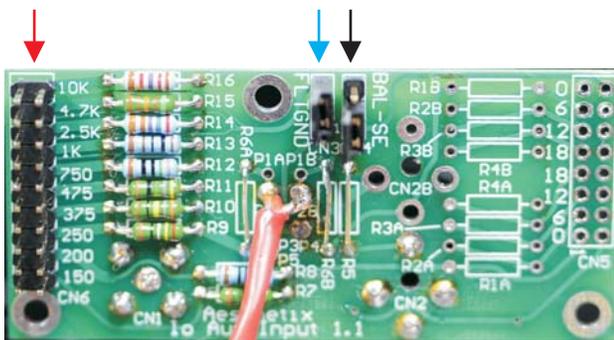# Io with Volume Controls
Two Phono Inputs

> **Important Note One: Never change phono inputs with the volume controls up. Always ensure the volume controls are at their minimum (fully counter-clockwise) setting before changing inputs. Unless the volume controls are at their minimum setting, a loud discharge will occur that can potentially damage speakers.**

> **Important Note Two: Never change the below settings with the Io on. Always turn off the Io and wait 20 minutes before altering internal settings. This allows the power supplies to fully discharge. If in doubt, refer to your qualified Aesthetix dealer or the factory.**

An Io with volume controls configured with two phono inputs has four Aux. Input boards (one for left, one for right, for each input) shown at the rear of the unit in the below photo (right).

The picture below shows a close-up of the phono Aux. Input board.

If the load setting is the same for both cartridges (inputs) the rear panel jumpers can be used to set the global load value. In this case, the load jumpers (red arrow in the above left picture) will not be used.

If the 2 cartridges (inputs) require different load values, use only the load jumpers on the internal 4 boards, and remove all jumpers from the rear panel.

When different load settings are required for each input, the red arrow indicates where the user will install a loading jumper. If a load of 47K* is desired, do not install any jumpers. The other possible values are: 10K, 4.7K, 2.5K, 1K, 750 ohms, 475 ohms, 375 ohms, 250 ohms, 200 ohms and 150 ohms.

On each input, both channels (left and right) should be set to the same load value. There are four jumpers in total. These are most easily changed with needle-nose pliers or tweezers.
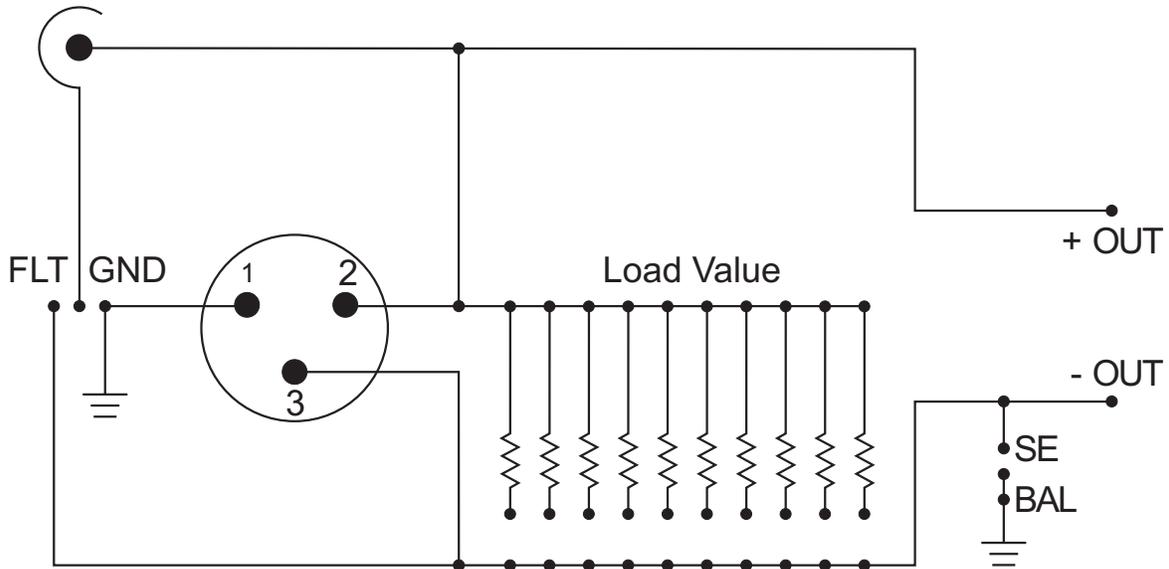
*Factory default setting

> **Important note:** Unless updated, older units did not have the Aux Input boards. Those units can be upgraded by having the Aux Input boards installed.

The blue arrow points to a 2 position jumper setting used to select a floating or grounded input for the RCA connector. As a phono input, it should be set to FLT, or its upper position.

The black arrow points to the BAL/SE jumper setting. In almost all cases, this should be set to BAL, regardless of whether RCA or XLR input jacks are used.

Not all system configurations are the same. In the event of hum on the phono input(s), other combinations can be tried. However, the above factory defaults should be ideal for nearly every system.

Aux Input board phono section block diagram