

# FRANKIE

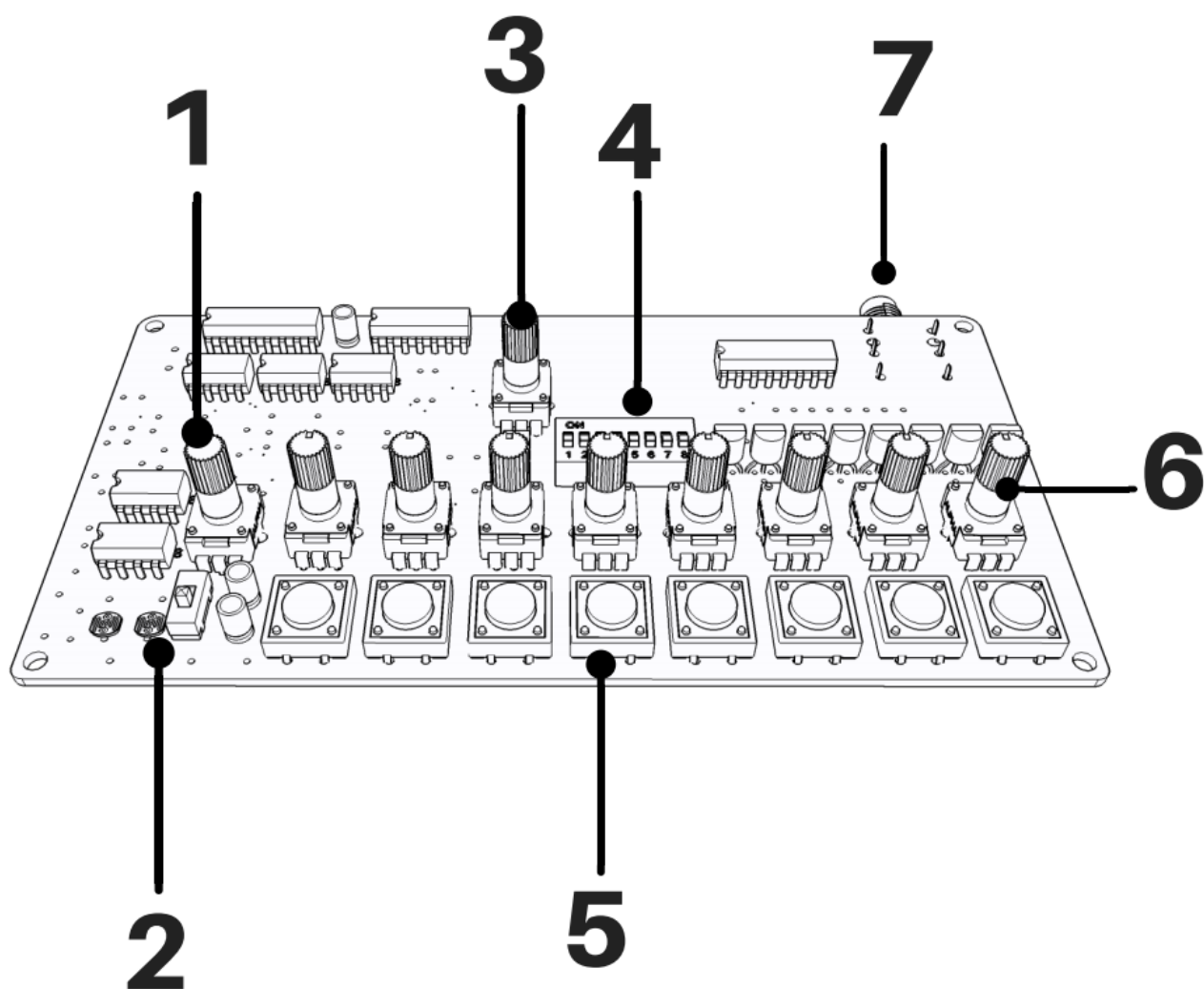
SAWTOOTH ANALOG SYNTH.

Congratulations on your acquisition of Frankie.

Inspired by Mary Shelley's novel, Frankie was designed to roar. A Sawtooth oscillator, low-pass filter controlled by a light sensor and an 8-step sequencer, give it a truly abominable sound. We put the power of a robust analog sound in your hands.

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## DISTRIBUTION OF THE COMPONENTS:



1. Pitch adjustment (PWM).
2. Switch and filter sensor.
3. Switch and sequencer rate (the switch is under the knob).
4. Sequence bank.
5. Note buttons (trigger).
6. Note setting (frequency).
7. Audio output.

## MANUAL OPERATION (SEQUENCER DEACTIVATED):

- A. Connect a 9v battery to Frankie's power connector and its audio output (7) to an amplifier.
- B. Set the first three sequence bank switches (4) to the "ON" (up) position, the speed or rate knob (3) all the way to the left and the switch below it all the way down (OFF).
- C. To adjust Frankie's initial frequency pitch, set the "pitch adjustment" knob (1) to halfway. This knob must be held in this position in order to generate a signal at the output. You can experiment slightly to change Frankie's overall tone.
- D. Press and hold any of the eight knobs (5) and then adjust its note with the knob (6) immediately above it, until it is to your liking. Each button can be set to play a different note when pressed.
- E. To activate the filter, simply turn the filter switch (2) to its ON position. The filter cutoff frequency is controlled by the light level detected in the sensor (2). While pressing a note (5), move your hand closer and further away to listen to the results.

## SEQUENCER OPERATION:

- A. With the first 3 sequence bank switches (4) facing up (ON) , set the sequencer switch under the rate knob (3) also facing up (ON). With this setting, Frankie will play its 8 notes in a linear fashion from left to right,
- B. Increase the speed of the sequence (rate) by moving the knob (3) gradually to the right.
- C. To change the sequence activation order, experiment with different combinations with the sequence bank switches (4).
- D. To activate the filter, simply position the filter switch (2) upwards to its ON position. The filter cutoff frequency is controlled by the light level detected in the sensor (2). While the sequences are playing, move your hand closer and further away to listen to the results.

**This tutorial is only a guide for initial use, the possibilities are vast. We designed Frankie with exploration in mind and hope you enjoy your experiments as much as we enjoyed designing and assembling it.**