USER MANUAL

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CONTENTS

1 SAFETY

1.1 Safety instructions

- Position the organ on a stable, horizontal surface.
- Connect the organ to a grounded power socket.
- Turn off the organ when it is not in use.
- Do not place the organ in a damp area.
- Do not expose the organ to liquids.
- Follow the instructions and precautionary measures in this user manual.
- Keep this user manual with the organ.
- The organ may only be opened by a technician authorized by Johannus Orgelbouw B.V. The organ contains static-sensitive components. The warranty is void if the organ is opened by a non-authorized person.

1.2 Symbols on the organ

 Warning

 Warning for electric shock

 Warning for static-sensitive components

1.3 Symbols in this manual

 Warning or important information

 Note

1.4 Transport and storage

Pay attention to the following during transport and storage:

1. Remove the music desk and the pedal board from the organ.
2. Relative humidity within the storage area: 40 to 60%.
3. Minimum temperature within the storage area: 0°C.

2 INSTALLATION

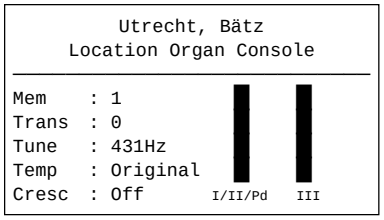
2.1 Installation and connection

1. Position the organ on a stable, horizontal surface.
2. Lean the organ slightly backward.
3. Slide the pedal board (C) against the organ.
4. Set the organ upright.
5. Place the organ bench (B) over the pedal board (C).
6. Make sure the voltage of the organ matches the voltage of the main. See the serial plate (A).
7. Connect the organ to a grounded power socket.

2.2 Switch on

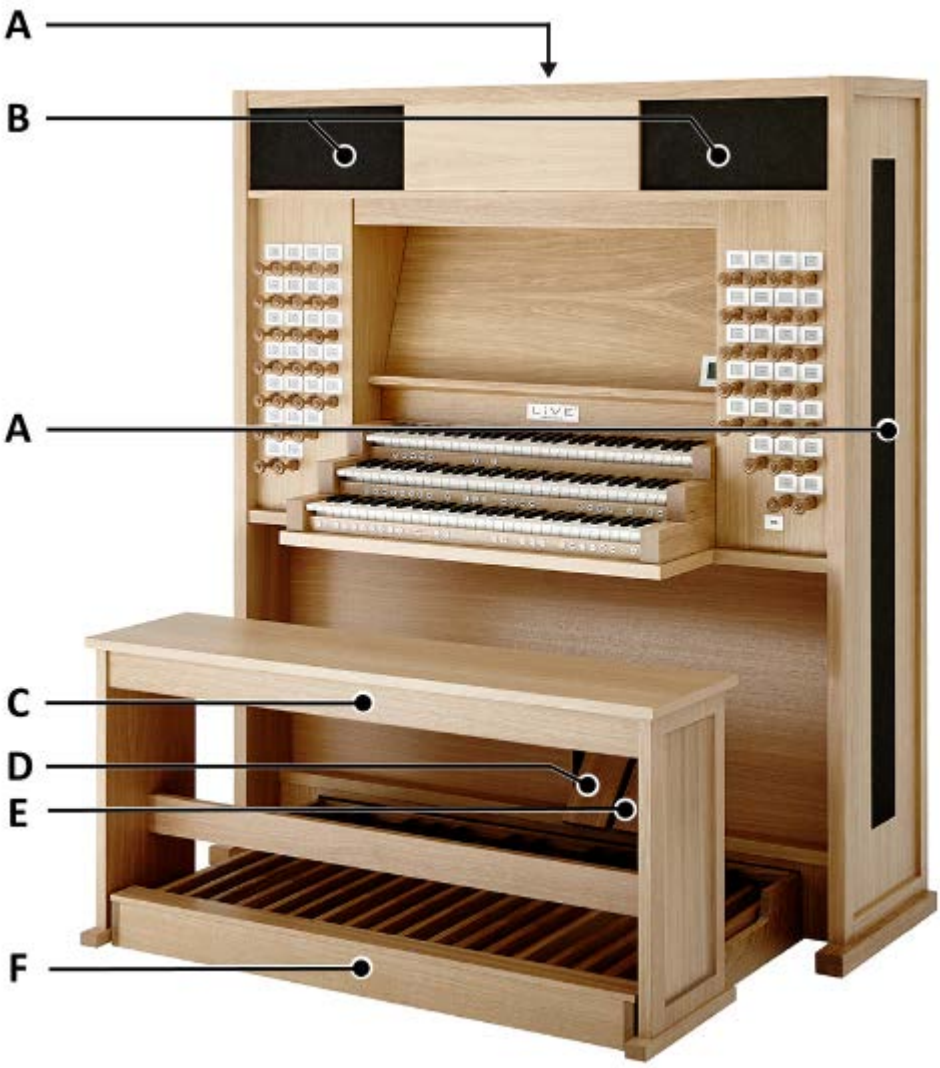
Switch on the organ with the on/off piston at the right, underneath the manuals. Wait several seconds. Starting the control functions and the settings will take some time.

The lights of the HR-piston and the as standard set functions light up. The settings appear on the display.



3 DESCRIPTION OF THE ORGAN

3.1 Overview of the components



A Surround loudspeakers

B Loudspeakers

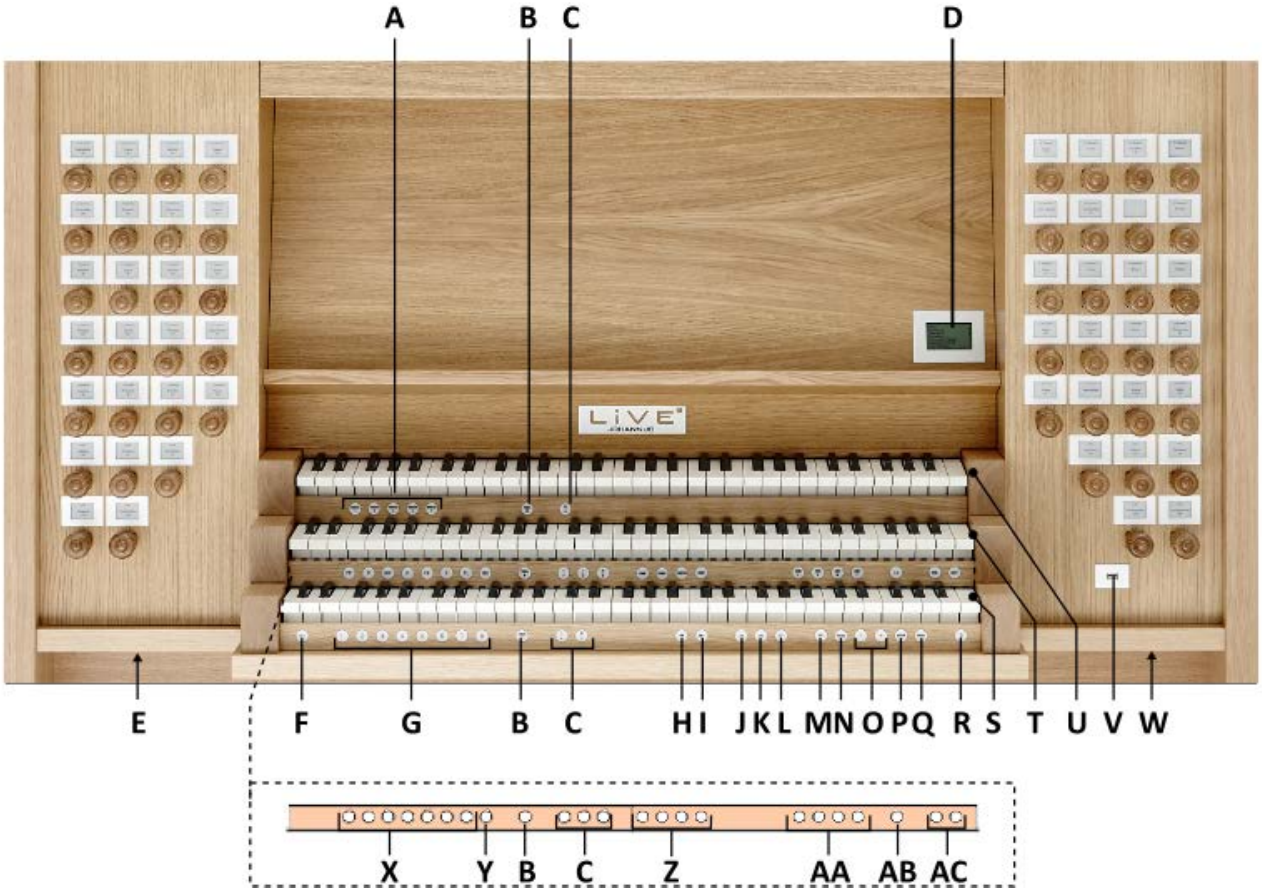
C Organ bench

D Swell pedal

E Crescendo pedal

F Pedal board

3.2 Overview of controls



A	Sample banks	**P**	ENTER
B	Tremulants	**Q**	MENU
C	Couplers	**R**	0: Reset
D	Display	**S**	Manual I
E	Headphone connection	**T**	Manual II
F	SET	**U**	Manual III
G	Capture memory locations	**V**	USB port
H	HR: Hand Registration	**W**	On/Off piston
I	HR+: Hand Registration +	**X**	Pre-programmed memory locations
J	CR: Crescendo	**Y**	RO: Reeds Off
K	MB: Manual Bass	**Z**	Listening Positions
L	CF: Cantus Firmus	**AA**	MIDI registers
M	VOL.: General Volume	**AB**	S/S: All Swells to Swell
N	TRANS.: Transposer	**AC**	SEQ- and SEQ+ pistons
O	- and + pistons		

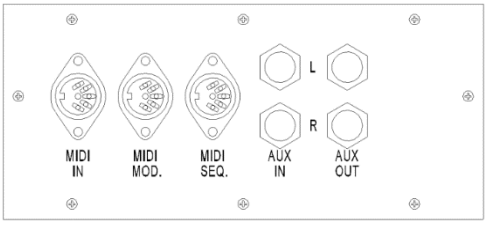
3.3 Connect and switch on the peripherals

You can connect peripherals (for example, a MIDI device) to the organ.

Follow the instructions provided in the documentation for the peripheral.

1. Switch off the organ and the peripheral.
2. Connect the peripheral to the organ.
3. Switch on the peripheral.
4. Switch on the organ.

3.4 External connections



The following external connections are on the left backside of the organ:

MIDI IN: An input for receiving MIDI codes from other devices.

MIDI MOD: A programmable MIDI output for connecting a sound module or expander, for example.

MIDI SEQ: A non-programmable MIDI output for connecting the Johannus MIDI Sequencer+ or PC (with the optional Johannus Intonat program), for example.

AUX IN: A stereo audio input for playing the sound of an external device through the amplifiers of the organ. For example, an expander connected to the organ through the MIDI MOD can be played through the instrument's loudspeakers.

AUX OUT: A stereo audio output for connecting an external device (amplifier or recording device, for example).

The following external connections are on the front side of the organ:

Headphone connection: This connection for a (stereo) headphone, Johannus Pure Audio™ , is suited for a headphone with an impedance of 30 Ω or more (see headphone specifications). Location of the connection: see §3.2 Overview of Controls, point E.

When the headphone is used, the loudspeakers of the organ are switched off automatically.

USB port: This connection is suited for the connection of a USB drive for uploading sample sets of new pipe organs. Location of the connection: see §3.2 Overview of Controls, point V.

4 OPERATION

4.1 Volume controls

General Volume: The volume of the organ can be adjusted with the VOL.-piston (0-100%).

1. Press the VOL.-piston.
2. Use the – and + pistons to set the volume. The settings appear on the display.

Adjusting the volume is only possible as long as the VOL.-piston is lit.

When the volume change needs to be saved, press the ENTER-piston in the time the VOL.-piston is lit.

4.2 Expression pedals

In the standard version the organ has two expression pedals. One is configured as a swell pedal for Manual III, and one is configured as a crescendo pedal. With use of the Johannus Menu, the function of the expression pedals can be changed, see §5.6.3 Expression Pedals.

Using an expression pedal which is set as a swell pedal will, next to the volume, also change the timbre of the stops. By this the effect of the swell box shutters of a pipe organ is simulated.

4.3 Sample banks

The Johannus LiVE is a fully fledged digital organ that uses sample sets, through which you can play numerous international pipe organs. The organ is equipped with the LIVEreverb II™ system. This system produces a natural reverb using recordings of the acoustics of existing international pipe organs.

4.3.1 Sample sets

A sample set is a USB drive containing a professional, authentic set of recordings from an actual pipe organ.

The LiVE organ has enough capacity to store five complete pipe organs. Practically speaking that means that you can copy five USB drives containing full recordings into the Johannus LiVE's memory. With the pistons ORGAN 1 to ORGAN 5 you can easily switch between pipe organs. See §3.2 Overview of Controls, point A.

If you have more than five sample sets, you can easily load a new one by overwriting one of your stored organ sets. If you'd like to go back to your original choice, just reload the organ that you overwrote. The sample sets are uploaded into the organ with a USB drive. See §5.4 Upload Organ.

Ordering sample sets
When you purchase a Johannus LiVE, it comes with two sample sets. New pipe organ recordings can be ordered individually from your dealer.

The sets are protected by a unique code, so they can only be used on your own organ.

4.4 Listening positions

The Sampled Listening Positions™ is a function which works with the LIVEreverb II™ to position the organ sound in the church. It lets you choose where to sit in the church to enjoy the sound of the organ.

The Johannus LiVE gives you essentially four different recordings for each organ: the organ bench, about ten meters from the front, the middle of the church, and the back of the church. A pipe organ sounds very different from all those different locations. From the organ bench, direct sound dominates the experience, with reverb in the background; from the middle of the church, in contrast, sound and reverb meld together far more seamlessly.

There is choice out of four locations:

- Location Organ Console (CONS.): you are sitting at the console of the organ
- Location Front (FRONT): you are sitting in front of the church
- Location Center (CENTER): you are sitting in the middle of the church
- Location Rear (REAR): you are sitting at the back of the church

The pistons CONS., FRONT, CENTER and REAR allow you to choose where to sit in the church to enjoy the sound of your organ. See §3.2 Overview of Controls, point Z.

4.5 Stops

The stops are activated via draw stops, pre-programmed memory locations, capture memory locations or the crescendo pedal.

4.5.1 Dynamic stoplist

Every stop on the Johannus LiVE comes with a small dynamic display that allows you to switch effortlessly between the stoplists of various pipe organs.

The designation of the stop groups are different per sample set. The stops are divided into the following main groups:

Pedal (P): Activates the stops associated with the Pedal.
Manual I: Activates the stops associated with Manual I.
Manual II: Activates the stops associated with Manual II.
Manual III: Activates the stops associated with Manual III.

The displays show the appropriate stoplist depending on which organ is currently being played. When you switch to a different pipe organ, the stoplist immediately changes to match. As a result, the registers operate like the stoplist for the Domkerk in Utrecht one moment and the stoplist for the Hofkirche in Dresden the next.

The contrast of the dynamic displays might reduce if the organ is inactive for an extended period of time. When switching on the organ, the displays get back to their original contrast.

4.6 Couplers

Manual couplers:
MANUAL I – MANUAL II (I-II):
Fully couples all keys of Manual I to Manual II.
MANUAL III – MANUAL II (III-II):
Fully couples all keys of Manual III to Manual II.
MANUAL III – MANUAL I (III-I):
Fully couples all keys of Manual III to Manual I.

Pedal couplers:
MANUAL I – PEDAL (I-P):
Fully couples all keys of Manual I to the Pedal.
MANUAL II – PEDAL (II-P):
Fully couples all keys of Manual II to the Pedal.
MANUAL III – PEDAL (III-P):
Fully couples all keys of Manual III to the Pedal.

The designation of the main registers vary from sample set, therefore the couplers are indicated by roman numerals.

4.7 Accessories

Reeds Off (RO):
Reeds Off is a function to switch off all reed stops simultaneously. As long as this piston is pressed, no reed stops can be activated. When this function is switched off, the reed stops that were on are activated again. Activate the Reeds Off with the RO-piston.

Sequence - and + (SEQ-, SEQ+):
Sequence is a function for sequential selecting capture memory locations.

1. Select a capture memory location to start.
   (for example level 2, location 2)
2. Use the SEQ- or SEQ+ pistons to select the previous or next capture memory location.

All Swells to Swell (S/S):
All Swells to Swell transforms the expression pedal for Manual III, to a swell pedal for the whole organ. Activate the All Swells to Swell with the S/S-piston.

If no expression pedal is configured as a swell pedal for Manual III, the S/S-piston cannot be activated.

Hand Registration (HR):
Only when the HR-piston is activated, you will be able to register manually.

If you are unable to hear an organ sound, after you have pulled a draw stop and pressed a key, please check if the HR-piston is activated.

Hand Registration + (HR+):
Only when the HR+ piston is activated, you can join your own registration to the fixed-, as well as to the capture memory combinations.

Crescendo (CR):
Crescendo is a function to activate and de-activate the Crescendo Pedal. If no expression pedal is configured as crescendo pedal, the CR-piston cannot be activated. See §4.10 Crescendo Pedal.

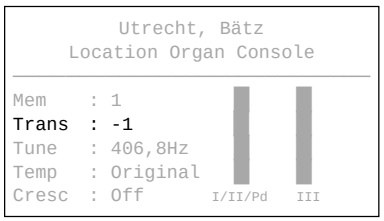
Manual Bass (MB):
Couples the Pedal monophonic to Manual II. Only the lowest key that is played on Manual II is coupled from the Pedal to Manual II.
If only the lowest key of a chord is released, the pedal key activated by the Manual Bass function is dropped until a new lowest key is played.
Activate the Manual Bass with the MB-piston.

It is advisable not to use the Manual Bass while playing the pedal board to avoid double bass tones.

Cantus Firmus (CF):
Cantus firmus: Latin for ‘fixed voice’ or in organs ‘solo voice’ or ‘melody coupler’.
Couples Manual III monophonic to Manual II. Only the highest key that is played on Manual II is coupled from Manual III to Manual II.
With use of a solo registration on Manual III in this way a solo is heard while playing only on Manual II.
If only the highest key of a chord is released, the key activated by the Cantus Firmus function is dropped until a new highest key is played.
Activate the Cantus Firmus with the CF-piston.

It is advisable not to use the Cantus Firmus in combination with the coupler III-II because this overrules the solo function of the Cantus Firmus.

Transposer (TRANS.):
The Transposer function shifts the pitch by half-tone increments (from -8 to +8). The transposer setting can be read on the display (`Trans: …`).



1. Press the TRANS.-piston.
2. Use the - and + pistons to set the pitch.
3. When the transposer change needs to be saved, press the ENTER-piston in the time the TRANS. piston is lit.

Changing the pitch, automatically changes the frequency.

Reset function (0):
By pressing the 0-piston, all stops are cancelled.

4.8 Pre-programmed memory locations

Pre-programmed memory locations are available by operating pistons PP to T and PL. These seven memory locations have factory settings (presets) appropriate for the quiet pianissimo to the loud tutti and the classical plenum. These pre-programmed memory locations are for each sample set.

Calling up a pre-programmed memory location:
Press a pre-programmed memory location (PP-T or PL).

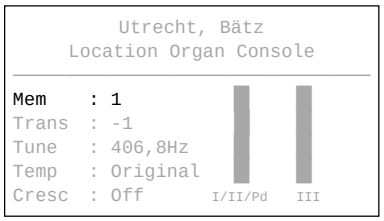
Programming a pre-programmed memory location:

The current setting of the pre-programmed memory location will be lost.

Although it is possible to store any registration under a piston of a pre-programmed memory location it is advisable to select a registration matching the text of the piston.

1. Press the HR-piston.
2. Select the desired stops.
3. Press the SET-piston. Hold the piston.
4. Press the desired pre-programmed memory location (PP-T or PL).
5. Release the SET-piston.

4.9 Capture memory



Through use of the capture memory, a registration can be activated with just one piston. The capture memory consists of 50 levels.
These levels can be seen on the display (Mem:…). Each level has eight memory locations (pistons 1-8). The 400 capture memory locations are not pre-programmed and can be programmed by the musician. The capture memory locations are per sample set.

Programming a capture memory location:

The current setting of the capture memory location will be lost.

1. Press the HR-piston.
2. Select the desired stops.
3. Use the - and + pistons to select a level (1-50) on the display.
4. Press the SET-piston. Hold in the piston.
5. Press the desired memory location (1-8).
6. Release the SET-piston.

Calling up a capture memory location:

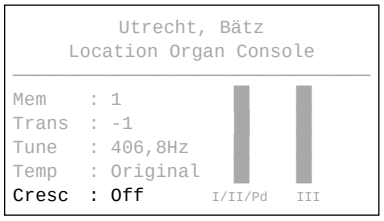
1. Press the HR-piston.
2. Use the - and + pistons to select the desired level (1-50) on the display.
3. Press the desired memory location (1-8).

Through use of the SEQ- and SEQ+ pistons previous or next memory locations can be selected in steps of one. The lighted memory location piston and the memory level shown in the display indicate the selected location.

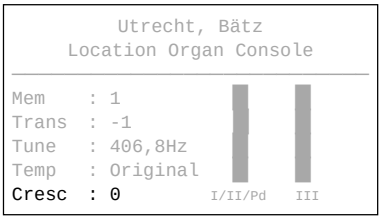
4.10 Crescendo pedal

The crescendo pedal can be used to activate 20 registrations step-by-step. These registrations start with very quiet (pianissimo) to very loud (tutti).
The default registrations of the 20 steps can be changed. See §5.5.1 Crescendo.

Activating the crescendo pedal
If the crescendo pedal is not activated it is indicated on the displays with Cresc:Off.



Use the CR-piston to activate the crescendo pedal. The display indicates the current step.



Crescendo pedal as additional swell pedal
The crescendo pedal can also be configured as a swell pedal see §5.6.3 Expression Pedals. If the crescendo pedal is set as additional swell pedal, all functions of the original crescendo pedal are deactivated.

4.11 Quick Access

Quick Access is a function to quickly access certain functions of the organ.

4.11.1 Programming mode crescendo pedal

> This function is not available if no expression pedal is set as crescendo pedal.

Pressing the ENTER-and CR-piston simultaneously enters the programming mode of the crescendo pedal. See §5.5.1 Crescendo, sub 6 for next steps.

5 JOHANNUS MENU

In the Johannus Menu several functions of the organ can be set:

- Press the MENU piston to activate the Johannus Menu on the display.
- Navigating the menu is done with the - and + pistons.
- Confirmation of a choice is done with the ENTER-piston.
- Cancel or step back in the menu is done with the MENU-piston.

The Johannus Menu consists of the following functions:

Function	More information
Reverb Volume	§ 5.1
Fine Tune	§ 5.2
Temperaments	§ 5.3
Upload Organ	§ 5.4
Organ Settings ➢ Crescendo ➢ Datadump ➢ Key Volumes ➢ MIDI Config ➢ Reset	§ 5.5
System Settings ➢ Default Ambiance ➢ Default Organ ➢ Expression Pedals ➢ Headphone/Aux Out ➢ Keyboard Mode ➢ Reset ➢ Side Speakers Level ➢ Version	§ 5.6

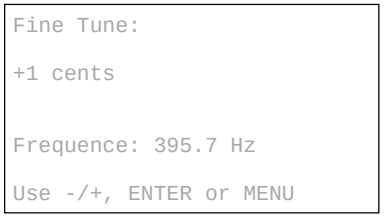
5.1 Reverb Volume

With the function Reverb Volume you can set the volume of the reverb from 0-100%.

1. Press the MENU-piston.
2. Use the - and + pistons to select the `Reverb Volume` function on the display.
3. Press the ENTER-piston. The current reverb volume appears on the display behind `Level: .`
4. Use the - and + pistons to select the desired level.
5. Press the ENTER-piston to confirm.
6. Press the MENU-piston to exit the Johannus Menu.

5.2 Fine Tune

The Fine Tune function shifts the pitch in steps of 1 cent, from -50 till +50 cents. The frequency adapts automatically. The set pitch can be read on the display directly behind `Tune:` .



1. Press the MENU-piston.
2. Use the - and + pistons to select the `Fine Tune` function on the display.
3. Press the ENTER-piston. The actual Fine Tune setting appears in cents on the display behind the actual transposer setting (`Trans: ../..c`)..
4. Use the - and + pistons to select the desired pitch.
5. Press the ENTER-piston to program the new setting and to return to the Johannus Menu.
6. Press the MENU-piston to exit the Johannus Menu.

5.3 Temperaments

The Temperaments function sets the temperament. The set temperament can be read on the display behind the `Temp:` text.

There are twelve different temperaments:

- Original (original temperament)
- Equal (normal temperament)
- Young II
- Vallotti
- Kirnberger III
- Kirnberger II
- Neidhardt III
- Werckmeister III
- 1/6 Meantone (1/6 comma meantone)
- 1/5 Meantone (1/5 comma meantone)
- 1/4 Meantone (1/4 comma meantone)
- Pythagorean

Besides these twelve temperaments it is possible to configure a custom temperament:

- Custom (free programmable temperament)

Selecting a temperament

1. Press the MENU-piston.
2. Use the - and + pistons to select the `Temperaments` function on the display.
3. Press the ENTER-piston. A list of available temperaments appears on the display. The pointer indicates the current temperament.
4. Use the - and + pistons to select the desired temperament.

5. Press the ENTER-piston to program the new setting and to return to the Johannus Menu.
6. Press the MENU piston twice to exit the Johannus Menu.

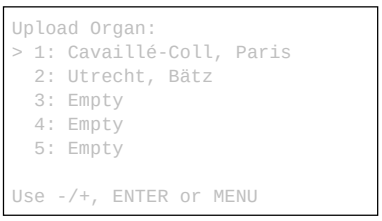
Programming a custom temperament
With this function it is possible to create a personal temperament. Every key can be detuned with increments of 1 cent. The minimum value is -32 cents; the maximum value is +32 cents.


The programming can be done using the middle octave of Manual II and is automatically calculated for all keys of the organ.

1. Press the MENU-piston.
2. Use the - and + pistons to select the `Temperaments` function on the display.
3. Press the ENTER-piston. A list of available temperaments appears on the display. The pointer indicates the actual temperament.
4. Use the - and + pistons to select the `Custom Programming` function.
5. Press the ENTER-piston.
6. Press and hold a key of the middle octave of Manual II. The detune setting of the pressed key appears on the display. The given detuning is compared to the equal temperament.
7. Use the - and + pistons to select the desired pitch of the pressed key.
8. If necessary repeat steps 6 and 7 for another key of the middle octave.
9. Press the MENU piston twice to exit the Johannus Menu.


Using the reset procedure `Cust. Temperament def.` the Custom Temperament can be reset to equal temperament. See §5.5.5 Reset.

5.4 Upload Organ



With the function Upload Organ you can copy a USB drive, containing full recordings of pipe organs, into the Johannus LiVE's memory. The major advantage of storing a full recording is that you can switch effortlessly between your selected pipe organs. If you have more than five sample sets, you can easily load a new one by overwriting one of your stored organ sets. If you'd like to go back to your original choice, just reload the organ that you overwrote.

1. Place the USB drive in the USB port of the organ.
2. Press the MENU-piston.
3. Use the – and + pistons to select the function `Upload Organ` on the display.
4. Press the ENTER-piston. Five options appear on the display. The pointer indicates the current choice. These five numbers coincide with the ORGAN 1 till ORGAN 5-pistons.
5. Use the – and + pistons to select the desired choice:

- Select the option `Empty` is you desire to copy the sample set to an empty location.
- Select an option where a sample set has already been stored, if you would like to overwrite this with a new sample set.

6. Press the ENTER-piston to confirm. A notification appears on the screen that a USB drive is being searched for. Please wait.
7. A notification appears on the display that the sample set is being uploaded. This might take 15-20 minutes. Do not turn of the organ in the meanwhile.
8. The uploading is completed at 100% and you will automatically return to the main screen. You can play the pipe organ directly. The small dynamic displays over the wooden draw stops will show the precise stoplist that goes with the pipe organ you selected.

5.5 Organ Settings

With the Organ Settings menu you can change the settings per sample set. The Organ Settings menu consists of the following sub functions:

- Crescendo § 5.5.1
- Datadump § 5.5.2
- Key Volumes § 5.5.3
- MIDI Config § 5.5.4
- Reset § 5.5.5

5.5.1 Crescendo

The crescendo pedal contains 20 pre-programmed registrations. These registrations start with very quiet (pianissimo) to very loud (tutti). These pre-programmed registrations can be changed.


Step 0 of the crescendo pedal cannot be changed.

1. Press the MENU-piston.
2. Use the - and + pistons to select the `Organ Settings` function on the display.
3. Press the ENTER-piston. A list with available Organ Settings appears on the display.
4. Use the - and + pistons to select the `Crescendo` function on the display.
5. Press the ENTER-piston. The first step of the crescendo pedal appears on the display.
6. Use the - and + pistons to select the step which has to be changed.
7. Change the registration and press the ENTER-piston to save the new registration in the memory of the organ.
8. Repeat steps 6 and 7 if more crescendo pedal steps has to be changed.
9. Press the MENU piston three times to exit the Johannus Menu.

5.5.2 Datadump

The Datadump function sends several settings from the organ to a storage medium (the Johannus MIDI Sequencer+, for example) through the MIDI SEQ output. See § 3.4 External connections.

Settings to send are: the content of all capture memory locations and all settings which can be set via the Johannus Menu, except Key Volumes. Key Volume settings are a part of the intonation data. These data can be received with the optional Johannus Intonat software.

a. Sending data from the organ

1. Press the MENU-piston.
2. Use the - and + pistons to select the `Organ Settings` function on the display.
3. Press the ENTER-piston. A list with available Organ Settings appears on the display.
4. Use the - and + pistons to select the `Datadump` function on the display.
5. Press the ENTER-piston. The `Press ENTER to send data` text appears on the display.
6. Make sure the desired storage medium, the Johannus MIDI Sequencer+ for example, is properly connected.
7. Press the ENTER-piston. When data is being sent, `Sending data` appears on the display. Sending data will take some time.

Do not use the organ when the `Sending data` text is on the display.

8. If the data dump is complete, the main menu appears on the display.
9. Press the MENU-piston twice to exit the Johannus Menu.

b. Uploading data to the organ

Receiving a data file has no relation to the Johannus Menu and can be done on every moment the organ is switched on, except when loading a new sample set.

Make sure to upload only data files which are recorded from the instrument concerned. Uploading a data file from another instrument may jeopardize the functioning of your instrument.

1. Make sure the storage medium, the Johannus MIDI Sequencer+ for example, with a previous recorded data file is properly connected.
2. Start sending the data file on the sequencer. A message that a data file is being received appears on the display of the organ.
3. When the upload is completed the main screen of the display appears automatically.

5.5.3 Key Volumes

The Key Volumes function makes it possible to adjust the key volumes of each stop. The Key Volumes function consists of the following sub functions:

a. Adjust
b. Reset one stop
c. Reset ALL stops

a. Adjust
The Adjust function sets the volume per key and stop.

1. Switch off all stops.
2. Press the MENU-piston.
3. Use the - and + pistons to select the `Organ Settings` function on the display.
4. Press the ENTER-piston. A list with available Organ Settings appears on the display.
5. Use the - and + pistons to select the `Key Volumes` function on the display.
6. Press the ENTER-piston. The sub functions of the Key Volumes menu appear on the display.

If you are asked to enter a code, the Key Volumes function has been secured at the request of the owner. Contact the owner or dealer to retrieve the code. Enter the code using the pistons of the capture memory locations and press the ENTER piston.

```
Enter code:
_ _ _ _
```

7. Use the - and + pistons to select the sub function `Adjust` and press the ENTER-piston. A question to select a stop to adjust appears on the display.
8. Activate one stop. A question to press a key appears on the display.
9. Press one key on the corresponding division and hold the key. The display will now show following `Key:` the key indicator and following `Vol:` the volume.
10. Use the - and + pistons to set the desired volume.
11. Press the ENTER-piston to save the change. The display requests confirmation. Use the - and + pistons to select `No` or `Yes`.
12. Press the ENTER-piston to confirm.
13. Press the MENU piston to return to the Key Volumes menu.
14. If the changes have not been saved, the display will show `Discard changes?`. Use the - and + pistons to select `Yes` for discarding and press the ENTER piston. Go to step 18.
15. Use the - and + pistons to select `No` if the changes still has to be saved and press the ENTER-piston.
16. Press the ENTER-piston. The display requests confirmation.
17. Use the - and + pistons to select `Yes`. Press the ENTER-piston for confirmation.
18. Press the MENU piston three times to exit the Johannus Menu.

More key volumes can be changed by pressing another key or by selecting another stop.

b. Reset one stop
The Reset one stop sub function resets the key volumes for one stop to the factory setting.

1. Switch off all stops.
2. Use the - and + pistons to select the `Organ Settings` function on the display.
3. Press the ENTER-piston. A list with available Organ Settings appears on the display.
4. Press the MENU-piston.
5. Use the - and + pistons to select the `Key Volumes` function on the display.
6. Press the ENTER-piston. The sub functions of the Key Volumes menu appear on the display.

If you are asked to enter a code, the Key Volumes function has been secured at the request of the owner. Contact the owner or dealer to retrieve the code. Enter the code using the pistons of the capture memory locations and press the ENTER piston.

```
Enter code:
_ _ _ _
```

7. Use the - and + pistons to select the `Reset one stop` sub function on the display.
8. Press the ENTER-piston. A question to select a stop to reset appears on the display.
9. Activate one stop. A question to confirm appears on the display.
10. Use the - and + pistons to select `No` or `Yes`.
11. Press the ENTER-piston to confirm and to return to the Key Volumes menu.
12. Press the MENU pistons three times to exit the Johannus Menu.

c. Reset ALL stops

The Reset ALL stops function resets the key volumes of all stops to the factory setting.

1. Press the MENU-piston.
2. Use the - and + pistons to select the `Organ Settings` function on the display.
3. Press the ENTER-piston. A list with available Organ Settings appears on the display.
4. Use the - and + pistons to select the `Key Volumes` function on the display.
5. Press the ENTER-piston. The sub functions of the Key Volumes menu appear on the display.

If you are asked to enter a code, the Key Volumes function has been secured at the request of the owner. Contact the owner or dealer to retrieve the code. Enter the code using the pistons of the capture memory locations and press the ENTER piston.

```
Enter code:
_ _ _ _
```

6. Use the - and + pistons to select the `Reset ALL stops` sub function on the display.
7. Press the ENTER-piston. A question to confirm appears on the display.
8. Use the - and + pistons to select `No` or `Yes`.
9. Press the ENTER-piston to confirm and to return to the Key Volumes menu.
10. Press the MENU-piston three times to exit the Johannus Menu.

5.5.4 MIDI Config

MIDI is a protocol for communication between the organ and other devices, such as PC, Johannus MIDI Sequencer+ or other musical instruments.

The programmable MIDI stops allow you to control any module voice through any MIDI channel (1-16).
The four parts of the programmable MIDI code are: Channel, MSB, LSB and Voice.

1. Press the MENU-piston.
2. Use the - and + pistons to select the `Organ Settings` function on the display.
3. Press the ENTER-piston. A list with available Organ Settings appears on the display.
4. Use the - and + pistons to select the `MIDI Config` function on the display.
5. Press the ENTER-piston. A question to select a MIDI stop to configure appears on the display.
6. Activate the MIDI stop which has to be configured. The settings of the corresponding MIDI stop appear on the display. An pointer is located in front of the value of the MIDI channel.
7. Use the - and + pistons to select the desired MIDI channel.
8. Press the ENTER-piston. The pointer jumps to the MSB value.
9. Use the - and + pistons to select the desired MSB value.
10. Press the ENTER-piston. The pointer jumps to the LSB value.
11. Use the - and + pistons to select the desired LSB value.
12. Press the ENTER-piston. The pointer jumps to the Voice value.
13. Use the - and + pistons to select the desired Voice value.
14. Press the ENTER-piston. The selected configuration is now stored in memory. The pointer jumps back to the MIDI channel location.
15. Press the MENU piston three times to exit the Johannus Menu.

5.5.5 Reset

The Reset function can be used to reset a number of setting per sample set to the factory settings.

1. Press the MENU-piston.
2. Use the - and + pistons to select the `Organ Settings` function on the display.
3. Press the ENTER-piston. A list with available Organ Settings appears on the display.
4. Use the - and + pistons to select the `Reset` function on the display.
5. Press the ENTER-piston. The available Reset functions appear on the display.
6. Use the - and + pistons to select the desired reset procedure:

`Crescendo default`:	Resets the factory settings of the 20 steps of the crescendo pedal.
`Cust. Temperament def.`:	Resets the custom programmable temperament to equal temperament.
`Intonation default`:	Resets the factory settings of the intonation.

`Memory default`:	Clears the entire capture memory.
`MIDI default`:	Resets the factory settings of the MIDI stops.
`Preset default`:	Resets the factory settings of the pre programmed memory locations.

7. Press the ENTER-piston. A question to confirm appears on the display.
8. Use the - and + pistons to select `No` or `Yes`. Press the ENTER-piston to confirm and to return to the Reset menu.
9. Press the MENU piston three times to exit the Johannus Menu.

5.6 System Settings

With the System Settings menu you can change the settings for the entire LiVE organ. The System Settings menu consists of the following sub functions:

5.6.1 Default Ambiance

The System Setting Default Ambiance determines which listening position is selected at the startup of the organ.

1. Press the MENU-piston
2. Use the – and + pistons to select the `System Settings` function on the display.
3. Press the ENTER-piston. A list with available System Settings appears on the display.
4. Use the – and + pistons to select the `Default Ambiance` setting.
5. Press the ENTER-piston. A list with available listening positions appears on the display with a pointer for the selected listening position.
6. Use the – and + pistons to select the desired listening position.
7. Press the ENTER-piston to confirm and to return to the System Settings menu.
8. Press the MENU-piston twice to exit the Johannus Menu.

5.6.2 Default Organ

The System Setting Default Organ determines which sample set is selected at the startup of the organ.

1. Press the MENU-piston
2. Use the – and + pistons to select the `System Settings` function on the display.
3. Press the ENTER-piston. A list with available System Settings appears on the display.
4. Use the – and + pistons to select the `Default Ambiance` setting.
5. Press the ENTER-piston. A list with available sample sets appears on the display with a pointer for the selected sample set.
6. Use the – and + pistons to select the desired sample set.
7. Press the ENTER-piston to confirm and to return to the System Settings menu.
8. Press the MENU-piston twice to exit the Johannus Menu.

5.6.3 Expression Pedals

The organ is equipped with PEPC™ (Programmable Expression Pedal Configuration). This function makes it possible to configure each expression pedal to one's own discretion.

We distinguish two types of expression pedals:

Swell pedal: Dynamics by increase or decrease of volume. In a pipe organ this is achieved by closing or opening the swell shutters of a swell box. See also § 4.2 Expression pedal.

Crescendo pedal: Dynamics by increase or decrease the amount of stops. See also § 4.10 Crescendo Pedal.

a. An expression pedal can be configured as a swell pedal for several divisions at the same time.
b. A division can only be connected to one expression pedal at the same time.
c. An expression pedal cannot be configured as a swell pedal and a crescendo pedal at the same time.

1. Press the MENU-piston.
2. Use the – and + pistons to select the `System Settings` function on the display.
3. Press the ENTER-piston. A list with available System Settings appears on the display.
4. Use the - and + pistons to select the `Expression Pedals` function on the display.
5. Press the ENTER-piston. The available expression pedals appear on the display.
6. Use the - and + pistons to select the expression pedal the function of which must be changed.
7. Press the ENTER-piston. The available possibilities appear on the display. Behind the possibilities the actual setting is marked with a 'v'.
8. Use the - and + pistons to select the desired setting.
   `I:` Swell pedal for Manual I

II/Pd: Swell pedal for Manual II/Pedal
III: Swell Pedal for Manual III
Cresc: Crescendo Pedal

9. Press the ENTER-piston. The pointer jumps to the chosen position.
10. Use the - and + pistons to select the functionality.
11. Press the ENTER-piston for confirmation.
12. Press the MENU piston to return to the Expression Pedals menu.
13. If necessary, repeat steps 6 to 12 for another expression pedal.
14. Press the MENU piston three times to exit the Johannus Menu.

5.6.4 Headphone / Aux Out

System Setting Headphone / Aux-Out determines the volume level of the headphone / Aux-output at startup of the organ.

1. Press the MENU piston.
2. Use the - and + pistons to select the System Settings function on the display.
3. Press the ENTER-piston. A list with available system settings appears on the display.
4. Use the - and + pistons to select the Headphone / Aux Out function.
5. Press the ENTER-piston. The current setting appears on the display.
6. Use the - and + pistons to select the desired level.
7. Press the ENTER-piston to confirm and to return to the System Settings menu.
8. Press the MENU piston twice to exit the Johannus Menu.

5.6.5 Keyboard Mode

The Keyboard Mode function sets the operation of the keys.

1. Press the MENU-piston.
2. Use the - and + pistons to select the System Settings function on the display.
3. Press the ENTER-piston. A list with available system settings appears on the display.
4. Use the - and + pistons to select the Keyboard Mode function on the display.
5. Press the ENTER-piston. The available manuals appear on the display.
6. Use the - and + pistons to select the manual the setting of which must be changed.
   I: Manual I
   II: Manual II
   III: Manual III
7. Press the ENTER-piston. The available options appear on the display.
8. Use the - and + pistons to select a setting for the operation of the keys.

Automatic: The manual has been set to High. When activating a programmable MIDI, the manual will be set to Velocity automatically.
High: The keys respond when touched very lightly.
Low: The keys respond when pressed further.
Velocity: The keys are touch-sensitive.

9. Press the ENTER-piston to program the settings. The available manuals appear on the display again.
10. Repeat steps 6 to 9 to change the setting of another manual or press the MENU piston three times to exit the Johannus Menu.

5.6.6 Reset

The Reset function can be used to reset a number of settings to the factory settings.

1. Press the MENU-piston.
2. Use the - and + pistons to select the System Settings function on the display.
3. Press the ENTER-piston. A list with available system settings appears on the display.
4. Use the - and + pistons to select the Reset function on the display.
5. Press the ENTER-piston. The available Reset functions appear on the display.
6. Use the - and + pistons to select the desired reset procedure:
   Expression Pedals default: Resets the factory settings of the expression pedals.
   Keyboard Mode default: Resets the factory settings of the keys.
7. Press the ENTER-piston. A question to confirm appears on the display.
8. Use the - and + pistons to select No or Yes. Press the ENTER-piston to confirm and to return to the Reset menu.
9. Press the MENU piston three times to exit the Johannus Menu.

5.6.7 Side Speakers Level

The System Settings function Side Speakers Level determines the volume level of the Surround Loudspeakers at startup of the organ.

1. Press the MENU piston.
2. Use the - and + pistons to select the System Settings function on the display.
3. Press the ENTER-piston. A list with available system settings appears on the display.
4. Use the - and + pistons to select the Side Speakers Level function on the display.
5. Press the ENTER-piston. The current settings for the left and the right side speaker appear on the display.
6. Use the - and + pistons to select side the level has to be changed.
7. Press the ENTER-piston. The pointer jumps to the set level.

8. Use the - and + pistons to select the desired level (0-100%).
9. Press the ENTER-piston to confirm and to return to the Side Speakers Level menu.

For a proper balance of the Surround sound it is advisable to keep both sides on an equal level. Use only unequal levels to correct different volumes caused by, for example, reflective surfaces on one side of the organ.

10. Press the MENU piston three times to exit the Johannus Menu.

5.6.8 Version

The Version function shows the version number of the software of the organ, as well as the organ's order number.

1. Press the MENU piston.
2. Use the - and + pistons to select the `System Settings` function on the display.
3. Press the ENTER-piston. A list with available system settings appears on the display.
4. Use the - and + pistons to select the `Version` function on the display.
5. Press the ENTER-piston. The data of the software of the organ appears on the display.
6. Press the MENU piston three times to exit the Johannus Menu.

6 MAINTENANCE, TROUBLESHOOTING AND WARRANTY

6.1 Maintenance

Overview

Component	Maintenance	Frequency
Cabinet	Cleaning. See § 6.1.1	As required
Manuals	Cleaning and removing scratches. See § 6.1.2	As required

6.1.1 Maintenance of the cabinet

Do not use furniture polish or teak oil to clean the organ cabinet.
Direct sunlight may discolor the organ cabinet.

1. Clean the cabinet with a damp cloth.
2. Rub the cabinet dry with a lint-free cloth.

6.1.2 Maintenance of the manuals

By default, the Johannus LiVE comes with plastic manuals with a wooden core.

Do not use aggressive cleaning agents such as paint thinner or acetone to remove dirt.

1. Clean the manuals with a damp cloth.
2. Rub the manuals dry with a lint-free cloth.
3. Remove any scratches with car polish.

6.2 Problems

Overview

Symptom	Cause	Solution
Pedal board does not work properly	The pedal magnet is making poor contact with the magnetic switch at the rear of the pedal front cover.	Reposition the pedal board. See § 2.1
Organ functions do not work properly	The organ is not grounded.	Connect the organ to a grounded power socket.

6.3 Warranty

The conditions are specified in the warranty certificate. The warranty is void if changes or repairs are made to the organ by persons or organizations that are not authorized by Johannus Orgelbouw B.V.

7 MIDI IMPLEMENTATIONS

7.1 MIDI Implementation Chart

JOHANNUS Organs — Date: October 2015

MIDI Implementation card — Version 1.00

Functions		**Transmitted**	**Recognized**	**Remarks**
Basic Channel	Default Changes	See MIDI Specs See MIDI Specs	See MIDI Specs Y[1]	See MIDI Specs
Mode	Default Messages Altered	Mode 3 N * * * * * * * *	Mode 3 N N	
Note Number	True Voice	36 - 96 * * * * * * * *		
Velocity	Note ON Note OFF	9nH v=1 - 127 9nH (v=64) 9nH (v=0)	9nH v=1 - 127 9nH v=1 - 127 9nH v=0, 8nH v=*	Velocity ON Velocity OFF *=irrelevant
After Touch	Keys Channels	N N		
Fine Tune Bend		N		
Control Change	7 11 100/101/6/38 100/101/6	Y Y Y Y		General Volume Expr. pedals Fine Tune Transposer
Program Change	: True#	See MIDI Specs * * * * * * * *	See MIDI Specs See MIDI Specs	See MIDI Specs See MIDI Specs
System Exclusive		See MIDI Specs	See MIDI Specs	See MIDI Specs
Common	: Song Pos : Song Sel : Tune	N N N	N N N	
System Real Time	: Clock : Commands	N N	N N	
Aux	: Reset All Contr. : Local ON/OFF : All Notes OFF : Active Sense : Reset	N N Y N N	N N Y N N	
Notes		[1] Depends on number of divisions		

Mode 1: OMNY ON, POLY — Mode 2: OMNY ON, MONO — Y=YES

Mode 3: OMNY OFF, POLY — Mode 4: OMNY OFF, MONO — N=NO

7.2 MIDI Specifications

This paragraph describes the specifications on the MIDI Implementation Chart in more detail.

Default basic channels (transmitted/recognized)

7: Pedal
8: Manual I
9: Manual II
10: Manual III
16: Accessories

Basic channel changes (transmitted)
Can be programmed through the MIDI Config. See § 5.5.4 MIDI Config.

Control changes (transmitted)

- Controller 7 (07h) General volume, with volume values 40 (28h) – 127 (7Fh).
- Controller 11 (0Bh) Swell pedal, with volume values 55 (37h) – 127 (7Fh).
- Controller 6 (06h) Fine Tune, with Fine Tune values 33 (21h) - 95 (5Fh).
  Fine Tune value 64 (40h) = A = 0 cents.
  The following applies to the Fine Tune:
  LSB 100 (64h) 1 (01h) and the MSB 101 (65h) 0(00h).
  Transposer, with transposer values 56 (38h) - 72 (48h).
  Transposer value 64 (40h) = A = center.
  The following applies to the transposer:
  LSB 100 (64h) 2 (02H) and the MSB 101 (65h) 0(00h).

Control changes (recognized)

- Controller 7 (07h) General volume, with volume values 0 (00h) – 127 (7Fh). Volume values less than 40 (28h) are treated as 40 (28h).
- Controller 11 (0Bh) Swell pedal, with volume values 0 (00h) – 127 (7Fh). Volume values less than 55 (37h) are treated as 55 (37h).

Program changes (transmitted/recognized)
Organ stops: Depends on the number of stops and the sequence of stops.
MIDI stops (programmable): 1-128. See § 5.5.4 MIDI Config.

System exclusive messages (transmitted/recognized)
Each ‘sys ex’ (system exclusive) message largely looks the same. The first 7 bytes and the last byte are always the same. Only the value of the 8th byte varies. This is the ‘sys ex message’ that Johannus generally uses: F0 00 4A 4F 48 41 53 XX F7 (hexadecimal). The ‘sys ex messages’ described below only indicates the value of the 8th byte (XX) and the output from which it is transmitted.

All stops off
The ‘all stops off’ sys ex code is 7F. This sys ex code is transmitted through the MIDI SEQ. output when the 0 piston is pressed for a longer time. When an ‘all stops off’ sys ex code is received, all stops on the instrument are switched off.

Pushbutton values
When a piston is pressed, a sys ex code is transmitted with the value of the piston that is pressed (for example PP = 00 P = 01) through the MIDI MOD. output.
These sys ex codes are only important when the Johannus sound module CSM 128 is connected to your instrument.

Other MIDI codes (transmitted)
Press the 0 piston to transmit the sys ex code, ‘all stops off’ and all volume settings through the MIDI SEQ. output.

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