

# nord organ 3

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## USER MANUAL

Nord Organ 3

*English*

OS version: v1.0x

Edition: C



**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK  
DO NOT REMOVE COVER (OR BACK).  
NO USER SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED PERSONNEL.

**ATTENTION:** POUR EVITER LES RISQUES DE CHOC ELECTRIQUE, NE PAS ENLEVER LE COUVERCLE.

AUCUN ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER.  
CONFIER L'ENTRETIEN AU PERSONNEL QUALIFE.

**AVIS:** POUR EVITER LES RISQUES D'INCIDENTE OU D'ELECTROCUTION, N'EXPOSEZ PAS CET ARTICLE A LA PLUIE OU L'HUMIDITET.



The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

*Le symbole éclair avec le point de flèche à l'intérieur d'un triangle équilatéral est utilisé pour alerter l'utilisateur de la présence à l'intérieur du coffret de "voltage dangereux" non isolé d'ampleur suffisante pour constituer un risque d'électrocution.*



The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

*Le point d'exclamation à l'intérieur d'un triangle équilatéral est employé pour alerter l'utilisateur de la présence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instructions accompagnant l'appareil.*

Instructions pertaining to a risk of fire, electric shock or injury to persons.

## IMPORTANT SAFETY INSTRUCTIONS

### SAVE THESE INSTRUCTIONS

**Warning** - When using electric products, basic precautions should always be followed, including the following:

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



## Additional Safety Information

No naked flame sources, such as lighted candles, should be placed on the apparatus;

Do not use the apparatus in tropical climates.

**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

The mains plug is used as the disconnect device and shall remain readily operable.

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées;

L'appareil n'est pas destiné à être utilisé sous un climat tropical.

L'appareil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et de plus qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Lorsque la prise du réseau d'alimentation est utilisée comme dispositif de déconnexion, ce dispositif doit demeurer aisément accessible.

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# Congratulations on your purchase!

To get the most out of your new instrument, please take a minute to read about our free sounds and downloads, all of which can be found at [nordkeyboards.com](http://nordkeyboards.com)



## OS Updates

The latest versions of the operating system for your product can always be found on [nordkeyboards.com](http://nordkeyboards.com)



## Nord Sound Libraries

By purchasing a Nord product, you get free access to a large selection of high-quality sounds and samples. The Nord Sound Library consists of the Nord Piano Library and the Nord Sample Library as well as collections and exclusive Signature Sound banks created by renowned Nord artists from around the world.



## Nord Sound Manager

For backup, transferring and organizing new sounds from our Sound Libraries to your Nord you will need to download the Nord Sound Manager.



## Nord Sample Editor

The Nord Sample Editor let's you easily record or drag and drop audio-files and enjoy automatic mapping with pitch detection, simple looping and instant transfer to your Nord instrument.

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# 1 INTRODUCTION

## THANK YOU!

Thank you for choosing the Nord Organ 3 – the latest generation of our Organ series, featuring extensive improvements to sound, design and performance. With greatly enhanced organ engines, added modulation effects and a new, exceptional Rotary Speaker emulation, the Nord Organ 3 offers unsurpassed levels of detail and realism.

## FEATURES

The Nord Organ 3 has the following main features:

- Vintage B3 tonewheel organ model.
- Vx and Farf transistor organ models.
- Soft B3 organ model.
- Pipe Organ model.
- 4 sets of physical drawbars and 2 Bass Pedal drawbars.
- Upper B, Lower A and Bass Pedal drawbar sets equipped with LED graphs.
- Rotary Speaker with five selectable microphone positions for the treble horn and mono/stereo option for the bass rotor.
- 3 distinct Drive Types for the Rotary Speaker.
- Modulation effects including Phaser, Tremolo, Chorus, Ring Modulator and Flanger.
- Advanced Delay effect with tap-tempo function, Analog mode, Feedback filters and option to limit operation to the Upper manual.
- 3-band EQ with sweepable middle band.
- Comprehensive Reverb effect including Spring reverb and option for placing effect before or after Rotary Speaker.
- Dual manuals with 2 x 61 waterfall keys equipped with triple sensors for optimal organ keyboard feel and response time.
- Auxilliary Output for separate handling of clean organ signal, bass pedals and more.
- High Level outputs with quarter-inch as well as a 11-pin Leslie™ standard connectors allowing for direct connection to rotary speakers. When using the 11-pin connector, the panel controls for rotation speed are transferred as well.
- Dedicated Bass Pedal MIDI connector for use with any MIDI compatible pedal keyboard.

## NORD ONLINE

On the website [nordkeyboards.com](http://nordkeyboards.com) you will find:

- » Information about the Nord Organ 3 and other Nord instruments
- » Latest Operating Systems for download
- » Nord Sound Manager software

- » Nord Newsletter: Get updates about OS releases, new sounds and software
- » Nord Live sessions and other videos
- » User Manuals for download

Follow Nord Keyboards on Facebook, Instagram, X and YouTube. Feel free to tag your content with our official hashtag #iseenord.

## ABOUT THE USER MANUAL

This manual is organized primarily as a reference guide detailing all of the available features of the instrument. You will also find practical examples of how to use these features in a musical context.

## READING THE MANUAL IN PDF FORMAT

This manual is available as a digital PDF file. It can be downloaded from the Nord Organ 3 section on our website.

## OS UPGRADES

The latest OS (Operating System) version for the Nord Organ 3 is always available for download from our website. Please visit our website from time to time or subscribe to the Nord Newsletter, to make sure you have the latest version in your unit.

**i** *Note: Early units were shipped with an OS version where a small number of panel features were not yet available. To make sure you have access to all features, visit [www.nordkeyboards.com](http://www.nordkeyboards.com) and download the latest OS version for the Nord Organ 3.*

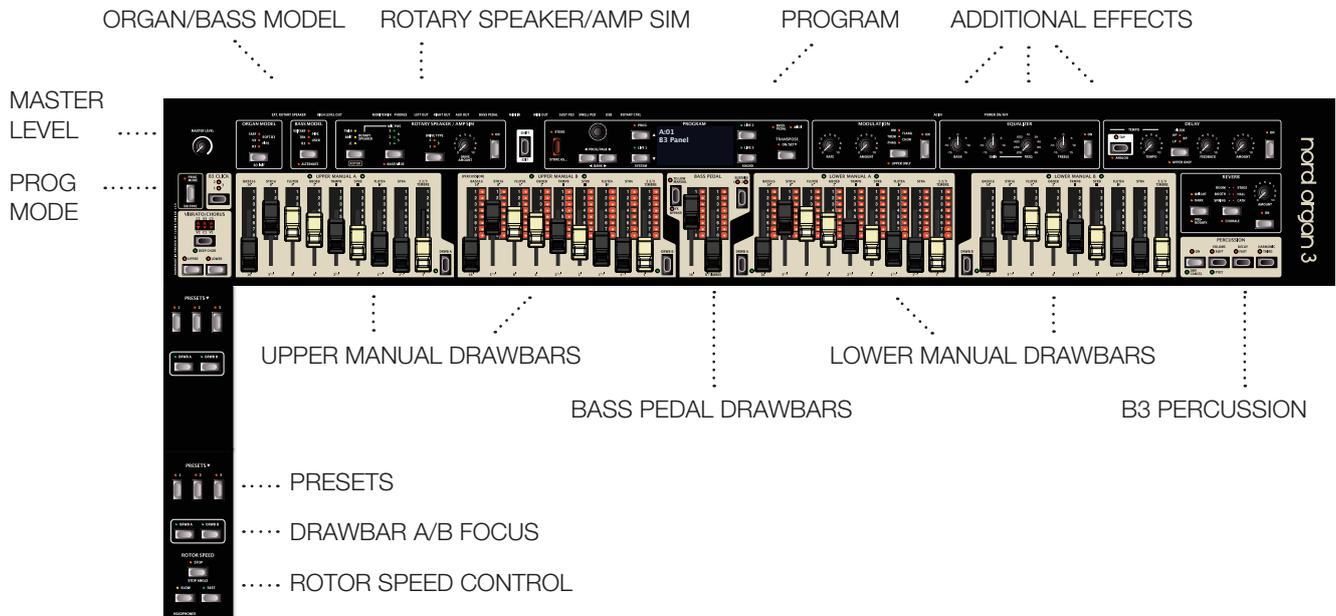
## RESTORING THE FACTORY PRESETS

A complete backup of the entire instrument and its factory content, is available on the Nord Keyboards website, should the instrument need to be restored to its original state at some point.

## DISCLAIMER

Any trademarks and brand names mentioned in this manual are the property of their respective owners and are not affiliated or associated with Clavia. These trademarks and brand names are only mentioned to describe certain sound qualities reproduced by the Nord Organ 3.

# 2 OVERVIEW



## THE NORD ORGAN 3 PANEL

The Nord Organ 3 front panel is laid out with all related features and controls logically grouped in individual sections, and in correspondence with the original reference instruments whenever possible. Let's have a quick look:

### MASTER LEVEL

At the far left is the Master Level control for setting the overall volume level for all outputs, including the High Level and Aux outputs.

### PROGRAM MODE (PROG MODE)

This important control determines whether the *physical positions* of the drawbars are used for all drawbar sets – referred to as *Panel Mode* – or whether the central drawbar sets use the settings stored with a Program – referred to as *Program Mode*. In Program mode, drawbar settings are indicated with single LEDs being lit at the endpoint of a drawbar setting.

A number of other panel functions, such as B3 Percussion, Vibrato/Chorus and more are also included in the Panel and Program modes respectively. Read more about this setting on page 13.

### ORGAN AND BASS MODEL

The Nord Organ 3 features five distinct Organ Models and five Bass Models, the latter of which come with an alternate option, providing useful and creative variations on each Bass Model setting. Organ and Bass Models are selected individually, allowing for matching the

Organ and Bass registers as on the original instruments, or for free combinations of Organ and Bass sounds.

The Organ and Bass Models are described further on page 14.

### ROTARY AND AMP SECTION

This is where the Rotary Speaker simulation and other amplifier simulations are activated. The Rotary Speaker comes with additional settings for Mic Positions and Drive Type, allowing for a wide range of variations in sound and character.

Read more about these features on page 18.

### PROGRAM AREA

The central Program area is where programs are navigated, stored and loaded, and is also where you will find the System and Sound menus, containing important settings related to areas such as pedal and MIDI functionality, output routing options, sound and character of the Rotary Speaker and more.

The Program area is covered in detail, beginning on page 20.

### ADDITIONAL EFFECTS

In addition to the Rotary and Amp options a selection of additional effects are available:

The *Modulation* unit provides essential modulation effects such as Tremolo, Chorus and Phaser – modelled after legendary stomp boxes and effects units.

The *Delay* effect can be used for anything from subtle ambience or slap-back effects to almost endless soundscapes. The three different feedback filters allow for further tailoring the sound of the Delay feedback tail.

A versatile *Equalizer* with a sweepable middle band allows for both broad and very fine tonal adjustments.

Finally, the *Reverb* effect provides a wide range of small and large room simulations, as well as the new *Spring* reverb type. With the Pre-Rotary option it is possible to place the Reverb before the Rotary Speaker, corresponding to a common organ set-up. For each Reverb type it is also possible to apply the alternate Bright or Dark settings as well as a lush Chorale mode.

Read more about the effects on page 22.

## UPPER, BASS PEDAL AND LOWER DRAWBARS

The Nord Organ 3 features two drawbar sets each for the Upper and Lower manuals – Upper Manual A/B and Lower Manual A/B.

Upper Manual B and Lower Manual A, as well as the two Bass Pedal drawbars are equipped with LEDs, used for displaying their settings when Program Mode or a Preset is active.

Upper Manual A and Lower Manual B always use the physical positions of the drawbars for their respective registrations.

Read more about drawbar functionality on page 9.

## DRAWBAR FOCUS AND PRESETS

The Drwb A and B (Drawbar A and B) buttons are present on the side panels for both the Upper and Lower manuals, as well as in connection to each drawbar set. These provide a quick and easy way of switching between the left (A) and right (B) drawbars for each manual, regardless of whether Panel or Program Mode is active.

The three Preset buttons for each manual provide quick access to a range of user-adjustable registrations, globally shared by all programs. This means that whatever program is currently selected the available Presets remain the same, for the selected Organ Model.

Read more about Drawbars, Drawbar Focus and Presets on page 13.

## ROTOR SPEED CONTROL

Changing the speed of the Rotary Speaker is done using the Rotor Speed controls, at the bottom of the Lower Manual side panel – placed at a position similar to where rotation speed is normally changed on the original instrument.

Additional methods of changing the Rotor Speed include using an attached switch pedal or the optional Half-Moon Switch.

Read more about Rotor Speed control on page 18.

# 3 GETTING STARTED

Let's spend a few minutes getting acquainted with the most fundamental features of the Nord Organ 3, and go through some common tasks and scenarios in a stepwise fashion.

## HOOKING IT UP

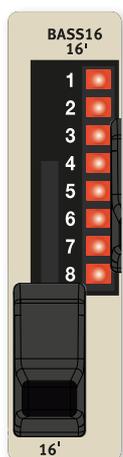
- 1 Connect the power cord to the Nord Organ 3 and a mains power supply.
- 2 If using the Nord Pedal Keys 25, connect its included MIDI cable from the **MIDI OUT** jack of the Pedal Keys to the **BASS PEDAL** input of the Nord Organ 3.

*The Nord Organ 3 provides phantom power to the Nord Pedal Keys 25, on the Bass Pedal jack. This means that the external power supply for the Nord Pedal Keys 25 does not need to be attached when using this combination.*

- 3 If using a Swell pedal, connect this to the **SWELL PEDAL** input of the Nord Organ 3.
  - i** Depending on the specific Swell Pedal type being used, it might be necessary to adjust the Swell Pedal settings, found in the **SYSTEM** menu (Shift+Live 1).
- 4 To monitor the sound, connect a set of **HEADPHONES** or attach the Nord Organ 3 to a sound system, using the **LEFT** and **RIGHT** outputs.
- 5 Make sure to turn on the Nord Organ 3 first, *before* the sound system. Please be careful with the output volume!

For more information on all the connections of the Nord Organ 3, see the Connections section on page 31.

## PANEL CONTROLS



### DRAWBARS

The drawbars consist of a physical slider, and for the central drawbar sections also an LED graph which provides a visual indication of the current setting for a drawbar. As on a traditional organ, the zero position for a drawbar is at the top, with the drawbar being pulled out to increase its value.

## DIALS AND KNOBS



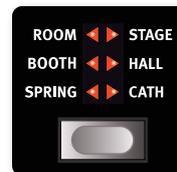
The **PROGRAM dial** is a knob without fixed start and stop positions, used for navigating Programs, and when in a menu for changing parameter settings.



Potentiometer-type *knobs* are used for most panel settings on the Nord Organ 3. When a program is loaded, the physical positions of these knobs will in most cases not correspond to the stored values. As soon as a knob is turned however, its associated parameter value will “snap” to the knob's position.

*To monitor the current value of any knob parameter, press and hold the **SHIFT** button while turning that knob.*

## BUTTONS



Selector buttons are used for selecting one setting from a group of available options. They have a set of round or triangular LEDs to indicate the current setting. Press the button several times to cycle through the possible settings.



**ON/OFF** buttons are used for activating a function or a group of functions such as effects and have a LED close to them to indicate the on/off status.

## BUTTON HOLD FUNCTIONS



Some buttons, such as that for the Transpose, can be *held down* in order to access a function or make additional settings, indicated by the text being accompanied by a down arrow (▼).

## THE SHIFT BUTTON

Many panel controls on the Nord Organ 3 have a *secondary* function, which is printed immediately below it. These additional functions are accessed by pressing and holding **SHIFT** while operating the control.

*Shift functions can also be activated by keeping their associated button pressed for a short period of time.*

The Shift button is also used to **EXIT** a menu or to cancel an ongoing Store operation.



## MASTER LEVEL



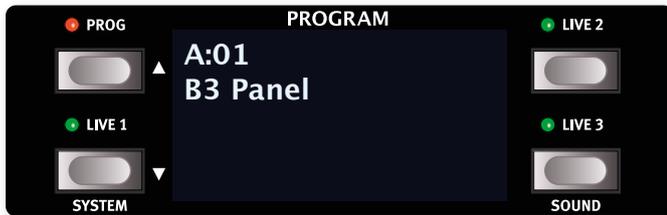
The Master Level knob sets the overall output level of the instrument. Unlike most other panel controls, its value is *not* stored with individual programs but will always have the level to which it is physically set.

## SOFT BUTTONS

Certain menu settings or actions are accessed using so called “soft buttons”. Soft buttons are positioned in the display in relation to the buttons surrounding it, and are controlled with the **PROG** and **LIVE 1-3** buttons.

## PROGRAMS

The *Program* area is located at the center of the panel, with the OLED display in the middle. A program contains complete settings for every parameter on the panel and is stored in the program memory of the Nord Organ 3, with enough room for 400 programs.



Programs are organized into 8 banks, labeled A-H. All programs can be edited and replaced as desired.

**i** A complete set of the factory programs is available from [nordkeyboards.com](http://nordkeyboards.com). This means that the program memory can always be restored to its original state.

## SELECT A PROGRAM

Programs are selected by turning the **PROGRAM** dial or by pressing the **PROG/PAGE** ◀ / ▶ buttons, which will navigate between programs in a stepwise fashion.

**i** The Page functionality of the Prog/Page buttons relates to how these buttons are used when the System or Sound menu is open, for navigating between menu pages.

A Program Bank on the Nord Organ 3 contains 50 program locations. Press **BANK** ◀ / ▶ (Shift+Prog/Page) to switch between different banks.

## LIST VIEW

Programs can also be viewed and browsed in a useful list view:



**1** Press **SHIFT** and turn the **PROGRAM** dial to enter a list view of all the Programs.

- 2** Browse to any program, using the **PROGRAM** dial. All 8 program banks can be accessed when in List mode.
- 3** Press **SHIFT** again to **EXIT** the List view.

## PROG MODE (PROGRAM MODE)



The important **PROG MODE** button determines the behaviour of the LED equipped drawbars. When Prog Mode is lit, *Program Mode* is active and the LED equipped drawbars are using the drawbar settings that belong to the currently loaded program. The setting for each drawbar is in this case indicated with a *single LED*.

When Prog Mode is off, *Panel Mode* is active in which case the drawbar LEDs are unlit and the *physical positions* of all drawbars are used.

A number of other panel functions are also individual for the Panel and Program modes respectively. These include:

- **B3 CLICK**
- **VIBRATO/CHORUS**
- **TO LOW MANUAL** and **FX BYPASS** settings for the Bass Pedals
- **SUSTAIN** for the Bass Pedals
- **B3 PERCUSSION**

The Prog Mode setting is stored per program, meaning that some programs can be loaded using drawbar settings appropriate for that specific program, while others maintain the physical drawbar positions.

**💡** The Panel Mode setting is useful for maintaining a “manual” organ that persists between program changes, meaning that you can keep all the drawbar and other settings listed above as you last left them, while loading a different program using other settings for the Rotary Speaker, Effects, and anything else that is stored with a program.

## THE “NORD B3” PROGRAM

When shipped, the Nord Organ 3 is set to start up with the special “Nord B3” program selected. This program functions differently from other programs in a couple of important ways:

- This program, regardless of edits made to it, will always load with the B3 Organ and Bass models selected, and in Panel Mode (meaning that physical positions of drawbars are used), with the Rotary Speaker set to its default values.
- Its program location can not be stored to, meaning that the program is “read only” and can not be overwritten.

This program is intended as a suitable starting point for instruments that may be used by multiple musicians, and where edits made by a previous user should not persist after the instrument has been turned off.

**💡** If desired, the setting for booting to the Nord B3 program can be turned Off, in which case the instrument will start up to the program that was selected when the instrument was last turned off. This is done on the first page of the **SYSTEM** menu (Shift+Live 1). See page 28 for more details.

## EDIT A PROGRAM

Editing a program is as easy as turning a knob or pressing a button, changing an existing setting to a new one:

- 1 Dial up program A:01 B3 Panel. Note that this program unlike all other factory programs is stored with **PROG MODE** turned off, meaning that *Panel Mode* is active.

### ADJUST THE ROTARY SPEAKER

- 2 The selected program uses the Rotary Speaker, which contains a number of options for fine tuning its character. Try pressing the **MIC POS** button repeatedly and listen to how the character of the rotating horn changes with each of the different settings.
 

*Apart from the on-panel settings for the Rotary Speaker, there is a range of global settings in the Sound menu (Shift+Live 3) for adjusting the slow and fast speeds, acceleration rates, rotor/horn balance and more.*
- 3 Now do the same thing with the **DRIVE TYPE** setting: Turn the Drive Amount control up a little bit, and listen for how the character of the overdrive changes as Drive Type is changed. Note that at the “0” setting, the overdrive is turned completely Off.
 

**i** Changing any parameter on the panel causes an “E” to appear next to the program number in the display. This indicates that the program has been edited but not yet saved. If another program is loaded before a Store operation is performed, any edits are lost and the program will have its original settings the next time it is loaded.

## TURN OFF MEMORY PROTECTION

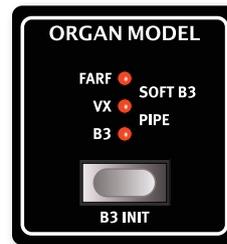
When the Nord Organ 3 is shipped from factory its memory is protected to prevent accidental overwriting of original programs. Memory protection can be turned off from the System menu:

- 1 Hold **SHIFT** and press the **SYSTEM** (Live 1) button at the left side of display.
- 2 Memory Protect is the first setting of the *System* menu. If the display shows a different setting, use the **PROG/PAGE** ◀ / ▶ and ▲ / ▼ (Prog/Live 1) buttons to navigate to the Memory Protect setting.
- 3 Change this setting to *Off* by turning the **PROGRAM** dial.
- 4 Press **EXIT** (Shift button) to exit the *System* menu.
 

**i** This setting, like most other System settings, will be permanently stored until it is changed again.

Read more about menus and their settings on page 29.

## CHOOSE AN ORGAN MODEL



- 1 Select the **B3** model, if it is not selected already, using the **ORGAN MODEL** selector button.
- 2 Make adjustments to the organ registration, using the drawbars. Depending on whether *Program* or *Panel* mode is active, the central drawbar sections may have their drawbars lit or not.
- 3 Now select the **VX**. This model also has continuous drawbars, similar to the B3 model, but features a special way of adjusting its timbre: The 9th drawbar provides a gradual transition from the “soft” to the bright, “reed” timbre, with a 50/50 mix of these two registers at the middle position of the drawbar. The 8th drawbar is not used for the Vx model.
- 4 Now select the **FARF** model. With this organ model the drawbars function in *switch* mode, with only two settings for each, corresponding to the “rocker switches” of the original model.
- 5 Finally, select the organ model you want to keep using for now.

### CHOOSE A BASS MODEL



Regardless of selected Organ Model, the Bass Model used for the Bass Pedal registers can be chosen freely among the available options - **B3**, **TRK**, **VX/FARF**, **PIPE** and **USER**. This allows for combining the Upper and Lower manuals of a particular Organ Model with any other Bass Model as desired.

Activating **ALTERNATE** (Shift+Bass Model) selects an alternate Bass Model for the current position, except when at the **USER** position where pressing Alternate displays a list of available presets, also available from the Sound menu.

- i** When Prog Mode is active, the User Bass Model selection is stored as part of the Program. In Panel Mode, the User selection persists for all programs that are set to Panel Mode.

## ACTIVATE EFFECTS

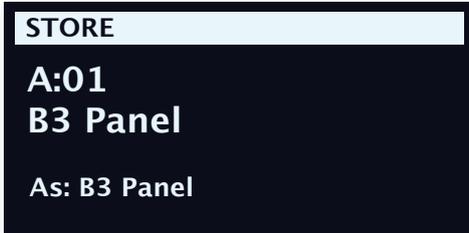
- 1 Turn on the Reverb, if it is not already, using the Reverb **ON** button.
- 2 Choose a Reverb type to your liking by pressing the selector button repeatedly.
- 3 Adjust the dry/wet balance by turning the **AMOUNT** knob above the Reverb On button.
- 4 Select the Reverb **PRE-ROTARY** option by pressing **SHIFT** and the **BRIGHT/DARK** button simultaneously and note the difference in sound as the Reverb effect is now placed before, and routed into, the Rotary Speaker.
 

**i** The Rotary Speaker/Amp Sim section should be turned On and set to Rotary Speaker for the above step to have the intended effect.
- 5 Activate the Delay effect by pressing the **DELAY ON** button.
- 6 Try out the **TEMPO**, **FEEDBACK** and **DRY/WET** controls, to alter the character and intensity of the Delay effect.

---

## STORE A PROGRAM

- ① Press the red **STORE** button once to begin the process of storing the current program.
- ❗ *Press Shift/Exit once to cancel an ongoing Store process.*
- ② The **STORE** LED will begin to flash and the display will ask for the location to which the program should be stored.



- ③ If you want to store the edited version to the current location, replacing the original, simply press **STORE** again. If not, use the dial and/or **PROG/PAGE** buttons to select a different location.
- 💡 *As you scroll through the program locations, each program becomes active on the keyboard. This allows for auditioning any program before it is replaced with the program being stored.*
- ④ When you have found a suitable location for your program, press **STORE** again to confirm the store operation.

Read more about Store and how to *name* a program in the Program chapter, on page 21.

---

## LIVE MODE

The three Live programs differ from other programs in that all edits made to them are instantly stored, without the need for a manual Store operation.

- ① Press the **LIVE 1, 2** or **3** button.
- ② Make an edit, such as activating one of the effects units, to one of the programs.
- ③ Select a different Live program and then return to the one that was edited. Note that the previously made edit was automatically stored.
- ④ Press the Prog button to return to the Program banks.

If a Live program is active and you wish to store the settings permanently as a *program* in one of the Program banks, you can do so using the Store methods described above. Conversely, programs can also be stored *into* any of the Live locations by pressing one of the three Live buttons at the “Store Program To” step.

# 4 ORGAN AND BASS MODELS

## PROG (PROGRAM) MODE



This important control determines whether the physical positions of the drawbars are used for all drawbar sets ("Panel Mode") or whether the central, LED equipped drawbars are lit – in that case using drawbar settings stored with the current program ("Program Mode").

A number of other panel functions are also independent for the Panel and Program modes respectively:

- **VIBRATO/CHORUS**, including Lower and Upper assignments
- **B3 CLICK**
- Bass Pedal **TO LOW MANUAL** (To Lower Manual)
- Bass Pedal **FX BYPASS**
- Bass Pedal **SUSTAIN**
- B3 **PERCUSSION**
- **USER** Bass Model selection

### DB SYNC

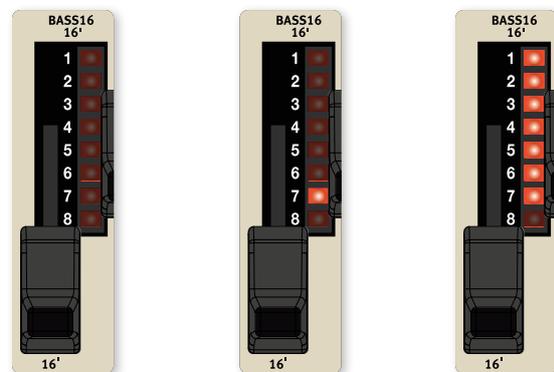
Press **DB SYNC** (Shift+Prog Mode) to synchronize the Program Mode settings with the physical positions of the drawbars.

If the program is currently set to *Program Mode*, the sync operation will *only* synchronize the drawbar positions.

In *Panel Mode*, DB Sync also synchronizes settings for Vibrato/Chorus, Percussion and other parameters listed in the Prog Mode section above. Press the **Yes** soft button in the screen presented when DB Sync is pressed, to go through with the sync operation.

## DRAWBARS AND LED GRAPHS

The drawbars for **UPPER MANUAL B**, **LOWER MANUAL A** and for the **BASS PEDAL** are accompanied by LED graphs. In Program Mode, the LED graph is lit using only the end-point LED for the current setting. When a Preset is active the entire LED drawbar is used. When Prog Mode is set to Panel, no LEDs are used for the drawbars.



Drawbar in **Panel Mode** Drawbar in **Program Mode** Drawbar with **Preset active**

The settings for **UPPER MANUAL A** and **LOWER MANUAL B** always correspond to the physical position of the drawbars, regardless of Prog Mode or Preset selection.

When an LED equipped drawbar set is not in focus its LEDs are dimmed.

## PRESETS



The three presets for each manual are *global*, meaning that *the same range of presets are accessible from any program*.

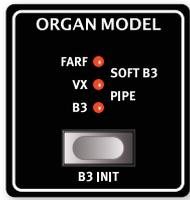
Moreover, the presets are stored per Organ Model, giving a dedicated set of presets for each of the B3, Vx, Farf, Soft B3 and Pipe options.

**i** As the Presets are global, and changes to them may affect multiple Programs, it is advised to use Program Mode (without Preset selected) for programs that should be guaranteed to sound the same when loaded.

### EDITING A PRESET

To edit a Preset, keep its button pressed down, as indicated by the arrow (▼), and adjust the drawbars. The Preset is stored automatically, with no need for a manual Store operation.

## ABOUT THE ORGAN MODELS



The Nord Organ 3 features five organ models, all digitally modeled; a tonewheel **B3** organ, two transistor organs (**VX** and **FARF**), the **SOFT B3** and the **PIPE** model.

**i** The Rotary Speaker is covered in a separate chapter, see page 18.

### SELECTING AN ORGAN MODEL

Use the **ORGAN MODEL** selector button to select an Organ Model for use. The Bass Model is selected independently, and can be set either to a model corresponding to the Organ Model being used, or to any other available model. Read more about Bass Model options on page 16.

### B3 INIT

Use the **B3 INIT** command (Shift+Organ Model) for quickly setting up a program with default settings using the B3 Organ and Bass Model, the Rotary Speaker at its default settings, and no other effects active.

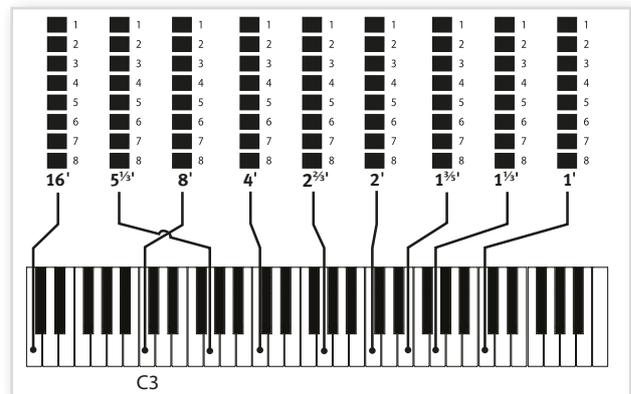
## THE B3 MODEL

The **B3** model is based on the classic electro-mechanical tonewheel organ. This simulation utilizes innovative and advanced methods to capture every nuance of the original sound. Here are some examples:

- An extremely accurate capture of the original chorus and vibrato scanner.
- Modeling of the individual contact bounces for each harmonic.
- Modeling of the unique frequency characteristics of the built-in pre-amplifier, which forms the “body” of the sound.
- Simulation of the energy robbing on the tone wheels that results in the typical “compressed” sound.
- Authentic tuning of the tonewheels according to the original design.
- Extremely fast keyboard response.
- Full polyphony.

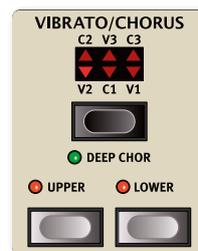
### B3 DRAWBARS

The harmonic intervals for the tonewheel organ are printed on the panel below the drawbars. Each drawbar represents a partial with a fixed harmonic interval in relationship with the played note. The illustration below shows the pitch interval among the nine drawbars when the key of C3 is played. Note that the 5 1/2' drawbar actually is a 5th above the fundamental harmonic (8') but in most situations is perceived as sounding below it.



**💡** Do not forget to try out the three tonewheel modes that are available in the Sound menu. These will change the sound of the B3 model from a clean, factory new unit to a battered, old workhorse.

### B3 CHORUS/VIBRATO



The original vibrato and chorus scanner in a tonewheel organ consists of a tapped delay line in combination with a rotating scanner. For the Vibrato effect, phase shift is applied to the signal. With Chorus, the phase modulated signal is added with the original signal.

Three different types of choruses (**C1** - **C3**) and three types of vibratos (**V1** - **V3**) are available. Select one of these types by pressing the selector button. The effect can be activated/deactivated for both manuals individually by using the **UPPER** and **LOWER** On/Off buttons.

The **DEEP CHOR** (Deep Chorus, Shift+Vibrato/Chorus) setting increases the modulation amount of the Chorus effect. The non-Deep and Deep Chorus settings correspond to early and late eras of the original design.

**i** The Lower On/Off button also controls Vibrato/Chorus for the B3 Bass Pedal registers.

### B3 PERCUSSION



The **PERCUSSION** effect adds extra attack to the sound by having a single envelope generator controlling either the 2nd or 3rd harmonic.

The percussion effect is available when the **UPPER MANUAL B** (Percussion) is in focus.

#### PERCUSSION TRIGGERING AND POLY MODE

The envelope “opens up” for a short moment at the beginning of the sound when a key is pressed. The percussion is, unless the polyphonic mode is enabled, a single-triggered, non-legato effect, meaning that the percussion is only present when you hit the keys and no other note is sounding. In other words, if you play a note or a chord and then add more notes without releasing the previously pressed keys, there will be no percussion effect in the new notes.

**i** The **POLY** setting (Shift+Volume Soft) enables polyphonic use of the percussion effect.

#### PERCUSSION SETTINGS

The **VOLUME SOFT** button toggles between Normal and Soft percussion level. The **DECAY FAST** button toggles between Slow and Fast decay times.

The **HARMONIC THIRD** button toggles between using the 2nd or 3rd partial as the source for the percussion effect. The percussion decay time can be fine-tuned for Fast and Slow mode individually, in the Sound menu. Please refer to page 30 for additional details.

On the original instrument, you could not use the percussion effect and 9th drawbar simultaneously. On the Nord Organ 3 the percussion and 9th drawbar can be used together by deactivating the **DB9 CANCEL** setting (Shift+Percussion On). With DB9 Cancel turned on, the original organ behavior is simulated – deactivating the 9th Drawbar whenever the percussion is turned on.

### B3 CLICK



On the original instrument, the key click produced by the random contact bounces quickly became a desirable effect amongst musicians. The **B3 CLICK** control allows for adjusting the amount of the key click, from a low level at the **1** setting to a medium amount at **2** and high level at **3**.

## THE VX MODEL

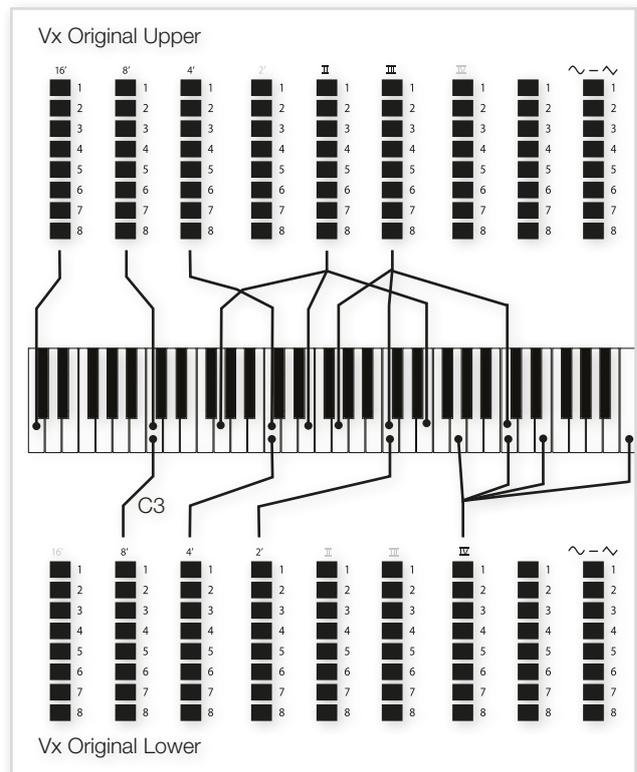
The original **VX** organ is probably the most famous of all the transistor based combo organs that emerged in the early 1960's. Transistor technology made it possible to manufacture compact and portable organ instruments. Compared to the mighty sound of tonewheel based organs, transistor organs generally sounded reedier and weaker, but this one had a distinctive sound character which together with the portability made the instrument massively popular at the time.

## VX DRAWBARS

The labels used for the Vx drawbars are printed on the row *directly above* the drawbar LEDs.

For basic drawbar operation, please refer to “Drawbars and LED Graphs” on page 15. The seven drawbars to the left control the level of each partial. Each partial has a fixed harmonic interval relating to the played note. The illustration below shows the pitch interval of the drawbars when the key of C3 is played. The intervals vary for the upper and lower manual on the original instrument, but are identical on the Nord Organ 3.

The rightmost drawbar controls the mix between a filtered signal sounding soft and dark, and an unfiltered signal sounding bright, “reedy” and intense.



### VIBRATO

There are several types of vibrato and chorus available for the Vox model, the **V3** setting being the one that is modeled after the original instrument.

The Vox model's Vibrato setting is shared by the Upper and Lower manuals, which are always turned On and Off in tandem.

## THE FARF MODEL

The typical “buzzy” sound of this vintage instrument is one of the most distinct and easily recognizable organ sounds ever created; yet it is actually possible to get quite a wide range of sounds out of the instrument. Note that the voices aren't supposed to replicate the instruments they are named after, but rather to describe the basic tonal characteristic of the voice: Flute = soft, Oboe = reedy, Trumpet = brassy etc.

## FARF REGISTERS

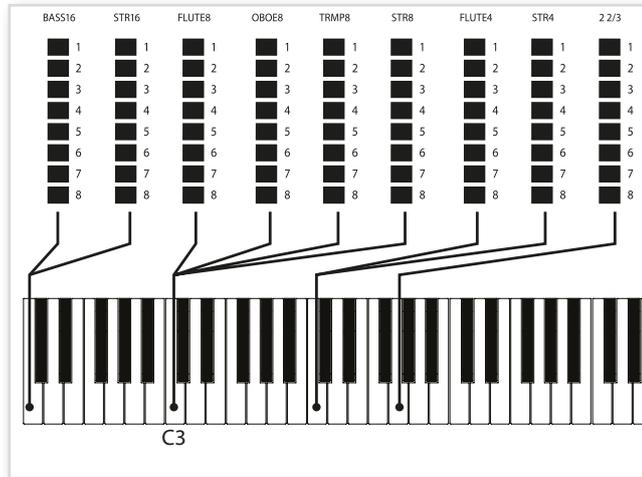
The labels used for the **FARF** drawbars/registers are printed on the *upper row*, above the drawbar LEDs or drawbars.

The drawbars act as on/off switches, or “register selectors” when the Farf model is selected. Instead of drawbars, the original instrument used rocker switches for selecting instrument voices (in reality different filter settings) in various footage (octave) ranges. Drawbar LEDs 5-8 are lit up for an activated voice, and drawbar LEDs 1-4 are lit up for a deactivated voice. Pulling a drawbar more than half way out will activate that register.

The table below shows the original register name:

Drawbar	Voice	Panel Name
1	Bass 16	BASS16
2	Strings 16	STR16
3	Flute 8	FLUTE8
4	Oboe 8	OBOE8
5	Trumpet 8	TRMP8
6	Strings 8	STR8
7	Flute 4	FLUTE4
8	Strings 4	STR4
9	A bright voice, an octave and a fifth above the fundamental	2 2/3

The illustration below shows the pitch interval between each voice when the key of C3 is played. Though some voices have the same pitch, they differ in tonal character.



## VIBRATO

The original instrument has two basic vibrato modes; “Light” and “Heavy”, with different rates for each mode. There are several types of vibrato and choruses available for the Farf model on the Nord Organ 3.

The **V1**, **V2** and the **C3** settings are the ones that are modeled after the original instrument. Like with the Vox, the Farf vibrato is shared by the Upper and Lower manuals, with their respective controls always being changed in tandem.

## SOFT B3

For scenarios where a B3-like sound is desired, but without the keyboard click and other artifacts, the **SOFT B3** is an appropriate choice. The drawbars correspond exactly to those of the B3 model.

With the Soft B3 selected, the B3 Key Click parameter, as well as B3 Percussion have no effect on the sound.

## PIPE ORGAN

The **PIPE** organ model faithfully recreates a *principal* pipe section – the sets of metal pipes, or ranks, that commonly make up the backbone of a pipe or church organ. While other ranks may attempt to recreate the sounds of other instruments (flutes, trumpets, strings etc.) the principal sound is non-imitative and unique to the pipe organ.

The pipe lengths available for the Pipe models correspond to those of the B3 model, ranging from 16 feet to 1 foot.

## PIPE VIBRATO/CHORUS

Activating **VIBRATO/CHORUS** for the Pipe organ switches to a model which is tuned with less precision. This produces chorus-like effects, slight dissonances and adds realism when combining registers.

## BASS MODELS



For each of the Organ Models there is a corresponding Bass Model, used for the Pedal Bass drawbars. It is not necessary, however, to pair the Organ Model with its exact counterpart, but Organ and Bass combinations can be chosen freely among the available selections.

Activating **ALTERNATE** (Shift+Bass Model) selects an alternate model for the current position. The alternate for each Bass Model is described further below.

Four of the Bass Models – **B3**, **FARF**, **PIPE** and **SOFT** (alternate setting for Pipe) – are *polyphonic*, meaning that multiple notes can be played at once. The remaining Bass Models – **TRK**, **VX** and **USER** – are *monophonic*, allowing one note to be played at a time.

**i** With the Sustain control turned on at any of its 1-3 settings, all bass models and their alternate settings are monophonic.

## B3

On the Nord Organ 3, the **B3 BASS** model features a common and popular modification whereby certain partials are removed from the 8 foot drawbar. This 8’ sound, especially when combined with the 16’ drawbar is often perceived as more solid and less reedy than without the modification applied.

## B3 ALTERNATE

The alternate setting for the B3 bass model provides the full, non-modified sound of the 8’ drawbar.

## VX

The left Bass Pedal drawbar controls the level of the Bass Pedal range while the right drawbar provides a mix of the original soft and hard **VX** bass drawbars. The 0 position represents fully soft, and when fully drawn out the mix consists mostly of the hard drawbar.

The Vx model is *monophonic*, and always produces a 16', sub-fundamental, pitch.

### FARF (ALTERNATE SETTING)

The left drawbar of the **FARF** bass determines the level of the bass sound, while the right drawbar switches between a soft, filtered sound and a more brilliant timbre. The Farfisa bass corresponds to a 16', sub-fundamental, pitch.

## TRK

The **TRK** setting provides the sound of a commonly used synth bass module, often added to B3 organs as a modification. The left and right drawbars represent the 16' and 8' components of the bass sound.

### TRK ALTERNATE (NO PLUCK)

With the alternate version of the Trk bass, the "pluck" parameter of the original unit is deactivated, for a smoother note onset.

## PIPE

With the **PIPE** organ Bass Model the left and right drawbars represent the 16 and 8 foot pedal ranks of a principal pipe organ, respectively.

### SOFT (ALTERNATE SETTING)

The **SOFT** model shares the character of the Soft B3 Organ Model, having no key click and a softer note onset and release over all. It is otherwise similar to the B3 bass model, with 16' on the left and 8' on the right drawbar.

## USER

The **USER** option allows for making a custom selection from a range of preset synth bass sounds, including recreations of well-known, classic bass synthesizers as well as plucked, resonant or stringy sounds, greatly expanding the sonic palette of the Nord Organ 3 bass registers.

**i** *The selected sound for the User Bass Model is individual for Panel and Program mode respectively. Refer to page 13 for more details on the Panel and Program modes.*

### PRESET SELECTION (ALTERNATE)

With the **USER** option selected, pressing **ALTERNATE** (Shift+Bass Model selector) displays the list of available synth bass presets. After a selection has been made, press Exit (Shift) to close the list view.

## SUSTAIN



Use the **SUSTAIN** control to add a sustaining tail to the selected Bass Model. With Sustain active, at any setting, the sound of the selected Bass Model is monophonic.

At the **1** position the sustaining tail is relatively short, useful for softening the key-off of the bass sound and increasing the legato character of consecutive notes. The **2** setting represents a medium amount of sustain while the **3** setting allows a played note to keep ringing for a considerable amount of time after the key has been released.

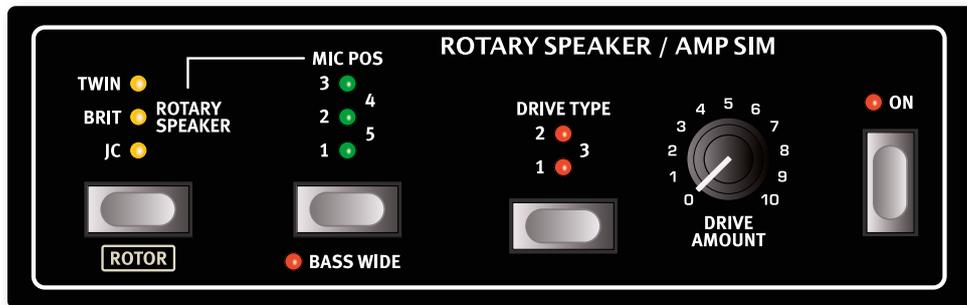
**i** *In synthesizer terms this parameter would normally be referred to as "Release", as it corresponds to the release phase of a synthesizer envelope. On the Nord Organ 3 the term "Sustain" is used as this term has traditionally been used by manufacturers of organs and organ accessories.*

## SWELL PEDAL

Swell is a characteristic organ feature, controlled from a continuous pedal. Swell is not only a volume control – for the B3 it also changes the character of the sound in a special way. To use Swell control on the Nord Organ 3, simply plug in a standard expression pedal to the Organ Swell input on the rear panel and configure the pedal in the Pedal Menu (see page 17).

An expression pedal connected to the Organ Swell input will control Swell for all organ models.

# 5 ROTARY SPEAKER AND AMP SIM



## ROTARY SPEAKER

The Rotary Speaker effect accurately reproduces the sound of the rotating horn and bass rotor, as well as the characteristics of the built-in amplifier of the original rotary construction. Use the Rotary Speaker/Amp Sim selector button to select the Rotary Speaker (all three LEDs being lit).

💡 Pressing **ROTOR** (Shift+selector button) is a handy shortcut into the Sound menu, with the page containing Rotary Speaker speed and acceleration settings already selected.

## MIC POSITIONS

The five available Microphone Positions correspond to some of the most common ways of reproducing the sound of the Rotary Speaker, for both live and studio recording purposes.

Use the **MIC POS** selector to switch between the available perspectives.

Mic Pos	Description
<b>1 - CLOSE</b>	A narrowly spaced pair of mics in a close position, on the rear side of the cabinet.
<b>2 - WIDE</b>	A widely spaced pair of mics placed at a medium distance, on the rear side of the cabinet.
<b>3 - 90°</b>	A pair of mics placed in a 90° configuration, at one of the front corners of the cabinet.
<b>4 - 180°</b>	A pair of mics placed in a 180° configuration, one on either side of the cabinet.
<b>5 - XY</b>	A pair of mics in a coincident, XY configuration for full mono compatibility. Placed at a medium distance on the rear side of the cabinet.

💡 The available microphone positions affect the reproduction of the Rotary Speaker treble horn sound. The bass rotor sound is not affected by the Mic Pos selection but has a dedicated setting for mono or stereo (Bass Wide) operation (see below).

## BASS WIDE

This option changes the sound of the bass rotor from a single microphone (mono) perspective to a dual microphone (stereo) configuration. Press **BASS WIDE** (Shift+Mic Pos) to switch between the two options.

## DRIVE TYPE

The **DRIVE TYPE** selector allows for changing the character of the Rotary Speaker overdrive/distortion. The available options provide both different character and amounts of distortion.

When Drive Type is turned Off, no overdrive is applied and the Drive Amount knob is inactive.

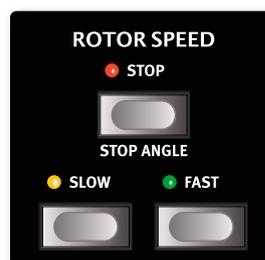
The **DRIVE AMOUNT** knob controls the amount of overdrive.

## DRIVE AND EXTERNAL ROTARY SPEAKERS

If using an external Rotary Speaker, connected to either the 11-pin or High Level **EXT. ROTARY SPEAKER** connectors, you may still want to add additional overdrive, from the Nord Organ 3. To achieve this, make sure that the Rotary Speaker/Amp Sim section is turned **ON**, with no Amp Sim model or Rotary Speaker selected. Select a Drive Type and use the Drive Amount control to achieve the desired amount of distortion.

❗ The internal Rotary Speaker simulation is never applied to the outgoing signal on the Ext. Rotary Speaker connections.

## ROTOR SPEED



Switch between slow, stopped and fast rotor speeds by pressing the **SLOW**, **STOP** and **FAST** buttons respectively.

The bass rotor and treble horn acceleration rates, i.e. the time it takes to go from slow to fast and vice versa, can be adjusted in the **SOUND** menu (Shift+Live 3), read more on page 30.

## STOP ANGLE

To have the speaker sound exactly the same every time the rotors stop, activate **STOP ANGLE** by pressing Shift+Stop. A blinking LED indicates that this mode is active.

Open the **SOUND** menu (Shift+Live 3) and select a position using the Stop Angle setting on page 4. The Stop Angle can be set in 3 degree increments, between 0 and 357°, allowing for very detailed fine tuning of the stop position sound.

Read more about this setting on page 30.

**i** *The Stop Angle menu setting is global and affects all programs where Stop Angle is active. Also, the character of the Stop position will change depending on the currently selected Mic Position.*

## ROTOR CONTROL

Apart from the on-panel Rotor Speed controls, speed switching can be performed using the optional Half Moon Switch or a switch type pedal, connected to the **ROTOR CONTROL** jack.

Settings for Rotor Control and the connected switch or pedal are found in the System menu. Read more about this on page 29.

**!** *If using a switch type pedal, it will switch between Slow–Fast or Stop–Fast, depending on whether the Slow or the Stop position was last selected.*

## ROTARY SPEAKER SOUND MENU OPTIONS

In addition to the on-panel Rotary Speaker controls, there is a number of settings related to the Rotary Speaker in the Sound Menu. These include acceleration rates for the treble horn and bass rotor, horn/bass rotor balance and more.

Read more about these settings on page 30.

## AMP SIM

The **AMP SIM** unit provides sophisticated amplifier and speaker cabinet simulations, including overdrive/distortion when used in conjunction with the Drive Type control.

Amp Model	Description
<b>JC</b>	A simulation of a Jazz Chorus speaker cabinet, powered by a tube amp.
<b>BRIT</b>	A simulation of a 4x12 speaker cabinet in combination with a classic, British, tube amp head.
<b>TWIN</b>	A simulation of a classic combo tube amplifier including speakers.

## DRIVE TYPE

To activate overdrive for an Amp Simulation, make sure one of the Drive Types is selected, and set the overdrive amount using the **DRIVE AMOUNT** knob.

# 6 PROGRAM



The centrally located **PROGRAM** section provides access to performance functions such as loading and storing programs, access to Live programs, Transpose functionality and more. This is also where menus containing *System* and *Sound* settings are found. The menus and their settings are covered in a separate chapter, starting on page 29.

## SHIFT/EXIT BUTTON



Many controls have a *secondary* function which is accessed by holding **SHIFT** and pressing the button or turning the dial. Shift functions are always printed *below* the corresponding control. For example, holding Shift and pressing the Live 3 button will open up the Sound Menu. The Shift button is also used to **EXIT** menus, or for cancelling Store operations.

*Most of the shift functions on the panel can also be accessed by pressing down its associated button for a short period of time.*

## PROGRAM

### WHAT IS A PROGRAM?

A *Program* on the Nord Organ 3 contains all panel settings including Organ and Bass Model, drawbar settings for Upper B, Lower A and Pedals as well as effects and all other settings made on the panel except for Master Level.

Importantly, Programs also include the **PROG MODE** setting, making it possible to store and load certain Programs that always use the physical positions of the drawbars – Prog Mode being turned *Off* – and other Programs where the drawbar LEDs are active, using the stored drawbar positions – Prog Mode being turned *On*.

**i** *The drawbar focus for Upper A/B and Lower A/B is also stored with a Program.*

A Program does *not* store settings made in the System or Sound menus, except for the Bass User Preset for the User Bass Model.

### SELECTING PROGRAMS



The **PROGRAM** dial is used for selecting programs in a stepwise fashion and, when a menu or settings page is open, for changing settings or parameter values.

#### PROGRAM LIST

Pressing **SHIFT** while turning the Program dial activates the List function, which displays all programs in a list.

To exit the List view, press Exit (Shift).

### PROG/PAGE AND BANK

The **PROG/PAGE** ◀ / ▶ buttons are, just like the Program dial, used for navigating Programs in a stepwise fashion.

A Program **BANK** on the Nord Organ 3 contains 50 program locations. There are 8 Program Banks, labeled A-H. Pressing **BANK** ◀ / ▶ (Shift+Prog/Page) allows for quickly switching between different program banks.

## THE “NORD B3” PROGRAM

When shipped, the Nord Organ 3 is set to start up to the special “Nord B3” program. This program functions differently from other programs in a couple of important ways:

- This program always loads with the B3 Organ and Bass models selected, in Panel Mode and with the Rotary Speaker set to its default values.
- Its program location cannot be stored to, meaning that the program is “read only” and cannot be overwritten.

This program is intended as a suitable starting point for instruments that may be used by multiple musicians, where edits made by a previous user should not persist after the instrument has been turned off.

*The setting for booting to the Nord B3 program can be turned Off, from the first page of the **SYSTEM** menu (Shift+Live 1). See page 28 for more details.*

## LIVE PROGRAMS

The Nord Organ 3 has three easy-to-access Live programs, selectable with the **LIVE 1-3** buttons. These programs are special in that edits to them are *automatically stored*. When exiting a Live program or powering off the machine all edits are saved, without the need for a manual Store operation.

A Live program can be stored to a location in the program banks using the standard Store methods (see next page). Conversely, a regular program can also be stored into a Live program location.

## SYSTEM AND SOUND MENUS

Press **SYSTEM** (Shift+Live 1) or **SOUND** (Shift+Live 3) to enter the System or Sound menu respectively.

The System menu contains settings concerning MIDI, pedals, global transposition functionality, output routing options and more, whereas the Sound menu contains settings relating to the B3 Organ, Rotary Speaker and Bass presets.

To read more about menus and all available settings, turn to page 28.

## STORE



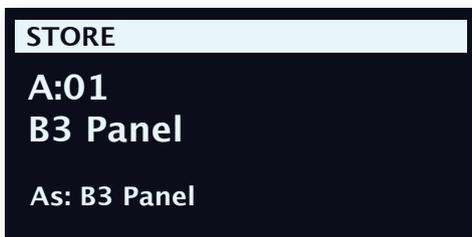
The **STORE** button is used for storing an edited program to a location in the program banks. Storing a program overwrites existing data at the selected memory location.

**i** When the Nord Organ 3 is shipped from factory its memory is protected. To be able to store Programs the Memory Protect parameter needs to be set to "Off" in the System menu. Read more about this on page 29.

### STORING A PROGRAM

Here is how to store a program *without* changing its name:

- 1 Press the **STORE** button once. The Store LED will start blinking, and the display will show the name of the program and its location.



- 2 To select a different store location use the dial and/or the **PROG/PAGE** ◀ / ▶ and **BANK** ◀ / ▶ buttons. A program can also be stored to one of the Live program locations by pressing any of the **LIVE 1-3** locations, during the Store process.

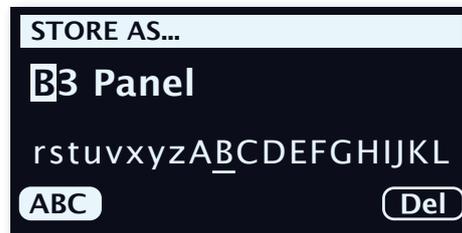
💡 The program at the selected destination can be auditioned during the Store process by playing the keyboard.

**i** To cancel an ongoing Store operation, press **EXIT**.

- 3 When a suitable location has been selected, press **STORE** again to confirm the operation.

### NAMING A PROGRAM (STORE AS...)

- 1 To store *and name* your program press **STORE AS...** (Shift + Store).
- 2 Press the **Abc** soft button to bring up a row of alphanumeric characters. Use the dial to set the character for the current position. Release the **Abc** button to advance to the next character. The dial can be used to move the cursor freely. Use the **Del** soft button for deleting the selected character.



- 3 Press **STORE** to bring up the Store Program To screen. Use the dial and/or the **PAGE/BANK** buttons to select a location.
  - 4 When a suitable location has been selected, press **STORE** again.
- i** The program is automatically assigned a category based on the selected Organ Model.

💡 Naming programs can also be done with the Nord Sound Manager.

## TRANSPOSE ON/SET



The Nord Organ 3 can be transposed in +6/-6 semitone steps on a per-program basis. To set the transpose value, press and *hold down* **ON/SET** and then use the dial to choose a setting.

A quick press on the **ON/SET** button turns the function On or Off. Transpose settings are saved and recalled as part of a program.

💡 To set up a transpose that affects **all** programs, use the Global Transpose parameter in the System Menu

## BASS PEDAL AND MIDI LEDS



The **BASS PEDAL** and **MIDI** LEDs, located above the Transpose control, blink as incoming MIDI messages are received by the Bass Pedal or MIDI In ports respectively. The MIDI LED also indicates when MIDI is received over the USB connection.

# 7 EFFECTS



## OVERVIEW

The Nord Organ 3 features a wide range of effects, useful for both detailed adjustments of the current organ sound, as well as for creative sound design. The Rotary Speaker/Amp Sim unit is also part of the Nord Organ 3 effects chain, but is covered in its own chapter, beginning on page 18.

## EFFECT CONFIGURATIONS

The effects, including the Rotary Speaker/Amp Sim settings are normally applied to the entire organ sound, including both manuals and the pedals. There are some optional configurations however. These include:

- Bass Pedal **FX BYPASS**: Turn this option on (Shift+Bass Pedal To Lower) to keep the bass pedal sound unprocessed by any effects.
- Modulation **UPPER ONLY**: This option (Shift+Modulation selector) applies the Modulation effect to just the Upper Manual.
- Delay **UPPER ONLY**: This option (Shift+Delay Filter) similarly applies the Delay effect to just the Upper Manual.
- **AUX OUT** routing options: In the **SOUND** menu (Shift+Live 3), there are various options for audio routing to the Aux Output, including the option for an entirely dry organ sound, without any effects, which can be useful for blending or post-processing purposes. Read more about this on page 28.

## MODULATION

The **MODULATION** unit offers five different types of modulation effects. Use its Selector button to switch between the available settings, the **RATE** knob to set the rate (speed) of the selected effect and the **AMOUNT** knob to set the amount or intensity of the effect.



### UPPER ONLY

The Modulation effect can optionally be applied to just the Upper manual, leaving the Lower manual as well as the Bass Pedal range unaffected. Press **UPPER ONLY** (Shift+selector button) to activate this setting.

### PHAS (PHASER)

The **PHASER** effect produces a characteristic “sweep” effect achieved by splitting the signal in two and altering the phase of one side using an LFO – creating the sweeping character when mixed back with the unaltered signal. The phaser effect on the Nord Organ 3 is inspired by the classic Small Stone unit.

### TREM (TREMOLO)

**TREM** (Tremolo) provides a smooth volume modulation that continuously varies the volume level of the output signal.

## RM (RING MODULATION)

Ring Modulation (**RM**) is a type of modulation where two signals are multiplied with each other, resulting in an in-harmonic “bell like” sound. On the Nord Organ 3 the instrument signal is multiplied with a sine wave.

The **RATE** knob adjusts the frequency of the modulating sine wave.

## FLANGER

The **FLANGER** produces a dramatic comb filter effect, giving the sound a “swooshy” and resonant quality.

## CHORUS

The versatile **CHORUS** effect gives the impression of “widening”, or with more extreme settings severely detuning, the sound – achieved by blending a number of modulated copies of the audio signal.

## EQUALIZER

The three band **EQUALIZER** features controls for bass, a sweepable middle band and treble.



The **BASS** frequency is set to 100 Hz, the **TREBLE** frequency is 4 kHz and the sweepable middle band can be set between 200 Hz to 8 kHz, using its **FREQ** knob.

The boost/cut range is +/- 15 dB for all bands.

## DELAY

The **DELAY** unit produces echo/repeat effects. The Delay time is set by tapping the **TAP** button, or by turning the **TEMPO** knob.



The **FEEDBACK** knob controls the number of delay repeats. At the lowest setting only the initial repeat is heard, while the highest produces a very long feedback tail.

The **AMOUNT** knob adjusts the balance between the dry signal and the delay repeats.

## UPPER ONLY

The Delay effect can optionally be applied to only the Upper manual, with the Lower manual as well as the Bass Pedal range being unaffected.

## FILTER

The feedback filters, selected with the **FILTER** button, are great tools for shaping the delay sound, especially when large feedback amounts are used. Each consecutive Delay repeat is fed through the filter, resulting in a progressively more filtered sound.

With the **LP** setting, all delay repeats are passed through a *Low Pass* filter which reduces high frequency content in the delay feedback signal.

The **HP** setting provides a *High Pass* filter, removing low frequency content. This can be useful for making long delay tails sound less muddy.

The **BP** setting adds a *Band Pass* filter to the delay signal. This will reduce both high and low frequencies, making for a progressively thinner sound.

## TEMPO

The tempo of the Delay can be set to values between 1.50 seconds and 20 milliseconds, using the **TEMPO** knob. The tempo is also displayed as a BPM (Beats Per Minute) value, relative to a quarter-, eighth- or sixteenth note subdivision depending on the tempo rate.

## TEMPO TAP

Use **TAP** to set a delay time matching the tempo of a song. The tempo is displayed both as a BPM value as well as in milliseconds. Simply tap the Tempo button at the tempo you wish the Delay to sync to a number of times, and the Delay time will be adjusted automatically.

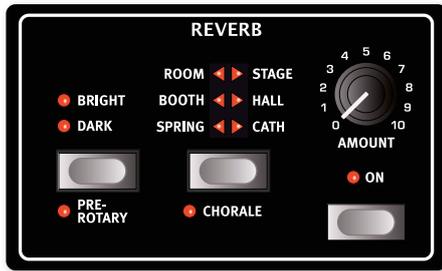
*A minimum of two taps is required for defining a tempo, but the button can be tapped as many times as needed for further fine-tuning of the delay time.*

## ANALOG

There are two different delay modes, the normal (“non-analog”) mode, and **ANALOG** (Shift+Tap). In Analog Mode the pitch of any sounding repeats is altered if the tempo is changed – much like with a vintage analog delay. What’s more, the exact character of each feedback Filter setting differs slightly from when in “non-analog” mode. In Analog Mode a slight distortion is also introduced into the delay line with each tap – especially noticeable with larger feedback amounts.

## REVERB

The **REVERB** unit simulates the natural sound reflections in various acoustic environments, and also provides a Spring Reverb simulation.



### REVERB TYPES

There are six different Reverb types to choose from:

**SPRING:** The Spring setting reproduces the sound of a traditional spring reverb tank, a common feature on tonewheel organs, in guitar amplifiers and in many other kinds of equipment.

**BOOTH:** Represents a small room with very short decay time.

**ROOM:** In Room mode the Reverb has the character of a medium sized room with a relatively short decay time.

**STAGE:** The Stage Reverb has a medium length decay time and a natural sounding room ambience.

**HALL:** The Hall setting has the response and character of a spacious hall, with a long decay.

**CATH:** The Cathedral is a very large and immersive reverb, with a very long decay time.

### BRIGHT/DARK AND CHORALE

The **BRIGHT** or **DARK** mode can be used for all Reverb types to alter the frequency response of the Reverb. Set to Bright, low frequencies are slightly dampened and more high frequency content is preserved in the Reverb signal. The Dark mode instead dampens high frequencies.

The **CHORALE** setting (Shift+Reverb Selector) increases the pitch modulation of the Reverb signal for a more lively sound.

### PRE-ROTARY

With the **PRE-ROTARY** (Shift+Bright/Dark) option active the Reverb effect is placed before the Rotary Speaker. This setup can be compared to connecting a Reverb-equipped organ to a traditional Rotary Speaker, whereas Pre-Rotary being *off* rather corresponds to the sound of a Rotary Speaker being placed in a room or ambient environment.

# 8 MIDI

## MIDI FUNCTIONS

The Nord Organ 3 can be used as a master instrument for control over other hardware units or software sound sources, and it is also possible to control the Nord Organ 3 from a separate keyboard or MIDI device.

### MIDI CHANNELS

The separate MIDI channels for Upper, Lower and Pedal manuals make it possible to record performances over MIDI with separate tracks for each manual, as well as controlling software or hardware units that also provide separate MIDI channels per manual.

**i** *The MIDI channel settings are found in the System menu, see page 29 for further details.*

The MIDI channels are used both for transmitting and receiving MIDI information, at the same time. It allows for external control over every aspect of the Nord Organ 3 – much like playing its own keyboard – and is used for sending keyboard, pedal and panel actions to another MIDI device or sequencer.

**i** *MIDI CC (Control Change) messages that are not related to drawbars and other per-manual parameters are transmitted and received on the Upper MIDI channel.*

**?** *MIDI messages are transmitted and received on both the USB and MIDI In/Out connections simultaneously.*

### RECORDING A NORD ORGAN 3 PERFORMANCE TO A MIDI SEQUENCER OR DAW

Here is how to record a Nord Organ 3 performance including any pedal actions and parameter adjustments to a DAW or MIDI sequencer.

- ① Set the DAW or sequencer to use the Nord Organ 3 USB MIDI driver, if connected through USB, or an appropriate MIDI interface if connected through the 5-pin MIDI connectors.
  - ② Create three separate channels in the DAW or sequencer, one for the Upper, one for the Lower and one for the Pedal manuals.
  - ③ Make sure each channel is set to the appropriate MIDI channel, as set in the MIDI menu of the Nord Organ 3.
- ?** *The default settings for the MIDI channels are Upper=1, Lower=2 and Pedals=3.*
- ④ Set the DAW or sequencer track to route back incoming MIDI on the MIDI channels set on the Nord Organ 3.
  - ⑤ Set Local Control in the System menu to *Off* on the Nord Organ 3.
  - ⑥ Select the Program on the Nord Organ 3 that you wish to use.

- ⑦ Start the recording on the sequencer.

**i** *If a Transpose value is set, either by the panel Transpose function or the Global Transpose setting in the System menu, its effect on recorded MIDI depends on the “Transpose MIDI at” setting – see page 29.*

### PLAYING THE NORD ORGAN 3 FROM AN EXTERNAL MIDI CONTROLLER

- ① Connect the MIDI Out port of the external MIDI controller to the MIDI In port of the Nord Organ 3.
- ② Set the outgoing MIDI channel(s) of the external unit in correspondence with the MIDI channel settings on the Nord Organ 3.

### PLAYING AND CONTROLLING OTHER UNITS FROM THE NORD ORGAN 3

- ① Connect the MIDI Out port of the Nord Organ 3 to the MIDI In port of the external unit. Or – if the external unit is a software instrument on a computer – use the USB connection.
- ② Set the incoming MIDI channel(s) of the external unit in correspondence with the MIDI channel settings on the Nord Organ 3.

## MIDI MESSAGES

The following MIDI messages can be transmitted and received by the Nord Organ 3:

### NOTE ON/OFF

- Note On and Note Off messages are transmitted and received. Velocity is included if the related MIDI menu setting is set accordingly.

### CONTROLLERS

- From the System menu it can be determined whether the Nord Organ 3 should transmit and/or receive Control Change messages, see page 25.
- If an expression pedal is connected to the Swell Pedal Input, this is transmitted and received as Controller 4 (Swell).
- If a sustain pedal is connected to the Sustain Pedal Input, this is transmitted and received as Controller 64 (Sustain Pedal).
- Almost all other controls (knobs and buttons) on the front panel are also transmitted and received as Control Change messages. This can be used for recording front panel actions into a MIDI sequencer. For a full list of MIDI Control Change messages, refer to page 33.

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## PROGRAM CHANGE

Loading a Program or Live Program will send a Program Change message on the Global MIDI channel, with Program Banks and Live program locations differentiated by their Bank MSB value.

One MIDI program bank encompasses *two banks of 50 programs each on the Nord Organ 3, with program numbers 1-100 being used*. The message consists of three parts, as defined in the table below:

	Program	Live
Bank MSB (CC# 0)	0	1
Bank LSB (CC# 32)	0-7	0
Program Change	1-100	1-3

**i** *A Program Change message that reaches the Nord Organ 3 unaccompanied by Bank Select messages will take effect in the currently selected Program or Live bank.*

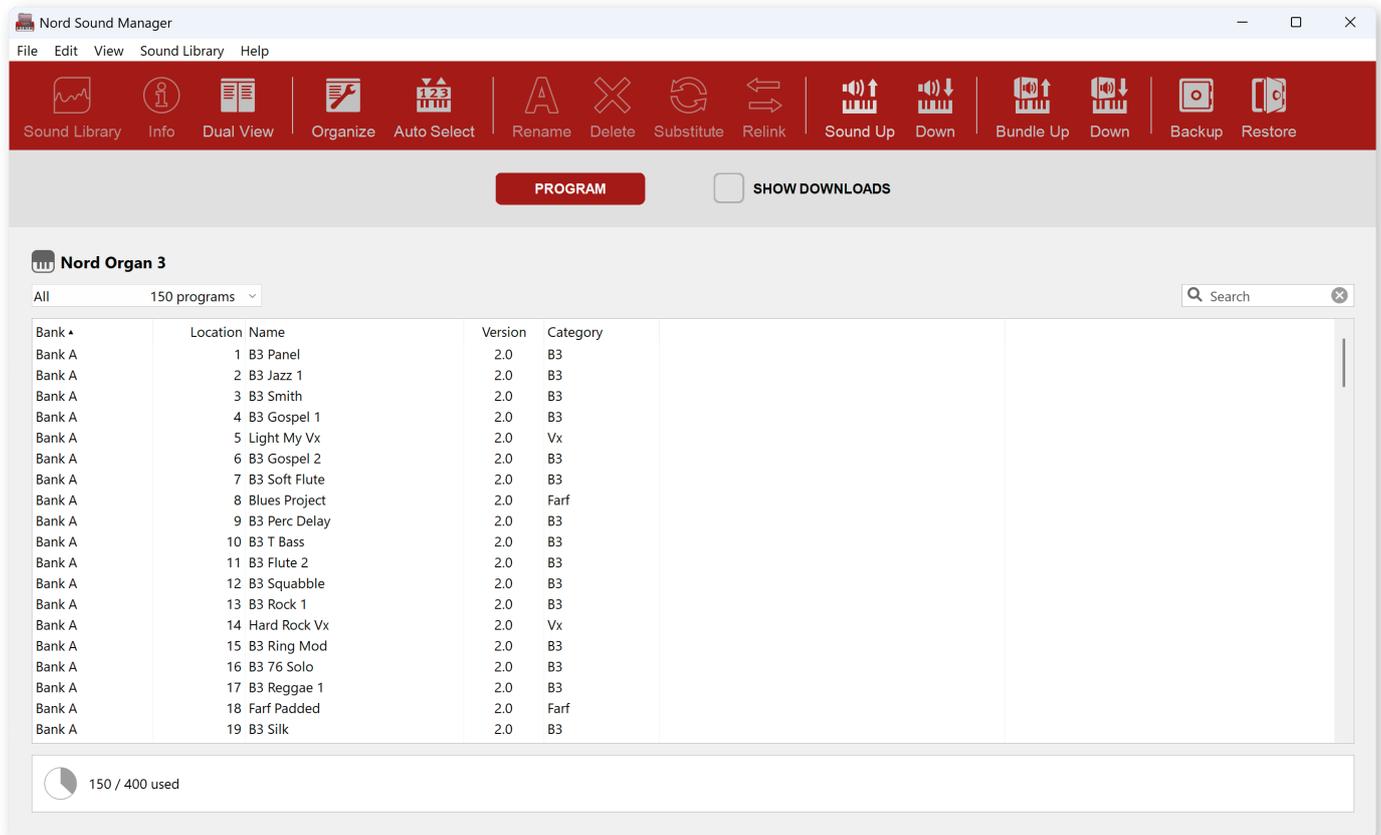
In the System Menu, you can select if the Nord Organ 3 should send and/or receive Program Change messages on the currently set MIDI channel. See page 29 for further details.

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## LOCAL CONTROL ON/OFF

If Local Control is set to *Off*, the keyboard and panel on the Nord Organ 3 are “disconnected” from its sound engines. Use the Off setting when the instrument is set up in a MIDI loop, for instance when using it in conjunction with a DAW or sequencer. Local Control On/Off is set in the System menu, which is described on page 29.

# 9 NORD SOUND MANAGER



## ABOUT NORD SOUND MANAGER

Nord Sound Manager is an essential application for any Nord Organ 3 owner, which allows for accessing, altering and backing up content on the Nord Organ 3. These are some of the common tasks performed through the Nord Sound Manager:

- Organizing and naming Programs
- Uploading Programs from the Nord Organ 3 to a computer
- Performing backups of the entire instrument
- Restoring the entire instrument to a previous state

The Nord Sound Manager can be downloaded from the Software area of the [www.nordkeyboards.com](http://www.nordkeyboards.com) website.

## SYSTEM REQUIREMENTS

Mac OS X 10.13 or later

Windows 7-11

Nord USB Driver version v4.0 or later required for Windows. The driver comes bundled with the Nord Sound Manager installer as well as all OS installers, and can also be downloaded from [www.nordkeyboards.com](http://www.nordkeyboards.com).

# 10 MENUS

Any settings that are made in the *System* and *Sound* menus will take immediate effect, and will be stored until they are changed again.

**i** *The Local Control MIDI setting is an exception and will always revert to “On” when the Nord Organ 3 is powered up.*

Menus are entered by holding **SHIFT** and pressing **SYSTEM** or **SOUND** (Live 1 and Live 3 buttons). Menu Pages are navigated using the **PAGE** ◀ / ▶ buttons and settings are selected using the Up (▲) and Down (▼) buttons. Turn the **PROGRAM** dial to change the selected setting. Exit a menu by pressing **EXIT** (Shift).

## SYSTEM MENU

### PAGE 1 - SYSTEM SETTINGS

#### 1 - MEMORY PROTECT

The memory protection setting is *On* when a Nord Organ 3 leaves the factory, preventing accidental overwriting of programs. Setting this to *Off* enables Store operations. Menu settings and Live programs are not affected by this setting.

*Range: Off, On (default)*

#### 2 - START WITH “NORD B3”

This setting determines whether the Nord Organ 3 always starts up to the *Nord B3* program or not. The *Nord B3* program is a read-only program which can not be overwritten, which always loads with the *B3 Organ Model* selected, and in *Panel Mode* (not using the LED graphs for drawbar settings).

This setting is turned *On* by default and is intended as a useful starting point, for example if the instrument is regularly being used by multiple musicians and should look and sound the same the same whenever it is turned on.

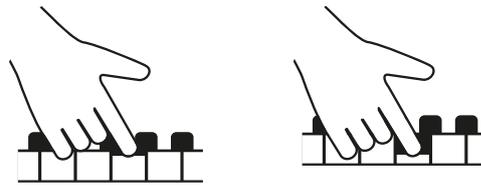
If this setting is turned *Off*, the instrument will boot to the program that was selected when it was last turned off.

*Range: Off, On (default)*

#### 3 - KEYBOARD TRIGGER

This setting determines how the Nord Organ 3 keyboard triggers the organ sound. When “*High*” is selected, the sound is triggered before the key reaches the end of its travel. This mode closely mimics the way a vintage tonewheel organ trigger its notes.

*Range: High (default), Low*



High trigger point

Low trigger point

### PAGE 2 - TUNING

#### 1 - GLOBAL TRANSPOSE

This setting allows for transposing the entire Nord Organ 3 in semitone steps. This setting will be *added* to any on-panel transpose value stored with a program.

*Range: +/- 6 semitones (default value is “Off”)*

#### 2 - FINE TUNE

Fine Tune can be used to fine tune the pitch of the Nord Organ 3 in finer increments.

*Range: +/- 50 Cents (+/- half a semitone). Default value is “0”*

### PAGE 3 - OUTPUT ROUTING

Use these settings to determine how Organ and Bass Models are routed to the audio outputs of the Nord Organ 3.

#### 1 - L+R OUT

This setting determines what is routed to the Left and Right audio outputs. When set to *All*, all Organ sounds are present on these outputs, regardless of *Ext* and *Aux* settings. When set to *Exclude Ext+Aux*, Organ Models routed to the *Ext* or *Aux* Outputs are *excluded* from the Left and Right signals.

*Range: All (default), Exclude Ext+Aux*

#### 2 - EXT OUT

This determines what is sent to the External Rotary/High Level Outputs. If nothing is connected to any of these outputs, this is indicated by the “*Ext: Not connected*” text in the display.

*Range: B3 (default), Vx/Farf, B3+Vx/Farf*

**i** Use the *L+R Out* setting for determining whether the sound that is sent to the *Ext Outputs* also appears on the *Left/Right outputs* or not.

### 3 - AUX OUT

These options provide a range of useful configurations using the *Aux* (*Auxilliary*) Output. If nothing is connected to the *Aux* output, this is indicated by the “*Aux: Not connected*” text in the display.

**Clean Copy:** Provides the clean/dry signal before the *Rotary Speaker*. If *Bass Pedals* are set to *FX/Rotor Bypass*, those are summed to both the *L/R* and *Aux* outputs.

**Vx/Farf:** Allows for sending the *Vx/Farf* organ models to the *Aux* output. All effects, including *Amp* model or *Rotary Speaker* are bypassed.

**Bass Pedal:** In this mode the *bass pedals* are sent to the *Aux* output. All effects, including *Rotary Speaker* are bypassed.

**Rotary Bass:** With this setting, the *bass rotor* part of the *Rotary Speaker* signal is sent to the *Aux Output*, with the *treble horn* signal being sent to the *Left* and *Right* outputs. If the *Rotary Speaker* is off, nothing is sent to the *Aux* output.

*Range: Clean Copy (default), Vx/Farf, Bass Pedal, Rotary Bass*

**i** Use the *L+R Out* setting for determining whether the sound that is sent to the *Aux Output* also appears on the *Left/Right outputs* or not.

## PAGE 4 - SUSTAIN PEDAL

### 1 - TYPE

This selects the type of pedal connected to the **SUSTAIN PEDAL** jack. The sustain pedal controls sustain for both the *Upper* and *Lower* manuals, as well as the *Bass Pedals*.

*Range: Nord SP-1 (Default), Nord SP-2, Nord TP-1, (Normally) Open, (Normally) Closed*

**i** If no pedal is connected to the *Sustain Pedal* jack, this is indicated by the “*Not connected*” text at the bottom of the display.

## PAGE 5 - SWELL PEDAL

### 1 - TYPE

This setting configures a pedal attached to the **SWELL PEDAL** jack. The indicator at the bottom of the display shows the current value for a connected *Swell Pedal*, and can be used for determining that the pedal is functioning correctly.

*Range: Nord EP (EP15, EP30, default), Roland EV7, Yamaha FC7, Korg, Fatar SL (Studiologic)*

### 2 - GAIN

If the attached pedal does not reach 100% (indicated at the bottom of the display) the *Gain* parameter can be used for boosting the *Swell Pedal* signal.

*Range: 1(default)-10*

**i** If no pedal is connected to the *Swell Pedal* jack, this is indicated by the “*Not connected*” text at the bottom of the display. When a pedal is connected, a percentage is shown indicating the current *Swell amount* produced by the pedal.

## PAGE 6 - ROTARY CTRL

### 1 - TYPE

This setting allows for changing the type/polarity of a switch pedal connected to control **ROTARY CONTROL** input. If using the optional *Half Moon Switch*, make sure that the *Half Moon* setting is selected.

The indicator at the bottom of the display shows the current setting for a connected *Half Moon Switch* (*Left/Slow*, *Center/Stop*, *Right/Fast*) or the current state of a connected switch pedal.

*Range: Half Moon, Nord SP-1 (Default), (Normally) Open, (Normally) Closed*

### 2 - PEDAL MODE

This allows for changing the functionality of a switch pedal connected to the **ROTARY CONTROL** input on the *Nord Organ 3*. Use the *Slow* and *Stop* buttons on the panel to determine whether the pedal should switch between *Fast* and *Slow* or *Fast* and *Stop*.

**i** This setting has no impact on the behaviour of a connected *Half Moon Switch*

With **Toggle** selected, the *rotor speed* is switched with each press on the pedal, like an on/off switch pedal. When set to **Hold**, the *Rotor Speed* is *Fast* for as long as the pedal is pressed and reverts back to *Slow* or *Stop* when the pedal is released.

*Range: Toggle (default), Hold*

## PAGE 7 - MIDI CHANNELS

### 1 - LOCAL CONTROL

*MIDI Local Control* determines if the *Nord Organ 3* manuals and control panel will address the internal sound engine and programs, or only transmit *MIDI*. *Local Control On* is the normal “playing mode”. When *Local Control* is in *Off* mode, panel and keyboard actions are transmitted via *MIDI* only.

*Range: On (Default), Off*

**i** *Local Control* always reverts to “*On*” every time the *Nord Organ 3* is powered on

### 2 - CHANNEL UPPER

This sets the *MIDI Channel* that the *Upper manual* on the *Nord Organ 3* transmits and responds to.

*Range: Off, 1-16 (default = 1)*

### 3 - CHANNEL LOWER

This sets the *MIDI Channel* that the *Lower manual* on the *Nord Organ 3* transmits and responds to.

*Range: Off, 1-16 (default = 2)*

### 4 - CHANNEL BASS

This sets the *MIDI channel* that the *Bass Pedal* section of the *Nord Organ 3* transmits (if the *To Lower* function is active) and responds to.

*Range: Off, 1-16, (default = 3)*

## PAGE 8 - MIDI SETTINGS

### 1 - TRANSPOSE AT

When set to *In*, active transpose values (global and/or set per program) are *not* applied to outgoing MIDI, but only to incoming MIDI data. In *Out* mode sent MIDI notes are transposed but not incoming ones.

*Range: In (Default), Out*

### 2 - MIDI CC

This allows you to set if you want your Nord Organ 3 to transmit and/or receive MIDI Control Change messages or not on the MIDI channels. See page 33 for a list of all CC numbers on the Nord Organ 3.

*Range: Off, Send, Receive, Send & Receive (Default)*

### 3 - MIDI PC

This setting determines whether your Nord Organ 3 transmits and/or receives MIDI program Change messages, on the MIDI channels.

*Range: Off, Send, Receive, Send & Receive (Default)*

## PAGE 9 - SETTINGS RESET

This operation restores all System and Sound menu settings to their default values.

Press the **Reset** soft button (*Live 1*) and confirm with "Yes" (*Live 3* button) to restore all menu settings to factory default values.

## PAGE 10 - SYSTEM INFO

The System Info menu page shows the full version number of the currently installed OS (Operating System) and, when turning the Program dial, hardware information for the instrument.

*Use the Program dial to switch between Version and Model info.*

---

## SOUND MENU

### PAGE 1 - ORGAN MODEL

#### 1 - KEYBOARD BOUNCE

This turns on or off the Keyboard Bounce feature for the B3 Organ Model. When turned On, the key off click is accentuated on quick key releases.

*Range: Off, On (default)*

#### 2 - TONE-WHEEL

Sets the level of tonewheel crosstalk and cable leakage artifacts of the B3 organ model.

*Range: Clean, Vintage 1, Vintage 2 (default)*

### PAGE 2 - PERCUSSION

#### 1 - NORMAL VOLUME

Sets the level of the B3 Percussion effect in its Normal setting.

*Range: Low, Medium (default), High*

#### 2 - SOFT VOLUME

Sets the level of the B3 Percussion effect in its Soft setting.

*Range: Low, Medium (default), High*

#### 3 - SLOW DECAY

Sets the Slow mode decay time of the B3 Percussion effect.

*Range: Long, Medium (default), Short*

#### 4 - FAST DECAY

Sets the Fast mode decay time of the B3 Percussion effect.

*Range: Long, Medium (default), Short*

## PAGE 3 - ROTARY SPEAKER

### 1 - HORN ACCELERATION

This setting determines the acceleration and retardation time of the Rotary Speaker treble horn.

*Range: Low, Medium (default), High*

### 2 - HORN SPEED

This determines the speed of the Rotary Speaker treble horn.

*Range: Low, Medium (default), High*

### 3 - ROTOR ACCELERATION

This determines the acceleration and retardation time of the Rotary Speaker bass rotor.

*Range: Low, Medium (default), High*

### 4 - ROTOR SPEED

This determines the speed of the Rotary Speaker bass rotor.

*Range: Low, Medium (default), High*

## PAGE 4 - ROTARY SPEAKER (CONT.)

### 1 - BALANCE

This parameter sets the balance between the bass rotor and treble horn, defined as a percentage.

*Range: 70/30, 65/35, 60/40, 55/45, 50/50 (default), 45/55, 40/60, 35/65 and 30/70*

### 2 - STOP ANGLE

Sets the stop angle for the Rotary Speaker in fixed Stop Angle mode (Shift+ Rotor Speed Stop). The angle can be set to values between 0 and 357°, in 3 degree steps. Read more about this on page 18.

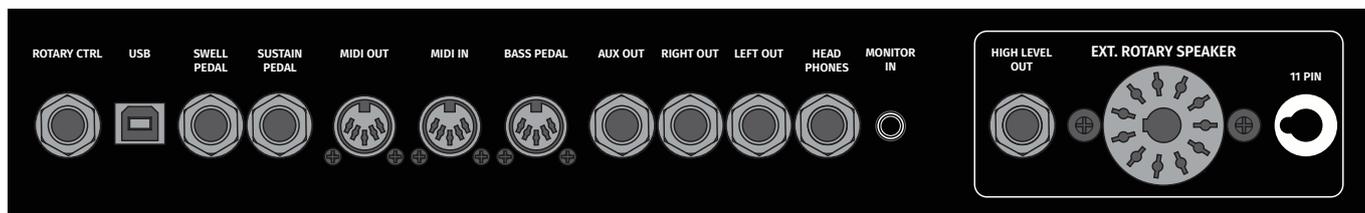
*Range: 0-357° (default=0°)*

## PAGE 5 - USER BASS PRESET

On this page the Bass Preset for the User position of the Bass Model selector is set. In Program Mode, the User Bass Preset is stored per program, while in Panel Mode being part of the manual organ.

**i** This page can also be accessed by pressing **ALTERNATE** (Shift+Bass Model), when the User model is selected.

# CONNECTIONS



## AUDIO CONNECTIONS

General guide on audio connections: Before turning on your amplifier, make all audio connections. Always turn on the amplifier last, and when shutting down, always turn off your amplifier or active speakers first.

⚠ *Using your Nord Organ 3 at high volumes can damage your hearing.*

### EXT ROTARY SPEAKER AND HIGH LEVEL OUT

The Rotary Speaker outputs consist of a 1/4 inch jack, and a 11-pin Leslie™ standard connector. The **HIGH LEVEL** jack output is 14V RMS high level, unbalanced, and is only intended to be connected to a rotary speaker cabinet with built in amplifier. Any other form of use might result in damaged equipment.

It is possible to route the B3 organ to the High Level and 11-pin outputs and the other organs to the main outputs. Other combinations are also possible. Read more about this on page 28.

### HEADPHONES

2 x 1/4 inch stereo **HEADPHONE** jacks, one placed at the back of the unit and one in front. Audio is always output through both Headphones outputs, regardless of Output Routing settings.

### MONITOR IN

1/8 inch jack for connecting devices such as smartphones, tablets or computers to the Nord Organ 3. This is useful for playing and rehearsing to pre-recorded music or a metronome, or for using an additional sound source on stage. The **MONITOR IN** signal is routed to the Headphones and Left & Right outputs.

⚠ *The Nord Organ 3 Master Level control does not affect the level of the Monitor In signal.*

### LEFT & RIGHT OUT

1/4 inch unbalanced line level outputs for amplifier or recording equipment. The Nord Organ 3 is a stereo instrument with separate signal paths for left and right audio channels.

### AUX OUT

1/4 inch unbalanced line level output for amplifier or recording equipment. This output can be used for separate treatment of the Bass Pedal sound as well as for other purposes. See page 28 for a complete list of available options.

## MIDI CONNECTIONS

### MIDI IN

The 5 pin **MIDI IN** connection is used for receiving MIDI data sent from external devices such as controller keyboards, sequencers and computers.

### MIDI OUT

The 5 pin **MIDI OUT** connection will send MIDI data to devices such as external sound modules and computers.

### BASS PEDAL

To use the Nord Organ 3's dedicated bass pedal registers, connect the MIDI Out from your external controller (preferably a bass pedalboard such as the Nord Pedal Keys 25) to the Bass Pedal connector. The pedal registers will respond to all MIDI note messages received regardless of their MIDI channel.

**i** *The Bass Pedal MIDI jack supplies phantom-power over the attached MIDI cable, meaning that the Nord Pedal Keys 25 does not require its external power supply when used together with the Nord Organ 3.*

---

## USB CONNECTION

The USB port is used for connecting the Nord Organ 3 to a computer. The connection can be used for transferring MIDI, for OS updates and for connecting to the Nord Sound Manager application. This application, and the latest OS version can always be found for download at [www.nordkeyboards.com](http://www.nordkeyboards.com).

**i** *MIDI over USB and standard 5 pin MIDI connectors are both always active at the same time.*

---

## PEDAL CONNECTIONS

### SUSTAIN PEDAL

1/4 inch connector for all common types of sustain pedals, including the Nord SP-1 (Single Pedal 1), SP-2 (Single Pedal 2) and TP-1 (Triple Pedal 1). Sustain pedal type and polarity is set in the Pedal menu, see page 30.

### SWELL PEDAL

1/4 inch connector for connecting a continuous expression pedal using a stereo/TRS (Tip, Ring, Sleeve) connector, such as the Nord EP15 or EP30. Most commonly available expression pedals are compatible with the Nord Organ 3, and are configured in the System menu. See page 29 for further details.

### ROTARY CTRL

1/4 inch connector that accepts standard sustain pedals, switch pedals or the optional Half Moon Switch – used for controlling the speed of the Rotary Speaker. Refer to page 29 for how to configure the attached pedal or switch correctly.



## APPENDIX: MIDI CONTROLLER LIST

This is a list of the MIDI Controller numbers used for all panel controls including drawbars, as well as for pedals and other devices. When a function is available for both the Upper, Lower and Pedal manuals (on their respective MIDI channels) this is indicated with an asterisk \*.

Nord Organ 3 Parameter	MIDI CC #
Volume	7
Sustain	64
Swell Pedal	4
Organ Model	9
Bass Model	36
Bass User Preset	12
Drawbar Focus/Preset	13*
Panel Control Mode	14
Rotary/Amp Sim Enable	43
Rotary/Amp Sim Type	42
Rotary/Amp Sim Mic Pos	94
Rotary/Amp Sim Drive Type	111
Rotary/Amp Sim Drive Amt	110
Rotor Speed	108
Bass Wide	117
Transpose Enable	55
Program Transpose	56
Modulation Enable	106
Modulation Type	53
Modulation Rate	109
Modulation Amount	112
Modulation Upper Only	57
EQ Enable	115
EQ Bass Gain	50
EQ Mid Gain	116
EQ Mid Frequency	107
EQ Treble	113
Delay Enable	80
Delay Amount	93
Delay Tempo	39
Delay Feedback	83
Delay Analog	81
Delay Filter Type	79
Delay Upper Only	86

Nord Organ 3 Parameter	MIDI CC #
Reverb Enable	51
Reverb Type	52
Reverb Amount	102
Reverb Bright/Dark	103
Reverb Chorale	104
Reverb Pre-Rotary	105
B3 Click	31
Vibrato/Chorus Type	84
Chorus Deep	85
Vibrato/Chorus Upper Enable	44
Vibrato/Chorus Lower Enable	44
Drawbar 1*	16
Drawbar 2*	17
Drawbar 3*	18
Drawbar 4*	19
Drawbar 5*	20
Drawbar 6*	21
Drawbar 7*	22
Drawbar 8*	23
Drawbar 9*	24
Bass Pedal 16*	16
Bass Pedal 8*	17
Bass Sustain	41
Bass Pedal To Lower	37
Bass Pedal FX Bypass	40
B3 Percussion Enable	87
B3 Percussion Volume	34
B3 Percussion Decay	33
B3 Percussion Harmonic	95
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## INFORMATION ON DISPOSAL FOR USERS



EN

This electronic device must be recycled or discarded according to applicable local and national regulations.

The symbol shown, applied to the product or on its packing, indicates that, at end of life, the product is not to be thrown away, or disposed as unsorted municipal waste, but separately collected.

Clavia DMI AB encourages owners of Nord musical instruments to responsibly recycle their equipments when they are no longer needed.

Disposing of this product correctly will prevent potential negative effects on the environment and human health which could arise due to inappropriate waste handling.

## INFORMATIONS SUR L'ÉLIMINATION POUR LES UTILISATEURS



FR

Cet appareil électronique doit être recyclé ou jeté selon les lois en vigueur dans votre pays.

Ce symbole appliqué sur le produit ou sur son emballage, indique qu'à la fin de la vie de ce produit, il ne doit pas être jeté avec les déchets ménagers mais qu'il doit être déposé dans un point de collecte.

Clavia DMI AB encourage les possesseurs d'instruments de musique Nord à recycler de façon responsable quand les appareils ne sont plus utilisés.

L'élimination correcte de ce produit permettra d'éviter les effets négatifs potentiels sur l'environnement et la santé humaine qui pourraient résulter d'une manipulation inappropriée des déchets.

## INFORMATIONEN ZUR ENTSORGUNG FÜR BENUTZER



DE

Dieses elektronische Gerät muss gemäß den geltenden lokalen und nationalen Vorschriften recycelt oder entsorgt werden.

Das abgebildete Symbol auf dem Produkt oder auf der Verpackung weist darauf hin, dass das Produkt am Ende seiner Lebensdauer nicht weggeworfen oder im Hausmüll entsorgt werden darf, sondern separat gesammelt werden muss.

Clavia DMI AB ermutigt die Besitzer von Nord Musikinstrumenten, ihre Geräte verantwortungsbewusst zu recyceln, wenn sie nicht mehr benötigt werden.

Die ordnungsgemäße Entsorgung dieses Produkts verhindert mögliche negative Auswirkungen auf die Umwelt und die menschliche Gesundheit, die durch eine unsachgemäße Abfallbehandlung entstehen könnten.

## INFORMACIÓN SOBRE LA GESTIÓN DE RESIDUOS PARA LOS USUARIOS



ES

Este dispositivo electrónico debe reciclarse o desecharse de acuerdo con la normativa local y nacional aplicable.

El símbolo que se muestra, aplicado al producto o a su embalaje, indica que, al final de su vida útil, el producto no debe tirarse a la basura, ni eliminarse como residuo municipal sin clasificar, sino recogerse por separado.

Clavia DMI AB anima a los propietarios de instrumentos musicales Nord a reciclar responsablemente sus equipos cuando ya no los necesitan.

La eliminación correcta de este producto evitará los posibles efectos negativos sobre el medio ambiente y la salud humana que podrían surgir debido a una manipulación inadecuada de los residuos.

## INFORMAÇÃO SOBRE GESTÃO DE RESÍDUOS PARA OS UTILIZADORES



PT

Este dispositivo electrónico deve ser reciclado ou eliminado de acordo com os regulamentos locais e nacionais aplicáveis.

O símbolo mostrado, aplicado ao produto ou à sua embalagem, indica que no fim da sua vida útil o produto não deve ser deitado fora ou eliminado como lixo municipal não separado, mas sim recolhido separadamente.

Clavia DMI AB encoraja os proprietários de instrumentos musicais Nord a reciclar responsabilmente o seu equipamento quando este já não é necessário.

A eliminação correcta deste produto evitará potenciais efeitos negativos sobre o ambiente e a saúde humana que possam surgir devido a um manuseamento inadequado dos resíduos.

## INFORMAZIONI PER GLI UTENTI RELATIVE ALLO SMALTIMENTO



IT

Questo dispositivo elettronico deve essere riciclato o smaltito secondo le normative locali e nazionali vigenti.

Il simbolo raffigurato, applicato sul prodotto o sul suo imballaggio, indica che, a fine vita, il prodotto non deve essere gettato o smaltito come rifiuto urbano indifferenziato, ma raccolto separatamente.

Clavia DMI AB incoraggia i proprietari di strumenti musicali Nord a riciclare responsabilmente le loro apparecchiature quando non sono più necessarie.

Lo smaltimento corretto di questo prodotto eviterà potenziali effetti negativi sull'ambiente e sulla salute umana che potrebbero derivare da una gestione inappropriata dei rifiuti.



### INFORMATION ON RECYCLING OF PACKAGING MATERIALS

EN

Outer box and internal cardboard protection should be recycled as paper.  
Internal plastic foam protection and plastic bags should be recycled as plastics.

### INFORMATIONS SUR LE RECYCLAGE DES MATÉRIAUX D'EMBALLAGE

FR

La boîte extérieure et la protection interne en carton doivent être recyclées comme du papier.  
La protection interne en mousse plastique et les sacs en plastique doivent être recyclés en tant que plastiques.

### INFORMATIONEN ZUM RECYCLING VON VERPACKUNGSMATERIALIEN

DE

Der äußere Karton und der innere Kartonschutz sollten als Papier recycelt werden.  
Interner Kunststoffschamschutz und Plastiktüten sollten als Kunststoffe recycelt werden.

### INFORMACIÓN SOBRE RECICLAJE DE MATERIALES DE EMBALAJE

ES

La caja exterior y la protección interna de cartón deben reciclarse como papel.  
La protección interna de espuma de plástico y las bolsas de plástico deben reciclarse como plásticos.

### INFORMAÇÕES SOBRE A RECICLAGEM DE MATERIAIS DE EMBALAGEM

PT

A caixa externa e a proteção interna de papelão devem ser recicladas como papel.  
A proteção interna de espuma plástica e os sacos plásticos devem ser reciclados como plásticos.

### INFORMAZIONI SUL RICICLAGGIO DEI MATERIALI DI IMBALLAGGIO

IT

La scatola esterna e la protezione interna in cartone devono essere riciclate come carta.  
La protezione interna in schiuma di plastica e i sacchetti di plastica devono essere riciclati come plastica.



FR

Ce produit  
NORD et ses  
cordons se  
recyclent

À DÉPOSER  
EN MAGASIN



À DÉPOSER  
EN DÉCHÈTERIE



OU

Points de collecte sur [www.quefairedemesdechets.fr](http://www.quefairedemesdechets.fr)  
Privilégiez la réparation ou le don de votre appareil !

# FCC Information (U.S.A.)

## 1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Clavia may void your authority, granted by the FCC, to use the product.

**2. IMPORTANT:** When connecting this product to accessories and/ or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

**3. Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment is found to be the source of interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.

This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

## NOTICE

This Class B - digital apparatus complies with Canadian ICES-003.

## AVIS

Cet appareil numérique de la classe B - est conforme à la norme NMB-003 du Canada.

## DECLARATION OF CONFORMITY Compliance Information Statement

**Model Name:** Nord Organ 3

**Type of Equipment:** Digital Organ and piano

**Responsible Party:** Clavia DMI AB

**Address:** P.O. BOX 4214. SE-102 65 Stockholm Sweden

**Telephone:** +46-8-442 73 60

