

## additional features

- +10 dB pre-FX gain per channel
- Mix or individual output of each FX channel
- Solo cycle footswitch for channel isolation
- Phase inversion switch to reduce phasing and enhance stereo output
- Half-normalled FX sends for buffered copies
- 3.5mm FX loops switchable between pedal and eurorack levels

## technical specs

- Power: 9VDC 200mA negative center 2.1mm
- Input and FX Returns Impedance (1/4-in): 1Mohms
- Output and FX Sends Impedance (1/4-in): 1kohms
- Control Voltage Input: -5V to 5V (10VPP)
- Dimensions: 5.9 x 3.9 x 2.15 in
- Weight: 15.5 oz (440 g)

## internal dip switches

The 3.5mm send & return jacks can be changed to accept pedal/line level signals, rather than eurorack signals. This is useful if you have Boredbrain Patchulator 8000 and wish to patch directly into effects pedals using 3.5mm patch cables, or if you have other line-level effects using 3.5mm jacks.

### DIP SW 3.5mm

#### ON-EURORACK



#### OFF-PEDALS

Simply open the unit and locate the 4 dip switches on the circuit board. The sends and returns can be independently changed for each 3.5mm FX loop, although typically the send and return will be changed together. Move the corresponding switch down to the OFF position for pedal/line level signals.



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## limited warranty

This product is guaranteed to be free of functional defects for a period of 180 days from original purchase date. Proof of purchase is required for any warranty claim. Return shipping costs are covered by Boredbrain Music within the first 30 days of purchase only. Products with obvious signs of abuse or that have been modified by the end user, may not be covered under this warranty, at the discretion of Boredbrain Music.

## service & inquiries

If you experience a problem with your Boredbrain product, or just want to share something interesting with us, please contact us at the link below and be sure to include your name, original purchase date, and a description of the problem you are experiencing. Then just hold tight, as we return most inquiries within 48 hours. We want to work with you to resolve your issue as soon as possible. Thanks.

RICHMOND, VA | [www.boredbrainmusic.com](http://www.boredbrainmusic.com)

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Thanks for purchasing this product!

## Boredbrain Transmutron

The Transmutron Dual FX Loop Crossover Filter provides unique ways to create and dynamically control combinations of effects, while integrating pedals and eurorack modular.

- split signal into two frequency bands
- process with pedals, eurorack and other effects
- crossover, crossfader and resonant notch modes
- control splitpoint with CV and expression pedal
- select between 12, 24 or 48 dB/oct filter slopes
- limit bandwidths with hi & low cut filters



### FISSION

The SPLITPOINT controls the crossover frequency to define the bands for each FX channel.

\*as the SPLITPOINT moves up, the crossover frequency moves down



### FUSION

The SPLITPOINT adjusts the pre-FX level balance between the two channels like a crossfader.

\*this pre-FX crossfader uses an equal-power curve



### FALLOUT

The SPLITPOINT moves a wide, resonant notch filter across both pre-FX channel signals.

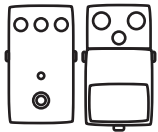
\*the filter peaks increase with steeper slope selection

\*The frequency range of the SPLITPOINT is relative to and works within the LOW and HI CUT filters in both FISSION and FALLOUT modes

# TRANSMUTRON

## DUAL FX LOOP CROSSOVER FILTER

## USER GUIDE



### PEDALS 1&2

FX loop send & return connections for guitar pedals and line-level effects processors - after internal filtering/crossfading, gain, and EURO FX loops (TS/mono)



### DC 9V

Power input: DC 9V 200mA, 2.1mm (negative tip)



### LOW CUT FILTER

Adjusts the cutoff frequency of the low cut filter from 20 Hz to 500 Hz - also defines SPLITPOINT lower limit in FISSION and FALLOUT modes



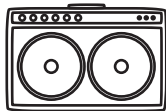
### GAIN 1&2

Adjusts post-filtering/pre-FX levels with up to +10 dB of boost



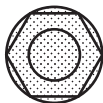
### MAIN OUT

Mix output of Ch1 and Ch2 after all processing - switches to Ch1 solely if a plug is connected to 2 OUT (TS/mono)



### 2 OUT

Signal output of Ch2 solely after all processing - used for stereo amplification or multi-channel recording (TS/mono)



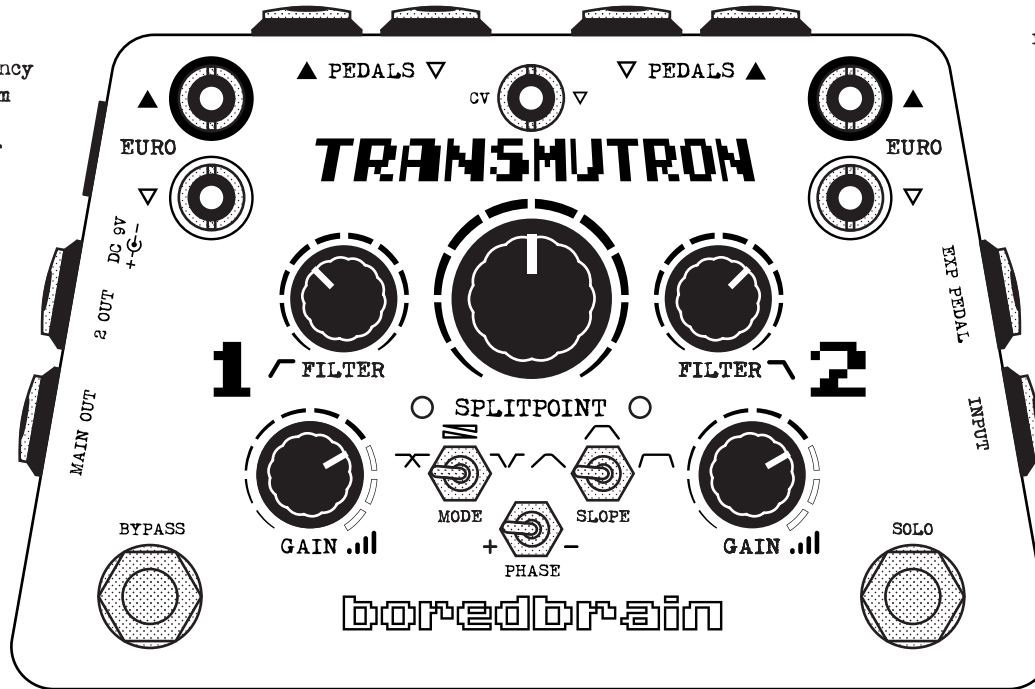
### BYPASS

Routes the input signal directly to the output(s) bypassing all processing and FX loops (buffered)



### SPLITPOINT

Adjusts either the crossover frequency, the crossfader balance, or the middle frequency of the resonant notch filters - depending on the selected mode



### MODE

Selects one of three operational modes: FISSION (crossover), FUSION (crossfader) or FALLOUT (wide resonant notch filter)



### SLOPE

Selects one of three slopes for all filters: 12 dB/oct (2-pole), 24 dB/oct (4-pole) or 48 dB/oct (8-pole)

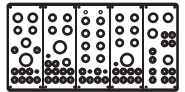


### PHASE

Selects normal or inverted phase for Ch2 to fix phase issues or enhance stereo image (when using 2 OUT)

### EURO 1&2

FX loops send & return connections for eurorack-level processing - after internal filtering/crossfading and gain, but before PEDALS FX loops (TS/mono)



### CV IN

Input to automate the SPLITPOINT using control voltage signals from -5V to +5V (10VPP) - the zero volt offset is defined by the knob or expression pedal position



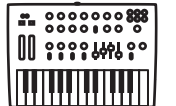
### HI CUT FILTER

Adjusts the cutoff frequency of the hi cut filter from 2 kHz to 20 kHz - also defines SPLITPOINT upper limit in FISSION and FALLOUT modes



### INPUT

Primary signal input, which is duplicated and sent to both Ch1 and Ch2 for parallel processing (TS/mono)



### EXP PEDAL

Expressional pedal input for foot control of the SPLITPOINT (disables knob)



### SOLO

Cycles between three solo states: Ch2 solo, Ch1 solo, or both (default)

