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Spezialwerkzeuge
und Werkzeuge

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Instructions for installation and operation of the

Manual single button pusher with extension for pedal pianos

with display remote control version 3

Dear Customers,

Thank you for purchasing our manual single-key pusher, primarily for voice work.
We are pleased that we can now offer a key pusher for manual keyboards that is light in weight and has simple mechanical components that can be placed on the keyboard, and that we can now supply it as a complete device including the pedal extension.

With the following information we want to make it easier for you to start using it recommend that you do certain “dry exercises” on an existing one before using your voice for the first time Manual keyboard of an organ, piano, grand piano, keyboard or similar and, if available, a pedal keyboard so that you are familiar with the essential functions and programming on site when using your voice.

Set up via manual keyboard

The standard manual rail with the carriage can be used for keyboards from f³ (54 keys) to c4 (61 keys). The combination rail consisting of the pedal extension rail and the short 190 mm long rail is intended for shorter manual keyboards with less than 54 keys.
The manual rail has adjustable brackets at the ends for support or attachment between the keyboard cheeks. The brackets can be placed on flat keyboard jaws that only protrude slightly beyond the lower keys. For safety reasons, these can be fixed to prevent them from slipping. If there are high jaws, the two brackets can clamp the rail between the jaws. Position the rail as centrally as possible to the width of the keyboard, as the carriage only allows limited travel over the rail.

Power supply

There are slots for AA batteries or rechargeable batteries in the car and in the remote control.
A power supply can also be connected to the car. If you work with the power supply for a longer period of time, you should remove at least one battery so that they do not interfere with each other. The batteries are accessible by removing the housing cover or the rear housing shell of the remote control without tools (magnetic fasteners). The power supply with full batteries is designed for an 8-hour tuning day for the car and 10 tuning days for the remote control. It is advisable to have spare batteries for the remote control, at least in addition to the power supply to carry with you. The corresponding available loading capacity is shown in percent on the display for the car and the remote control. If the power supply is connected to the car, a charging capacity of approx. 46% is displayed. When using the pedals, the power supply unit must be connected due to the force required by the plungers.

remote control

The three most important buttons are sensibly arranged in a triangle below the display.
See the illustration in the quick operating instructions. "Left" or "right" movement of the carriage, press or release the "button" in the middle. Directly down the next button is for pressing the additional "octave" button and for menu operations. At the bottom is the "OK" button for programming and setting work and for access to the menu.
At the top center of the front you will find the red button for switching the remote control on and off.
The socket at the bottom of the housing is intended for loading the program. The long-distance operation cannot be connected to a power supply.

Insert the key pusher on the manual keyboard

1. Position the rail with carriage in the middle of the keyboard, if necessary using the side. Bracket against the clamp the high keyboard jaws or, if the keyboard jaws are flat, place them on the jaws and if necessary, secure the entire device against slipping or falling.
2. Turn on the power supply first on the cart and then on the remote control
3. Position the trolley according to the instructions on the remote control display
4. Select storage location (set location 1 - 10 with right or left button)
   (Memory 1 is programmed as delivered for piano pitch 779 mm, c - g^3)
5. Key plunger is on the lowest key (C). Key name is shown in the display
6. Press the keyboard key using the top middle key and use the forward and back keys or
   Select the next key using the right and left buttons.

By pressing the "OK" button you will enter the menu that displays the set parameters.
You can move up and down in the menu using the two top central buttons
Change settings. For jumping distance and pressure force, the corresponding number can be selected using the right or left button. When fine-tuning and programming and saving to a preset memory location (see point 4 above), use the "OK" button to call up further instructions on the display.

Programming larger interval jumps

If larger key distances are to be moved automatically, programming must be carried out. To do this, use the "OK" button to switch to the menu and set the jump width to 1 for semitone,
Set 2 for whole tone etc. up to 5.

Increase the pressure force of the plungers

When delivered, the pressure force 5 is set to approx. 300 g. Is a higher pressure force necessary for the keyboard key to be fully pressed, the number can be increased in the menu. However, please be careful that if the pressure is too high, the entire device can push up and possibly fall off the keyboard.

Resetting the car to the lowest key

Once the highest programmed key is reached, the car moves when you press and hold the lower key back in steps. You can continue tuning backwards by briefly pressing the lower key. Please note that due to the selected interval step (whole tone, third, etc.), the highest or lowest pressable key can be before the end of the keyboard.

Fine adjustment within the octave division

If there are deviations in pitch when activating the individual keys, e.g. B. through larger distances between Fs and Gs etc., this deviation can be adjusted via the fine adjustment menu and its Instructions can be adjusted directly via the manual keys to an octave.
This fine setting is then automatically adopted into the selected programming of a memory location and remains there until it is overwritten again.

Automatic pass

With this function you can have the key presser automatically press the keys continuously. Helpful for testing whether all pipes respond, the tongue tuning is correct, listening to the wind chest tightness or to check the intonation of a register.
This function can be switched on and off via the menu and also in the speed set. Please scroll all the way down in the menu using the “octave button” on the remote control and you will find the “Auto” line with the speed. You can do this using the left or right increase or decrease button. Start this run by pressing the “OK button” or stop by pressing again.

Extension and conversion for use as a pedal single button press

1. Connect the extension rail to the manual rail on the right (treble side) and over it fix the wing nut. The rail transition must be flush, otherwise the toothed rail will break does not continue to run smoothly.

2. Pull out the manual tappet racks in a de-energized state and pull out the pedal tappet racks. Insert the racks with the print side down and lift the print heads up to the device.

3. Push the trolley onto the rail and use the adjustable pedals at the rail ends. Install the support bracket. Tighten all screws well to ensure the stability of the rail.

4. Position the rail above the pedal piano so that the plunger is close to the "Cs" key the top key doubling hits the basic key. Ram head should be short when at rest above the "C" pedal button. This applies accordingly to beam keyboards or concave keyboards adjust.

5. Connect the cart to the power supply. Batteries can remain in the car. That makes sense central placement of a small cable drum on the organ bench seat. This is the length of the Power supply cable is always sufficient. Because of the necessary ram force, this must always be done when operating pedals power supply must be connected.

6. Attach the weights to each of the pressure ram racks. The device will only last for a short time used in the pedal, these weights can also be missing. These relieve the load on the ram motors pressing the pedal button for a longer period of time.

7. Switch on the remote control and set the pressure force to at least 20, since from this pressure the control automatically switches to pedal operation. Depending on what is required pedal button pressure set the pressure force in the menu to 40 and more. The one set pressure force is not saved when programming the pedals, otherwise it will occur when changing the manual operation, this would be too high in the manual.

8. Program the button press as usual. A is recommended for pedal operation program slot 8 - 10. When entering the keys, only the number of keys is entered input. The white spaces are automatically skipped. (Program position 10 was at the first delivery includes a parallel BDO pedal keyboard C - f' with 30 keys and pressure force 20 proven.)

9. If necessary, fine-tune the button position. May be necessary for strongly concave ones (tub-like) pedal keyboards.

In case of problems as first aid

Switch the car and remote control off and on again. If confusing programming appear, entries may not have been accepted during the programming process. Therefore, in such cases, please enter everything again.

We wish you a helpful automatic key pusher that will help you in your demanding full vocal work is supported as much as possible. Available for questions and suggestions we are at your disposal. Please avoid returns without consulting us. Often an error can also be corrected over the phone or it is not necessary to have the entire device to send on the journey. Please also keep the cardboard packaging of the suitcase possibly back and forth transport with the parcel service. Thank you!