

## SCROLL DELUXE a Utility Rack for Cantabile 3 Performer

Hi All,

For the purpose of abbreviating the words “Cantabile 3 Performer” I will use “C3” to refer to the Cantabile 3 Performer host throughout this instruction set.

This is a more deluxe version of the SIMPLE SCROLL rack already out there. In addition to the features it has which are listed below, it also now includes an additional delay value that can be triggered in the course of the song playback by Transport position bindings to a CC4 momentary switch input to the rack. I also created input bindings that allow operation of the scroll rack independent of or in concert with the main transport through the use of buttons, foot switches etc ...

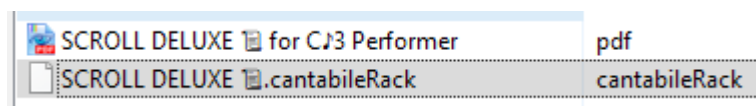
In it's simplest usage it automatically scrolls the Show Notes with no other bindings required assuming there are no inter song scroll pauses and is tied to the C3 main transport commands. It will behave in the following way from the main transport controls

- Play will start the Pre-Scroll delay period if any and then the scrolling event will automatically follow
- Pause will pause the Scrolling and Resume or hitting Play again will continue the scrolling
- Stop will stop the Transport & set the Scroll rack to the top position
- CC4 Momentary Swt will trigger the pre – programmed pause period
- CC5 Momentary Swt will pause the Scrolling when pressed and resume it when released
- CC6 Momentary Swt will fast forward the Scrolling and releasing it will return it to regular speed

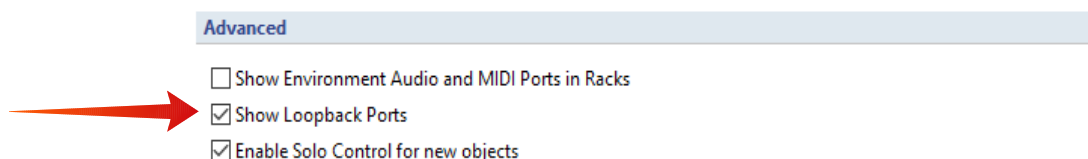
The rack can also be used as a teleprompter in standalone mode with no connection to the transport controls. It is for acoustic performance or oratory use and uses all CC switches shown at the end of the manual.

So, in use you drop in the song, decide on the pre scroll pause time & enter it, set the inter song pause duration if any are used, calculate the scrolling time & enter it as the scroll speed setting, save your settings and check with the transport to make sure it all times right for you

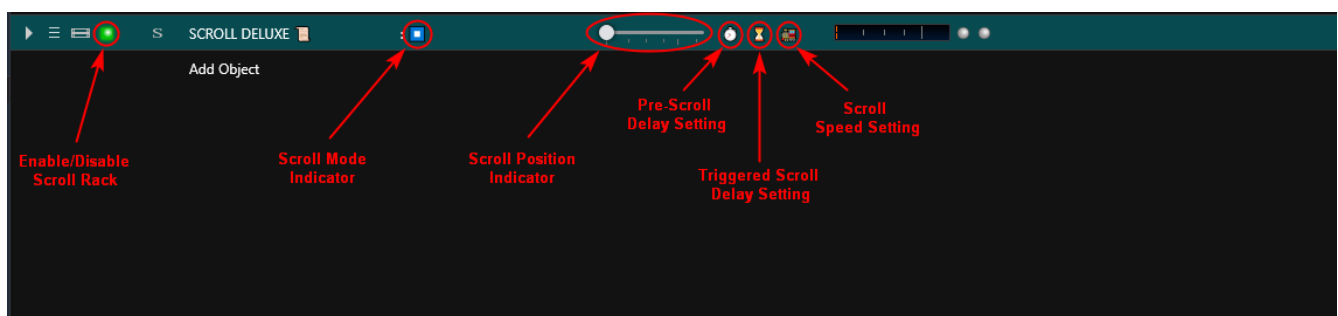
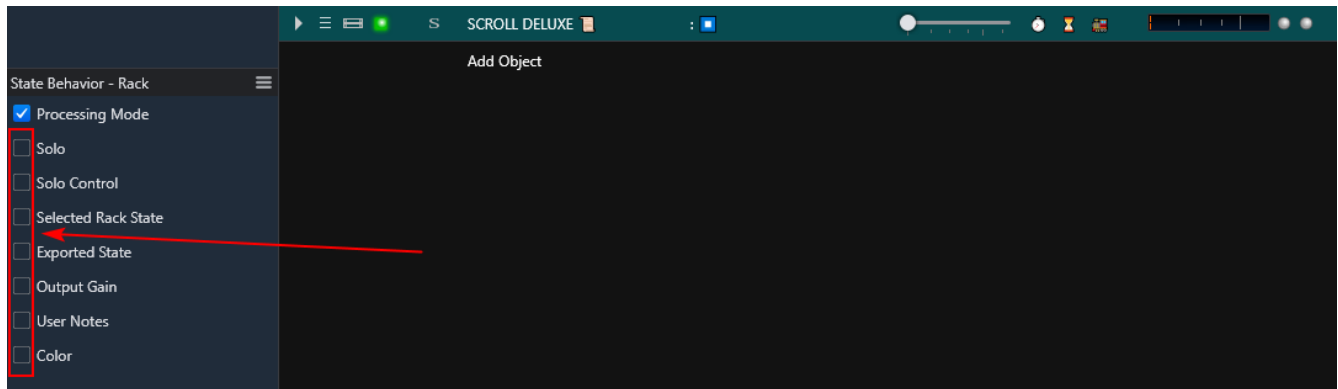
The easiest way to start off on the right foot is to unzip the contents of the .zip file to the C3 Racks folder location you use and it's ready to go. It's contents include a PDF manual as shown here.



In the Tools>Options>Miscellaneous>Advanced area make sure ‘Show Loopback Ports’ are checked!

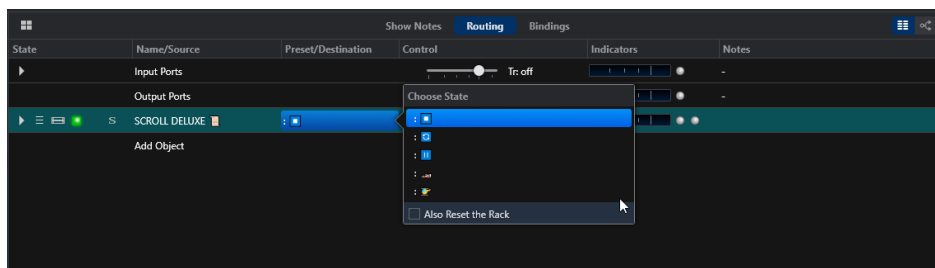


On the first loading into a song set the state behaviors for the rack as shown below so that all boxes except the Processing Mode is unchecked.



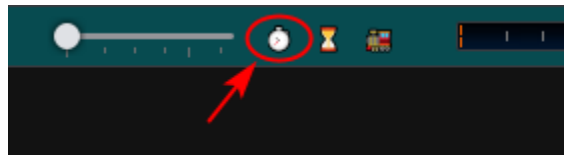
In the picture above you see a description of the rack buttons on the rack that help make it easier to use I hope.

- the rack states hamburger menu acts as the mode indicator for the rack.
- the racks' gain slider acts as a position indicator for the Live Notes Scroll position
- the first custom button is used for opening the binding dialog box for setting the Pre Scroll delay time
- the second custom button is used for opening the binding dialog box for setting the delay time of the pauses in the song triggered by CC switch
- the third custom rack button is used for opening and setting the delay time that sets the scrolling speed

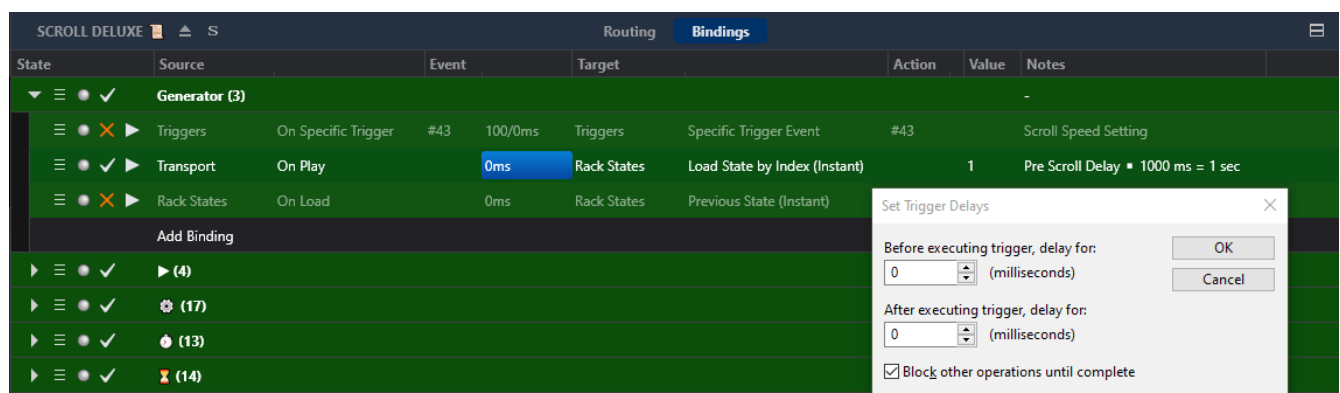


The hamburger menu mentioned in the picture above has a few different states that act as indicators of Stopped, Scrolling or Paused for the rack. State 1 is "Scroll Stopped or Paused", State 2 is Scrolling, State 3 is the inter song pause state, State 4 is FF state, State 5 is FF Safety state.

As mentioned earlier the 1<sup>st</sup> custom rack button opens the dialog box for setting the Pre Scroll delay value

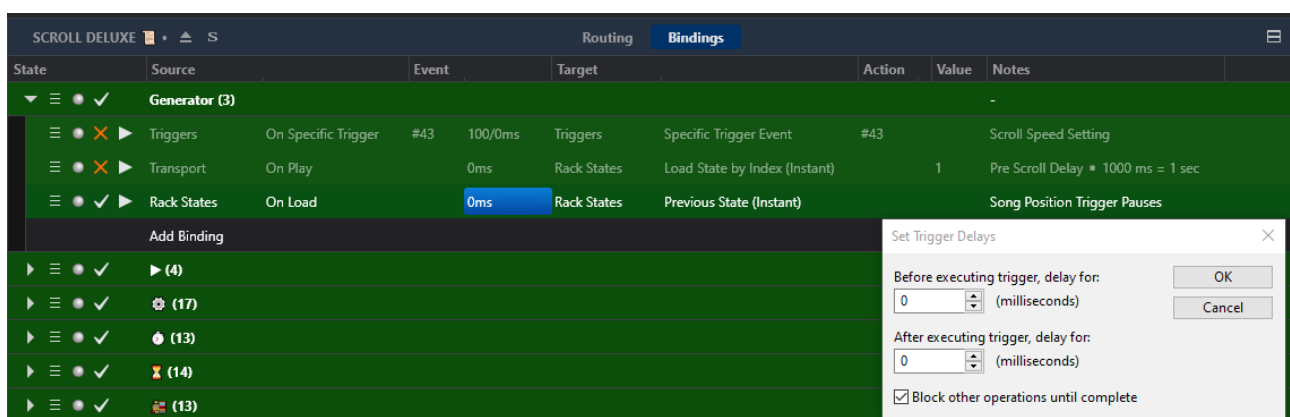
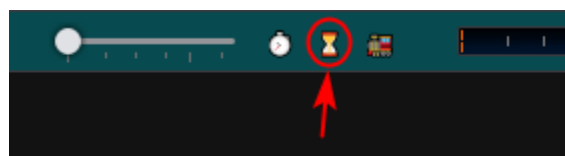


Once you press the custom button it opens to the dialog box where you set the Pre- Scroll delay value in the top box only leaving the bottom box set to 0 milliseconds. The value is entered in milliseconds into the value box so the rack is made so that (1000 ms in the delay box = 1 second of pre scroll delay time) so for example 10 seconds pause before starting scrolling would be entered as 10000 ms.



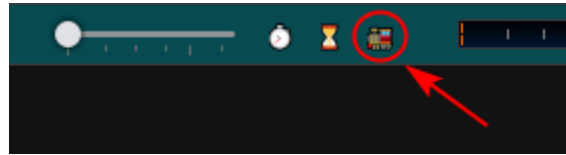
when done you press OK and then you can either edit the scroll time value in the binding above or close the rack editor using the Close Rack icon on the rack or the escape key on the PC keyboard.

The 2<sup>nd</sup> Custom button on the rack opens the setting box for the inter song triggered pause time settings.

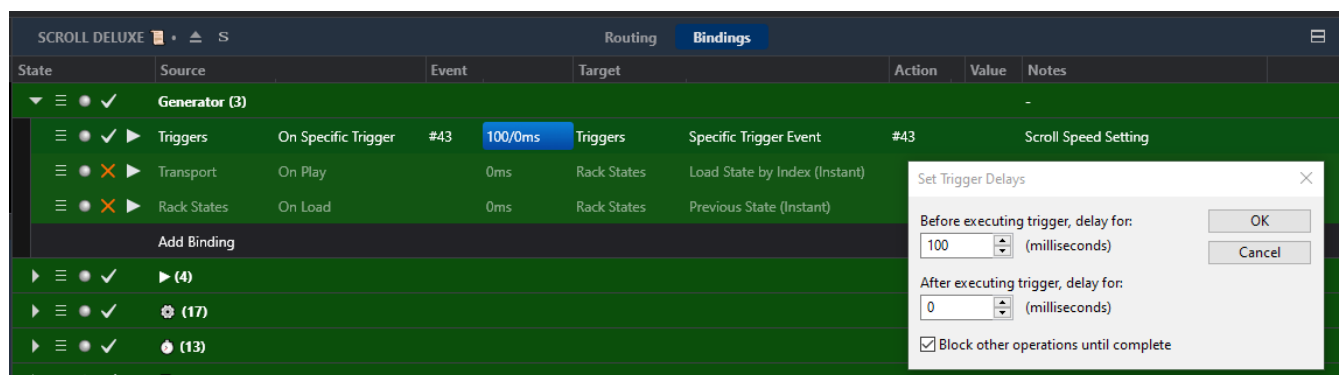


This value is the same for all the delays you want in the song and is set the same way as the Pre Scroll value so a pause of 10 seconds would be entered as 10000 ms.

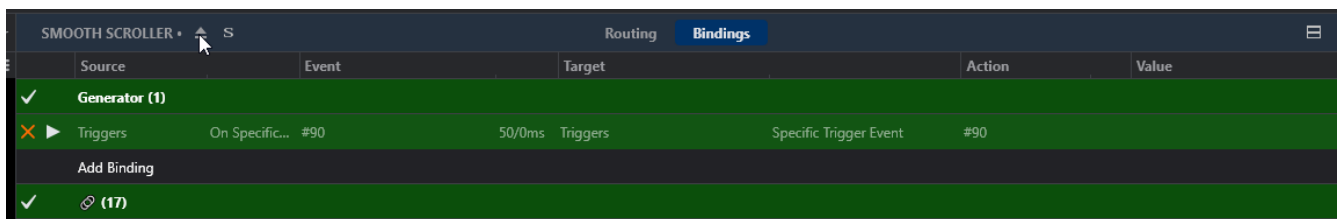
The 3<sup>rd</sup> custom button is for opening the settings box for the scroll speed delays value.



It is entered in to the top box as in the setting for the pre scroll delay time. The formula for the value is based on 1 ms in the box = 1 second of scroll time. So a song that was 3 minute 40 seconds would be 220 seconds which with no pre scroll pause or song pause delays would be entered into the box. When adding the pre scroll delay and pause options you would subtract roughly that value from your song length entry. e.g. song time = 220 seconds minus the pre scroll delay + pauses = 40 seconds = 180 seconds for the speed value (entered as 180ms) instead of the full 220 seconds. This ensures the Show Notes will get fully scrolled to the bottom in the time the song tracks run. There is a little room to play with both the pre scroll, pause and the scroll time values that help customize it for each song so experimenting is needed at first to figure each song out.



As with the pre scroll settings when done you press OK and then you can either edit the scroll time value in the binding above or close the rack editor using the Close Rack icon on the rack or the escape key on the PC keyboard.



Use the Windows Function Key F9 from the inside of the rack or at the song level after any of the above settings setting to update & save your settings and to automatically close the rack editor with one keystroke in the event you are there editing. You can also use the Hotkey combination Ctrl+Shift+S to Save All files.



The following switches mentioned above are some CC numbers to use when operating the scroll rack remotely and in Stand Alone or Teleprompter mode.

**CC2** sets the Show Notes to the top position and resets the Scroll rack ready to start the cycle again in **Stand Alone only**.

**CC3** is starts the starts the Scrolling. It also acts as a Scroll resume switch in **Stand Alone only**.

**CC4** triggers the Triggered Pause in both the Transport Linked mode & Stand Alone

**CC5** pauses the Scrolling when pressed & resumes when released in both the Transport Linked and Stand Alone modes

**CC6** Fast Forwards the Scrolling when pressed & Resumes regular scrolling when released in both the Transport linked and Stand Alone modes

Here are some example input bindings for the remote CC messages to the rack used in Stand Alone & Transport linked use (CC4, CC5 & CC6).

State	Source	Event	Target	Action	Value	Notes
SCROLL STATE REMOTE SWT (5)						
Input Port - Main Keyboard	Omni	Controller (No Edge Button) 2	SCROLL DELUXE - MIDI In Ch: 1	Controller... 2		SCROLL STOP & RESET SHOW NOTES to TOP
Input Port - Main Keyboard	Omni	Controller (No Edge Button) 3	SCROLL DELUXE - MIDI In Ch: 1	Controller... 3		SCROLL START & RESUME
Input Port - Main Keyboard	Omni	Controller (No Edge Button) 4	SCROLL DELUXE - MIDI In Ch: 1	Controller... 4		SCROLL TIMED DELAY
Input Port - Main Keyboard	Omni	Controller 5	SCROLL DELUXE - MIDI In Ch: 1	Controller 5	0,127 → 0,127	SCROLL MANUAL PAUSE & RESUME
Input Port - Main Keyboard	Omni	Controller 6	SCROLL DELUXE - MIDI In Ch: 1	Controller 6	0,127 → 0,127	SCROLL FAST FORWARD

Here are some example bindings for the transport position trigger bindings you could use at song level to trigger timed pauses to the scrolling during the song playback.

TRANSPORT Position Triggers (2)						
Transport	On...	00:00:50.000	SCROLL DELUXE - MIDI In Ch: 1	Controller... 4		Pause 1
Transport	On...	00:01:40.000	SCROLL DELUXE - MIDI In Ch: 1	Controller... 4		Pause 2

My previous versions of scroll rack had only 127 steps which were interpolated into the 0.000 to 1.000 scaling used by the Show Notes position bindings. I decided to use that scale to test it but didn't like the chunkiness of it and expanded the rack to include high resolution scales using MIDI Fine bindings and longer sequences of numbers in the Controller value boxes. In the case of the scroll function here I settled on 1 to 1 ratio, no interpolation or 1000 steps. In practice this equaled splitting the notes content into 1000 scroll steps. This produced a much smoother response in the Show Notes scrolling action than the 127 interpolated action.

Special Thanks to Brad Robinson for creating and supporting Cantabile 3 Performer and all the good folk of the Cantabile User Community.

Thank You for Your Interest ▪ Dave Doré ▪ March 1, 2021