

MOOG ONE FIRMWARE UPDATE V1.0.4 *(April 10th 2019)*

WHAT YOU WILL NEED

- A Computer
- A USB Flash Drive

HOW TO CHECK YOUR FIRMWARE VERSION

1. Press the **SETTINGS** button in the Center Panel.
2. Use the Master Encoder in the Center Panel to scroll down to UTILITIES.
3. Press the Master Encoder to select UTILITIES.
4. Use the Master Encoder to scroll down to FIRMWARE VERSION (the installed version will be displayed here).

HOW TO UPDATE YOUR FIRMWARE

1. Load the latest Moog One firmware onto a USB flash drive.

NOTE: *If the drive was formatted on an Apple computer, it must be reformatted to FAT or ExFAT in order for Moog One to recognize the drive.*

2. Plug the USB flash drive into the USB port on the back of Moog One.
3. Press the **SETTINGS** button in the Center Panel.
4. Use the Master Encoder in the Center Panel to scroll down to UTILITIES.
5. Press the Master Encoder to select UTILITIES.
6. Use the Master Encoder to scroll down to UPDATE FIRMWARE.
7. Press the Master Encoder to select UPDATE FIRMWARE (All firmware versions located on the USB flash drive will be displayed).
8. Use the Master Encoder in the center panel to scroll to the desired firmware version.
9. Press CONFIRM to begin the firmware update process.

The firmware update process may take a few minutes to complete (~5 minutes). When done, you will be prompted to restart your Moog One. This restart process may take longer than normal as the instrument may need to update its internal settings (~10 Minutes).

If you have any questions or trouble with your update please contact techsupport@moogmusic.com.

V1.0.4 RELEASE NOTES

NEW FEATURES

1. Two new EFFECT Types: Stereo Flanger and Stereo Chorus. Both effects feature fully independent left/right delay lines, each with their own modulation LFO.
2. New DUPLICATE function for the Sequencer, found on the Sequencer MORE page. The button is labeled DUPLICATE X-Y where X is the starting step number and Y is the ending step number (i.e. DUPLICATE 1-16). The range of steps from X to Y will be copied and appended to the sequence, beginning on the next step after Y. For example if you start with a 16 step sequence and DUPLICATE 1-16, the result will be a 32-step sequence consisting of the 16-step sequence repeated twice. If you start with a 16-step sequence and DUPLICATE 1-8, the result will be a 16-step sequence (still), with steps 9-16 overwritten by a copy of steps 1-8. While on the Sequencer MORE page, the starting step number for duplication can be adjusted using the front-panel ADV <> buttons in the sequencer section, and the ending step number (Pattern Length) can be adjusted using SHIFT + ADV <>.
3. New RECORDING MODE added (FOCUSED), found on the Sequencer MORE page: RECORDING MODE (REPLACE, OVERDUB, FOCUSED). The FOCUSED setting is new. RECORDING MODE: FOCUSED is like REPLACE mode but the selected step for recording does not advance automatically, if the sequence is playing. This mode allows you to lock onto a single step for recording-while-playing, and any notes that you enter will replace the previously-recorded notes for only the selected step. If the sequence is not playing, then recording in FOCUSED mode works almost identically to REPLACE mode, with one small difference: in FOCUSED mode you can select a single step on the STEP EDIT screen and begin recording, and only the selected step will be replaced (the whole sequence will not be erased by a new recording, unless the whole sequence row is selected).

IMPROVEMENTS

1. Sync to MIDI Clock is greatly improved, and MIDI Song Position Pointer is now supported. The Arpeggiator and Sequencer now respond to MIDI Start/Stop/Continue. These updates make it much easier to sync the One's sequencer, arpeggiator, LFOs etc. to your DAW or studio master MIDI clock.
2. Oscillator tuning intonation is significantly improved.
3. Moog One USB MIDI Driver for Windows is included with this release. This driver provides USB MIDI connectivity for the Moog One on Windows 7, 8, and 10.
 - To install, simply run "Moog One USB Driver v4.42.0.exe" and follow the on-screen instructions.
4. New gain staging and noise gate for Master Effects sends, improves signal-to-noise ratio.
5. Sequencer modulation lanes are now active immediately when loading a saved sequence, instead of first requiring parameter tweaks.
6. Fastest Sawtooth oscillator setting (minimum wave angle) is now faster, giving more high-frequency harmonic content.
7. You can now press down on Main Encoder to load Snapshots, Sequence presets.
8. Sequencer: Last-set GATE LENGTH value now persists for newly recorded notes.
9. Polyphony MORE Page: some usability improvements when adjusting Poly Count and Unison Count.
10. Keyboard shortcuts (for external USB keyboard) to focus panel on multiple synths at the same time:
 - SHIFT + F5, F6, F7 selects Panel Focus Synth 1,2,3
 - SHIFT + CTRL + F5, F6, F7 set Panel Focus All, w/ Closest Focus for synth 1, 2, 3
 - Just CTRL + F5, F6, F7 sets Panel Focus to 1&2(1), 1&2(2), 2&3(3).

BUG FIXES

1. Screen Saver (automatic after 30 minutes of inactivity) is working again, after being disabled in v1.0.3.
2. Fixed MIDI channel filtering for notes input to the Arpeggiator and Sequencer (they now follow the MIDI channel selected per-Synth).
3. Fixed the value display for some Eventide effect parameters (Infinite and Freeze settings for reverb Decay Times, for example).
4. Performance Set browsing is no longer affected by Preset Autoload mode.
5. Fixed corrupted text when exporting Global Settings.
6. Fixed UI bug when deleting a Performance Set.
7. Sequencer NOTE TRIG bug fix: when resuming playback via Note Trig, the last-played notes would play again.
8. Can now create new Performance Sets using “+++” option on Arrange Sets menu.
9. Fixed bug when exporting a duplicate User Space to USB (same space already exported) when Dupl. On Export is set to Manual Rename.
10. Fixed bug when trying to create more than 20 Modulations per Synth.
11. When STEP MOD is active, Master Volume and Sequencer On/Off controls now work normally (previously they were disabled by STEP MOD).
12. SUSTAIN input SWITCH TYPE settings were reversed (“Open” vs. “Closed”).

KNOWN ISSUES & CONTINUED IMPROVEMENTS

Below is a list of many, but not all of the known issues still present in v1.0.4

FIXES FOR MOST OF THESE ITEMS ARE ALREADY IN PROCESS

1. Sustain pedal doesn't hold arp or sequencer.
2. Assigning controllers (such as Expression Pedal) to VCA Level doesn't give good results.
3. Chord Mode doesn't handle note-off correctly, for the case where more than one instance of the same pitch is playing as a result of multiple overlapping chords being played.
4. Rapid tempo changes can occasionally cause multiple synced sequences to fall out of step.
5. MIDI Bank/Program Change messages don't select presets / Performance Sets (coming in next update)
6. Full MIDI control (CC and NRPN messages) still to be implemented; this is in process now and scheduled for the next update.
7. Continued tuning intonation improvements.

V1.0.4 RELEASE NOTES

NEW EFFECTS PARAMETERS

STEREO FLANGER *(Stereo Digital Flanger; Two Delay Lines - One Per Channel)*

MIX	AMOUNT OF FLANGED SIGNAL IN THE OUTPUT	0% to 100%	CTRL 1
FEEDBACK LEFT	AMOUNT OF FLANGED SIGNAL FED TO LEFT INPUT	-100% to +100%	
FEEDBACK RIGHT	AMOUNT OF FLANGED SIGNAL FED TO RIGHT INPUT	-100% to +100%	
TIME LEFT	LEFT CHANNEL FLANGE TIME	0.1MS to 15MS	
TIME RIGHT	RIGHT CHANNEL FLANGE TIME	0.1MS to 15MS	
RATE LEFT	LEFT CHANNEL LFO RATE OF MODULATION	0.01Hz to 20Hz	
RATE RIGHT	RIGHT CHANNEL LFO RATE OF MODULATION	0.01Hz to 20Hz	
DEPTH	LFO DEPTH OF MODULATION	0% to 100%	
TONE	LOW PASS TONE CONTROL FOR BOTH CHANNELS	0% to 100%	CTRL 2
GAIN	GAIN STAGE OF THE PROCESSED SIGNAL	0% to 100%	
SYNC	SYNC ON OR OFF	ON, OFF	

STEREO CHORUS *(Stereo Digital Chorus; Two Delay Lines - One Per Channel)*

MIX	AMOUNT OF CHORUS SIGNAL IN THE OUTPUT	0% to 100%	CTRL 1
FEEDBACK LEFT	AMOUNT OF CHORUS SIGNAL FED TO LEFT INPUT	-100% to +100%	
FEEDBACK RIGHT	AMOUNT OF CHORUS SIGNAL FED TO RIGHT INPUT	-100% to +100%	
TIME LEFT	LEFT CHANNEL CHORUS TIME	1 TO 50MS	CTRL 2
TIME RIGHT	RIGHT CHANNEL CHORUS TIME	1 TO 50MS	
RATE LEFT	LEFT CHANNEL LFO RATE OF MODULATION	0.01Hz to 20Hz	
RATE RIGHT	RIGHT CHANNEL LFO RATE OF MODULATION	0.01Hz to 20Hz	
DEPTH	LFO DEPTH OF MODULATION	0% to 100%	
TONE	LOW PASS TONE CONTROL FOR BOTH CHANNELS	0% to 100%	
GAIN	GAIN STAGE OF THE PROCESSED SIGNAL	0% to 100%	
SYNC	SYNC ON OR OFF	ON, OFF	