Stoel
MUSIC SYSTEMS

CV SOURCE
USER MANUAL

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Warranty Information

Limited Warranty

Stoel Music Systems warrants that each of its products will be free of manufacturing and assembly defects for a period of (1) one year from the purchase date by the original owner. All warranty claims require proof of purchase.

Stoel Music System does not warranty products due to improper installation, including but not limited to, insufficient or defective power supply voltages, installing the power cable backward either on the module or buss board side, or static discharge that damages 5V components.

If the product is deemed defective during the warranty period, Stoel Music Systems will:

(1) repair or replace the product at no charge to the customer except for shipping costs to Stoel Music Systems,

(2) or, refund the customer the amount of the original price.

If Stoel Music Systems determines the product is damaged by the fault of the customer, Stoel Music Systems will:

(1) repair the product (please see repair rates here),

(2) or, send the product back at the expense of the customer.

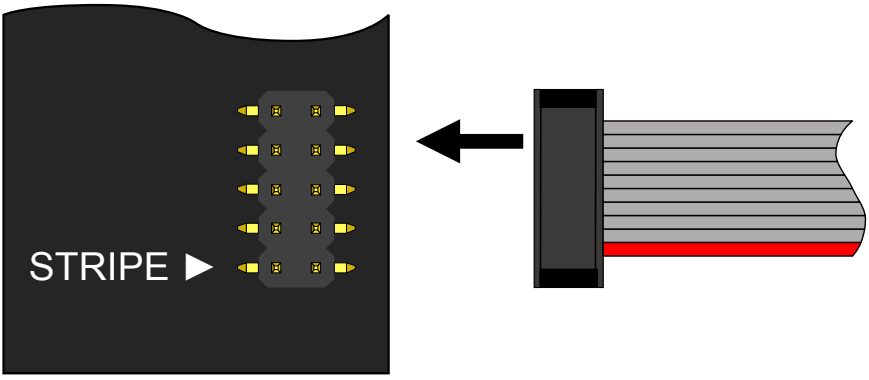
Stoel Music Systems is not liable, either explicit or implied, for any damages to persons or other equipment during the operation of the product.

For warranty or repair requests, do not hesitate to contact service@stoelmusicsystems.com to obtain a "Return to

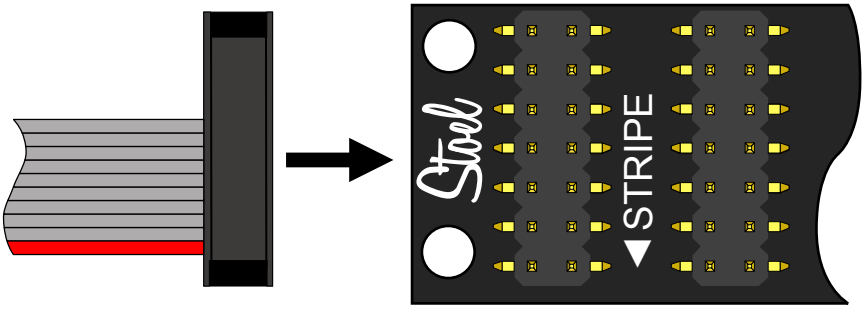
Installation

Before installation: UNPLUG EURORACK CASE!! Connect the 10-pin side of the power cable to the module with the red stripe as indicated. Connect the 16-pin side of the power cable to the bus board with the red stripe facing down, as shown. Check to verify the location of the red strip on your bus board. Mount the unit with the provided M3 screws within the rack rails.

Failure to properly plug in your module could damage the unit or other equipment.



Eurorack Module

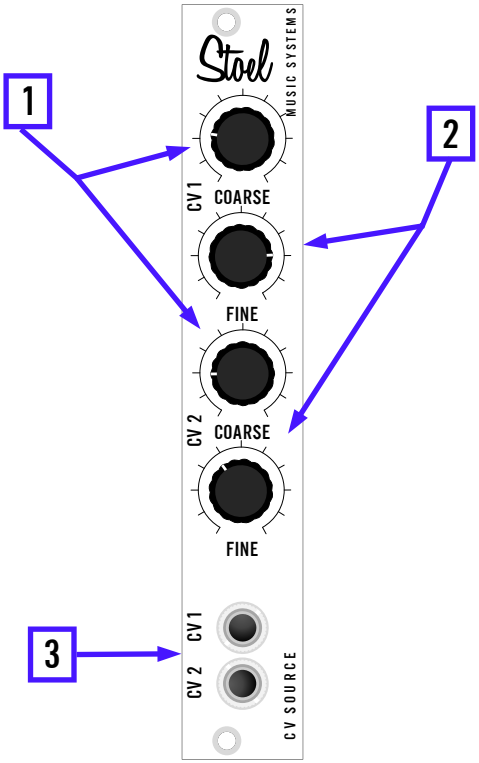


Bus Board

Requirements

HP Required	4 HP
Mounting Depth	21mm
+12 Volt Current Draw	4ma
-12 Volt Current Draw	5ma
+5 Volt Current Draw	0ma
5V Requirement	No
Mounting Screws Required	2
Power Cable	10 pin to 16 pin
Unit Weight	2 oz

Front Panel Overview



Front Panel Overview

(1) The COARSE knob varies the control voltage (CV) from 0 to +12 volts. Each COARSE knob corresponds to the CV out. In terms of pitch on a 1V/octave scale, the coarse control spans over five octaves.

(2) The FINE knob adjusts the control voltage with a range of +/- 0.5 volts. The purpose of the knob is to give the user more refined control over the output control voltage. In terms of pitch on a 1V/octave scale, the fine control spans one semitone plus 20 cents.

(3) The jacks are the CV OUT for each corresponding CV control.

Operation

Basic Operation

The sole purpose of the CV Source is to output control voltage to manipulate other controls and devices within the system.

Application

For example, if the CV Source output (3) is plugged into the frequency CV input of a filter, the CV source would add additional CV to the filter frequency control. Suppose the filter frequency is turned to the closed position (typically the 9 o'clock position). In that case, the CV Source will take the place of the frequency knob. However, it seems ludicrous to replace an already functioning control (the filter frequency) with another control, right?

Let's say the user has the modular system arranged for two-voice polyphony. This means that the patch has two oscillators, two filters, two envelopes, and two voltage-controlled amplifiers. If the user desires that each voice tracks one another, the CV Source can help.

The CV OUT from the CV Source can be patched into a multiple, so the CV is now available to various modules. In order to control the filter frequency simultaneously with a single knob, patch the CV into the CV frequency input. Turn the CV Input on the filter off (if applicable). Now the user can control both filter frequencies simultaneously with a single knob. The process can be repeated for any module that requires CV control.

Example Configurations

Expanding Modulation Sources

Most all modulation sources do not have fine CV control. The addition of the CV Source aids the user in accurately controlling the desired function where there is none. (Fig. 1)

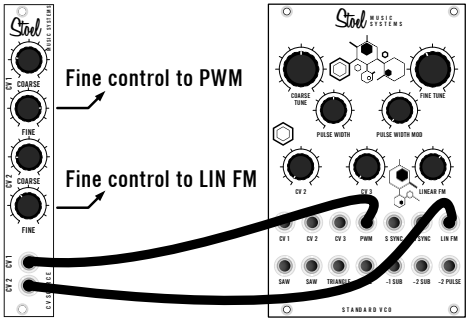


Fig. 1

Controlling Multiple Sources

If a user desires to control multiple modulation sources simultaneously, the CV Source can act as a master control. Patch the output of the CV Source to a multiple. Then patch into each modulation control. Be sure any additional modulation source is matched between each module to ensure consistent tracking. (Fig. 2)

CV Source Controls the frequency of the filters simultaneously

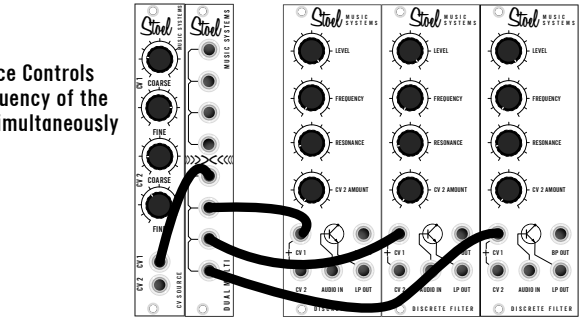


Fig. 2

Just make music