Boss Bow Two

http://busycircuits.com/alm027

The Boss Bow Two is an 8 way bidirectional voltage controlled switch with 3 different control modes for routing CV or audio signals around a system. Address mode allows for instant routing manually via the offset or external control voltage, step mode sequentially advances I/O following signal at the clock input and the strobe mode combines the two, holding the addressed position until the next clock pulse. The unique features and flexibility of the 'BB2' allow for a wide range of potential patches to be created.

ALM027 / Boss Bow Two

TECHNICAL SPECIFICATIONS

Power: +12V 40ma / -12V 10ma
Size: 8HP
Depth: 38mm

Module Installation

With your modular synth powered **off** connect the 10 pin end of the supplied standard eurorack power connector cable to the 10 pin power connector on the rear of the module.

The red stripe on the cable should be orientated to match the text 'RED' marked on the rear of the module near the power connector (this is -12V). Connect the other 16 pin end of the cable to your eurorack bus board (Refer to your bus board documentation for the correct orientation).

You are now safe to power up your modular synth. If the module fails to power up check you have the power cable correctly orientated and have carefully read this manual.

SINGLE SIGNAL I/O
Input or output connecting to or from the I/O jacks on the right side. Accepts both CV and audio.

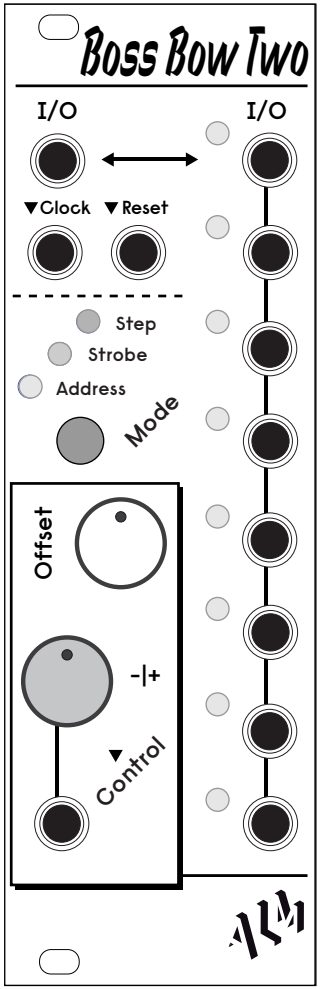
CLOCK / RESET INPUTS
A clock signal advances through I/Os in step mode and guides CV selection in strobe mode. Reset will return the BBT back to the first I/O upon receiving a gate signal in step mode and disables / enables the switch in strobe and address modes.

MODE BUTTON
Switches the current operating mode of the BBT from step to strobe to CV address mode.

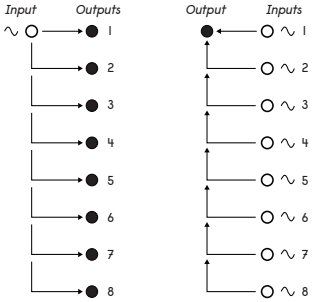
BIPOLAR OFFSET
Adds or subtracts voltage from the control signal. Combines with control input for manual control and adjustment.

CONTROL INPUT / ATTENUATOR
Voltage at this input selects an I/O in address and strobe modes. In step mode positive voltage advances downwards and negative voltage advances upwards.

Use the attenuverter and offset to dial in desired CV response.



EIGHT MAPPABLE I/Os
Inputs or outputs connecting a signal route to or from the I/O jacks on either side. I/Os accept both CV and audio. I/Os are switched by the control section with each LED indicating the current connection.



MODES
Current mode is indicated by its associated LED.

Step : Advances one by one through the I/Os with every pulse at the clock input. The offset control or CV input sets the direction of the stepping with the reset input returning back to the first I/O.

Strobe : Selects an I/O based on the voltage level or offset position with respect to the clock input. Upon receiving a high gate, selection will move to the I/O matching the current voltage level and will hold that position until the next pulse.

Address : Selects an I/O based on the voltage level or offset position. Address will immediately change I/Os and sweeps through all jacks. Rising voltage moves the selection downward with falling voltage going back to the top.

SUPPORT

Need help? Email your questions to help@busycircuits.com

For additional info, downloads and firmware updates please visit the ALM website at busycircuits.com

Follow @busycircuits on Twitter and Instagram for news, tips and ideas.

Visit 'ALM TV' on youtube.com for module video tuorials and demos.

LIMITED WARRANTY

From the date of manufacture this device is guaranteed for a period of 2 years against any manufacturing or material defects. Any such defects will be repaired or replaced at the discretion of ALM. This does not apply to;

•Physical damage arising from mistreating (i,e dropping, submerging etc).

•Damage caused by incorrect power connections.

•Overexposure to heat or direct sunlight.

•Damage caused by inappropriate or misuse.

•Use of incorrect or non official firmware

No responsibility is implied or accepted for harm to person or apparatus caused through operation of this product. By using this product you agree to these terms.

ALM027 manual version: 0.1