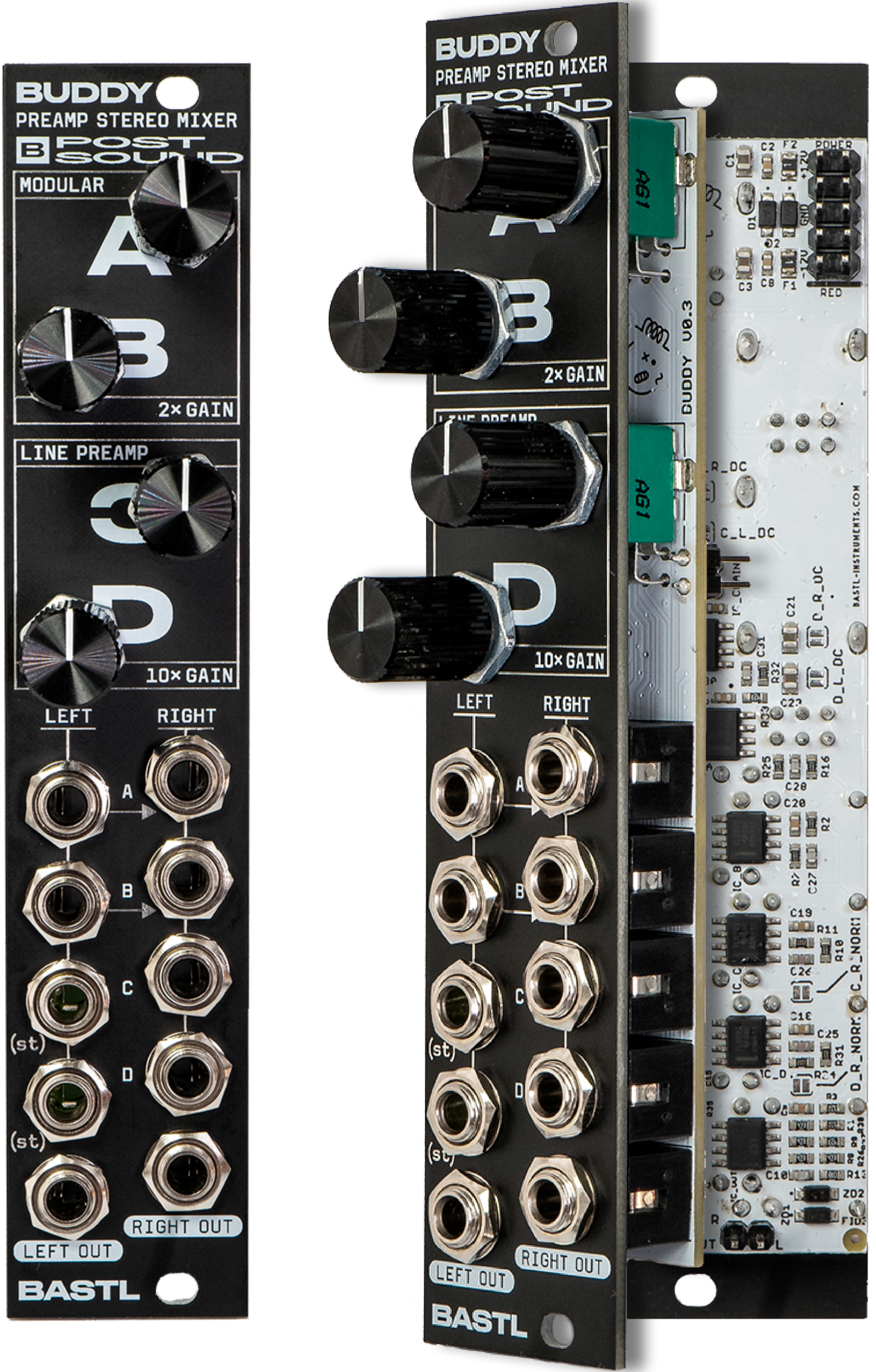


BUDDY

PREAMP STEREO MIXER



BASTL INSTRUMENTS

BUDDY

Buddy is a four-channel eurorack stereo mixer optimized for hybrid setups. Channels A and B are optimized for eurorack sources (either mono or stereo) with a slight boost ($\times 2$ / +6dB). Channels C and D are line-level pre-amps that can boost the signal up to $\times 10$ / +20dB and feature stereo TRS jack inputs for directly connecting desktop units without further adaptors. All channels feature a clean boost via the high-quality, low-noise NE5532 op-amp (same as on the Dude), which delivers smooth overdrive - that can be used to overdrive clean stereo signals. Several Buddy mixers can be chained via jumper cables on the back to expand the number of channels without losing precious inputs.

Setup examples

- Use your eurorack as an effects processor! Buddy will boost your desktop gear to correct levels and be your perfect aux send mixer.
- Use Buddy as a stereo mixdown module for all your stereo/mono voices.
- Use external stereo sound processors with eurorack voices. Buddy will boost their levels back to modular levels.
- Use the Buddy stereo mixdown attenuator to lower the level for line-level devices.

Technical details

- 5hp
- 10pin protected eurorack power connector
- depth 30mm (with power cable attached)
- current consumption +12V: <27mA, -12V: <27mA

Features

- Channels A and B:
 - DC coupled
 - 100k input impedance
 - gain $\times 2$ / +6dB,
 - left input normalized to right channel
- Channels C and D:
 - AC coupled
 - 10k input impedance
 - gain $\times 10$ / +20dB
 - stereo TRS 3.5mm jack input or 2 \times mono TS 3.5mm
 - solder jumpers to convert to DC coupled
 - solder jumpers to normalize left input to right channel
- Soft Zenner clipping at 10vpp on mixdown stages
- NE5532 op-amp for low-noise pre-amp
- 1k output impedance
- Chaining back jumpers L/R inputs and L/R outputs:
Only when Buddy outputs are not patched, the mixdown is sent to the output chain jumpers (patch configurable mixdowns).

MANUAL

BUDDY
PREAMP STEREO MIXER

B POST SOUND

MODULAR

A **1**

B **1**

2× GAIN

LINE PREAMP

C **2**

D **2**

10× GAIN

LEFT RIGHT

A

B

C

D

(st)

(st)

1

2

3

RIGHT OUT

LEFT OUT

BASTL

DESIGNED AND PRODUCED IN CZECH REPUBLIC

BUDDY_V1.0

4

5

6

7

8

9

10

FID1

C1

C2

F2

POWER

D1

D2

GND

+12V

-12V

RED

CHAIN_IN

C22

C_R_DC

C_L_DC

C24

R30

C29

IC_CHAIN

C21

D_R_DC

D_L_DC

R39

R38

C14

R28

C4

R33

C23

D_L_DC

R27

C5

IC_A

R25

C28

R16

FID2

R15

C17

IC_B

R7

C27

R2

R18

C12

R20

C19

R11

C-ST_NORM

R19

C16

IC_C

C26

R10

C_R_NORM

R23

R21

C11

C18

C25

R31

D-ST_NORM

R22

IC_D

R24

R3

D-R_NORM

R6

R5

R29

R36

R4

R12

R3

R35

R35

C9

R8

R9

R38

R26

R37

R13

ZD3

C7

IC_OUT

C10

ZD1

ZD2

ZD4

IC_OUT

ZD1

ZD2

FID3

CHAIN_OUT

BASTL-INSTRUMENTS.COM

MANUAL

! POWER !

Before connecting the ribbon cable to this module, disconnect your system from power! Double-check the polarity of the ribbon cable and that it is not misaligned in any direction. The red wire should match the -12V rail, both on the module and the bus board.

! please make sure of the following

- you have a standard pinout eurorack bus board
- you have +12V and -12V rails on your bus board
- the power rails are not overloaded by current

Although there are protection circuits on this device, we do not accept any responsibility for damages caused by the wrong power supply connection. After you've connected everything, double-checked it, and closed your system (so no power lines can be touched by hand), turn on your system and test the module.

1 Channel A and B

Channels A and B serve for eurorack sources (mono or stereo) with a slight boost ($\times 2$ / +6dB). They are DC coupled with 100k input impedance and the left input is normalized to the right input – if only a mono source is connected, it should be plugged into the left channel, and a copy of this mono signal goes to the right channel.

2 Channel C and D

Channels C and D are line-level pre-amps that can boost the signal up to $\times 10$ / +20dB and feature stereo TRS jack inputs for direct integration with your desktop units without further adaptors. They are AC coupled with 10k input impedance.

3 Outputs

Left and right mixdown outputs are treated with soft Zenner clipping at 10vpp in the mixdown stages, and they have 1k output impedance.

4

Several Buddy units can be chained to obtain more stereo mixing channels. Use these jumpers to connect to CHAIN_OUT headers of the previous Buddy in the chain. Match L labeled and R labeled jumpers on both headers.

5

Use these headers on early Buddy in the chain. Signal will be sent to these headers only when the outputs are NOT connected. This setup allows flexible patch configurable mixdown configurations. Match L labeled and R labeled jumpers on both headers.

6

Channel C can be configured to have AC input by closing solder jumpers for both left and right channels.

7

Channel D can be configured to have AC input by closing solder jumpers for both left and right channels.

8

The normalization scheme of channel C can be converted to the same as on channels A or B by cutting the C_ST_NORM and closing the C_R_NORM solder jumpers.

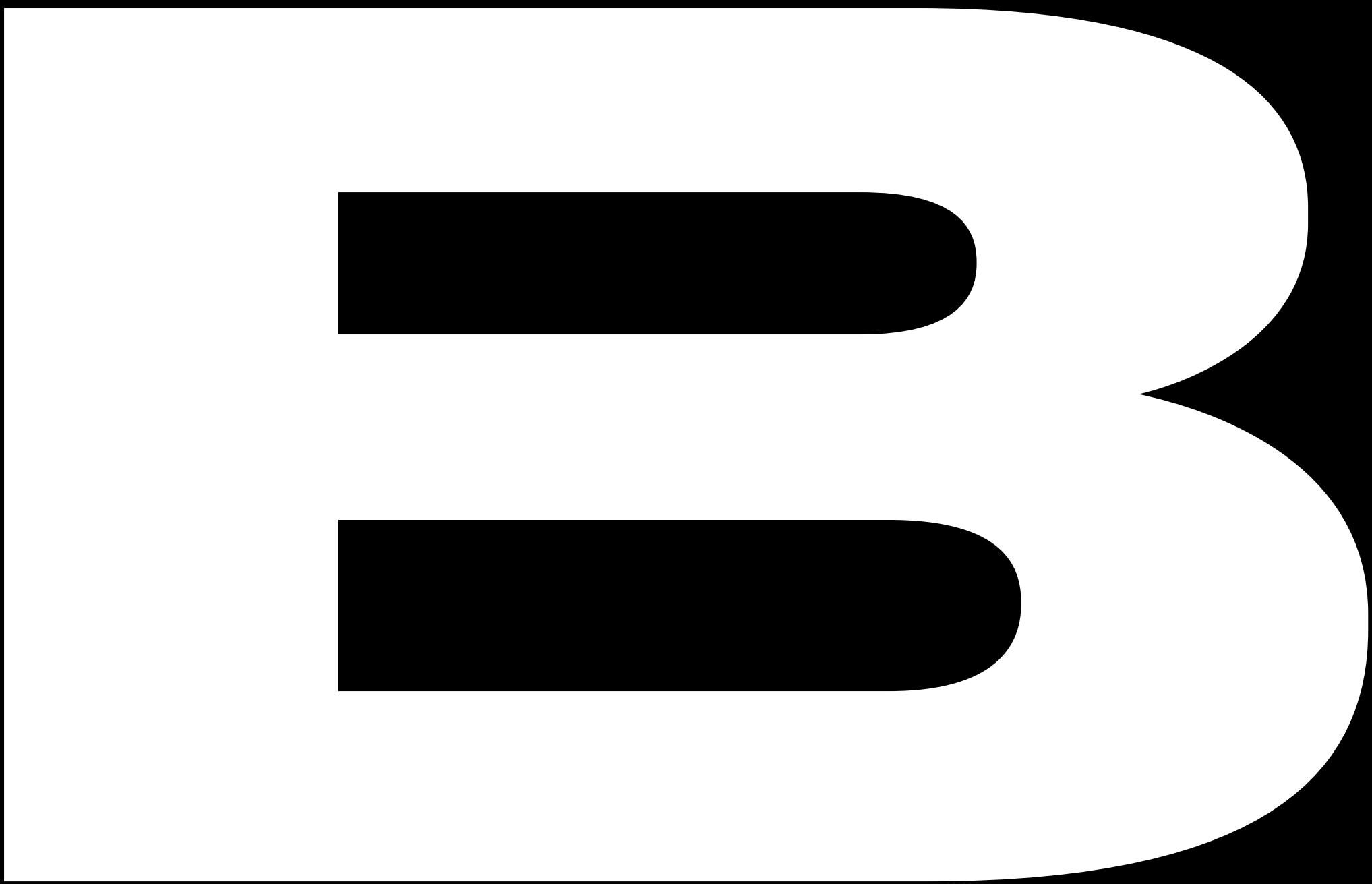
9

The normalization scheme of channel D can be converted to the same as on channels A or B by cutting the D_ST_NORM and closing the D_R_NORM solder jumpers.

BASTL

more info
and video tutorials

www.bastl-instruments.com

A large, stylized white letter 'B' is centered on a solid black rectangular background. The 'B' has a thick, rounded top and a thick, rounded bottom. The vertical stem of the 'B' is composed of two horizontal bars, each with a rounded right end, stacked vertically.