



# PIANO GUARD SYSTEM (PG-SG)

## Installation Manual

- step by step -  
(system for 220cm long grandpianos)

# #1



# Planning

In order to install the system correctly in a grandpiano, an installer needs to carefully plan the arrangement of individual system components in a given grandpiano model.

The installer installs the system lying under the grandpiano, or, if possible, by laying the instrument on its side. Then, the system can be installed in a more convenient position.

The installer needs to ascertain the grandpiano's beam skeleton construction in order to install the system correctly.

The hanger that holds humidifier should be installed first.



# # 2

## Hanger

We install the hanger as close to the central point of the soundboard as possible, paying attention to the possibility of removing the humidifier in order to wash it or replace the material inserts. It is advisable to install the humidifier centrally because it evenly affects a larger area of the instrument's soundboard. The hanger is mounted with four screws to the lower wall of the beam at the soundboard.



## # 3

# Humidifier

Once the hanger is installed, an installer can mount the humidifier on it. At the production stage, there are already installed sensors responsible for checking the water level in the tank.

**ATTENTION!** Do not place a humidifier in the mechanism of the instrument. Do not mount the humidifier directly to the instrument's soundboard or cabinet. At the production stage, a material/pad insert was installed in the humidifier, which should be replaced every 3 months, at most 6 months if the tuner or installer does not see the need for earlier replacement.

After installing the hook and mounting the humidifier on it, it is advisable to plan the location of the control panel.

# # 4

## Control panel

The control panel has entries for all cables on one side of the case. The control panel can be mounted in two ways:



(1) The control panel is mounted at such height of the beam under the soundboard that the already connected cables do not protrude from the bottom and so that the excess cable length can be bundled together. The control panel is lightweight and can be mounted on any beam under the soundboard.

(2) The control panel is mounted at the height of the end of the keyboard table, so that all cables run parallel to the soundboard or beams.



## # 5

# Drying panel (Heater)

There are three drying panels (heaters) designed for the grandpiano. They should be placed in three different places under the soundboard of a given instrument. The first panel may be installed close to the keyboard table (mounted with 2 screws under the table to the selected beam), the second on the other side of the soundboard at the keyboard table (mounted with 2 screws under the soundboard to the selected beam) and the third at the end of the soundboard (attached to the selected beam under the soundboard).

**ATTENTION!** Do not place the drying panel (heaters) in the instrument mechanism. Do not install the drying panel directly to the instrument's soundboard or housing. Make sure that no cable touches or passes near the drying panels.

# # 6

## Sensor

There are three sensors. Each sensor should be placed in three different locations under the soundboard. Each sensor should be slightly away from the already attached devices (drying panels, humidifier or control board). The sensors are attached with screws to the beams located under the soundboard. The sensors must not be mounted directly to the instrument's soundboard or cabinet.



## #7

# Information Panel (Front panel)

An fitting cable connecting the control panel was installed in the information panel already at the production stage. The information panel can be placed in any place chosen by the user (as long as the user can see its diodes, e.g. a blue signal indicating the need to add water to the humidifier tank). It is advisable to attach the information panel to the bottom of the keyboard table on the right or left side. The information panel is attached using two screws.

**ALERTS!**

If panel glows with :

1. White color - it means that all parameters are normal;
2. Blue color - this is a signal to refill the humidifier tank with **distilled water**.
3. Flashing green - it means that the system is ready for Wi-Fi configuration mode.



# # 8

## Cables

The plugs should be placed in the control panel as described:

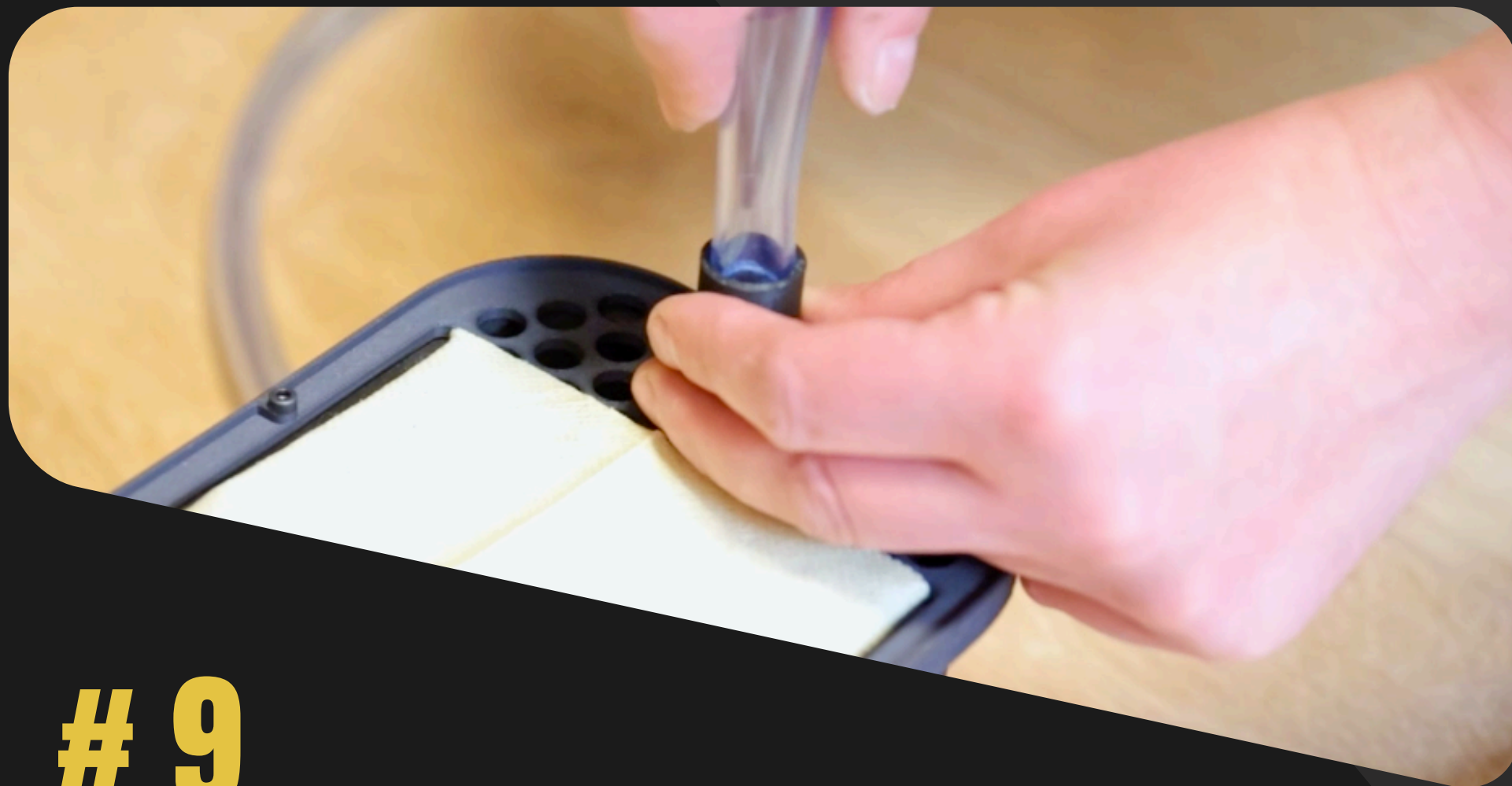
HUMIDIFIER - Humidifier

HEATER - Drying panel

SENSORS - Sensors

FRONT - Information panel (on the front of the instrument)

POWER - Charger, Power Supply



## # 9

# Silicone tube

The silicone tube should be inserted into the humidifier in the indicated place (**picture above**). Two hooks should be installed to keep the tube in place around the inner case of the instrument under the soundboard so that it can be easily pulled out to add water to the humidifier. The hooks should be installed gradually upwards to avoid spilling any remaining water drops after use (so that the installed tube lies upwards). To add **distilled water** to the tank, pull out part of the tube and raise it slightly so that the water poured from the canister can flow by gravity into the tank (humidifier).

## # 10

## Anti-algae fluid

The preparation should be poured into a canister already filled with distilled water. We pour the preparation no more than quarter of a cap from a given bottle. There is no need to mix the preparation in the canister.

**ATTENTION!** The user should be made aware that this is the only preparation/fluid accepted by Piano Guard. Use of another preparation may result in negative effects on the instrument, e.g. rusting of metal parts. The use of an inappropriate preparation will invalidate the product warranty.

**IMPORTANT!** The anti-algae preparation cannot be left in a place accessible to children.





# # 11

## Canister

Fill the canister completely with distilled water. The contents of the full canister, with the already applied anti-algae preparation/fluid, should be slowly poured through the hose into the humidifier. Leave the canister in order to refill the tank with distilled water next time. To avoid the limescale effect, it is advisable to refill the canister with distilled water.

**IMPORTANT!** Filling the device with plain water voids the product warranty.



# # 12

## Charger

The power supply is supplied with Velcro tape and an alcohol-infused cleaner to degrease the surface of the beam and the power supply before installation. The power supply should be placed in a convenient location away from the humidifier and drying panels.

After all system components have been installed, all that remains is to connect it to the power supply. In order for the system to work, it must be connected to the power supply at all times.



# # 13

Example arrangement of system elements