DR II

USER MANUAL

Thank you

Thank you for purchasing Dual Rectifier II module.

Dual Rectifier II as the name suggests is our upgrade to our Dual Rectifier.
We listened to you and we improved our Dual Rectifier while keeping what made it successful.

Like its predecessor Dual Rectifier has a positive rectifier in its upper part and a negative rectifier in its lower part.

Dual Rectifier can therefore be used to generate complex waveforms, a frequency doubling, an envelope follower, distortion, clock doubling and more.

And best of all, it's only 2HP!

Summary

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1

Unplug you rack power from the main.

2

As shown on the sketch on the right, align the red line from the power ribbon cable with the line draw next to the power connector.

3

Check twice the alignment of the ribbon cable.

4

Plug you rack power to the main and power you rack.

5

Test your module, if it does not work as expected, please contact us at :
contact@blacknoisemdodular.com

General Specifications

Power Consumption
+12V : 5mA
-12V : 3mA
+5V : 0mA

**Panel Width**
2 HP

Module Depth
20mm - skiff friendly

Warranty

BLACK NOISE warrants is products to be free of defects in materials or workmanship and to be conform with the specifications at the time of shipment for a period of two years from the date of purchase.

During that period any malfunctionning or damaged units will be repaired, service and calibrated into your workshop. This warranty does not cover any problems resulting from damages during shipping, incorrect installation or power supply, abusive treatement, or any other obvious user-inflicted fault.

If your product warranty is passed, it still can be serviced as long as parts are available in our workshop. We reserve the right to charge for labor, parts and transit expenses where applicable.

Before sending your product to our workshop please contact us for RMA and details. Any unsolicited parcel will be rejected and or returned. The postage to our workshop is on the customer. The return of your module is on us. BLACK NOISE can not take any responsability for damages caused during transport.
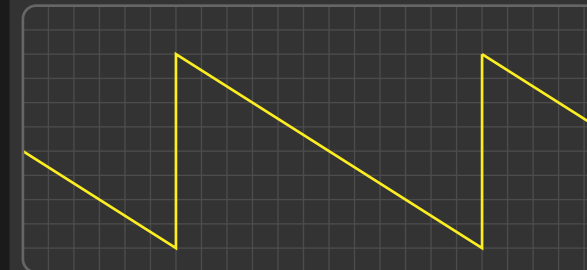
YES

NO

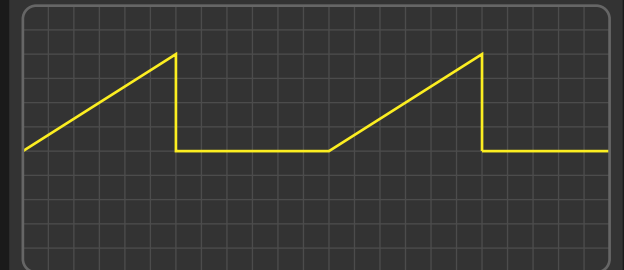DRII

IN

INV

H-R

F-R

IN

INV

H-R

F-R
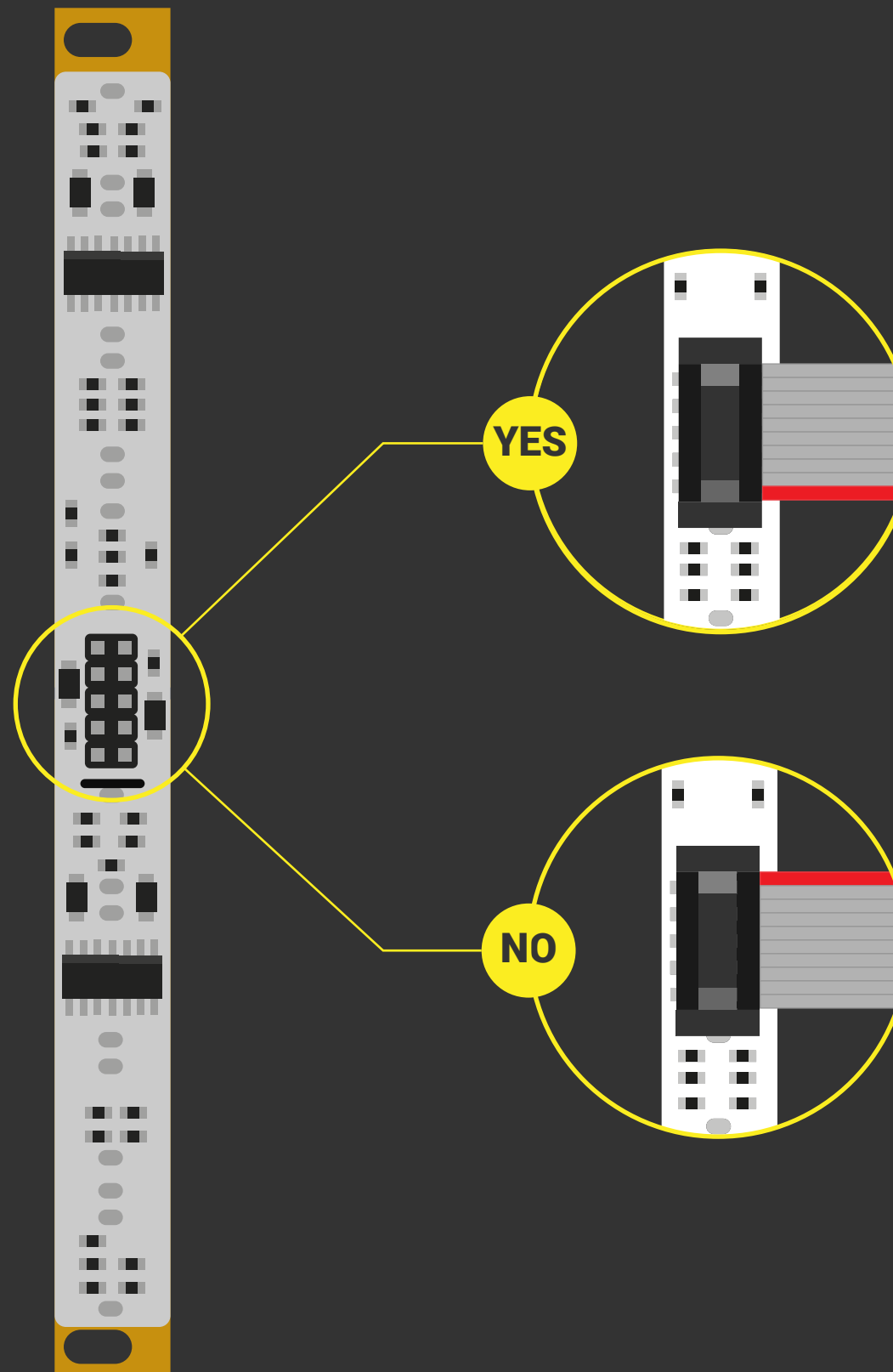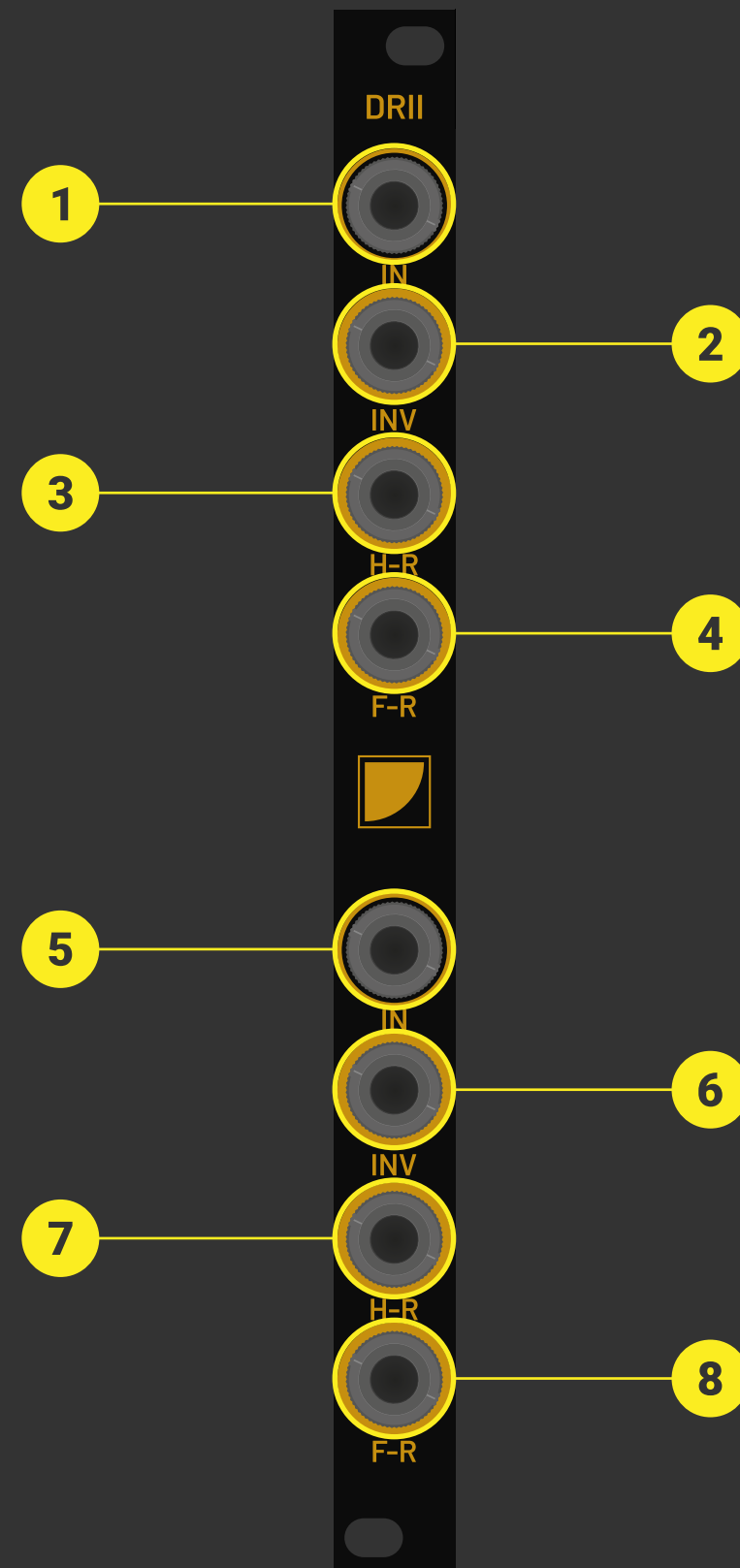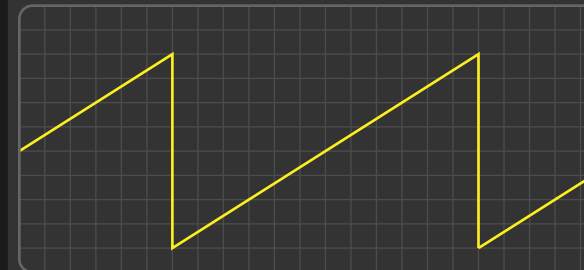
1 Input 1

Signal send thru input 1 will be processed by the upper section of the module.
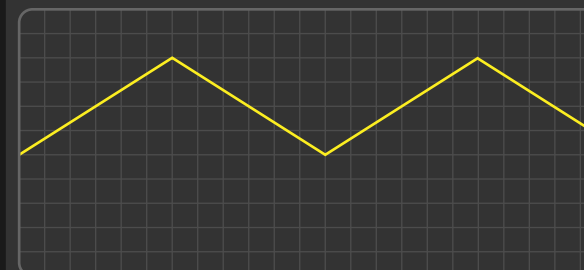
2 Inverted 1
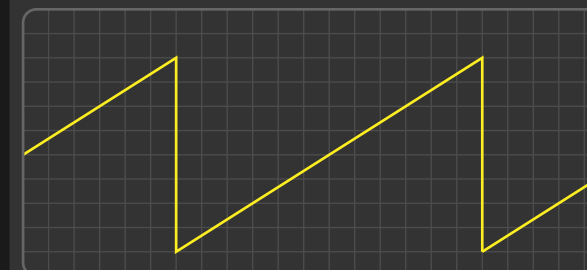
Inverted copy of input 1.

3 Positive Half-rectifier

Signal from input 1 below 0V will be remove.

4 Positive Full-rectifier
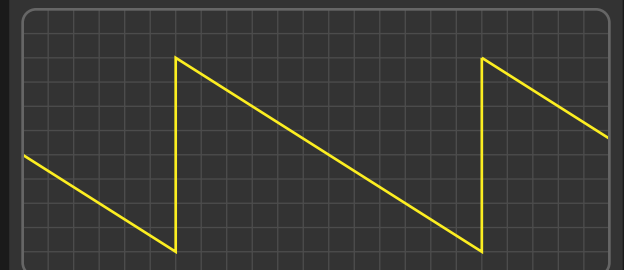
Signal from input 1 below 0V will be rectified.

5 Input 2

Signal send thru input 2 will be processed by the lower section of the module.
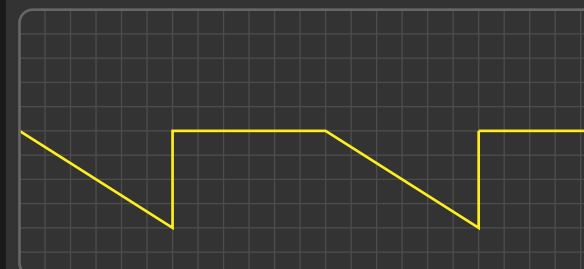By default input 2 is normalised to Inverted 1 output.

The inverted output 2 can therefore be used as a copy the input 1

6 Inverted 2
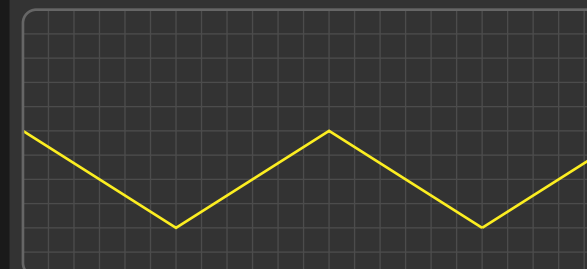
Inverted copy of input 2.

7 Negative Half-rectifier
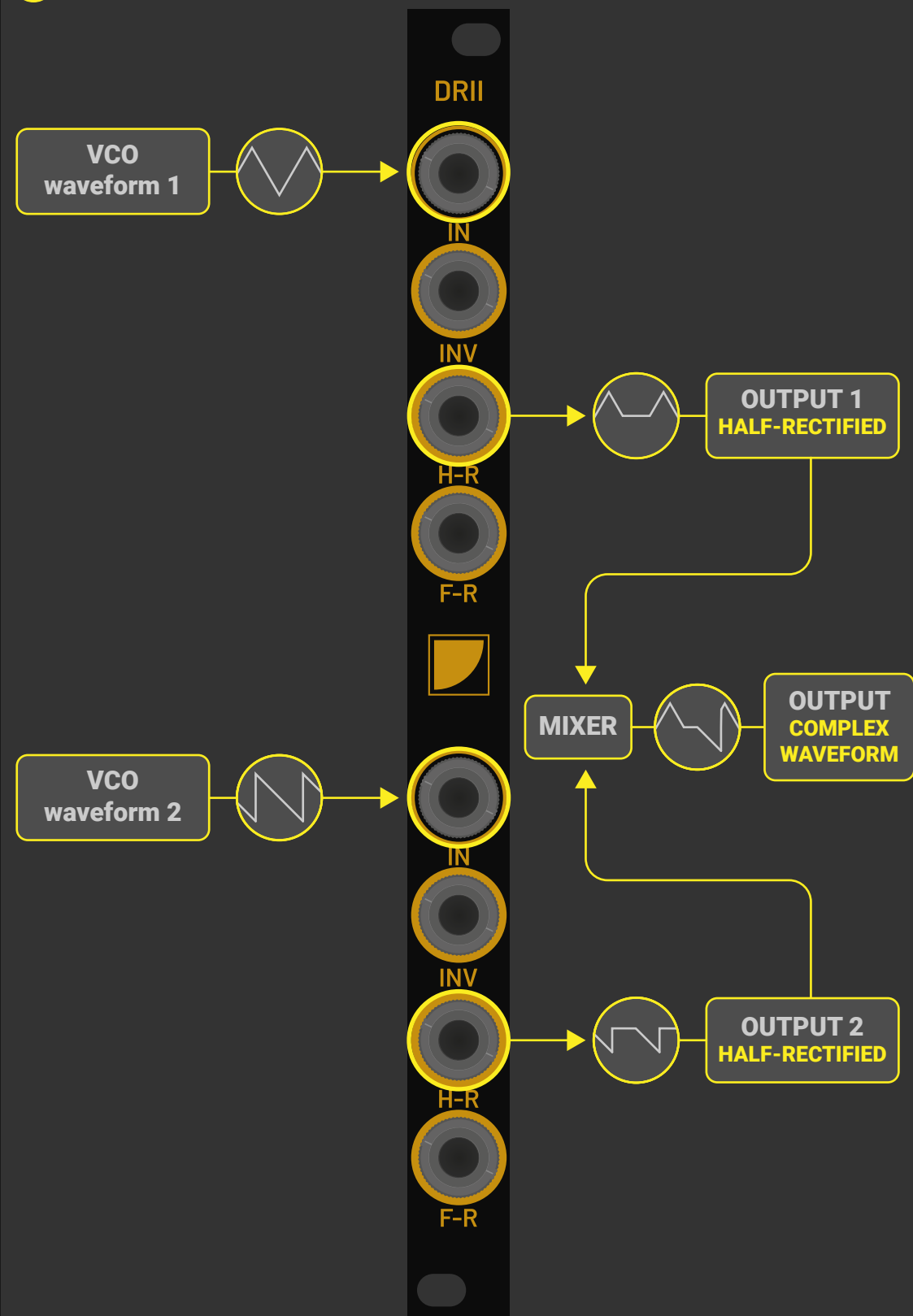
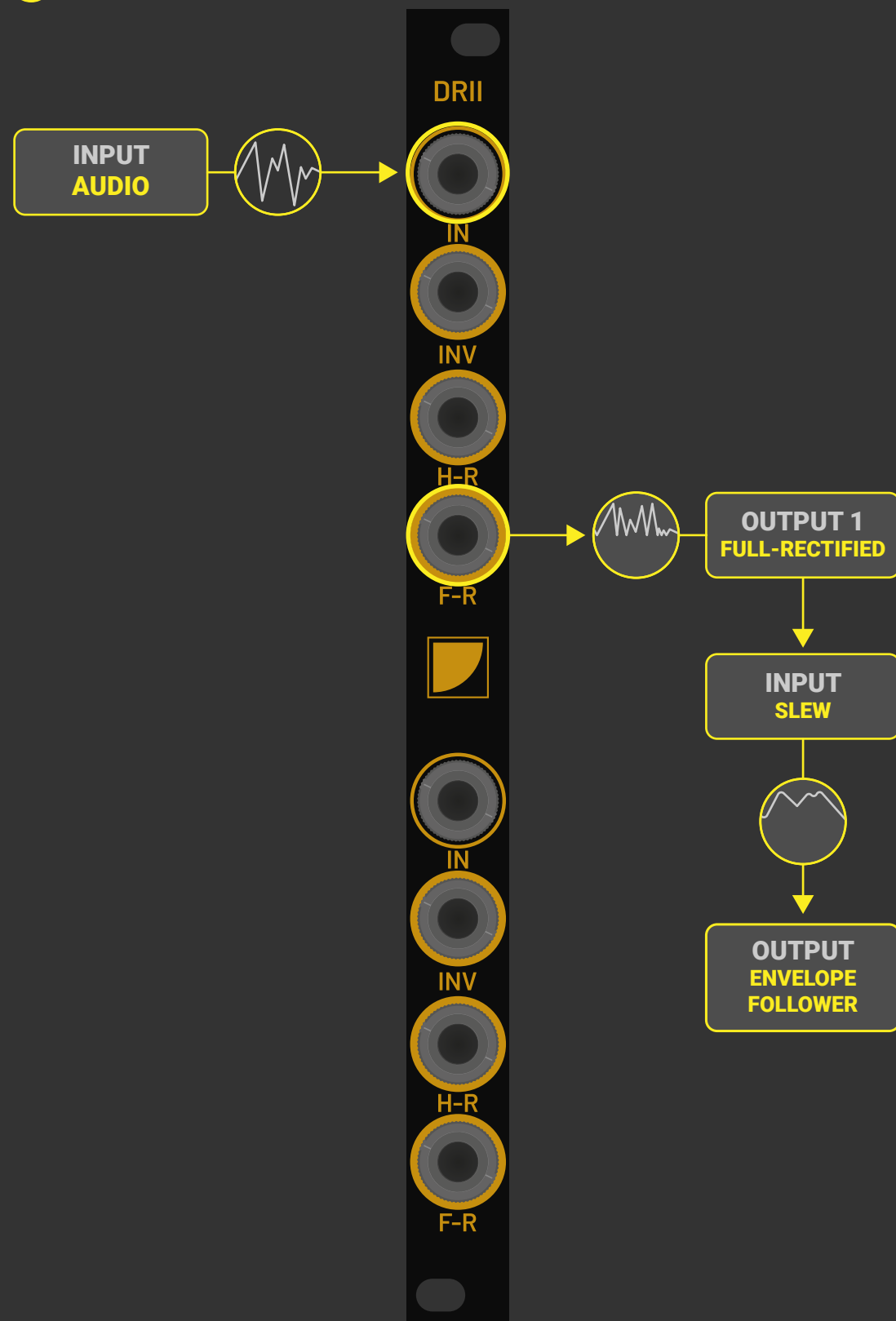Signal from input 2 above 0V will be remove.

8 Negative Full-rectifier

Signal from input 2 above 0V will be rectified.

1 Complex Warveform/CV generator

DRII

VCO waveform 1 → IN

INV

H-R → OUTPUT 1 HALF-RECTIFIED

F-R

H-R → OUTPUT 1 HALF-RECTIFIED

→ MIXER → OUTPUT COMPLEX WAVEFORM

VCO waveform 2 → IN

INV

H-R → OUTPUT 2 HALF-RECTIFIED

F-R

2 Envelope Follower

DRII

INPUT AUDIO → IN

INV

H-R

F-R → OUTPUT 1 FULL-RECTIFIED

INPUT SLEW

OUTPUT ENVELOPE FOLLOWER

IN

INV

H-R

F-R

3 Triangle frequency doubler

DRII

VCO Triangle → IN

INV

H-R

F-R → OUTPUT 1 DOUBLED FREQUENCY

IN

INV

H-R

F-R

4 Distorsion

DRII

INPUT
VCO

IN

INV

H-R

OUTPUT
**HALF OR FULL
RECTIFIED**
*Depending
the color you
looking for*

F-R

INPUT
MIXER

IN

INV

OUTPUT
DISTORSION

H-R

F-R

5 Ring Mod as VCA

DRII

INPUT
VCA CV

IN

INV

H-R

OUTPUT
FULL-RECTIFIED

F-R

VCO

INPUT
CARRIER

INPUT
MODULATOR

RING MOD

IN

OUTPUT
VCA

INV

H-R

F-R

6 Clock doubler

DRII

HIGHPASS
FILTER

IN

INV

INPUT
**SQUARE
VCO/LFO**

H-R

OUTPUT 1
**CLOCK
DOUBLER**

F-R

IN

INV

H-R

F-R

DR II

USER MANUAL