OB-6 OS 1.6.6 Addendum

OB-6 OS version 1.6.6 adds a number of new features not covered in the main Operation Manual.

New Features in OS 1.6.6

- Support for MPE (MIDI Polyphonic Expression). This enables the OB-6 keyboard and module to respond to MPE-driven controllers such as the LinnStrument®, Expressive E Osmose®, and Roli Seaboard® series, to name just a few.

- Prophet-5 Rev 4-style "vintage" mode. This gives the OB-6 a looser, more organic sound that emulates the behavior of vintage synthesizers where the behavior of individual oscillators, filters, and envelopes often vary from voice to voice.

- Improved aftertouch curves for enhanced expressiveness when using the OB-6's own keyboard.

Checking Your Operating System Version

If you've just purchased your OB-6 new, OS 1.6.6 may already be installed. If not, and you want to use the new features just described, you'll need to update your OS to version 1.6.6 or later.

To update your OB-6 OS, you'll need a computer and a USB cable, or a MIDI cable and MIDI interface. To download the latest version of the OB-6 OS along with instructions on how to perform a system update, visit the Sequential website at:

https://www.sequential.com/updating-ob-6-os/

To check your OS version:

1. Turn on your OB-6. The OS version number is briefly displayed in the main BANK/PROGRAM display.

2. If your OS is out of date, download the latest version from the URL above and update your instrument using the instructions included with the download.

MPE Support

The OB-6 now responds to MIDI Polyphonic Expression. Although the OB-6 doesn't output MPE from its own keyboard, you can connect an MPE-driven controller such as the LinnStrument via MIDI to control the OB-6. This opens up a new realm of expressive possibilities including polyphonic pitch bends, filter sweeps, volume swells, and more.

To enable MPE operation on the OB-6:

1. Press the GLOBALS button once to activate the upper set of parameters.

2. Press program selector button 2 (MIDI Channel).

3. Use the TENS/INCREMENT button to step through MIDI channels 1-16 until you reach the final setting, *MPE*.

4. Once you've chosen *MPE*, press the GLOBALS button twice to exit.

Once enabled, the six individual voices of the OB-6 correspond to MIDI channels 2-7 and are driven by the Lower Zone setup on the connected MPE controller.

Setting MPE Parameter Ranges on The OB-6

As with standard OB-6 performance parameters such as pitch bend range, you can set a specific range for parameters that respond to MPE commands when MPE is enabled. To do this you will use the special "Page 3" of the OB-6's Global parameters.

To access Globals Page 3:

• Hold down the BANK button and press the GLOBALS button once.

Both Global LEDs light simultaneously, indicating that Page 3 of Global parameters is active.

To set the master MPE pitch bend range:

1. Hold down the BANK button and press the GLOBALS button once to activate Page 3 of the Globals menu.

2. Press program selector button 0 (Transpose).

3. Use the BANK and TENS buttons (DECREMENT/INCREMENT) to set the desired range, from 1-96 semitones. A setting of 2 semitones is the default.

4. When finished, press the GLOBALS button once to exit.

The master pitch bend range setting now overrides an individual program's pitch bend setting when MPE is on.

To set the per-voice MPE pitch bend range:

1. Hold down the BANK button and press the GLOBALS button once to activate Page 3 of the Globals menu.

2. Press program selector button 1 (Master Tune).

3. Use the BANK and TENS buttons (DECREMENT/INCREMENT) to set the desired range, from 1-96 semitones. A setting of 48 semitones is the default.

4. When finished, press the GLOBALS button once to exit.

Per-voice pitch bend for OB-6 voices 1-6 now responds to pitch bend on each MIDI channel, 2-7.

To set the MPE controller's Y-Axis destination on the OB-6:

1. Hold down the BANK button and press the GLOBALS button once to activate Page 3 of the Globals menu.

2. Press program selector button 2 (MIDI Channel).

3. Use the BANK and TENS buttons (DECREMENT/INCREMENT) to set the desired destination on the OB-6. Choices are low-pass filter cutoff, pulse width 1, pulse width 2, and pulse width all (LPF, $PW1$, $PW2$, PWR).

4. When finished, press the GLOBALS button once to exit.

To set the MPE controller's Y-Axis Mode for the OB-6:

1. Hold down the BANK button and press the GLOBALS button once to activate Page 3 of the Globals menu.

2. Press program selector button 3 (MIDI Clock).

3. Use the BANK and TENS buttons (DECREMENT/INCREMENT) to set the desired Y-Axis mode for the OB-6. Choices are unipolar or bipolar (*Un ι, b ι*).

4. When finished, press the GLOBALS button once to exit.

In unipolar mode, CC74 affects the destination by adding a range of 0-127. In bipolar mode it adds a range of -63/+63 with 64 as a the "0" point.

Prophet-5 Rev4-Style "Vintage" Mode

Prophet-5 Rev 4-style "vintage" mode gives the OB-6 a more organic sound that emulates the behavior of vintage synthesizers where the behavior of individual oscillators, filters, envelopes, and amplifiers often varied from voice to voice. Higher amounts of vintage slop adds progressively more variation to the response times and frequencies of the individual oscillators, filters, envelopes, and amplifiers of each voice.

To enable Prophet-5 Rev 4-style vintage mode:

1. Hold down the BANK button and press the GLOBALS button once to activate Page 3 of the Globals menu.

2. Press program selector button 4 (Clock Port).

3. Use the BANK and TENS buttons (DECREMENT/INCREMENT) to set vintage mode to ON.

4. When finished, press the GLOBALS button once to exit.

5. If you want to return to standard Slop mode, repeat steps 1-3 but choose OFF.

Improved Aftertouch Curves

OS version 1.6.6 adds improved aftertouch curves for enhanced expressiveness when using the OB-6's keyboard. There are now a total of eight curves to choose from.

To choose an aftertouch curve for the OB-6 keyboard:

1. Press the GLOBALS button twice to activate the lower set of parameters.

2. Press program selector button 6.

3. Use the BANK and TENS buttons (DECREMENT/INCREMENT) to choose a curve (0-7). The best way to choose the right curve for your playing style is to try each one.

4. Once you've chosen the desired curve, press the GLOBALS button once to exit.