

KRONOS 61/73/88  
KRONOS X 61/73/88

System Version 2.1.1

Dec 2, 2013

## Changes Since KRONOS System Version 2.1.0

In addition to the new features from version 2.1.0, KRONOS system version 2.1.1 includes the following bug fixes.

In Combis and Songs, Timbre/Track Key and Velocity fade-in and fade-out zones now work properly with the SGX-1, EP-1, and PolysixEX. Additionally, the fade aspects of these zones are now ignored by the CX-3; in other words, the CX-3 will sound at normal volume throughout its assigned Key and Velocity zones, regardless of the fade-in/out settings.

In stereo HD-1 voices, in some circumstances the left and right channel LFOs might not have been precisely synchronized. This has now been fixed.

In the initial release of software version 2.1, note-offs from any MIDI channel were erroneously duplicated on the Global channel. This has now been fixed.

## Changes Since KRONOS System Version 2.0.7 / 2.0.6

### New features

KRONOS system version 2.1 includes a number of new features, as listed below. Please refer to the updated PDF manuals for more information.

#### *Improved CX-3*

We've added a brand-new effects section to the CX-3, with many updates and improvements to the Amp, Rotary Speaker, and Vibrato Chorus. A new parameter on the CX-3 Basic page, **Amp/VC/Rotary Mode**, lets you switch between the old (**CX-3 Classic**) and new (**Custom**) versions of the effects.

#### *Updated CX-3 Programs*

We've also updated the factory preload Programs to take advantage of the new CX-3. To prevent unexpected changes to your data, these new Programs are **not** loaded automatically. Instead, please download the separate file PRELOAD\_V2.PCG and copy it to your KRONOS. You can then load the new sounds just as you would any other PCG file. The original PRELOAD.PCG file remains on your disk as well, so you can re-load it at any time if desired.

### ***Rotary Status***

If you're using a Rotary Speaker, either as an effect or in the CX-3, a new indicator at the top of the display shows the current state of the Rotary Speaker (Fast, Slow, Stop, Preamp, or Off). Note that this is the current state—in other words, what you actually hear—which is a combination of the **Speed SW**, **Mode SW**, **Rotary On**, and **Amp Type** parameter settings and all associated AMS modulation. The CX-3's Play page graphics now show this as well.

### ***Mute Mode***

Version 2.1 gives you a choice as to how the Mute buttons work in Combinations and Songs. Previously, in Combis the Mute buttons muted the Timbre's audio output, which is convenient for sound design; in Songs, they stopped only the sequencer's output to the Track, while leaving the keyboard active.

These behaviors are still available when the new **Mute Mode** parameter is set to **Studio**. A second setting, **Live**, provides alternative behaviors designed for use in live performance.

In **Live** mode, Combination Mute buttons stop the MIDI input to the track; this saves polyphony, and is well-suited to muting and un-muting layered sounds as you play. Similarly, Song Mute buttons control MIDI input from both the sequencer and the keyboard.

### ***Function Assign for External MIDI In***

You can now map incoming MIDI controllers to any of the special functions previously available only to the rear-panel foot switch input and SW1/2. This is particularly useful in conjunction with third-party MIDI and USB MIDI foot controllers with multiple built-in switches, each of which can now be mapped to a different function on the KRONOS. For instance, you can have multiple switches assigned to Program Up, Program Down, Octave Up, Octave Down, Tap Tempo, Chord On/Off, Ribbon Lock, etc.—all at the same time.

### **KRONOS v2.1 Editor and Plug-In Editor**

KRONOS System Version 2.1.0 will be supported via the KRONOS v2.1 Editor and Plug-In Editor software.

The KRONOS v2.1 Editor and Plug-In Editor software is available for free download at [www.korg.com/kronos/Support](http://www.korg.com/kronos/Support)

## **Other improvements and bug fixes**

In addition to the new features, KRONOS system version 2.1 includes the following functional improvements and bug fixes.

### **General**

#### *Bug fixes*

Low battery voltage did not prompt the error message “The clock battery voltage is low.” This has now been fixed.

Some SSDs shipped in the optional Korg “2nd SSD service kit” had incorrect permission settings which could prevent user modification of the disk. Installing KRONOS system version 2.1 corrects these settings.

### **MIDI**

#### *Bug fixes*

When playing some sounds from MIDI or USB MIDI with the damper pedal continuously held down, unusual voice-stealing might have occurred. This has now been fixed.

### **KARMA**

#### *Bug fixes*

The real-time note display on Sequencer P0: Play KARMA GE now works properly.

KARMA GE 0835 LA EP2 could interfere with SST (Smooth Sound Transitions) when using the damper pedal, even if KARMA was Off. This has now been fixed.

The KARMA Trigger page “Update On Release” parameter did not work properly until the check-box was edited. This has now been fixed.

Pitch Bend messages generated by a KARMA GE’s CC Pattern could not generate a full-scale value. This has now been fixed.

## **Set List mode**

### *Bug fixes*

In Set List mode, a complex chain of actions involving holding down notes while changing the Keyboard Track, selecting a different Slot and holding down additional notes, and finally re-selecting the original Slot could cause notes from the second Slot to hang. This has now been fixed.

Using MIDI Bank Select to switch to a Slot in a different Set List now works as expected. Previously, the Slot's sound would play correctly from the keyboard, but the SW1/2 indicator LEDs might not be set properly, the sound would not be selected if you switched to its native mode (Prog/Combi/Seq), and if the Slot contained a Song, the Play button would not start the Song.

## **SGX-1**

### *Bug fixes*

A complex chain of actions with the SGX-1 - install and then uninstall a piano EXs, play a sequence or KARMA pattern which plays a very dense flurry of notes, and finally select a Piano Type which requires the uninstalled EXs - could cause an operational error. This has now been fixed.

## **EP-1**

### *Bug fixes*

Depending on settings and note velocity, a click might have been heard at the end of low-pitched notes in the EP-1. This has now been fixed.

## **CX-3**

### *Improvements*

When the rotary speaker's Horn and Rotary "Stop Phase" parameters were set to specific values, and Stop was used, deceleration may have taken a long time depending on the relationship between the current position and the target stop position. In these cases, the speaker now reaches the "Stop Phase" position much more quickly.

### *Bug fixes*

Under rare and extreme conditions, an operational error could occur when playing a very large number of notes on a dual CX-3 Program. This has now been fixed.

When a CX-3 was assigned to EXi 2, the Keyboard Split graphic on the Split/Drawbars – Keyboard Split page was not updated correctly. This has now been fixed.

When a CX-3 was assigned to EXi 2, and the drawbars were in EX mode, the EX drawbars did not function correctly. This has now been fixed.

The P0: Play - Main page graphics for the last two Lower EX drawbars were incorrect. This has now been fixed.

## **MS-20EX and PolysixEX**

### *Bug fixes*

If the Scale was set to something other than Equal Tempered, and Voice Assign Mode was set to Mono Legato, the PolysixEX and MS-20EX might not play the scale correctly. This has now been fixed.

## **Samples**

### *Bug fixes*

Specific sample names could cause the system to not recognize stereo pairs. This has now been fixed.

## **Combination mode**

### *Bug fixes*

If the Bank/Combination Select window was open, and the Cancel button was pressed while notes were being held, stuck notes could occur. This has now been fixed.

## **Sequencer mode**

### *Bug fixes*

When recording in “Loop All Tracks” mode, if STOP was pressed after each recording pass, the recorded data could be offset by one bar for each pass. This has now been fixed.

In very rare cases, when using KARMA while recording in the sequencer, playing a chord and then immediately pressing START/STOP could cause an operational error. This has now been fixed.

When copying a Program into a Song using the “Copy From Program” command or the “Auto Song Setup” function, the Send1(MFX1) and Send2(MFX2) parameter values may have been set incorrectly. This has now been fixed.

Immediately after using the “Copy From Song” command, the keyboard might play a Track different from the one specified by the “Track Select” parameter. This has now been fixed.

## **Global mode**

### *Bug fixes*

Negative Global transpose settings, in combination with Octave Down via SW1/2, caused strange behavior for notes at the bottom of the MIDI range. This has now been fixed.

## **Disk mode**

### *Bug fixes*

Loading .syx files with names longer than 50 characters could cause an operational error. This has now been fixed.

When loading a single Program from disk, the “From” field always showed as I-A, regardless of the actual bank. This has now been fixed.

The text “(null)” was erroneously displayed in the Save PCG dialog. This has now been fixed.

When loading Sampling Mode data using Append, and loading PCG data at the same time, the PCG data was not remapped to use the new Sample and Multisample locations. This has now been fixed.