

Installation instructions for updating the K4 / KS5 / KS Rack Operating System

Installing the OS TX program

Copy both the 'OS TX' folder and the 'KSOS2102.OS' file to the desktop.

Open the folder 'Novation OS tx' and double click the setup.exe file within this folder. The installer will start and will prompt for any running applications to be closed. Once any running applications have been closed, click the 'OK' button. The installer will install the utility to default directory

C:\Program Files\NovOSTX.

Click the install button. A new program group will be added called 'New OS Download'. Click the 'Continue' button. A dialogue box will appear to show that the installation was successful.

Preparing the KS4 / KS5 / KS Rack

Connect the MIDI input of the KS4, KS 5 or KS Rack to the MIDI output of a MIDI interface in turn connected to the computer. With the KS turned off, press and hold the menu buttons 3,4 & 5 (filter, lfo's, env's) simultaneously and turn the KS on. The KS will show:

NEW MIDI OS?

Press the 'Write' button to accept this prompt. The KS will now show:

WAITING MIDI OS

Using the OS TX program

Launch the OS TX application from the program list within the Windows start menu. This is 'OS TX.exe' within the folder :

Programs/New OS Download.

The screen shown to the right will be displayed

The MIDI port box should show the MIDI port of the connected MIDI interface. If not, select the appropriate port from the 'MIDI Ports' tool bar.

Click the File menu and select Load OS File. Locate the file 'Ksos2102.os' from the desktop and click 'Open'.

Click the 'Send OS' button. The KS will show the percentage of operating system received on its screen. When this reaches 100% the KS will prompt to be rebooted. Turn the KS off. Hold down the 'menu 5 (env's) button and simultaneously turn the KS on.

Check that the screen initially shows one of:

KS RACK 2.1.02

KS KEYBOARD 2.1.02

If this screen is shown, the OS update has been successful and the temporary files saved on the desktop can be deleted.



KS OS 2.1.02 changes

This latest operating system for the KS series synths incorporates several code improvements over previous operating system versions. The most important of which are:

- 1) changing patches while voices are still sounding no longer produce any audible artifacts
- 2) note stealing behavior is improved
- 3) drum voice triggering / retriggering is improved
- 4) MIDI clock synchronisation is now tolerant of even very poor quality MIDI clock.

There are also new features introduced in this operating system that can be found within the **global menu** of the KS.

These are:

1) Pot Mode

This parameter determines if the values of Knob parameters jump immediately to the actual position of the Knob as soon as it is turned or if the Knob has to pass 'through' the value of the parameter stored in a patch before the knob is allowed to change the parameter values.

If set to 'JUMP', the value of the parameter being edited will change to a new value as soon as the knob is turned. This is useful when creating sounds as the parameters are always 'Live'.

If set to 'PICKUP', no change will take place to the parameter being edited until a knob is turned so that it has passed 'through' the value of the edited parameter stored in memory. The knob then becomes 'live' and will start editing the parameter and transmitting the appropriate controller via MIDI. eg if the position of the filter frequency knob is equal to a value of 030 and the value for filter frequency in a stored program is 064 the filter frequency knob will not become 'live' until this knob has been moved to the position equal to the filter frequency value 064.

2) Sust Pedal Type

This parameter allows for the use of both normally open and normally closed sustain pedals to be used with the KS synthesiser.

If set to 'N/O' the KS will function correctly with a normally open sustain pedal. If set to 'N/C' the KS will function correctly with a normally closed sustain pedal.

3) Midi Clock

This menu page determines how the KS will react to incoming MIDI clock messages. The available settings are 'AUTO', 'INTERNAL' and 'EXTERNAL'.

When set to 'AUTO', the KS will default to operating at the internal clock rate set by the Arpeggiator Tempo knob unless MIDI clock is present at the KS MIDI input. If MIDI clock is present at the KS MIDI input the KS will run at the external clock tempo.

When set to 'INTERNAL' the KS will only operate at the internal clock rate set by the Arpeggiator Tempo knob. The KS will ignore any MIDI clock present at the KS MIDI input.

When set to 'EXTERNAL' the KS arpeggiator will not run until MIDI clock is present at the KS MIDI input. Once MIDI clock is sent to the KS, the sync rate is then set by the tempo of the external MIDI clock received. If this clock is interrupted, the sync rate will remain at the last received MIDI clock tempo and the arpeggiator will 'free run' at this tempo until fresh MIDI clock is received by the KS.