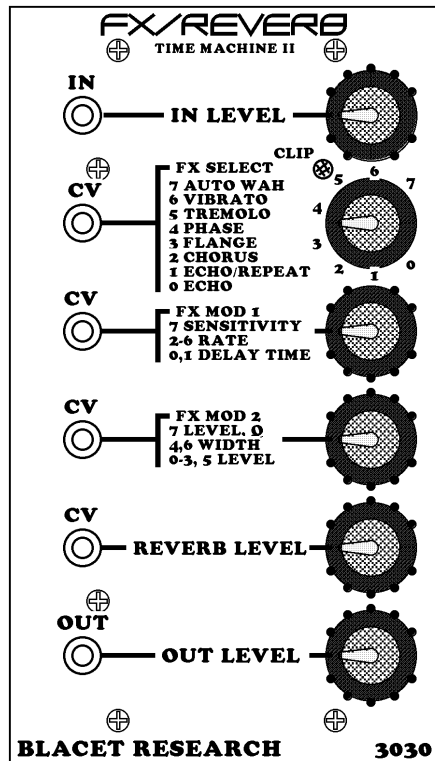


FX/REVERB

Dual Effect Voltage Controlled DSP Module

BLACET RESEARCH MODEL FX3030

User & Assembly Manual



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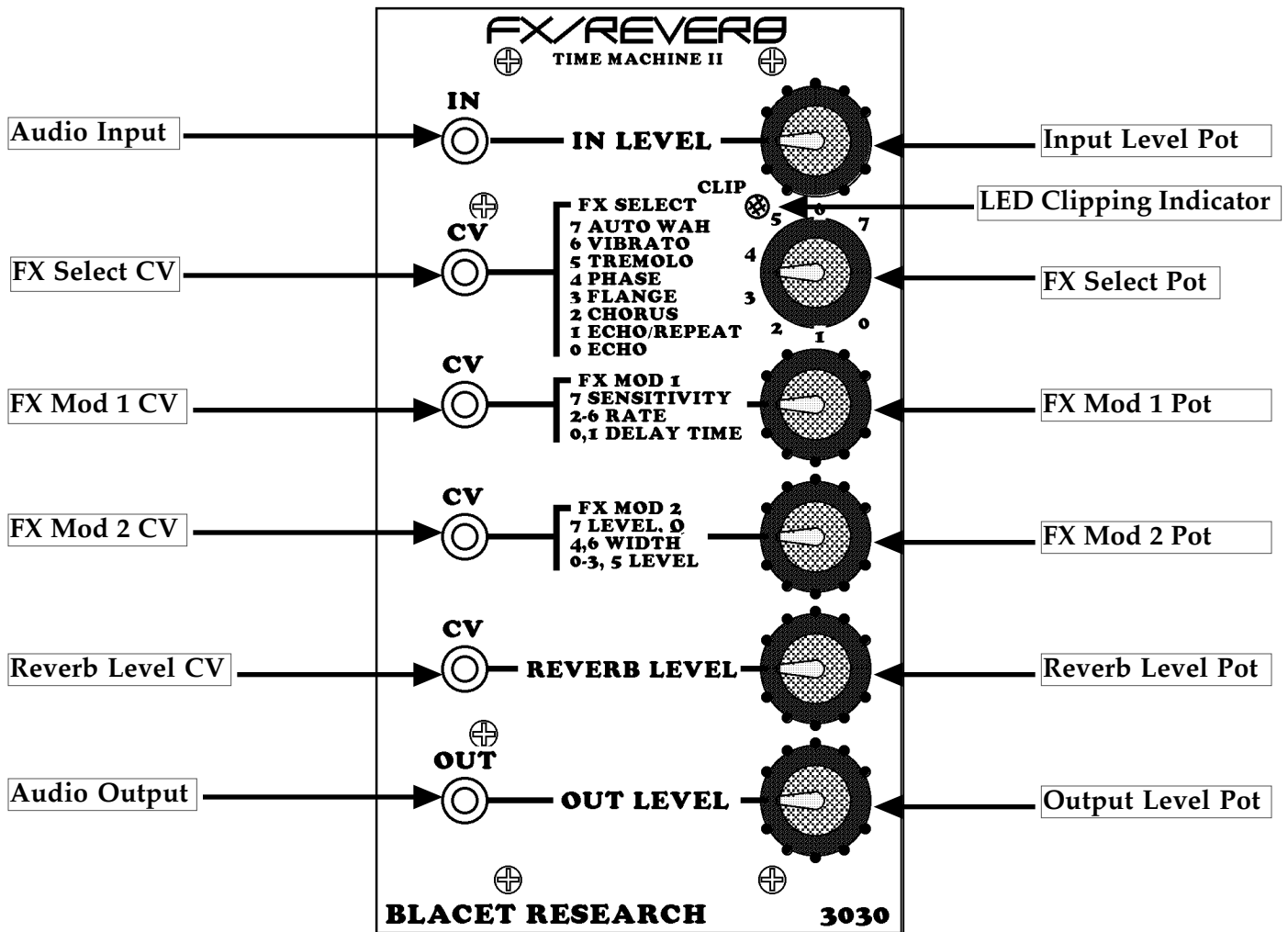
Introduction

The Blacet FX3030 is a DSP dual effect module featuring eight different classic effects, each coupled with a reverb effect.

The effects are: echo (delay), echo with repeats (regeneration), chorus, flanger, phase shifter, tremolo, vibrato, and auto wah, which is a level dependent filter.

Four voltage control inputs can be used to select the effect type, two parameters of the effect and the reverb level.

Input and Output Level controls allow matching the module to a wide range of signal levels typical in a modular synthesizer environment. An LED monitors the clipping level.



Controls and Operation

Operation of the FX3030 is fairly straight forward. Connect an audio signal to the IN jack and connect the OUT jack to a mixer, amp or other module as required. Start with the Level controls at midway and adjust to avoid clipping and for adequate output level. Clipping will occur at lower levels if the Reverb and Effect Levels are turned up to maximum.

Select the Effect with the FX Select knob or via a control voltage. Note that a small pop will occur during switching. If this is a problem, temporarily turn down the output level or include a VCA in the output chain to allow making the transition while the VCA is off.

The FX Mod 1, FX Mod 2 knobs and CVs control various aspects of the effect selected. In most cases, this includes the effect level. Typically, these controls create little or no noise in operation. An exception is the Delay Time, which will have some noticeable transition artifacts, especially at maximum level. See the table below for more information:

Program #	Description	FX Mod 1	FX Mod 2
0	Echo+Reverb	Delay Time 0-1S	Echo Level
1	Echo/Repeat+Reverb	Delay Time	Echo Level/ # of repeats
2	Chorus+Reverb	LFO Speed	Chorus Level
3	Flange+Reverb	LFO Speed	Flanger Level
4	Phase Shifter+Reverb	LFO Speed	Sweep Width
5	Tremolo+Reverb	LFO Speed	Tremolo Level
6	Vibrato+Reverb	LFO Speed	Vibrato Width
7	Auto Wah+Reverb	Sensitivity	Level/Filter Q

The Reverb Level can be set with the knob or a control voltage. At high levels of reverb, you may have to lower the input level to avoid clipping.

All CV inputs allow 0-10V control range and will respond to sub audio frequencies only; such as those from an LFO, ADSR, joystick, velocity signal from a MIDI converter, etc.

Power

Power Input Connector PWR: This PCB connector requires a source of regulated +15Vdc and -15Vdc power to run the module. Use a Blacet PS505 supply or the equivalent.

Connections to this connector should be made only when the power supply is OFF and the connector must be positioned correctly on the pins. As using the wrong supply can cause damage to the unit, please contact us if you have any questions! Do not attempt to use "wall warts" to power the module.

Specifications

Delay Time: 0 to 1S

Delay Repeats: about 10

Front Panel Size: 5.25" H x 3" W

Module Depth: 4.6"

Input/Output Jacks: 3.5 mm

Power: +15 Vdc @ 87mA, -15 Vdc @ 25mA