4 (June 2018)

1. NEW FEATURES :

1.1 : New FX Type : THRU.

The TYPE parameter has now 8 settings : Room, Hall, Plate, Ambient, Chorus, Non-Linear, Primitive and Thru.

The THRU mode lets you use the whole BAM circuitry (pre-delay, input gain, filters and 16-bit AD & DA converters) without reverb. The REVERB TIME and DAMPING pots and CHORUS parameter are inactive in this mode.

1.2 : TAP DISPLAY : TAP tempo display can be set to ON or OFF.

This setting is accessible by pressing the TAP switch while powering BAM on.

Each time you press the TAP switch while powering BAM on, the TAP display is alternatively set to ON or OFF. This setting is kept in memory.

2. IMPROVEMENT :

Some algos were prone to internal clipping with long reverb times and high damping.

3. BUG FIX:

CC No. 18 (Type parameter) was not working.