

SIGNAL BLENDER STEREO

OLD BLOOD NOISE ENDEAVORS +29

instruction manual



SIGNAL BLENDER STEREO

OLD BLOOD NOISE ENDEAVORS +29

instruction manual
page 02



Signal Blender is a mono or stereo parallel effects chain creator, made in collaboration with 29 Pedals. Your instrument signal goes in at the input, then forks out into multiple paths, allowing parallel blending of two effects loops (A and B) and the original input (Clean) at the output. Experience the joys of parallel routing, or expand to other use cases, like splitting a signal to three different outputs, or combining three unique signals into one output. A simple control set allows for grab-and-go utilitarianism.

The **A footswitch** engages the A effects loop. Tap it to latch the on/off state, or hold it for momentary action. Signal is sent at full strength through the Send A jack. The **A volume knob** determines the amount of signal coming back into Signal Blender through the Return A jack, with up to 10dB boost available. The **phase invert toggle** allows phase inversion on the return when the toggle is in the up position, accounting for pedals that flip the phase. The **trails toggle** in the up position prevents the Return from switching off, allowing time-based effects to trail after A is switched off; in the down position, send and return are switched together.

The **B loop** functions in the same way as **A**.

The **Clean** footswitch determines whether the original clean input signal is sent to the main output or not. The **Clean volume knob** determines the volume of that signal when on, with up to 10dB boost available.

Some notes about Signal Blender's bypass:

- If all sections are off, and trails switches are off, Signal Blender becomes true bypass from input to output.
- If all sections are off, and either or both trails switches are on, by default, Clean will automatically turn on to allow some signal to pass through to the output. This setting can be configured by holding the Clean footswitch and switching either Trails toggle - set to Trails on (up position), it will keep this setting, or set to Trails off (down position) to disable the auto-on function.

The pedal is stereo with TRS cables, or mono with TS cables. At the input, it can be split mono-to-stereo using an internal switch. On the internal dipswitch, down is full stereo/full mono mode, up is MISO (mono to stereo mode). The pedal comes with the Stereo mode enabled. You only need to change it if you are going into the Blender with a mono signal and then want to use stereo pedals in the loops and have a stereo out. Otherwise, leave the dipswitch in the down position for full stereo AND mono applications.

NOTE: If you are using the pedal in stereo mode and have a stereo output and you plug a mono pedal into one of the loops, the output of that channel will only be in one side of the stereo field as it is a mono signal. You can use a TS to TRS adapter (sold separately) to convert the output of your mono pedal so that you will have that loop's output in the full stereo field.

Signal Blender requires 500mA 9V DC center negative power.



SIGNAL BLENDER STEREO

OLD BLOOD NOISE ENDEAVORS +29

instruction manual
page 03



MIDI FUNCTIONS

With the exception of phase inversion and mono-in-stereo-out, all of Signal Blender's switching can be controlled via CC message (see the table below).

The MIDI In and Thru jacks are 3.5mm TRS Type A connections. MIDI In receives messages for Signal Blender to process. MIDI Thru repeats those messages to allow daisy chaining of MIDI devices.

By default, Signal Blender is on Channel 1. The Channel can be changed via CC (see below).

FUNCTION	CC#	VALUES
A Switch	15	OFF: 0-63 ON: 64-127
B Switch	16	OFF: 0-63 ON: 64-127
Clean Switch	17	OFF: 0-63 ON: 64-127
Trails A Switch	18	OFF: 0-63 ON: 64-127
Trails B Switch	19	OFF: 0-63 ON: 64-127
Assign All Bypass Switches	20	0: Clean Off, B Off, A Off 1: Clean Off, B Off, A On 2: Clean Off, B On, A Off 3: Clean Off, B On, A On 4: Clean On, B Off, A Off 5: Clean On, B Off, A On 6: Clean On, B On, A Off 7: Clean On, B On, A On
Allow Kill Dry	21	OFF: 0-63 (Default mode, clean turns on automatically when all sections are off in trails mode) ON: 64-127 (Clean always matches user assignment)
MIDI Channel	102	1-16

