

# Bureå Choir Organ V. 2.01

## Soundfont and Dispositions for jOrgan 3.20



This organ was built by Grönlunds Orgelbyggeri AB (Sweden) and donated to Bureå church in 1968 by funding from a private family. According to verbal information this organ is likely older as it was apparently used as an interim instrument while the old main organ in the church was removed and the new Hammarberg instrument constructed. After that period the congregation wished to keep the organ as choir organ in the church.

The recording of the samples was done in November 2012 by Lars Palo directly into computer running Audacity, using a Alesis iO2 audio interface and two Studio Projects B1 condenser microphones. The recording settings were stereo, 24 bit and 48000 Hz samplerate. Microphones 22 cm apart and with a 70 degree angle in between. Approximate distance to facade was 80 cm.

The sampleset is created by Lars Palo with all cutting done in Audacity (2.0). Noise reduction of the samples was made with [Nick Appletons Noise Reduce software](#) (version 0.15b). Pitch info, looping and marking was done in LoopAuditioneer.

The original specification of the organ is:

Bureå church choir organ (1968)

### **Manual (56 notes, C-g3)**

Rörflöjt 8'  
Principal 4'  
Gedackt 4'  
Blockflöjt 2'  
Cymbel \*  
Geigenregal 8'

### **Pedal (30 notes, C-f1)**

Subbas 16'  
Man/P

\* According to the stop plate it's a Cymbel with three ranks, but in reality there are only two. Confirmed from looking at the windchest there are holes for three ranks but only pipes for two.

The GrandOrgue version of the Bureå Choir organ can be downloaded from Lars Palo's website: <http://www.familjenpalo.se/vpo/download>

### **About the Soundfont and jOrgan Disposition**

The soundfont is a reduced version of the sampleset. All ranks two to three samples per octave, stretched to replicate their neighbors. Principals, flutes and strings have proportional length release settings. All reeds have their original release samples.

The original disposition replicates the disposition of the original Bureå Choir Organ.

### **Extended Disposition**

A two manual disposition makes the stops independently playable on two manuals for versatility. **New in version 2.01**, the stop selection for the manuals is not identical. Manual I has the stops of the original organ. Manual II does not have the mixture, and has added a Nasard 2 2/3' derived from the Gedackt 4', a Ters 1 3/5' derived from the Blockflöjt 2', and a Quinte 1 1/3' derived from the Principal 4'. There is also a tremulant that affects the stops of both manuals.

### **Fluidsynth's Reverb Settings**

The jOrgan disposition consoles include a "Reverb" switch, which activates Fluidsynth reverb settings that approximate the reverb experience in the GrandOrgue model. (The controls for Fluidsynth reverb are hidden behind the picture of the organ.)

### **Impulse Response and Convolution Reverb**

More details on how Fluidsynth reverb works are in the essay ["Making the Most of Fluidsynth Reverb."](#)

For those using Impulse Responses, see the essay “The Best Impulse Responses for Use with Virtual Organs” (Impulse Response.pdf) is also included in the “Reverb” folder. The essay includes links for downloading these files from the authors’ websites.

Lars Palo has recently released an impulse response of the Burea church, also downloadable from his website here: <http://familjenpalo.se/vpo/ir-recordings>

## External Reverb Controls

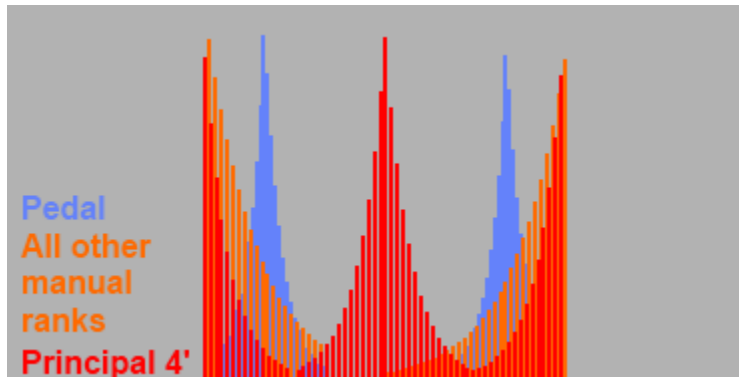
The dispositions feature MIDI links and controls for external reverb devices. I own an Alesis Midiverb 4. Midiverb 4’s Program 106 will be activated when the disposition loads. This can be changed by the user in edit mode. The “Edit A” and “Edit B” controls correspond to the controls on the Midiverb 4.

## Flexible Wind Simulation

Flexible Wind is a key activated pitch variance that simulates the behavior of wind in a wind chest. A slight, momentary variation in pitch can be heard as the air is unstable for a moment when new keys are depressed. For the simulated “Flexible Wind” to operate, the jOrgan MIDI merger must be used. Any activity in MIDI devices using channels 1 through 5 will be detected.

## Stereo Spread

The soundfont was edited with the Polyphone soundfont editor ( [www.polyphone.fr](http://www.polyphone.fr) ). Polyphone makes possible precision adjustment of releases and stereo panning. The ranks of the soundfont follows this schematic:



Some of the information above and all the images that follow are from Lars Palo’s original download package.



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The original creator can be contacted on [larspalo@yahoo.se](mailto:larspalo@yahoo.se)







Inscription reads: "Donated to Bureå church the 13th Jan 1968 by Anna Landmark and her daughters Liv Kruse, Margrethe Andersson, Solveig Åvall, Aase Sten to the memory of the late dir. Lars Landmarks 90-year day.





