



LiVE

JOHANNUS

2T / 3T

- USER MANUAL -

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1 SAFETY

1.1 Safety instructions



- To reduce the risk of fire or electric shock, do not expose the organ to liquids, rain or moisture.
- 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.
- 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 Global Organ Group B.V. The organ contains static-sensitive components. The warranty is void if the organ is opened by a non-authorized person.

NOTICE

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 a dry cloth.
7. Do not block any of the 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. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. 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.

1.2 Symbols on the organ

 **CAUTION**
RISK OF ELECTRIC SHOCK
DO NOT OPEN 

注意
感電の恐れがあります キャビネットをあけないでください

警告
为了避免触电, 请勿自行拆开机壳, 内部无用户自行维修的机件。请交乐兰公司指定维修点进行维修事宜。

경고 전기쇼크위험 - 열지 마시오.

ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

AVERTISSEMENT: POUR RÉDUIRE LE RISQUE D'INCENDIE OU DE CHOC ÉLECTRIQUE, N'EXPOSEZ PAS CET APPAREIL À LA PLUIE OU À L'HUMIDITÉ.



- Laite on liitettävä suojamaadoituskoskettimilla varus ettuun pistorasiaan.
- Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord
- Apparatet må tilkoples jordet stikkontakt.
- Apparaten skall anslutas till jordat uttag.

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 UNDESIRE OPERATION.

CAN ICES-3(B)/NMB-3(B)

仅适用于非热带气候条件下安全使用
仅适用于海拔2000m以下地区安全使用



Warning: The exclamation point 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.



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



Warning for static-sensitive components. To prevent damage to electronic parts from static electricity, be sure to discharge any static electricity from your own body before handling / touching the instrument.

1.3 Symbols in this manual



Caution, Warning or important information



Do not, or forbidden to do



Note

1.4 Transport, storage and cleaning

Pay attention to the following during transport and storage:

- Remove the music desk and the pedal board from the organ, before transport.
- Store in an area with 40% to 60% relative humidity. Do not store in area's e.g. baths, washrooms, on wet floors, expose to steam or smoke, salt, humid, rain, moisture, dusty or sandy locations.
- Minimum temperature within the storage area: 0°C
- **Do not expose the Organ to direct sunlight (UV)**, do not place it near devices that radiate heat, or otherwise subject to temperature extremes. Also, do not allow lighting devices that normally are used while their light source is very close to the Organ (such as a piano light), or powerful spotlights to shine upon the same area of the Organ for extended periods of time. Excessive heat can deform or discolor the Organ.
- **Do not allow rubber, vinyl or similar materials to remain on this Organ for long periods of time.** Such objects can discolor or otherwise harmfully affect the finish.
- **Do not paste stickers, decals, or the like to this instrument.** Peeling such matter off the instrument may damage and or discolor the exterior finish.
- Do not bend the power cord or place heavy objects on it.
- **Don't allow foreign objects or liquids to enter Organ; Never place containers with liquid on Organ;** Do not put anything that contains water on this Organ. Also, avoid the use of insecticides, perfumes, alcohol, nail polish, spray cans, etc., near the Organ. Swiftly wipe away any liquid that spills on the Organ using a dry, soft cloth. Never use benzene, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.
- **Unplug the power cord from the outlet before cleaning.** Before cleaning the Organ, turn it off and unplug the power cord from the outlet. To clean the Organ, use a dry, soft cloth; or one that is slightly dampened. Try to wipe the entire surface using an equal amount of strength, moving the cloth along with the grain of the wood. Rubbing too hard in the same area can damage the finish.
- **Do not open. Do not disassemble or modify by yourself**
- **Avoid climbing on top of the Organ, or placing heavy objects on it, nor on top of the keyboard nor pedal board. This can lead to dangerous situations** - such as tilting / tipping over - shearing / falling off of heavy objects. This can also lead to malfunctions - such as keys ceasing to produce sound.
- **Do not bend, drop, strong shock or vibration.**
- Never strike or apply strong pressure to the display.
- **Cautions when moving this Organ:** Since this product is very heavy, you must make sure that a sufficient number of people are on hand to help, so you can lift and move it safely, without causing strain. Make sure to have a firm grip, to protect yourself from injury and the instrument from damage. If you need to move the instrument, consult with your retailer, or Global Organ Group B.V.



1.5 Cautions and important notes

Indoor use only.

Connect the power cord to an outlet of the correct voltage. The Organ should be connected to a power supply only of the type described as marked under the keyboard deck of Organ.



Make sure that the power cord is grounded. Connect mains plug of this model to a mains socket outlet with a protective earthing connection.



Do not connect or disconnect the power cord with wet hands. Never handle the power cord or its plugs with wet hands when plugging into, or unplugging from, an outlet.



Turn off the Organ if an abnormality or malfunction occurs. Immediately turn the Organ off, remove the power cord from the outlet, and request servicing by your retailer, or Global Organ Group B.V., when:



- The power-supply cord or the plug has been damaged; or
- If smoke or unusual odor occurs; or
- Objects have fallen into, or liquid has been spilled onto the Organ; or
- The Organ has been exposed to rain (or otherwise has become wet); or
- The Organ does not appear to operate normally or exhibits a marked change in performance.

Do not use the organ overseas in foreign countries. Before using the Organ in a foreign country, consult with your retailer, or Global Organ Group B.V.



Presence of children. For their safety, adults should make sure that children under the age of 16 use the instrument properly and that the organ is in a stable position. An adult should always be present to supervise and guide any use by a child. Due to the weight of the instrument, it is recommended that it be securely fixed to the wall or floor by a professional to prevent tipping over. This is despite the fact that all safety precautions have been taken to avoid accidents.



Do not connect this Organ to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter or a motor (such as a refrigerator, washing machine, microwave oven, or air conditioner). Depending on the way in which the electrical appliance is used, power supply noise may cause this Organ to malfunction or may produce audible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this Organ and the electrical outlet.



Do not share an outlet with an unreasonable number of other devices. Do not force the Organ's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through - therefore always completely unwind an extension cord.



To prevent malfunction and equipment failure, always make sure to turn off the power on all your equipment before you make any connections.



Although the LCD and LEDs are switched off when the Organ is turned off, this does not mean that the Organ has been completely disconnected from the source of power. If you need to turn off the power completely, first turn off the Organ's switch, then unplug the power cord from the power outlet. For this reason, the outlet into which you choose to connect the power cord's plug should be one that is within easy reach and readily accessible.



If there is a possibility of lightning strike, disconnect the power cord from the outlet. Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet.



Periodically clean the power cord's plug. At regular intervals, you should unplug the power plug and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the Organ is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire.



The settings you were editing will be lost when the Organ is turned off. If you want to keep your settings, you must save your settings before turning the Organ off.



Place in a well ventilated location. The Organ should be located so that its location or position does not interfere with its proper ventilation.



Manage cables for safety. Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.



Grasp the plug when connecting or disconnecting the power cord. Always grasp only the plug on the power-supply cord when plugging into, or unplugging from, an outlet.



Precautions concerning use of bench. When using the bench, please observe the following points:

- Do not allow two or more persons to sit on the bench.
- Do not adjust the height while sitting on the bench.



Do not remove the speaker grille and speaker. Do not remove the speaker grille and speaker by any means. Speaker not user replaceable. Shock hazardous voltages and currents are present inside the enclosure.



Disconnecting power from AC mains. To completely disconnect this instrument from the AC mains, disconnect the power supply cord plug from the AC receptacle.



The power supply cord and/or main power switch must be accessible. The mains plug of the power supply cord shall remain readily accessible. Or, the power switch must be accessible. The main power switch is the main power disconnect device for this Organ. Therefore, the power switch shall be readily accessible.



Do not use internal connections. Do not connect, do not use internal connections for optional external speakers by yourself. Refer all servicing to your retailer, or Global Organ Group B.V.



1.6 Placement

- Using the Organ near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this Organ; or move it farther away from the source of interference.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this Organ. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this Organ, or switch them off.
- **Do not expose the Organ to direct sunlight**, place it near devices that radiate heat, or otherwise subject it to temperature extremes. Also, do not allow lighting devices that normally are used while their light source is very close to the Organ (such as a piano light), or powerful spotlights to shine upon the same area of the Organ for extended periods of time. Excessive heat can deform or discolor the Organ.
- **Do not allow rubber, vinyl, or similar materials to remain on this Organ for long periods of time.** Such objects can discolor or otherwise harmfully affect the finish.
- **Do not allow objects to remain on top of the keyboard or pedal board.** This can be the cause of malfunction, such as keys ceasing to produce sound.
- **Do not paste stickers, decals, or the like to this instrument.** Peeling such matter off the instrument may damage the exterior finish.
- **Do not put anything that contains water on this Organ.** Also, avoid the use of insecticides, perfumes, alcohol, nail polish, spray cans, etc., near the Organ. Swiftly wipe away any liquid that spills on the Organ using a dry, soft cloth.
- Due to the weight of the instrument, it is recommended to attach the instrument securely to the wall or floor by a professional, to avoid tipping. This, although all safety measures have been taken to avoid any accident.







1.7 Repairs and data

Please be aware that all data contained in the Organ's memory may be lost when the Organ is sent for repairs. Important data should always be stored on USB stick (see ['Datadump' chapter 5.5.2](#)), or written down on paper (when possible).



During repairs, due care is taken to avoid the loss of data. However, in certain cases (such as when circuitry related to memory itself is out of order), we regret that it may not be possible to restore the data, and Global Organ Group B.V. assumes no liability concerning such loss of data. Refer all servicing to your retailer, or Global Organ Group B.V.

1.8 Additional precautions

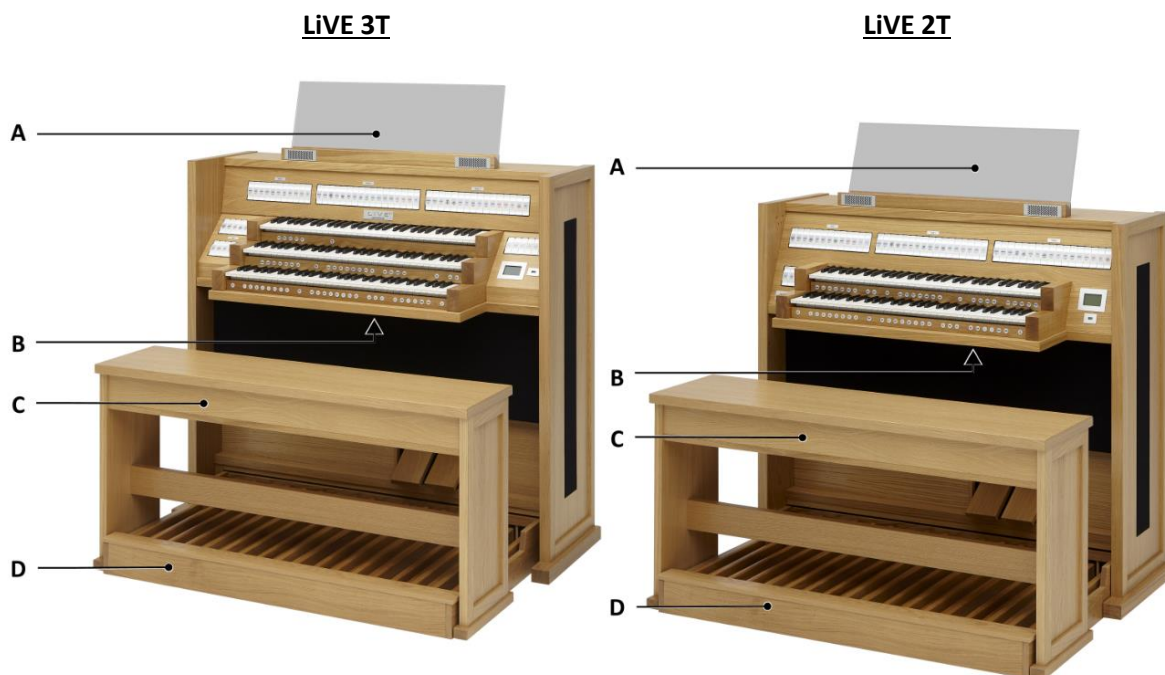
- Please be aware that the contents of memory can be irretrievably lost as a result of a malfunction, or the improper operation of the Organ. To protect yourself against the risk of losing important data, we recommend that you periodically write down important setting data on (several) USB-sticks, see chapter [‘Datadump’ 5.5.2](#), or on paper (when possible). 
- Unfortunately, it may be impossible to restore the contents of data that was stored in the Organ’s memory once it has been lost. Global Organ Group B.V. assumes no liability concerning such loss of data. 
- Use a reasonable amount of care when using the Organ’s buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions. 
- Never strike or apply strong pressure to the display.
- A small amount of heat will radiate from the Organ during normal operation.
- To prevent possible hearing damage, do not listen at high volume levels for long periods. This Organ, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the Organ, and consult an audiologist. 
- To avoid disturbing others nearby, try to keep the Organ’s volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you.
- When you need to transport the Organ, pack it in shock-absorbent material. Transporting the Organ without doing so can cause it to become scratched or damaged, and could lead to malfunction.
- Do not apply undue force to the music stand while it is in use.
- Some connection cables contain resistors. Do not use cables that incorporate resistors for connecting to this Organ. The use of such cables can cause the sound level to be extremely low, or impossible to hear. For information on cable specifications, contact the manufacturer of the cable.
- Due to the structural design of this instrument, small pets or other animals could end up getting trapped inside it. If such a situation is encountered, you must immediately turn off the Organ and disconnect the power cord from the outlet. You should then consult with the retailer from whom the instrument was purchased, or contact Global Organ Group B.V.
- The explanations in this manual include illustrations that depict what should typically be shown by the display.

Note, however, that your Organ may incorporate a newer, enhanced version of the system (e.g., includes newer sounds), so what you actually see in the display may not always match what appears in the manual.

2 INSTALLATION

2.1 Installation and connection

2.1.1 Installation organ



1. Position the organ on a stable, horizontal surface.
2. Lean the organ slightly backward.
3. Slide the pedal board (D) against the organ.
2. Set the organ upright.
3. Install the music desk (A) on the top of the organ. See § 2.1.2. Installation music desk.
4. Place the organ bench (C) over the pedal board (D).
5. Make sure the voltage of the organ matches the voltage of the main. See the serial plate (A).
6. Connect the organ to a grounded power socket.
7. Perform a pedal contact calibration. See § 2.1.3.

2.1.2 Installation music desk

1. Remove the protection foils from both sides of the Plexiglas of the music desk.
2. Turn the four supplied screws countersunk into the pre-drilled holes of the Plexiglas by hand.
3. Place the music desk at the right position, with the screw points into the pre-drilled holes of the music desk.
4. Firmly tighten the screws with a screw driver until the music desk is securely fastened.

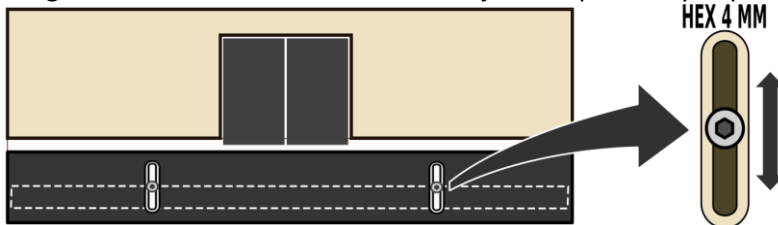


The use of an electric screw driver is not recommended.

2.1.3 Pedal contact calibration

Perform a pedal contact calibration after installing or moving an organ.
First activate one or more pedal stops, make sure the organ produces sound.

1. Check if pedal board is tightly pressed against the organ and the organ stands on a stable, horizontal surface. Check if each pedal key produces sound at the desired key depth. Follow steps below when the pedal board appears un-even or partially not functioning:
2. Remove the organ bench and slide the pedal board away from the the organ. It may be necessary to lean the organ slightly backwards to do this.
3. Now the pedal position set screws on both sides of the organ are visible, see image below. These set screws are to adjust the pedal key depth.



- Loosen the set screws a little to adjust the positions a little upwards, or downwards. This moves the magnetically sensitive pedal contact position relative to the pedal key magnets of the pedal board. Tighten the set screws at the new pedal key depth position – and remember the set positions.
4. Lean the organ slightly backward to slide the pedal board against the organ and set the organ upright afterwards.
 5. If you want, place the organ bench over the pedal board.
 6. Repeat step 1 to check the difference and repeat steps 2 to 6 when further improvement is needed.

2.2 Switch on

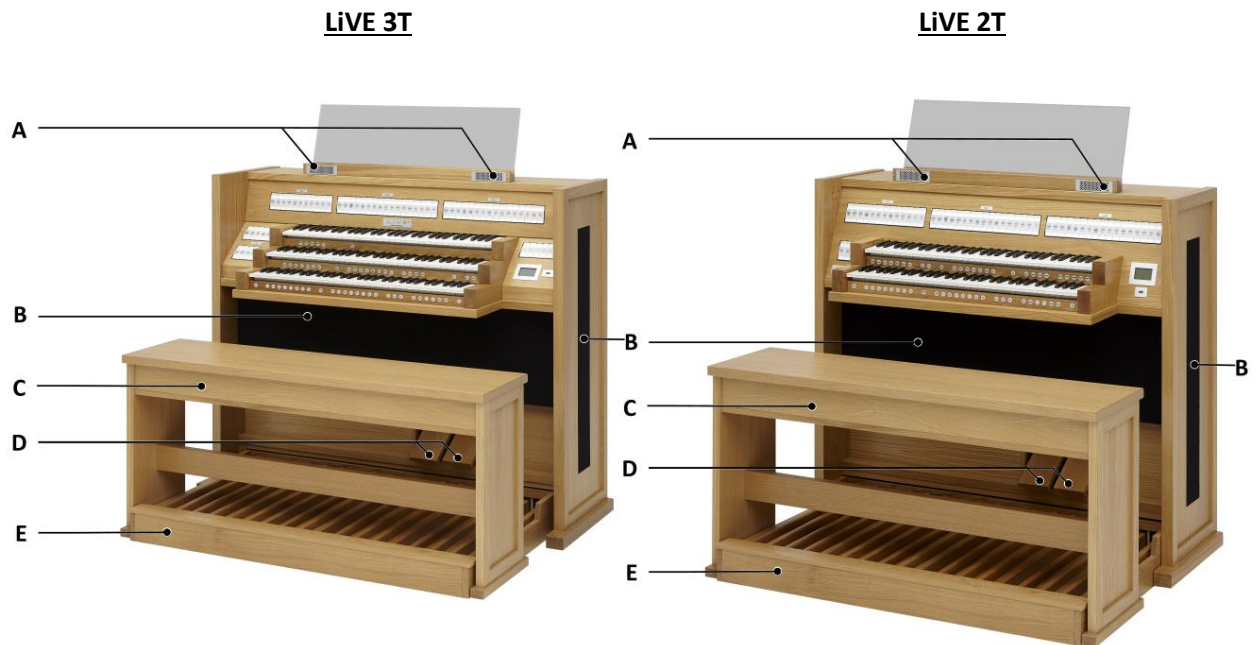
Switch on the organ with the on/off switch at the right, underneath the manuals. Wait several seconds. Starting the control functions and the settings will take some time.

The lights of standard set functions light up. The settings appear on the display.

Utrecht, Bätz Location Organ Console	
Mem : 1	II
Trans : 0	
Tune : 431Hz	
Temp : Original	
Cresc : off	

3 DESCRIPTION OF THE ORGAN

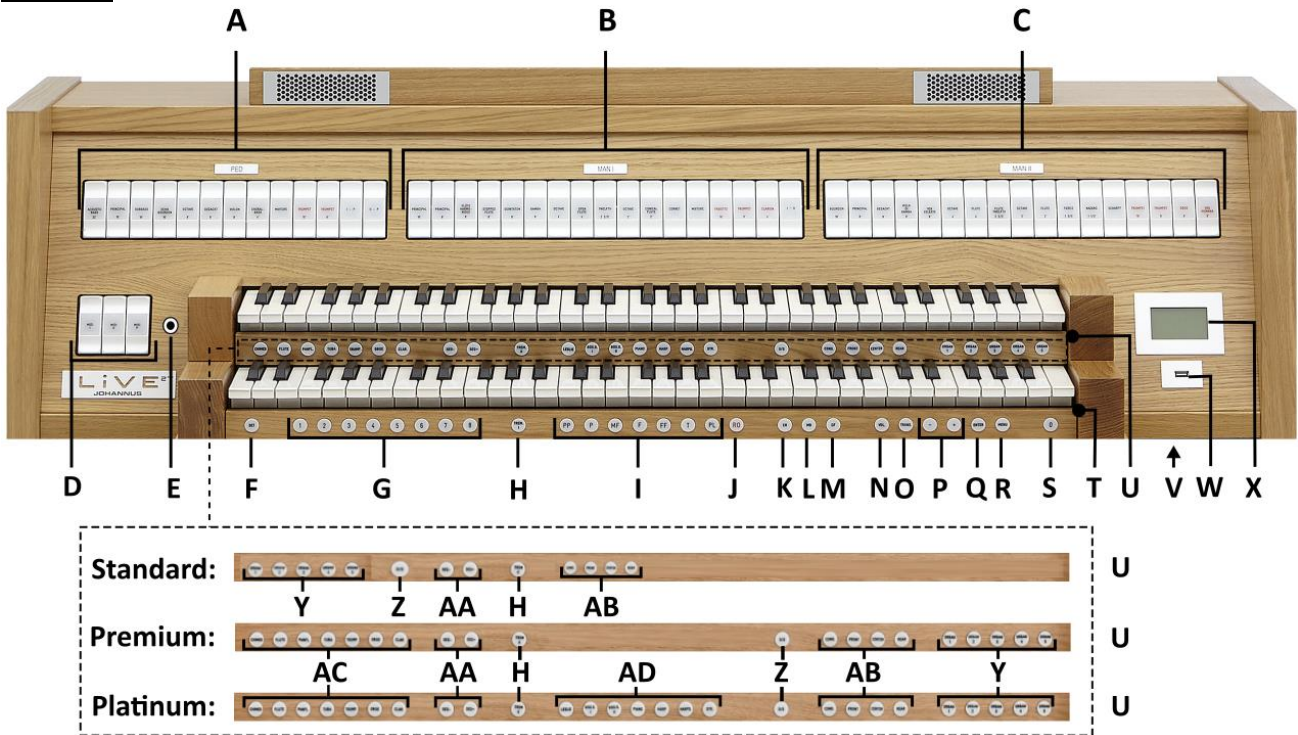
3.1 Overview of the components



- A** *Near field* soundbar
- B** Loudspeakers
- C** Organ bench
- D** Programmable expression pedals
- E** Pedal board

3.2 Overview of controls

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- | | | | |
|----------|-----------------------------------|-----------|------------------------------------|
| A | Pedal stops and pedal couplers | P | - and + pistons |
| B | Manual I stops and manual coupler | Q | ENTER |
| C | Manual II stops | R | MENU |
| D | MIDI stops | S | 0: Cancel |
| E | Headphones connection | T | Manual I |
| F | SET | U | Manual II |
| G | Capture memory locations | V | On/Off switch (mains power switch) |
| H | Tremulant (for each work) | W | USB port |
| I | Pre-programmed memory locations | X | Display |
| J | RO: Reeds Off | Y | Sample banks |
| K | CR: Crescendo | Z | S/S: All Swells to Swell |
| L | MB: Manual Bass | AA | SEQ- and SEQ+ pistons |
| M | CF: Cantus Firmus | AB | Listening positions |
| N | VOL.: General volume | AC | Option: Solo voices* |
| O | TRANS.: Transposer | AD | Option: Orchestral voices* |

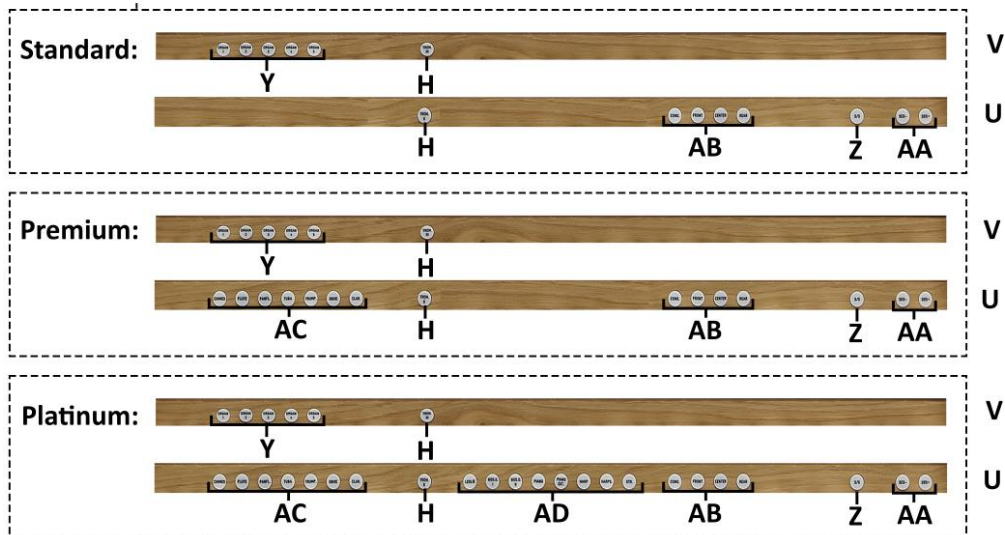
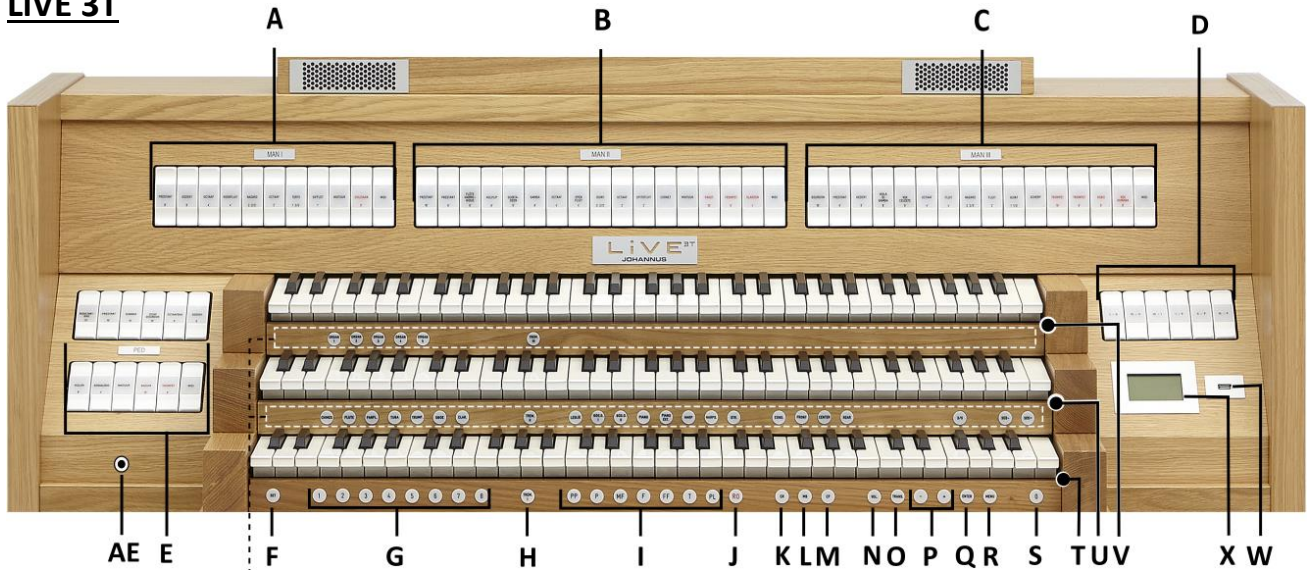
On/Off switch (mains power switch) is placed under the keyboards, right hand side.

- *Standard* model is without options (no pistons at point AC, AD).

- *Premium* model has option pistons for 'Solo voices' (point AC).

- *Platinum* model has both option pistons for 'Orchestral voices' (point AD) and 'Solo voices' (point AC).

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- | | | | |
|----------|------------------------------------|-----------|----------------------------|
| A | Manual I stops and midi | P | - and + pistons |
| B | Manual II stops and midi | Q | ENTER |
| C | Manual III stops and midi | R | MENU |
| D | Pedal couplers and manual couplers | S | 0: Cancel |
| E | Pedal and midi | T | Manual I |
| F | SET | U | Manual II |
| G | Capture memory locations | V | Manual III |
| H | Tremulant (for each work) | W | USB port |
| I | Pre-programmed memory locations | X | Display |
| J | RO: Reeds Off | Y | Sample banks |
| K | CR: Crescendo | Z | S/S: All Swells to Swell |
| L | MB: Manual Bass | AA | SEQ- and SEQ+ pistons |
| M | CF: Cantus Firmus | AB | Listening positions |
| N | VOL.: General volume | AC | Option: Solo voices* |
| O | TRANS.: Transposer | AD | Option: Orchestral voices* |
| | | AE | Headphones connection |

On/Off switch (mains power switch) is placed under the keyboards, right hand side.

- *Standard* model is without options (no pistons at point AC, AD).

- *Premium* model has option pistons for 'Solo voices' (point AC).

- *Platinum* model has both option pistons for 'Orchestral voices' (point AD) and 'Solo voices' (point AC).

3.3 Connect and switch on the peripherals

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

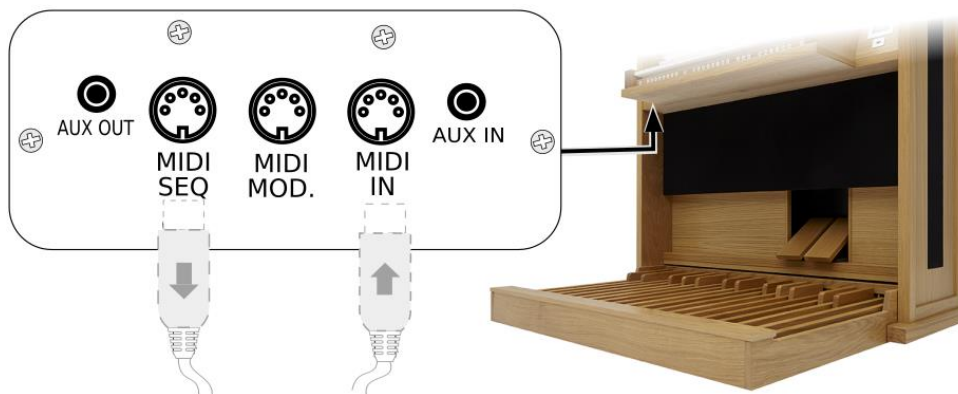


Follow the instructions provided in the documentation for the peripheral.

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

On the left hand side, under the manuals, you will find the following external connections:



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 7 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 can be found on the front side of the console:

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



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

USB port: This connection is suited for the connection of an USB stick with a storage size up to 32GB with a (pre-formatted) **FAT32 file system**, for example for uploading sample sets of new pipe organs. Location of the connection: see §3.2 Overview of Controls, point W.

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.



The volume can only be adjusted if the VOL.-piston is illuminated.



When the volume change needs to be saved, press the ENTER-piston while the VOL.-piston is illuminated.

4.2 Expression pedals

In the standard version the organ has two expression pedals. One is configured as a swell pedal for Manual II, and one is configured as a crescendo pedal. With use of the Johannus Menu, the function of the expression pedals can be changed, see § 5.5.3 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 (2T/3T) 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

Sample set(s) are stored on one or more USB sticks, containing a professional & authentic set of recordings from an actual pipe organ. Just as you can on the Johannus LiVE III, you can upload sample sets for dozens of international pipe organs on the Johannus LiVE 2T/3T, but special sample sets have been developed for the Johannus LiVE 2T/3T.

These sample sets contain a large number of unique stops for these organs. A number of selected stops from the very large Johannus sample database have also been added. The result is that every sample set for the Johannus LiVE 2T contains exactly 44 stops, the Johannus 3T contains exactly 52 stops, most of which come from the original pipe organ, the rest being supplementary stops in the spirit of and complementary to the character of the pipe organ concerned.

The LiVE 2T/3T organ has enough capacity to store five complete pipe organs. Practically speaking that means that you can copy five USB sticks containing full recordings into the Johannus LiVE's memory. With the pistons ORGAN 1 to ORGAN 5 you can easily switch between pipe organs:

- Press the ORGAN piston once to see the overview of available sample sets.
- Press the ORGAN piston twice to switch to another pipe organ that is saved at that location. See § 3.2 Overview of Controls, point Y.

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 an USB stick. See § 5.4 Upload Organ.

Ordering samples

Upon purchasing a Johannus LiVE 2T/3T, you receive two sample sets as standard. New pipe organ recordings can be ordered individually from your dealer.



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

4.4 Listening positions

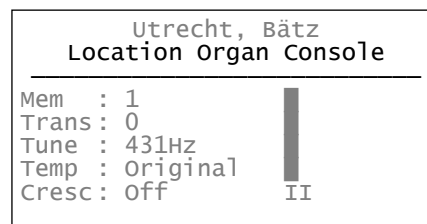
The Sampled Listening Positions™ is a function which works with the LIVEreverb II™ to position the organ sound in the church. It lets you choose where to sit in the church to enjoy the sound of the organ.

The Johannus LiVE 2T/3T 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 these 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.

One can choose one of four locations:

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

The pistons CONS., FRONT, CENTER and REAR allow you to choose where to listen to enjoy the sound of your organ. The chosen listening position appears on the display. See §3.2 Overview of Controls, point AB.



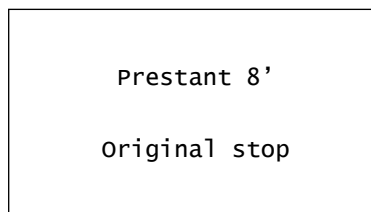
4.5 Stops

The stops are activated by stop switches, pre-programmed memory locations, capture memory locations or the crescendo pedal. The light in the stop switch illuminates when the associated stop is active.

4.5.1 Dynamic stoplist

The Johannus LiVE's are a high-quality digital organ equipped with a standard stoplist with 44 stops for LiVE 2T and 52 stops for LiVE 3T. The fixed stoplist was developed based on a sophisticated cross-section made by Johannus of pipe organs around the world. To put it simply: we analyzed the stoplists of dozens of international pipe organs and noted which stops occurred most frequently among these organs. We subsequently gave these stops a place in the standard stoplist of the Johannus LiVE 2T/3T. The names of these stops are printed on the illuminated stop tabs.

However, there is something extraordinary about this stoplist. Although it is physically static, it is dynamic in its use – the 44 (LiVE 2T), or 52 (LiVE 3T) stop tabs represent dynamic stoplists, which change according to the pipe organ selected. For example, the Principal 8' stop tab can represent both the Diapason 8' of the Cavallé-Coll organ in the Notre-Dame in Paris, and the Principal 8' of the Bätz organ in the Dom Church in Utrecht.



If you tap on any stop tab, then the name of the tab appears in the display as it appears on the original pipe organ that you currently have selected.

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 of the Pedal.

Manual I: Activates the stops of Manual I.

Manual II: Activates the stops of Manual II.

Manual III: Activates the stops of Manual III (*only for LiVE 3T*).

4.5.2 Solo- and orchestral voices (optional)

If the organ is equipped with the optional Premium or Platinum Voice Package a number of solo- and orchestral voices are available.

These solo- and orchestral voices are activated by thumb pistons on the piston rail between the manuals. The lamp in the thumb piston illuminates when the associated voice is active. See chapter 6 VOICE PACKAGES for more information on solo- and orchestral voices.

Solo- and orchestral voices are standardly playable from a factory defined manual. This can be changed via Quick Access, see § 4.11.2 Keyboard assignment orchestrals, and via the Johannus Menu, see § 5.5.7 Orchestrals.

4.6 Couplers

Manual coupler:

MANUAL II – MANUAL I (II-I):

Couples all keys of Manual II to Manual I.

Only for LiVE 3T:

MANUAL III – MANUAL II (III-II):

Couples all keys of Manual III to Manual II.

MANUAL III – MANUAL I (III-I):

Couples all keys of Manual III to Manual I.

Pedal couplers:

MANUAL I – PEDAL (I-P):

Couples all keys of Manual I to the Pedal.

MANUAL II – PEDAL (II-P):

Couples all keys of Manual II to the Pedal.

Only for LiVE 3T:

MANUAL III – PEDAL (III-P):

Couples all keys of Manual III to the Pedal.

The location of the stops per division vary from sample set, therefore the couplers are indicated by roman numerals. The couplers are located next to the stop switches. See § 3.2 Overview of Controls, points A and B.

4.7 Accessories

Sequence - and + (SEQ-, SEQ+):

Sequence is a function to sequential selecting capture memory locations. See also § 4.9 Capture memory.

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 1-8.
3. When using SEQ+ on position 8, it switches to the next memory bank, position 1.

All Swells to Swell (S/S):

All Swells to Swell transforms the expression pedal for Manual II, 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 II, the S/S-piston cannot be activated.

Reeds Off (RO):

Reeds Off is a function to switch off all reed stops simultaneously. As long as this piston is lighted, 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.

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 I. Only the lowest key that is played on Manual I is coupled from the Pedal to Manual I.

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 II monophonic to Manual I. Only the highest key that is played on Manual I is coupled from Manual II to Manual I.

With use of a solo registration on Manual II in this way a solo is heard while playing only on Manual I.

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 II-I 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 while the TRANS.-piston is illuminated.

Utrecht, Bätz	
Location Organ Console	
Mem : 1	
Trans : -1	II
Tune : 406,8Hz	
Temp : Original	
Cresc : Off	

Cancel function (0):

The 0-piston cancels stops in two ways:

1. A short press on the 0-piston: only the last change is cancelled.
2. A long press on 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. Select the desired stops.
2. Press the SET-piston. Hold down this piston (to enable the storage function).
3. Press the desired pre-programmed memory location (PP-T or PL).
4. 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 capture memory locations are not pre-programmed and can be programmed by the musician. The capture memory has (50 levels times 8 pistons locations, equals) 400 locations per sample set. Thus, the total amount of free programmable capture memory places in the LiVE 2T/3T is (400 locations times 5 Sample banks, equals) 2000.

Utrecht, Bätz Location Organ Console	
Mem : 1	II
Trans : -1	
Tune : 406,8Hz	
Temp : Original	
Cresc : Off	

Programming a capture memory location:



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

1. Select the desired stops (for a selected Sample bank: ORGAN 1 - 5).
2. Use the - and + pistons to select the desired capture memory level (1-50) on the display.
3. Press the SET-piston. Hold down this piston (to enable the storage function).
4. Press the desired memory location (1-8).
5. Release the SET-piston.

Calling up a capture memory location:

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



By holding down the - and + pistons for longer, the capture memory steps (1-50) can be scrolled more quickly.



With the SEQ- and SEQ+ pistons a sequential step-by-step, previous or next, memory locations can be selected.

The illuminated memory location piston together with the capture 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.

Utrecht, Bätz Location Organ Console	
Mem : 1	II
Trans : -1	
Tune : 406,8Hz	
Temp : Original	
Cresc : off	II

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

Utrecht, Bätz Location Organ Console	
Mem : 1	II
Trans : -1	
Tune : 406,8Hz	
Temp : Original	
Cresc : 0	II

Crescendo pedal as additional swell pedal

The crescendo pedal can also be configured as a swell pedal see § 5.5.3 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.

4.11.2 Keyboard assignment orchestrals



This function is only available if the organ is equipped with the optional Premium or Platinum Voice Package.

Through the use of Quick Access it is possible to assign a solo- or orchestral voice directly to a manual or the pedal.

1. Press the ENTER-piston simultaneously with a piston of a solo- or orchestral voice, for example Panflute.
2. The current assignment appears on the display.
3. Press a key of the manual or the pedal on which the solo- or orchestral voice has to be assigned.
4. The solo- or orchestral voice is now playable from the selected manual or pedal.

Panflute:
Assigned to: I

Select keyboard or
Use ENTER or MENU

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.
- Navigate in the menu with the - and + pistons.
- Confirm a choice by pressing the ENTER-piston.
- Cancel or step back in the menu by pressing 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	§ 5.5
➤ Crescendo	
➤ Datadump	
➤ Expression Pedals	
➤ Intonation	
➤ Key Volumes	
➤ MIDI Config	
➤ Orchestrals	
➤ Reset	
➤ Sample Set Version	
System Settings	§ 5.6
➤ Aux In Level	
➤ Default Ambiance	
➤ Default Organ	
➤ Headphones/Aux Out	
➤ Keyboard Mode	
➤ Reset	
➤ Rear Speakers*	
➤ Side Speakers Level	
➤ Tone Control	
➤ Version	

Note: Rear Speaker is optional

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 always be read on the display behind `Tune: .`

```
Fine Tune:
0 cents

Frequency: 431.0 Hz
Use -/+, ENTER or MENU
```

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 Fine Tune setting appears in cents on the display.
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. The actual Fine Tune setting appears in cents on the display behind the current transposer setting (`Trans: ../.c`).

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 function Custom Prog. 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 I* (for LiVE 2T), or *Manual II* (for LiVE 3T) 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 current 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 I. 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 three times to exit the Johannus Menu.



Using the reset procedure `Cust. Temperament def.` the Custom Temperament can be reset to equal temperament. See § 5.5.8 Reset.

5.4 Upload Organ

With the function Upload Organ you can load sample sets (recordings of pipe organs) from a prepared USB stick, into the Johannus LiVE's memory bank. The major advantage of storing a full recording is that you can switch effortlessly between your selected pipe organs, with pistons ORGAN 1 - 5.

```
Upload Organ:  
> 1: Cavaillé-Coll, Paris  
  2: Utrecht, Bätz  
  3: Empty  
  4: Empty  
  5: Empty  
  
Use -/+, ENTER or MENU
```

If you've saved more than five sample sets to organ memory, you can easily reload a new one from USB by overwriting one of the existing sample sets. If you want to return to your original selection, simply reload the sample set you overwritten into memory.

1. Insert the (prepared) USB stick, with sample set(s), in the USB port of the organ. Use USB sticks with storage space between 4 GB and 32 GB, (pre) formatted with FAT32 file system. Note that other file format systems, such as "NTFS", or "ExFAT" will not work. Recommended is to use the USB key as delivered with the organ, or which you ordered later.
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 correspond with the ORGAN 1 till ORGAN 5-pistons.

-
5. Use the – and + pistons to select the desired memory slot location:
 - Select the option `Empty` if 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. – The existing intonation data will be lost, insofar as it deviates from the factory settings. To secure this intonation data, see § 5.5.4 “Intonation”.
 6. Press the ENTER-piston to confirm. A message will appear on the screen that an USB stick is being searched. Please wait.
 7. A message appears on the display that the sample set is being uploaded. This can take 15-20 minutes. Do not turn of the organ in the meanwhile.
 8. As soon as the upload is 100% , you will automatically return to the main screen. You can play the new sample set of the pipe organ directly.

5.5 Organ Settings

With the Organ Settings menu you can change the settings per sample set (ORGAN 1 – 5). The Organ Settings menu consists of the following sub-functions:

- Crescendo § 5.5.1
- Datadump § 5.5.2
- Expression Pedals § 5.5.3
- Intonation § 5.5.4
- Key Volumes § 5.5.5
- MIDI Config § 5.5.6
- Orchestrals § 5.5.7
- Reset § 5.5.8
- Sample Set Version § 5.5.9

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 Johannis Menu.

5.5.2 Datadump

The Datadump function saves several settings from the organ to an USB stick up to a maximum storage space of 32 GB – is correctly connected and is pre-formatted with the **FAT32 file system**.

The settings that are saved 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 and can be received with the optional Johannus Intonat 7 software.

a. Saving 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 Datadump menu appears on the display.
6. Use the - and + pistons to select the `Save datadump` function.
7. Make sure the desired USB-stick, up to a maximum storage size of 32 GB, is properly inserted in the USB port and is pre-formatted with the FAT32 file system.
8. Press the ENTER-piston. When data is being sent, `Busy...` appears on the display.



It is possible that there is already a file present. You will be asked whether the file should be overwritten. Use the - and + pistons to select the function, then press the ENTER-piston to confirm.



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

9. If the data dump is complete, the Datadump menu appears on the display.
10. Press the MENU-piston three times to exit the Johannus Menu.

b. Uploading data to the organ



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

1. Follow the steps 1 to 5 as described above at **a. Saving data from the organ**.
2. Use the - and + pistons to select the `Load datadump` function.
3. Make sure the desired USB-stick is inserted properly.
4. Press the ENTER-piston. When data is being sent, `Busy...` appears on the display.
5. After the text `Uploading successful` and `Reboot the organ` turn the organ off and on again.

5.5.3 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 increasing or decreasing the amount of stops. See also § 4.10 Crescendo Pedal.



- a. An expression pedal can be configured 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 an expression pedal and a crescendo pedal at the same time.

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 `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 of which the function must be changed.
7. Press the ENTER-piston. The available possibilities appear on the display. Behind the possibilities the current setting is marked with a 'V'.
8. Use the - and + pistons to select the desired setting.
 - I: Expression pedal for Manual I
 - II: Expression pedal for Manual II
 - 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.

5.5.4 Intonation

The Intonation function saves voice settings from the organ to an USB stick, up to a maximum storage space of 32GB, pre-formatted with FAT32 file system. With this function you can also load voice setting from USB stick to the organ.

a. Saving Intonation 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 `Intonation` function on the display.
5. Press the ENTER-piston. The Intonation menu appears on the display.
6. Use the - and + pistons to select the `Save voicing` function.
7. Make sure the desired USB-stick, is inserted properly. It is recommended to save the intonation data with written description (on the stick itself):
 - to a separate USB-stick, with description of the sample set & version, or
 - to save the data to the same original sample set stick that it belongs to. –This will then be placed on the USB stick as a second intonation file, next to the factory intonation data.
8. Press the ENTER-piston. When data is being sent, `Busy...` appears on the display.



It is possible that there is already a file present. You will be asked whether or not the file should be overwritten. Use the - and + pistons to select the function, then press the ENTER-piston to confirm.



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

9. When the data dump is complete, the Intonation menu will appear on the display. Note: Repeat (steps 5 – 9) for each ORGAN 1 – 5, if necessary.
10. Press the MENU-piston three times to exit the Johannus Menu.

b. Uploading intonation data to the organ



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

1. Follow the steps 1 to 5 as above as described at **a. Saving data from the organ**.
2. Use the - and + pistons to select the `Load voicing` function.
3. Make sure the desired USB-stick, is inserted properly.
4. Press the ENTER-piston. When data is being sent, the message `Busy...` appears on the display.
5. When the data dump is complete, the Intonation menu will appear on the display.
6. Press the MENU-piston three times to exit the Johannus Menu.

5.5.5 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 per 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.
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 message `Save changes?` appears on the display. Use the - and + pistons to select `No` or `Yes`.
12. Press the ENTER-piston to confirm.
13. If you have chosen `No`, you automatically return to the `Adjust` submenu. If you have chosen `Yes` the message `Programming Key Volume` appears on the display. After several seconds you will return to the `Key Volume` menu.
14. 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. Press the MENU-piston.
2. Switch off all stops.
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.
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.
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.

5.5.6 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.

5.5.7 Orchestrals



The 'Orchestral menu' is only available if the organ is equipped with the optional *Premium* or *Platinum* Voice Package, see § 6 Voice Packages.

With the optional *Premium* or *Platinum* Voice Package the organ is enlarged with a number of solo- and/or orchestral voices.

Solo- and orchestral voices are standardly playable from a factory defined manual. This can be changed via the Johannus Menu.

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 `Orchestrals` function on the display.
5. Press the ENTER-piston. The solo- and orchestral voices appear on the display.
6. Use the - and + pistons to select the solo- or orchestral voice from which the assignment has to be changed.
7. Press the ENTER piston. The current assignment of the solo- or orchestral voice appears on the display.
8. Press a key on the manual or pedal on which the solo- or orchestral voice has to be assigned. The new assignment appears on the display.
9. Press the MENU piston three times to exit the Johannus Menu.

Chimes :
Assigned to : I

Select keyboard or
Use ENTER or MENU



Assigning a solo- or orchestral voice to a manual or pedal can also be done with the Quick Access function. See § 4.11.2 Keyboard assignment orchestrals.

5.5.8 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:

<code>Crescendo default:</code>	Resets to factory settings of the 20 steps of the crescendo pedal.
<code>Cust. Temperament def.:</code>	Resets the custom programmable temperament to equal temperament.
<code>Expression Pedals def.:</code>	Resets to factory settings of the expression pedals.
<code>Intonation default:</code>	Resets to factory settings of the intonation.
<code>Memory default:</code>	Clears the entire capture memory.
<code>MIDI default:</code>	Resets to factory settings of the MIDI stops.
<code>Preset default:</code>	Resets to factory settings of the pre programmed memory locations.

The following reset procedure is only available if the organ is equipped with the Premium or Platinum Voice Package:

Orchestrals default: Resets to factory setting of the solo- and orchestral voices.

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.

5.5.9 Sample Set Version

The Sample Set Version function shows the date of the sample set of the activated organ (ORGAN 1 - 5).

Sample Set Version:
Utrecht, Bätz
Version 1.0

Use ENTER or MENU

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 `Sample Set Version` function on the display.
5. Press the ENTER-piston. The data of the sample set that is currently loaded in the organ appears on the display.
6. 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:

- Aux In Level § 5.6.1
- Default Ambiance § 5.6.2
- Default Organ § 5.6.3
- Headphones / Aux Out § 5.6.4
- Keyboard Mode § 5.6.5
- Reset § 5.6.6
- Rear Speakers § 5.6.7
- Side Speakers Level § 5.6.8
- Tone Control § 5.6.9
- Version § 5.6.10

5.6.1 Aux In Level

The System Setting 'Aux In Level' function sets the Auxiliary Input Level at the desired level at the startup of the organ. When the Auxiliary input is not in use,

the preferred setting is 0%. Older models may not have this 'Aux In Level' function.

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 `Aux In Level` setting.
5. Press the ENTER-piston.
6. Use the – and + pistons to select the desired Auxiliary input 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.

5.6.2 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.

5.6.3 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 Organ` 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.

5.6.4 Headphones / Aux Out

System Setting Headphones / Aux Out determines the volume level of the headphones / 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 `Headphones / 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 of which you would like to change the setting.
 - I: Manual I
 - II: Manual II
 - III: Manual III (*for LiVE 3T only*)
7. Press the ENTER-piston. The available options appear on the display, with a pointer for the selected setting.
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. For organ stops this means that the setting for 'low' is being used.
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 setting to the factory setting.

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:
 - Keyboard Mode default: Resets to 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 Rear Speakers (optional)

Optional: The System Settings function Rear Speakers determines the volume level (On / Off) of the external Rear Surround Loudspeakers at startup of the organ display.

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 `Rear Speakers` function on the display.
5. Press the ENTER-piston. The current settings for the Rear Speakers appear on the display.
6. Use the - and the + pistons to select the function.



When Rear Speakers are not used, or not connected, the best sound quality can be obtained by `Rear Speakers 0% (Off)`.



Do connect, do not use internal connections for external speakers by yourself. Refer all servicing to your retailer, or Global Organ Group B.V.

7. Press the ENTER-piston. The pointer jumps to the set level.
8. Use the - and + pistons to select the desired selection.
9. Press the ENTER-piston to confirm and to return to the Rear Speakers menu.
10. Press the MENU piston three times to exit the Johannus Menu.

5.6.8 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 the side of which 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.

5.6.9 Tone Control

The function Tone Control allows you to set the bass and brilliance of the organ in steps of 0,5 decibel from -6 dB to +6 dB. The bass and brilliance level appear on the display.

11. Press the MENU piston.
12. Use the - and + pistons to select the `System Settings` function on the display.
13. Press the ENTER-piston. A list with available System Settings appears on the display.
14. Use the - and + pistons to select the `Tone Control` function on the display.
15. Press the ENTER-piston. The current settings for the Bass and Brilliance speaker appear on the display.
Use the - and + pistons to select the function that has to be changed.
`Bass:` behind it is the current bass level.
`Brilliance:` behind it is the current brilliance level.
16. Use the - and + pistons to select the function of which the level has to be changed.
17. Press the ENTER-piston. The pointer jumps to the set level.
18. Use the - and + pistons to select the desired level (-6 dB to + 6dB)
19. Press the ENTER-piston to confirm and to return to the Tone Control menu.
20. Repeat steps 6 to 9 to change the setting of function.
21. Press the MENU piston three times to exit the Johannus Menu.

```
Tone Control:
> Bass:      0,0 dB
  Brilliance:      0,0 dB

Use -/+, ENTER or MENU
```

5.6.10 Version

The Version function shows the model type (2T, or 3T), software version number, options (Platinum, Premium), as well as the organ's order number. In this menu you can also upload a new firmware version from an USB stick.

```
Actual version:
Live 3T Platinum
V1.35
Hw GOG:v3
Reverb 2.0.1 Mixer 1.8.2
Order number: 45689

Use ENTER or MENU
```

a. Actual version

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 Version menu appears on the display.
6. Use the - and + pistons to select the `Actual version` function on the display.
7. Press the ENTER-piston. The data of the software of the organ appears on the display.
8. Press the MENU piston four times to exit the Johannus Menu.

b. Load new version



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

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 Version menu appears on the display.
6. Use the - and + pistons to select the `Update organ` function on the display.
7. Make sure the desired USB-stick is inserted properly.
8. Press the ENTER-piston. On the display appears the question whether the current version may be overwritten by another.
9. Use the - and + pistons to select `No` or `Yes`.
10. Press the ENTER-piston. When data is being sent, `Busy...` appears on the display.
11. When the update is complete, the organ will reboot.

6 VOICE PACKAGES

If the organ is equipped with the optional *Premium* or *Platinum* Voice Package, a number of solo- and/or orchestral voices are available.

6.1 Premium Voice Package

The *Premium* Voice Package consists of the following solo voices:

- Chimes
- Flute
- Panflute
- Tuba
- Trumpet
- Oboe
- Clarinet

For these voices, using the CF-function, the voice can be played solo on the manual to which it is assigned. Also, the CF-function for these voices can be coupled to another manual. This differs in relation to the CF-function for the organ- and Platinum voices), see § 4.7 Accessories.

The use of the CF-function with a Premium voice disables the original CF-function for organ- and Platinum voices.

6.2 Platinum Voice Package

The *Platinum* Voice Package consists of the solo voices of the *Premium* Voice Package plus the following orchestral voices:

- Gospel Organ I (Full) ('full organ' sound, with Leslie effect)
- Gospel Organ II (Jazz) ('jazz organ' sound, with Leslie effect)
- Piano
- Harp
- Harpsichord
- Strings

Solo- and orchestral voices are standard playable from a factory defined manual. This can be changed by the user via Quick Access, see § 4.11.2 Keyboard assignment orchestrals, and via the Johannus Menu, see § 5.5.7 Orchestrals.

6.3 Exclusions

A number of orchestral voices cannot be played simultaneously:

- Harp and Piano cannot be played simultaneously.
- Gospel Organ I (Full) and Gospel Organ II (Jazz) cannot be played simultaneously.

If one of these orchestral voices is activated, the corresponding orchestral voice(s) will be disabled automatically.

7 MAINTENANCE, TROUBLESHOOTING AND WARRANTY

7.1 Maintenance

Overview

Component	Maintenance	Frequency
Cabinet	Cleaning. See § 7.1.1	As required
Manuals	Cleaning and removing scratches. See § 7.1.2	As required

7.1.1 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.

7.1.2 Maintenance of the manuals

By default, the Johannus LIVE 2T/3T comes with Synthetic keyboards.



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.

7.2 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 § 2.1.3.
Organ functions do not work properly	The organ is not grounded.	Connect the organ to a grounded power socket.
Display message: Error: Usb code 3	USB stick contains stored file data on a format (such as exFAT, or NTFS), other than the required FAT32 file system and/or has a storage size greater than 32GB.	Store data on a pre-formatted USB stick with the FAT32 file system , 32GB or smaller size.

7.3 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 Global Organ Group B.V.

8 SPECIFICATIONS

8.1 MIDI Implementation Chart

JOHANNUS Organs

MIDI Implementation card

Date: October 2015

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	9nH v=1 - 127 9nH (v=64)	9nH v=1 - 127 9nH v=1 - 127	Velocity ON
	Note OFF	9nH (v=0)	9nH v=0 8nH v=*	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: OMNI ON, POLY
Mode 3: OMNI OFF, POLY

Mode 2: OMNI ON, MONO
Mode 4: OMNI OFF, MONO

Y=YES
N=NO

8.2 MIDI Specifications

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

Default basic channels (transmitted/recognized)

For LiVE 2T

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

For LiVE 3T

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 § 5.5.6 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 § 5.5.6 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.

8.3. Specifications of Instrument

This paragraph describes the specifications of the instrument.

Items for instrument type:		LiVE 2T	LiVE 3T
Keyboards	Manuals / stops	2 x 61 keys / 44 stops	3 x 61 keys / 52 stops
	Pedalboard (options)	30-NOTE CONCAVE PEDAL BOARD 30-NOTE STRAIGHT PEDAL BOARD 30-NOTE RACO PEDAL BOARD	30-NOTE CONCAVE PEDAL BOARD 30-NOTE STRAIGHT PEDAL BOARD 30-NOTE RACO PEDAL BOARD 32-NOTE CONCAVE PEDAL BOARD
6.1 Audio System Internal speakers	Subwoofer	1	1
	Fullrange driver	2	2
	Near field soundbar	2	2
	Side speakers	2	2
External rear speaker connections (option)	External rear speaker connections (optional)*	Optional 2 external rear speaker connections, for reverb sound from behind*. Note: Speaker impedance 4-8 Ohms. The 2 speakers are not included.	
Connectors	Phones jack	6.3 mm (Stereo)	
	Output jack	3.5 mm (stereo AUX OUT)	
	Input jack	3.5 mm (stereo AUX IN)	
	MIDI connectors	3 (In, MOD, SEQ)	
	USB port	1 (Memory port for USB Stick; up to 32 GB, FAT32 pre-formatted)	
	Fixed AC cable with connector	1	
Voice Packages Options	Standard	(without options: 'Solo voices', 'Orchestral voices')	
	Premium	Has option 'Solo voices' (without 'Orchestral voices')	
	Platinum	Has both options: 'Solo voices', 'Orchestral voices'	
Power consumption		190 W, 80 W idle Mode	
Operational Ambient Temperature Range		32-113 °F; 0-45 °C.	
Mains Supply Voltage		This instrument is adjusted to a mains supply voltage of: 220V, 230V & 240V 50/60Hz, or 100, 120V & 240V 50/60Hz. Before connecting the instrument, check if your mains voltage corresponds to the voltage indicated on the serial plate (see bottom below keyboards).	
Console Dimensions	Height without music rest	115 cm	122 cm
	Height including music rest	142 cm	149 cm
	Width	137 cm	144 cm
	Depth	61 cm	63 cm
	Depth with Pedalboard	100 cm	103 cm
Weights	Console	116 kg	130 kg
	Bench	20 kg (or option: Bench with lift lid, 26 kg)	
	Pedalboard	22 kg	
	Total Weight	158 kg (164 kg)	172 kg (178 kg)

Specification v.2.00: In the interest of product improvement, the specifications and/or appearance of this Organ are subject to change without prior notice. Please note that the actual dimensions and weight may differ slightly from this specification due to the woodwork and (internal) options. The above described dimensions (and shape) of the LiVE 2T model differ from previous 2T model, before November 2018.

When optional Rear Speaker connections are not used, the best sound quality can be obtained by setting to 0% (Off) in the menu 'System Settings', 'Rear Speakers'.

For the USA: 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.

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 as documented for identified product above. 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 does cause interference to radio or television reception, which can be determined by turning the equipment o- and then 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 equipment referenced in this declaration is identical to the Organ tested and found acceptable with the standards. The technical records maintained by the responsible party continue to reflect the equipment being produced under this Declaration of Conformity within the variation that can be expected due to quantity production and testing on a statistical basis.

This equipment requires shielded interface cables in order to meet FCC class B limit. Any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

For Canada: **NOTICE.** This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS. *Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.*

For C.A. US (Proposition 65): **WARNING.** This product contains chemicals known to cause cancer, birth defects and other reproductive harm, including lead.

For China:

有关产品中所含有害物质的说明

本资料就本公司产品中所含的特定有害物质及其安全性予以说明。

本资料适用于 2007 年 3 月 1 日以后本公司所制造的产品。

环保使用期限



此标志适用于在中国国内销售的电子信息产品，表示环保使用期限的年数。所谓环保使用期限是指在自制造日起的规定期限内，产品中所含的有害物质不致引起环境污染，不会对人身、财产造成严重的不良影响。环保使用期限仅在遵照产品使用说明书，正确使用产品的条件下才有效。不当的使用，将会导致有害物质泄漏的危险。

产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
外壳(壳体)	×	○	○	○	○	○
电子部件(印刷电路板等)	×	○	×	○	○	○
附件(电源线、交流适配器等)	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。
 ×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。
 因根据现有的技术水平，还没有什么物质能够代替它。

For EU, UK:

For EU Countries



- UK** This symbol indicates that in EU countries, this product must be collected separately from household waste, as defined in each region. Products bearing this symbol must not be discarded together with household waste.
- DE** Dieses Symbol bedeutet, dass dieses Produkt in EU-Ländern getrennt vom Hausmüll gesammelt werden muss gemäß den regionalen Bestimmungen. Mit diesem Symbol gekennzeichnete Produkte dürfen nicht zusammen mit den Hausmüll entsorgt werden.
- FR** Ce symbole indique que dans les pays de l'Union européenne, ce produit doit être collecté séparément des ordures ménagères selon les directives en vigueur dans chacun de ces pays. Les produits portant ce symbole ne doivent pas être mis au rebut avec les ordures ménagères.
- IT** Questo simbolo indica che nei paesi della Comunità europea questo prodotto deve essere smaltito separatamente dai normali rifiuti domestici, secondo la legislazione in vigore in ciascun paese. I prodotti che riportano questo simbolo non devono essere smaltiti insieme ai rifiuti domestici. Ai sensi dell'art. 13 del D.Lgs. 25 luglio 2005 n. 151.
- ES** Este símbolo indica que en los países de la Unión Europea este producto debe recogerse aparte de los residuos domésticos, tal como está regulado en cada zona. Los productos con este símbolo no se deben depositar con los residuos domésticos.
- PT** Este símbolo indica que nos países da UE, a recolha deste produto deverá ser feita separadamente do lixo doméstico, de acordo com os regulamentos de cada região. Os produtos que apresentem este símbolo não deverão ser eliminados juntamente com o lixo doméstico.
- NL** Dit symbool geeft aan dat in landen van de EU dit product gescheiden van huishoudelijk afval moet worden aangeboden, zoals bepaald per gemeente of regio. Producten die van dit symbool zijn voorzien, mogen niet samen met huishoudelijk afval worden verwijderd.
- DK** Dette symbol angiver, at i EU-lande skal dette produkt opsamles adskilt fra husholdningsaffald, som defineret i hver enkelt region. Produkter med dette symbol må ikke smides ud sammen med husholdningsaffald.
- NO** Dette symbolet indikerer at produktet må behandles som spesialavfall i EU-land, iht. til retningslinjer for den enkelte regionen, og ikke kastes sammen med vanlig husholdningsavfall. Produkter som er merket med dette symbolet, må ikke kastes sammen med vanlig husholdningsavfall. Apparatet må tilkoples jordet stikkontakt.

- SE** Symbolen anger att i EU-länder måste den här produkten kasseras separat från hushållsavfall, i enlighet med varje regions bestämmelser. Produkter med den här symbolen får inte kasseras tillsammans med hushållsavfall. Apparaten skall anslutas till jordat uttag.
- FI** Tämä merkintä ilmaisee, että tuote on EU-maissa kerättävä erillään kotitalousjätteistä kunkin alueen voimassa olevien määräysten mukaisesti. Tällä merkinnällä varustettuja tuotteita ei saa hävittää kotitalousjätteiden mukana. Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan.
- HU** Ez a szimbólum azt jelenti, hogy az Európai Unióban ezt a terméket a háztartási hulladéktól elkülönítve, az adott régióban érvényes szabályozás szerint kell gyűjteni. Az ezzel a szimbóllummal ellátott termékeket nem szabad a háztartási hulladék közé dobni.
- PL** Symbol oznacza, że zgodnie z regulacjami w odpowiednim regionie, w krajach UE produktu nie należy wyrzucać z odpadami domowymi. Produktów opatrzonych tym symbolem nie można utylizować razem z odpadami domowymi.
- CZ** Tento symbol udává, že v zemích EU musí být tento výrobek sbírán odděleně od domácího odpadu, jak je určeno pro každý region. Výrobky nesoucí tento symbol se nesmí vyhazovat spolu s domácím odpadem.
- SK** Tento symbol vyjadruje, že v krajinách EÚ sa musí zber tohto produktu vykonávať oddelene od domového odpadu, podľa nariadení platných v konkrétnej krajine. Produkty s týmto symbolom sa nesmú vyhazovať spolu s domovým odpadom.
- EE** See sümbol näitab, et EL-i maades tuleb see toode olemprügist eraldi koguda, nii nagu on igas piirkonnas määratletud. Selle sümboliga märgitud tooteid ei tohi ära visata koos olmeprügiga.
- LT** Šis simbolis rodo, kad ES šalyse šis produktas turi būti surenkamas atskirai nuo buitinių atliekų, kaip nustatyta kiekviename regione. Šiuo simboliu paženklinėti produktai neturi būti išmetami kartu su buitiniems atliekomis.
- LV** Šis simbols norāda, ka ES valstīs šo produktu jāievāc atsevišķi no mājsaimniecības atkritumiem, kā noteikts katrā reģionā. Produkts ar šo simbolu nedrīkst izmest kopā ar mājsaimniecības atkritumiem.
- SI** Ta simbol označuje, da je treba proizvod v državah EU zbirati ločeno od gospodinskih odpadkov, tako kot je določeno v vsaki regiji. Proizvoda s tem znakom ni dovoljeno odlagati skupaj z gospodinskimi odpadki.
- GR** Το σύμβολο αυτό υποδηλώνει ότι στις χώρες της Ε.Ε. το συγκεκριμένο προϊόν πρέπει να συλλέγεται χωριστά από τα υπόλοιπα οικιακά απορρίμματα, σύμφωνα με όσα προβλέπονται σε κάθε περιοχή. Τα προϊόντα που φέρουν το συγκεκριμένο σύμβολο δεν πρέπει να απορρίπτονται μαζί με τα οικιακά απορρίμματα.

CE This product complies with the requirements of EMCD 2014/30/EU, LVD 2014/35/EU and Electromagnetic Compatibility Regulations 2016, Electrical Equipment (Safety) Regulations 2016.





