

STEREOMAKER

USER'S MANUAL

An ABY pedal typically receives the signal from a guitar or other instrument and splits it into two outputs. The *StereoMaker* is fully buffered and packed with features like: soft touch JFET switching, transformer isolated outputs, pseudo stereo effects, 180° phase reverse and ground lift.

In Stereo mode the *width* and *volume* controls are enabled to optimize a pseudo stereo sound. The *PAD* switch makes it possible to attenuate line level signal to instrument level.

OUT L OUT R TR-TRS	Output jack: unbalanced (TS) / balanced (TRS) / Phase-shifted unbalanced (TS). LED indicates when active. Impedance: 600 Ω
PAD	When pushed: -12dB attenuation for both outputs.
INPUT TS	Input jack: unbalanced (TS). Impedance: 1 M Ω
GND LIFT	When pushed: Ground Lift, OUT R only.
DC IN 9 - 18V	DC jack for supply voltage, any polarity accepted. Draw: 35mA. Internal battery (optional): 9V
WIDTH	Stereo width control, for STEREO mode only.
VOLUME	Volume control, for STEREO mode only.
STEREO	Soft touch footswitch: STEREO mode.
LEFT OR RIGHT	Soft touch footswitch: LEFT or RIGHT mode.

PSEUDO STEREO EFFECT (Y)

A simulated stereo effect is generated using analog complementary comb filters. This unique implementation makes it possible to simulate the mixture of direct and reflected sound waves in a room in a very realistic way. This effect is 100% analog and safe to mix back into mono, no side effects!

GROUNDING / GROUND LIFT

When connecting mains powered equipment to the *StereoMaker* there is a risk for Ground Loops. Hum/noise problems can normally be avoided by a proper grounding scheme. The *StereoMaker* has several options for avoiding hum/noise. Grounding problems might take some experimentation to solve.

- If possible, use balanced TRS-cables for the outputs L and R.
- Activate GND LIFT feature: this will break the ground connection between the two outputs.
- Inside the pedal there is a jumper to select *Default* or *Full Ground Lift* mode. Full Ground Lift means that both L and R outputs are lifted from the common ground when Gnd Lift is button activated. This might be useful when the instrument input also is grounded.
- If hum/noise problems are difficult to solve, try also to power on battery. In rare cases, power supplies can generate ground loops.

OUT-OF-PHASE SIGNALS

Sometimes reverse phase effects can occur resulting in a “non-distinct”, “hollow sound”. The reason might be that two guitar amps has been used with different number of gain stages. The *StereoMaker* has a built-in 180° polarity reverse circuit to phase-match amps. Just pull the output plug half way out to get the reverse phase.

