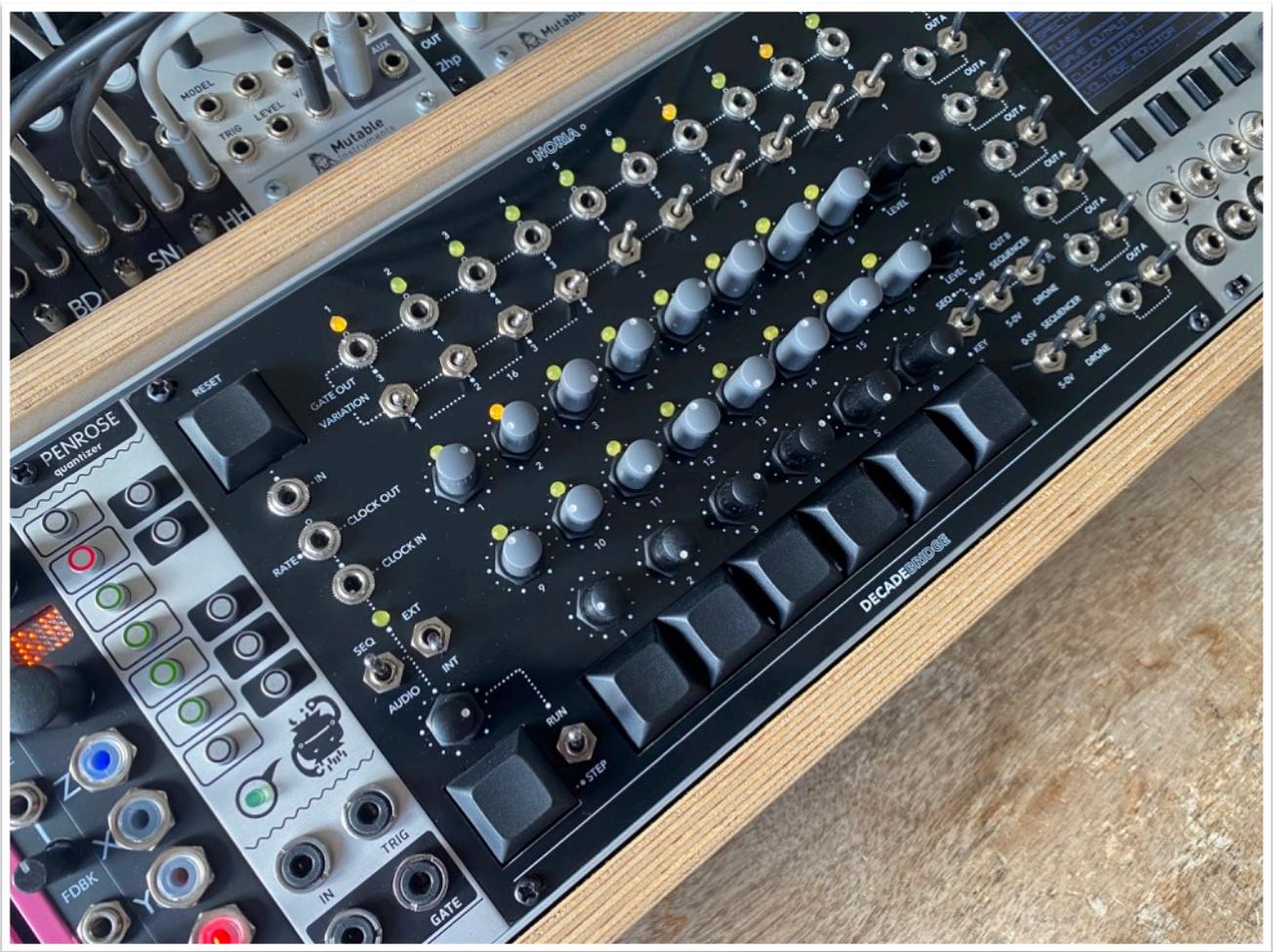


# NORIA

**Step sequencer|drone synth**

Contents:-

1. Layout/Eurorack installation
2. Transport controls
3. Main sequencer
4. Keys and manual gates
5. Gates and variation



## Layout.



**NORIA** is an old skool style 16 step analog sequencer and can also be used as a drone/glitch/pseudo self sequenced synth. It can be installed into your eurorack case or used as a standalone controller/instrument.

**NORIA** features several different things along with the sequencer to control and affect other elements in your compositions. It's simple, hands on approach allows you to use it in a more performance driven way and encourages the user to get 'hands on' when creating.

### **IMPORTANT INFORMATION. PLEASE READ:-**

**NORIA COMES WITH A 9V !!CENTER POSITIVE!! BATTERY CLIP AND CAN ALSO BE RUN USING A 9V !!CENTER POSITIVE!! WALL ADAPTER. IT CAN BE POWERED BY A EUROACK SYSTEM BY SIMPLY CONNECTING THE HEADER ON THE BACK OF THE INSTRUMENT AND FLICKING THE SWITCH FROM '9V DC' TO 'EURO'.**

42HP

+12V 60mA

### **Installing Noria into your eurorack system:-**

Remove Noria's bottom plate and unplug the power jack from the circuit board.

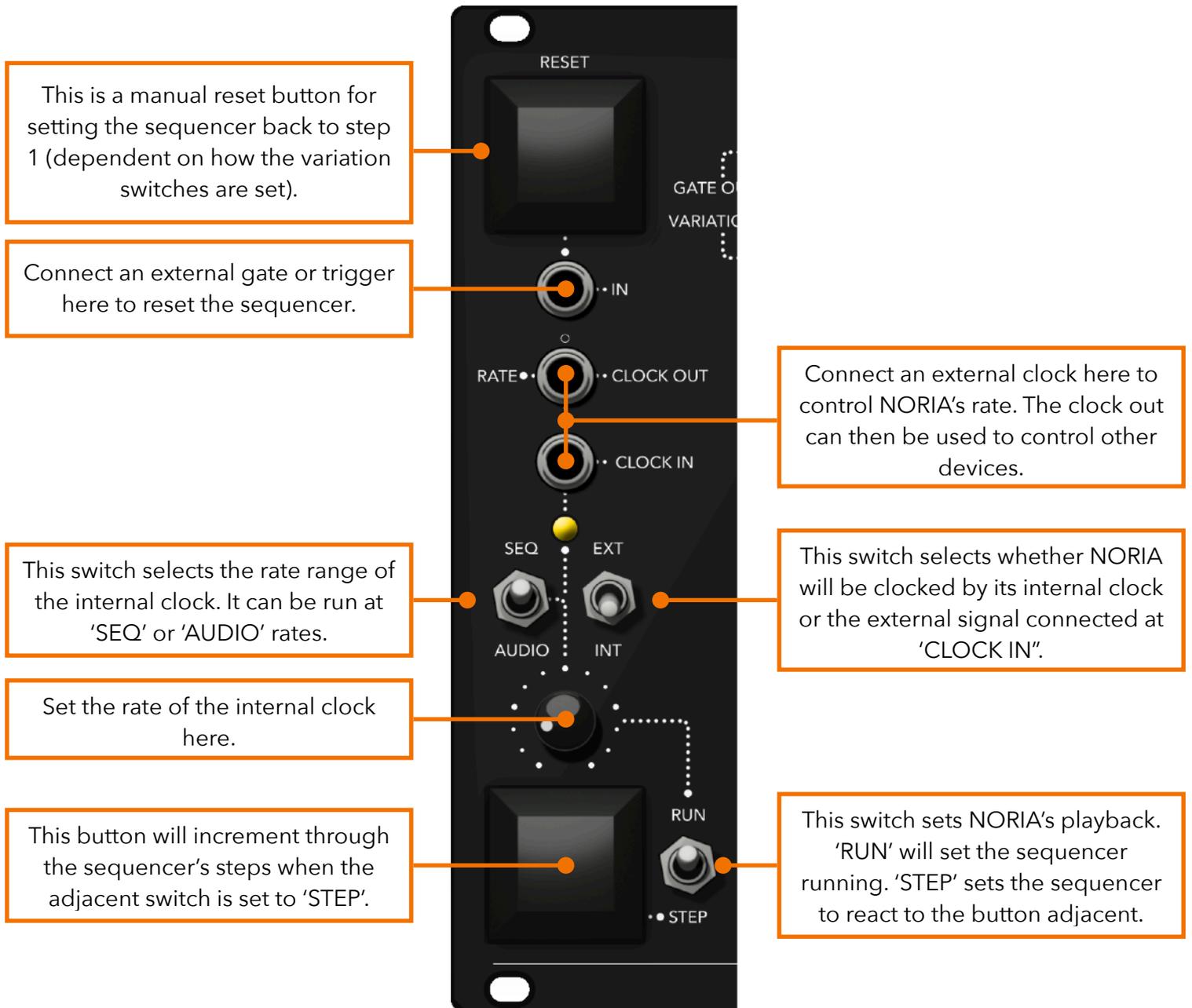
Noria can now be lifted out of the case. Switch the micro switch next to the power jack plug from '9V' to 'EURO'.

Remove the 4 standoffs and connect Noria to your system using the power header.

Screw Noria into your system.

## Transport controls.

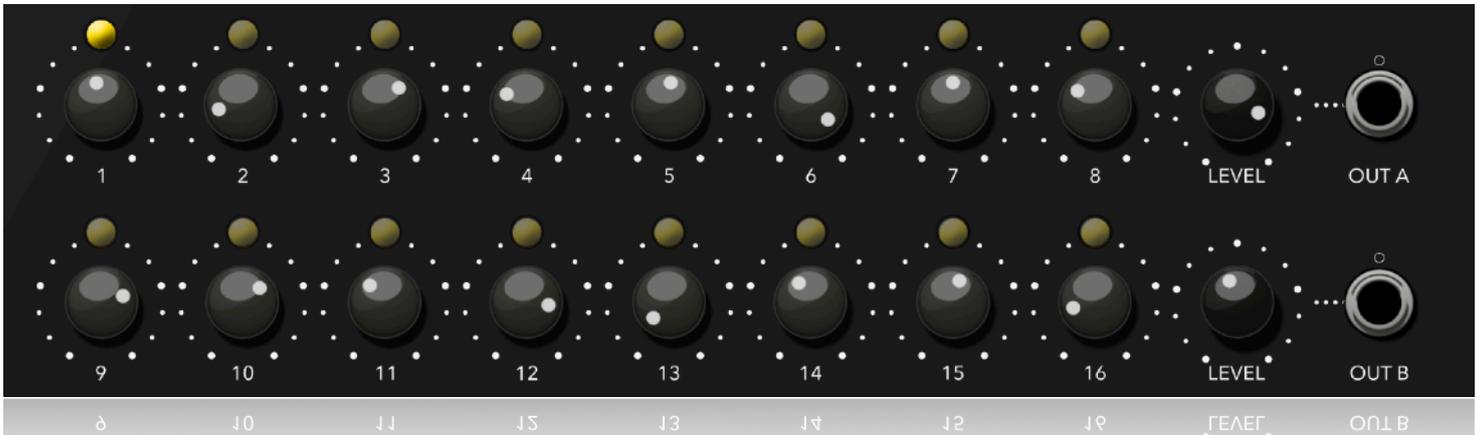
**NORIA**'s transport controls can be found on the left hand side of the instrument.



Experimenting with 'CLOCK IN' could create some interesting results. Instead of using a slower clock try a square wave and set **NORIA**'s output to 'DRONE' and use the outputs as audio outs.

## Main sequencer.

**NORIA's** sequencer has 16 steps and two outputs. The outputs are not quantised very much like old analog sequencers.

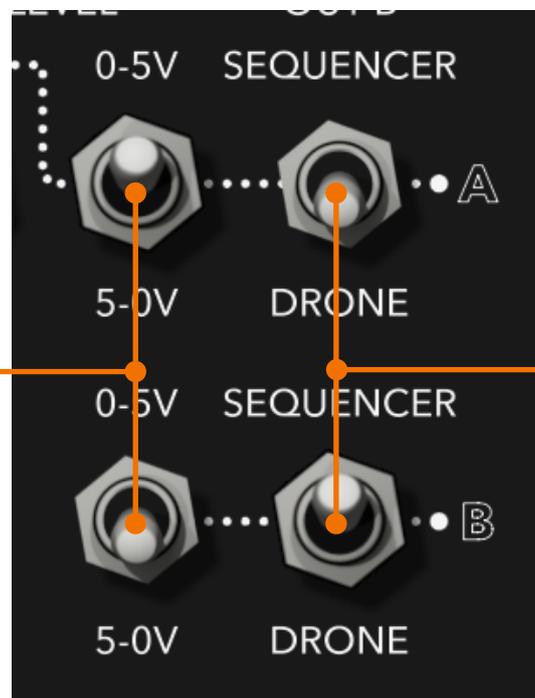


The sequencer itself is a simple affair. 16 steps, with controls for each step to set the output voltage and LEDs to indicate the sequencer's position.

**NORIA's** two outputs are to the right of the sequencer and each has a 'LEVEL' control to set the output amount. When using NORIA as a drone generator these outputs are used as mono audio outs.

Below the sequencer's two outputs are a couple more controls that affect the sequencer's outputs.

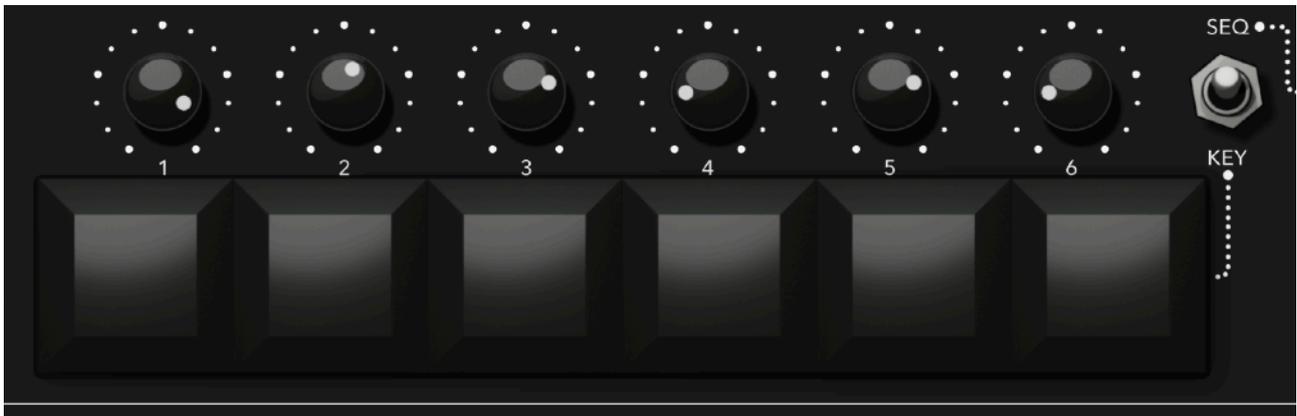
These switches flip the two outputs from 0-5 volts (fully anti clockwise to fully clockwise) to 5-0 volts. This can be an easy way to switch up modulation and introduce interesting variations and can change up pitch sequencing quickly when used with a quantiser module.



These switches affect the offset of the output signal. When using NORIA as a drone synth and running at audio rate flick this switch down to 'DRONE'. This will center the output around 0 volts. When using NORIA as a sequencer either setting can be used to experiment. Switch to 'SEQUENCER' if you wish to use NORIA in its standard mode.

## Keys and manual gates.

**NORIA** has 6 keys that can be used as manual triggers/gates or to send fixed voltages out to other equipment.



The switch to the right sets the source for 'OUT A' (see previous page). In the up position 'OUT A' will take the signal from the sequencer. In the down position it will take the signal from these 6 keys. The output voltage for each key is then set using the relevant knob above the key (1-6).



The 6 outputs and relevant switches to the right of NORIA set the keys (above) output destination. If the switch is in the up position the the key is routed to 'OUT A' (dependent upon the 'SEQ/KEY' switch above).

In the down position the relative key and its fixed voltage is routed to the individual output on the right of NORIA. If 'OUT A' is set to 'SEQ' the keys will still work at these individual outputs. These outputs can then be used as manual triggers or gates or as control voltages for other equipment, e.g-

Set the switch for 1 in the down position.

Fully turn the knob above 'KEY 1'.

Connect the output to an envelope trigger or gate in.

Manually trigger the envelope by pressing 'KEY 1'

Alternatively-

Instead of connecting to an envelope trigger in connect to a filter cutoff or delay rate.

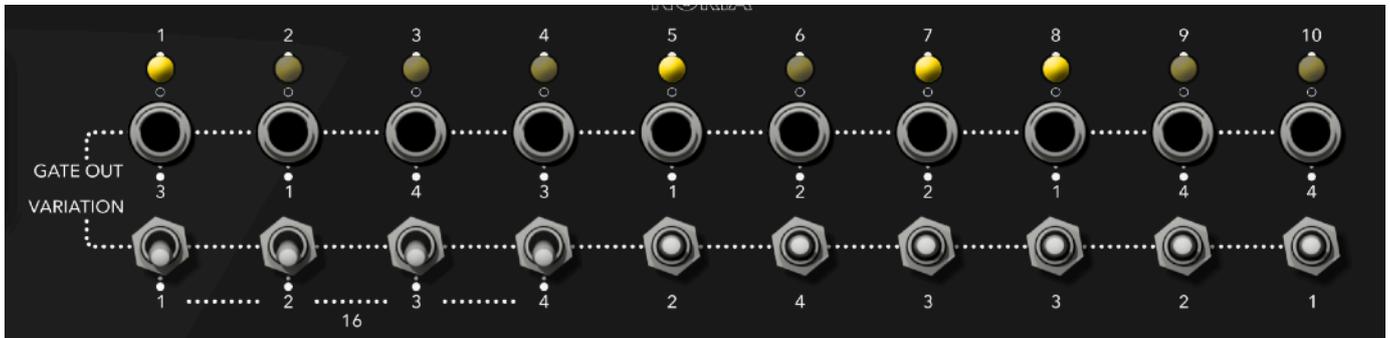
Press and hold 'KEY 1' and use the pot to control the connected parameter.

Release 'KEY 1' to quickly set the parameter to its initial state.



## Gates and variation.

**NORIA** has 10 gate outputs. These are found across the top of the sequencer. These can be self patched into 'RESET' (see Transport controls) to set the sequencer back to the beginning. The gates stay high for the duration of time it takes for the count to come back around. These can be used to trigger or gate other equipment, envelope generators, drum modules etc or can be used as clock outputs to control the rate of other devices.



**NORIA's** variation switches can be found underneath the 10 gate outputs. These can be used to quickly change up the sequence and rate of the instrument. These can also create interesting variations when running **NORIA** at audio rate and using it as a drone synth.

If all switches are set to the middle the step sequencer will cease to run.

With the first 4 switches in the down position **NORIA** will run through the 16 steps in order. The numbers above and below the switches refer to the address pins on the circuit that determine which step to play.

You can get a huge range of variation by changing the position of any and all of the 10 variation switches, this really is about experimenting and having fun with it.

Each switch will affect the sequence playback when the gate above it is high e.g.

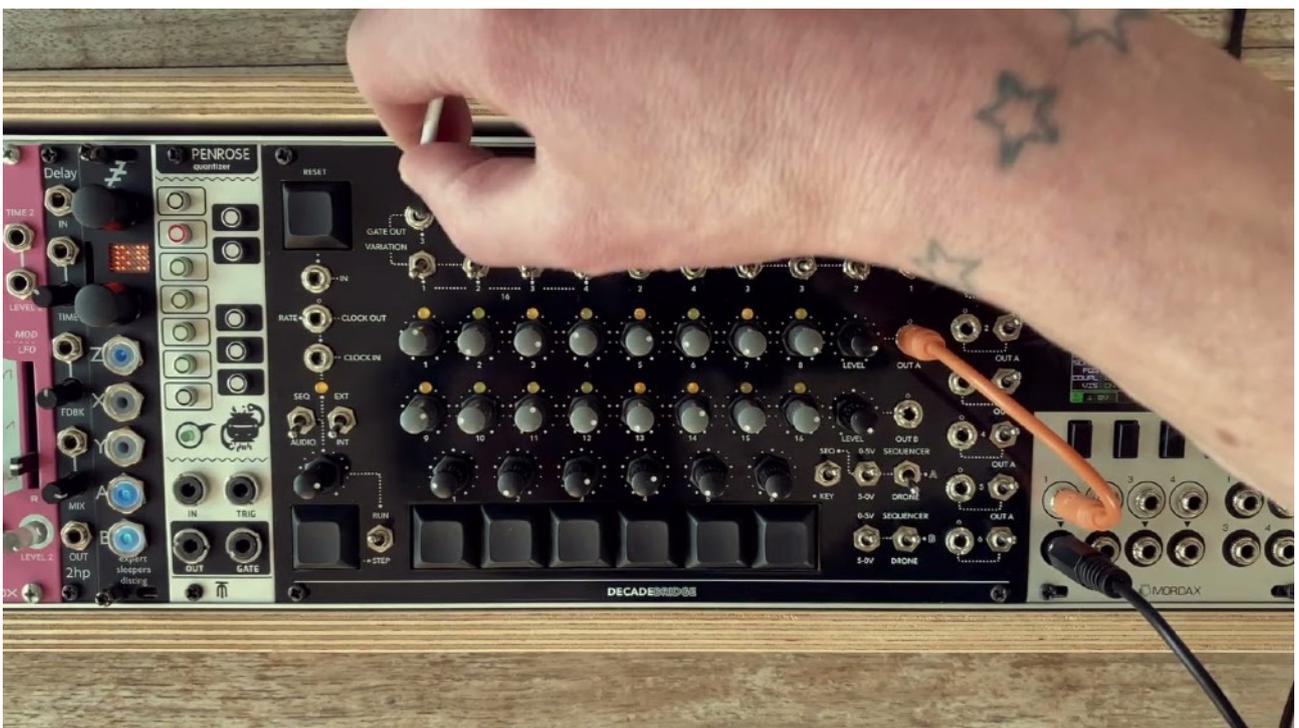
If gate 7 is high and the switch below it is set up or down the sequence will be affected.

If gate 7 is low the position of the switch will have no affect on the sequencer.

Refer to the table on the next page to see how **NORIA** decides which step to choose.

Use the variation switches to change up the step sequencer's play order.  
 The numbers above and below the switches refer to the address pins 1-4 on the table below.

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>SELECTED STEP</b>
OFF	OFF	OFF	OFF	1
ON	OFF	OFF	OFF	2
OFF	ON	OFF	OFF	3
ON	ON	OFF	OFF	4
OFF	OFF	ON	OFF	5
ON	OFF	ON	OFF	6
OFF	ON	ON	OFF	7
ON	ON	ON	OFF	8
OFF	OFF	OFF	ON	9
ON	OFF	OFF	ON	10
OFF	ON	OFF	ON	11
ON	ON	OFF	ON	12
OFF	OFF	ON	ON	13
ON	OFF	ON	ON	14
OFF	ON	ON	ON	15
ON	ON	ON	ON	16



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