SD40 - Update 1.1.0

Half Bar

This function has been modified as such: if pressed during the first half of the measure, the 1/2 bar fill is heard during the current measure. However if pressed during the 2nd half of the measure, the 1/2 bar fill is played at the beginning of the next measure.

Tempo accelerando/ritardando

By pressing Tempo button together in the STYLE mode, the Tempo related features are displayed. Now, by touching and holding down for 2 seconds the ACC icon, you can access editable parameters for both accelerando and ritardando. Touching either the EXIT icon on the screen or on the panel returns the keyboard to the normal screen. The new functions available in the EDIT mode are – Step, Lower, Limit and Upper Limit.

- **Step**

  Once turned on, this allows you to change the « rate » of acceleration or deceleration, so the tempo will increase/decrease in steps of x, rather than the default steps of 1:
  - ➢ Range from 1–20: the change in tempo will be proportional to the quantity defined for each measure.
  - ➢ Range from 1-20 beat: the tempo will be proportional to the value defined by each bar

- **Lower Limit**

  Use to set the lowest tempo value the style can go to when Ritardando is used, however please note that the value for the tempo (set in View => Drum) will take precedence over any minimum tempo value set.

- **Upper Limit**

  Use to set the highest tempo value the style can go to when Accelerando is used, however please note that the value for the tempo (set in View => Drum) will take precedence over any maximum tempo value set.

  The default values are: Step=5 (bar), Lower Limit=40, Upper Limit = 250.

The defined values can be saved within the CUSTOM STARTUP. The accelerando & ritardando set values can also be saved within each style independently. If a style has these values, these will super exceed the default values saved within the CUSTOM STARTUP menu.

Once the style has been stopped, the values return either to the default numbers (min = 40, max=250) or that stored within the CUSTOM STARTUP. In the PLAYER mode (when using Midifiles), the values that have been 'edited' into or stored within the Midifile are those that will be used (ranging from 1-20 bars).

Registration

Registrations can now be loaded from USB sticks.

Registrations name are up to 30 characters.

Complete save feature on Registration for Voice families.

Store of Intro of style: if in start, the style starts with the Intro saved, if in stop and key start the style starts with the intro saved at the touch of a button or by Start button.

In Registration mode Right 1 and 2 and 2nd Voice sliders are now saved on Player.

When the Registration changes, if the new one does not contain pdf, the previous pdf setting is deleted.

Correct on the Registrations the transition from ACCORD.CLASSIC mode to MASTER

MIDI MERGE: (Found under Menu → Midi → Midi Port)

Added the possibility to now assign the physical MIDI in port to both GM and KEYBOARD modes (internal midi merger)

USB midi device now assignable to the 3 front USB ports

In the MENU→CONTROLS screen, the USB MIDI IN KEYBOARD or GM mode can now also be assigned to the 3 front USB ports. This function allows you to now connect a Midi USB keyboard to either of the front USB ports and assign it to either function as KEYBOARD or GM mode. This setting can be stored as a CUSTOM STARTUP.

You can now have simultaneously connected to the SD9 both MIDI In GM and a Midi USB device if in MENU – CONTROLS, USB is set to MIDI IN KEYBOARD or a MIDI host device MIDI is set to MIDI USB KEYB. In the MENU – MIDI setup page.

Modeling Edit

Added the SINGLE / GLOBAL function which avoids going back on VIEW to be able to modify it.

Edit Voice

Added the edit style VIEW → EDIT.

Added DOUBLE Up / Down function that can be saved within the voice.

Added function FACTORY OVERWRITE and FACTORY RESTORE

Fixed error in the RANGE edit (page 2/6) where the RANGE was highlighted in the VELOCITY box.

Modulation was not reset by switching from a VOICE with an activated Lfo to another with a deactivated Lfo.

Changed the Wah Wah 4 preset and changed the response curve on the volume pedal in the case of an inserted Wah-Wah EFX

Second Voice

From the main menu while holding down the 2nd Voice tab, you access directly the second tone selection menu.

2nd Voice timbre remains until the main entry is changed.

To store it you need to enter the voice editing and save in a USER VOICE.

Midi reset

- A new MIDI RESET control has been included as part of MIDI reception (code: F0 26 7B 39 05 00 F7).
- You can now change or select styles via MIDI IN (using Midi Keyboard RX part – GLOBAL or RIGHT).
  - Bank 40 – 49 is used to select the Factory style groups (Ballad = 40, Pop = 41 etc.)
  - Program Change (0 – 127) is used to select the factory style within the selected style group. Max of 128 styles can be selected.
  - Bank 50 – 59 is used to select the User style groups (Ballad = 50, Pop = 52 etc.)
  - Program Change (0 – 127) is used to select the User style within the selected style group. Max of 128 styles can be selected.

Octave CHORD1-5:

Added the capability to now change the octave of the Chords 1-5 in a style. In VIEW – CHORD, you can now set the octave level of each chord (between -2 and +2).

Footswitch

- New programmable footswitch functions include **Reintro**, **Set Down and Set up**. The Set down and Set up functions is used to switch between the 4 sets. This means for an example that … even though you have a maximum of 13 functions you can program onto the FS13 (or 6 for the FS6), you can program different functions into the 4 sets and access each one for different performances, meaning you now have access to 13 X4 (52 functions for FS13) or 6X4 (24 functions for FS6). So in Set 1, Footswitch #1 could be assigned to Start/Stop, while in Set 2, Footswitch #1 could be assigned to SUSTAIN. By switching between sets, you an now re-assign Footswitch #1 to up to 4 different functions (determined by which set you are in).
- New functions **IntroOnArr and EndingOnArr** have now been introduced – this allows you to now automatically determine which intro or ending is hearing based on the current Arranger being used (thus saving you pedals). If …
  - ArrA is on => Intro/Ending 1 will be heard when pedal is pressed.
  - ArrB => Intro/Ending 2 will be heard when pedal is pressed.

o   Arr C & D => Intro/Ending 3 will be heard when pedal is pressed.
- New functions **ARRANGER DOWN** and **ARRANGER UP** have been inserted. This allows you to skip forward or backwards between the different style arrangements.

User Buttons and Footswitch
New function **FswChDelay** has now been introduced (and can be stored in CUSTOM STARTUP). Once turned on, this function 'delays' the chord recognition of minor, 7th, m7th, 5+, dim, 6th and 7th when assigned to and used with the pedal in style mode. This gives you time to press the footswitch assigned to any of these chords a few bars before the actual chord change is needed – very useful for Guitar players.

Panel reboot application
Simultaneously pressing both the **ARR_A** & **Enter** buttons will restart the SD40 without having to manually switch off the instrument.
This may be useful if any anomalies should occur.

Whole disk check
Pressing both the **ARR_B** & **Enter** enables the SD40 to do a complete disk check. This function takes quite some time and so the instrument should not be switched off during this procedure.
Once completed, the instrument will restart automatically.

Update modeling tab
Holding down the ARR_C + ENTER buttons together the User modeling tables will be automatically be updated.

Legato
Enhanced the Legato function shown on page 4 of the Voice Edit menu.
The Legato feature works on all the active voices except the Second voice.
There are 6 types of Legato: 3 Mono Legato and 3 Poly Legato.
Each time you touch the new **Legato** icon, a different Legato type is selected.
Choices are: Fast with fast attack, Medium with medium attack and Slow with a slow attack.

Voicetron with midi files
Voicetron On / Off status is now independent of the Midifile internal setting.
On / Off status is then restored as well as the Preset Voicetron chosen by the user once the Midi file stops playing, even if the Midi file contains a vocalist track.

Style

Added page numbering to the Style selection page (bottom of screen).

Arranger status sign on display is now yellow – making the current arranger status more distinct.

Added a save feature on the currently loaded style which allows you to save a user style in any other folder other than the USER_ STYLE or its source folder with re name feature (also available in style edit).

Added in View → Edit → Copy screen, a new Export menu for the Style.

You can now export the midi parts of the selected section as a Midi file by using the **Export** button <part name to export> to Mid.

In the Style Edit menu, it is also possible to record a sequence and then immediately export it with the Export to Mid function.

These exported files are saved in the User_Modeling / Style <style name> / <selected section> folder.

So now Volume variation of the Style is now displayed on top left of the screen

Voices in registrations

In the Registration screen, touching the new [Voice Select] icon on the display will show 5 boxes.

The first box shows the current selected Voice; in the other 4 boxes you can assign voices (by holding down the corresponding voice icon as it already happens for the Voice & Vari function).

Status of these 5 Voices can be saved in the Registration itself.

Bass sustain to pedal

In the VIEW → Bass → Sustain To Pedal menu, if Manual Bass or Bassist is being used, you can assign the sustain pedal to the bass.

The function can be saved on Custom Startup, on Footswitch and User Tabs (Bass Sus.

Disk edit

Folders are no longer automatically available when the Disk Edit button is turned on.

Locked navigation if SD40 is connected to the PC (PC-CONNECT ON).

Player

Position track in the Player menu is now available with an enlarged font.

Search function in the Playlist can only be activated for searching for files within a Playlist and not for searching the playlist with the arrow and or dial buttons.

Fixed Pdf display problem when used with Mp3 / Wav + Pdf file selected after a Midifile with lyric (when pdf was disabled after the start of the Mp3).

Fade out
Improved Fade Out feature when used with Endings.

Arabic scale
User Tabs: Arabic Scale function added (On/Off).
When the user voice is loaded, the scale is updated if it has been saved (if enabled, it is immediately available).

Chord recognition
Improved chord recognition (possible problems on 4-note chords).
The recognition of the ninth chord was corrected.
Fixed random error in the recognition of the chord.

Drum remap
Now you can also access the drum remap from the VIEW → Drum Mixer menu, DRUM REMAP button. Press the EXIT button to return to the Drum Mixer menu.
The MANUAL box (drum on / off) is activated in the menu.

View → EFX
Now you can edit and save the Insert EFX2 effect type on the current style.

Drum RESTYLE
The status of the DRUM volume slider is now stored when the RESTYLE function is used. This means if you replace a Midi drum with an Audio drum and adjust the volume level to suit the Midifile, this level is also stored along with the audio drum used in the Midifile.

Playbox
Added PLAYBOX environment.

Playlist
Improvement on title view (style font changed).

Assign vol. 5 to lower
In MENU → CONTROLS the "Assign Vol.5 To Lower" box has been inserted which, if selected, allows the volume of the Lowers to be changed using the Potentiometer.
#5 RIGHT.
The CHORD volume in this mode only acts in automatic chords.
The function can be saved in CUSTOM STARTUP.
To the right of 2nd Vol the volume change of the lowers has been inserted if the

Potentiometer #5 is set to the right volume, while if set as the lower volume it changes the volume right.

Style MyList
Fixed error in the selection of the style box, if still loading.

Modelling drum
USER DRUM MIDI extension: tables (Midifiles) with midi drumset can be inserted in the USER_MODELING / Drum folder.
The tables will be visible after reboot or with Update Modeling Tab (Holding down the ARR_C key and pressing ENTER).
In the MODELING → Drum menu, the "User Drum" box has been inserted: pressing this box will highlight the list of user drum in the USER_MODELING / Drum folder. These tables can be assigned to the style sections in both single and global fashion. Selecting the "User Drum" box automatically activates the Key Start which allows you to select also Fill, Break, Intro, Ending (with Reintro) with the style in stop.
With SAVE you can save the style with the changes made on the modeling.

Selection
The selection of the Voice and Styles families has been corrected.

Rotary
Fixing issue when Rotary effect is out of Morphing mode (it sent the reverb to zero).

Media menu
Fixed the transition from Regis to Media by pressing on the device (chip picture).

Metronome
SOLO mode did not work on midifiles.

Styles Name
The number of characters in the style name displayed at the top left has been reduced to 24.
Based on the length, the font is reduced / enlarged.

Bass
Improvement of the tonic of the bass recognition while chord is changed
Fixed the double bass note to the style change at the same time as the chord change.

Midi compress

For styles with Drumset, a Dynamic Compression Control (Midi Compress) with values from 0-48 has been added to the View → Drum menu.

Midi USB

New USB Midi Keyboard feature (simulates Midi In Keyboard).
The previous USB Midi is renamed as USB Midi GM.

Display style info

In addition to displaying the style section [A], .. [IN2] in yellow is now displayed also the measurement counter for each section Ex. [A] 1/8, [A] 2/8 ..

Auto FILL

Fixed the double bass note issue , especially in times in ¾ (Eg IRISH_WALZ) changing style arrangement in the last quarter with AUTOFILL active.