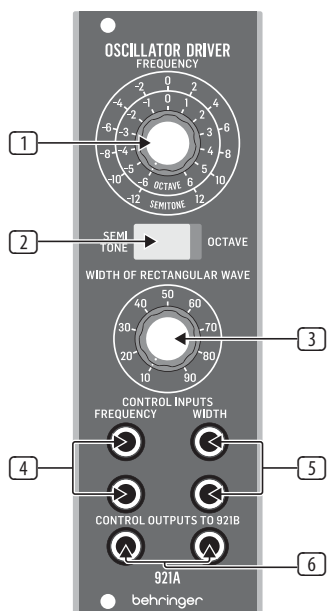# Quick Start Guide

921A OSCILLATOR DRIVER

Legendary Analog Oscillator Driver
Module for Eurorack
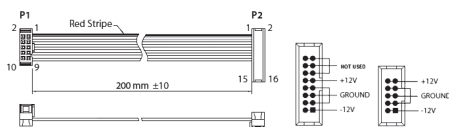
Controls

[1] **FREQUENCY** – This knob manually sets the frequency for oscillators connected to the 921A module.

[2] **SEMITONE/OCTAVE** – Use this rocker switch to select between semitone or octave increments for the FREQUENCY knob.

[3] **WIDTH OF RECTANGULAR WAVE** – Select between settings ranging from 10% to 90%.

[4] **CONTROL INPUT/FREQUENCY** – Connect incoming control voltage signals for the frequency to these dual summed input jacks via cables with 3.5 mm TS connectors. These two control inputs are also summed with the FREQUENCY control knob.

[5] **CONTROL INPUTS/WIDTH** – Connect incoming control voltage/modulation signals for the rectangular wave width to these dual summed jacks via cables with 3.5 mm TS connectors. These two control inputs are also summed with the WIDTH knobs.

[6] **CONTROL OUTPUTS TO 921B** – Connect control signals to a 921B VCO modules. The left output jack is for frequency control signals and connects to one of the 921B frequency link jacks. The right output jack is for rectangular wave width control signals and connects to one of the 921B width link jacks. The secondary parallel link jacks on the 921B can then be chained to other 921B VCO modules, and up to twelve 921B modules can be driven by the 921A driver.

Power Connection

Connect end P1 to the module socket
Connect end P2 to the power supply

The 921A OSCILLATOR DRIVER module comes with the required power cable for connecting to a standard Eurorack power supply system. Follow these steps to connect power to the module. It is easier to make these connections before the module has been mounted into a rack case.

1. Turn the power supply or rack case power off and disconnect the power cable.

2. Insert the 16-pin connector on the power cable into the socket on the power supply or rack case. The connector has a tab that will align with the gap in the socket, so it cannot be inserted incorrectly. If the power supply does not have a keyed socket, be sure to orient pin 1 (-12 V) with the red stripe on the cable.

3. Insert the 10-pin connector into the socket on the back of the module. The connector has a tab that will align with the socket for correct orientation.

4. After both ends of the power cable have been securely attached, you may mount the module in a case and turn on the power supply.

Installation

The necessary screws are included with the module for mounting in a Eurorack case. Connect the power cable before mounting.

Depending on the rack case, there may be a series of fixed holes spaced 2 HP apart along the length of the case, or a track that allows individual threaded plates to slide along the length of the case. The free-moving threaded plates allow precise positioning of the module, but each plate should be positioned in the approximate relation to the mounting holes in your module before attaching the screws.

Hold the module against the Eurorack rails so that each of the mounting holes are aligned with a threaded rail or threaded plate. Attach the screws part way to start, which will allow small adjustments to the positioning while you get them all aligned. After the final position has been established, tighten the screws down.

Specifications

Controls	
Frequency	1 x rotary knob ±6 octaves / ±12 semitone, switchable
Semitone / octave	Rocker switch, ±1 VDC or ±6 VDC
Width of rectangular wave	< 10% to > 90%, 0 VDC to +6 VDC

Signal Connections	
Frequency control inputs	2 x 3.5 mm jack, summed, 1 V/oct.
Rectangular width control inputs	2 x summed 3.5 mm jack, 1 V/16%
Input Impedance	100 kΩ unbalanced
Maximum input level	-10 VDC to +10 VDC
Frequency control output	1 x 3.5 mm jack, 1 V/oct
Rectangular width control output	1 x 3.5 mm jack, 1 V/16%
Output Impedance	10 Ω unbalanced
Maximum output level	-10 VDC to +10 VDC
Drive capability	12 x 921B VCO modules

Power	
Power supply	Eurorack
Current draw	25 mA (+12 V), 25 mA (-12 V)

Physical	
Dimensions	40 x 129 x 35 mm (1.6 x 5.1 x 1.4")
Rack units	8 HP
Weight	0.09 kg (0.20 lbs)

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