

SETTING UP THE ARTISAN SOUND ENGINE

Unpack the sound engine and make certain that you remove all of the protective plastic peel from around the unit. This protective peel helps to keep the sound engine scratch free in transit but it also blocks the air holes that allow for cooling of the unit.

Follow all of these instructions BEFORE applying power to the sound engine computer.

Connect the two cable bundles to the rear of the new sound engine and screw them both down. Obviously the larger bundle connects to the wider plug and the smaller bundle to the shorter connector.

The new sound engine uses a standard MIDI cable, not the Edirol USB interface that you used to download the software to the control system.

Look at the smaller bundle and find the two MIDI (DIN) plugs. Connect the MIDI IN (MIDI plug with the gray wire) to the MIDI OUT connector on the MICRO MIDI Control board in the console at the end of the control board chain.

That is the only connection you will use from the smaller bundle.

Connect the audio out from channels 1 and 2 to the audio out plugs (female RCA jacks) These plugs are on black wires and they are colored red and white. If you look carefully at the end of each wire you will see the channel numbers 1 through 8. To start you will use only channels 1 and 2. I have to use a magnifying glass to rear these but that's just because my eyesight is so bad. The remainder of the channels can be employed using the instructions in the sound engine manual. The other plugs for input and XLR will not be used but do not cut them off, just leave them open.

Now connect the power cord to the sound engine computer. The power cord should be powered on when the organ is on.

At this point turn on the organ and the new sound engine (large silver button on the front.) From that point on the sound engine should turn off and on with the organ by itself.

After about 2 minutes (the first time) the sound engine will be ready to play.

NOTE: If you have connected a monitor, a screen will appear that asks you for a user name and a password. You do not need to enter anything on that screen. The sound engine program loads unseen in the background.

ARTISAN TUNING CONTROLLER BOARD

The Artisan sound engine tuning controller looks for a controller on channel 16. If it sees controller 114, it tunes to nominal 44.1kHz, It then tunes up or down by up to 50 cents:

If the controller is 0, it tunes down 50 cents, if it's 64, it tunes to nominal, and if it's 127, it tunes up about 50 cents.

The thermistor yet, if one is connected further adjusts the tuning with 25 degrees C as nominal. The thermistor is 10k nominal, so it can tolerate lots of wire.

The wiring involves 5V power, MIDI in and (optional) out. The optional thermistor (two wires, must be isolated from other electric things) and a 75 ohm RCA plug cable to the SPDIF IN on the sound card.

Connect the MIDI out of your control system to the MIDI in of the tuning board. Connect the MIDI out of the tuning board to the MIDI in of the sound engine.

Programming changes: Generate the controller messages on MIDI channel 16 MIDI controller 114 from the control system.

Mixer: Using alsamixer software that is installed with your 8 channel sound card, look for "Multi Track Internal Clock" and set to "IEC958 Input". After rebooting, the sound engine will respond to the tuning controls.

Any questions or problems, please call: (425) 485-6743 or write to emarka@mac.com