

CARE AND FEEDING OF YOUR

Stylish!



TRUCKER BELT-BUCKLE SYNTHESIZER

TO CHANGE BATTERIES

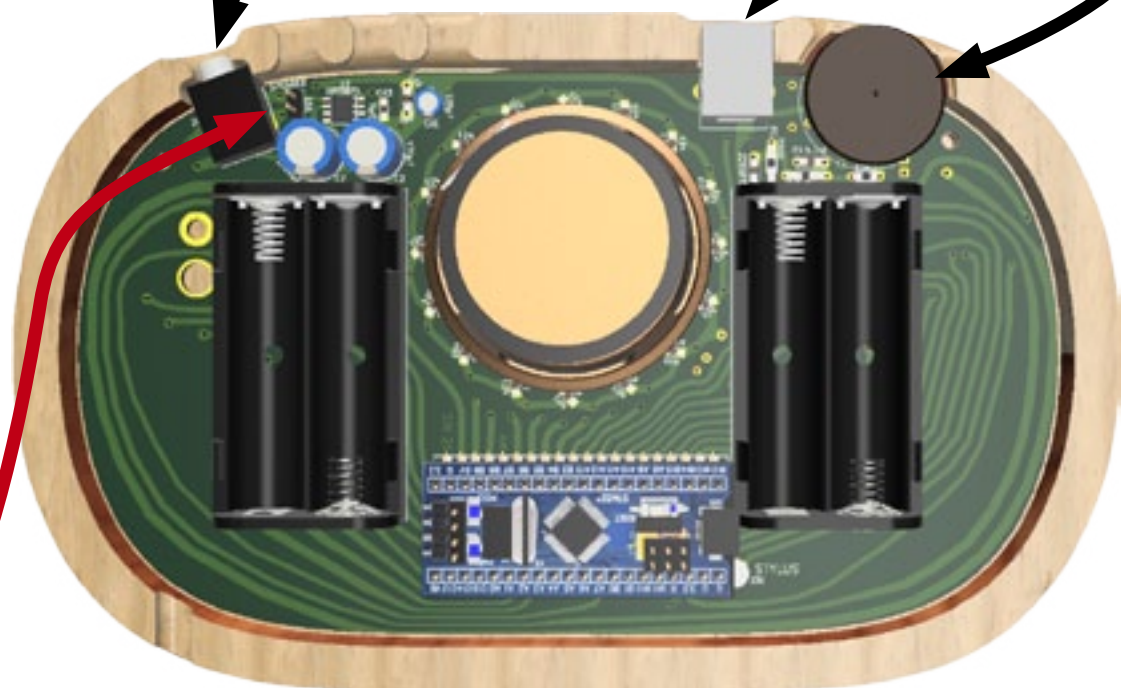
REMOVE TWO SCREWS ON THE BACK
TURN OVER
REMOVE FRONT
LIFT PCB CAREFULLY
CHANGE BATTERIES ON BOTTOM OF PCB
REPLACE PCB
REPLACE TOP
REPLACE SCREWS

STYLUS HOLDER
VOLUME / POWER
USB
HEADPHONE JACK

MAY EMIT HIGH PITCHED
SOUNDS IF USB POWER
USED WITHOUT BATTER-
IES, SO ALWAYS HAVE
BATTERIES INSTALLED.

AMPLIFIER MAY OVER-
HEAT WITH PROLONGED
USE. LET IT REST SOME-
TIMES.

SPEAKER WIRE HERE



CONTROLS

PATCH SELECT

PATCH WRITE

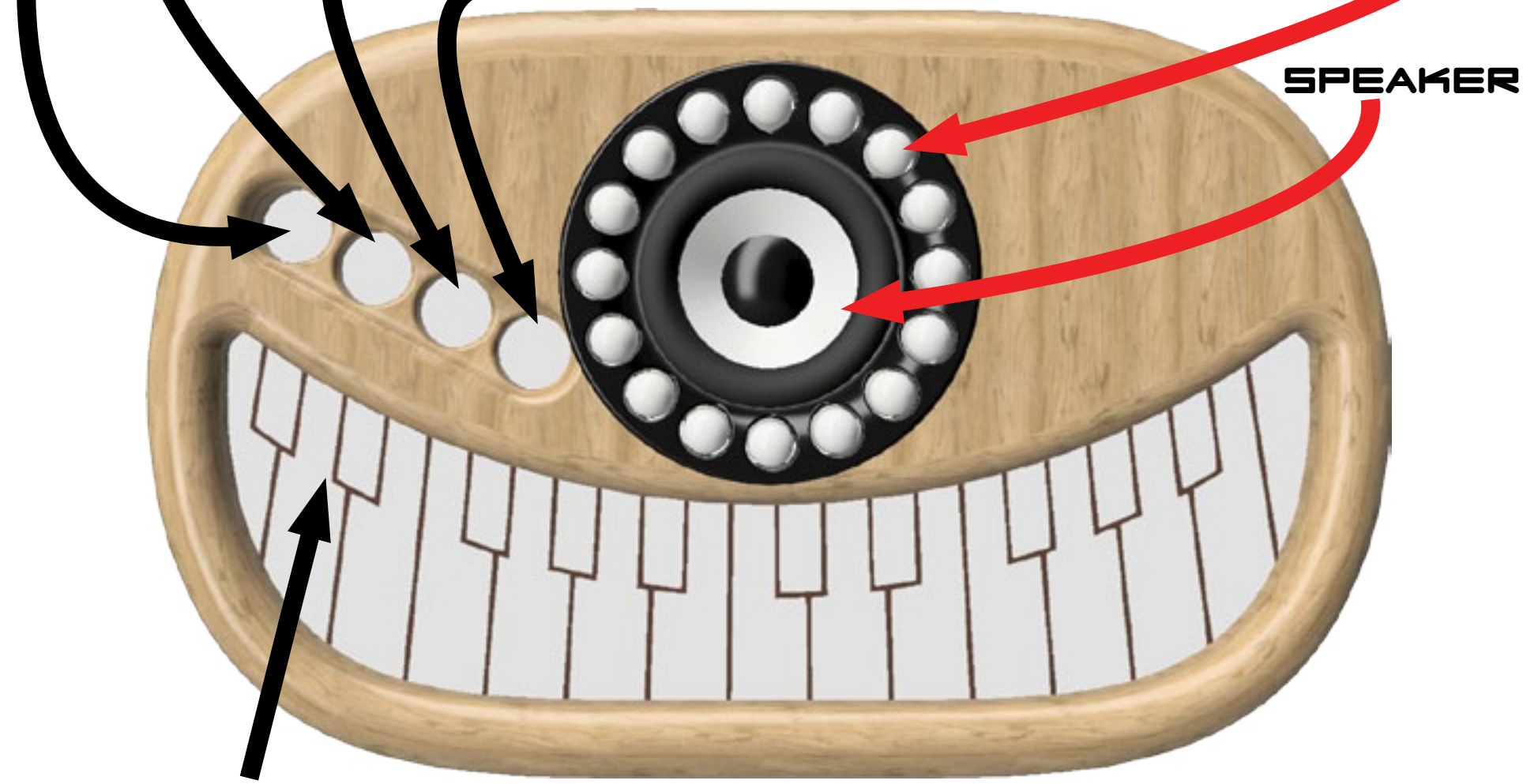
PARAMETER EDIT

SYSTEM PARAMETER EDIT

INDICATOR LED RING

SPEAKER

KEYBOARD / PARAMATER SELECT / PARAMETER VALUE



CONTROLS

PATCH SELECT - LOAD A SOUND TO PLAY ON THE KEYBOARD
TAP ONCE AND LED RING FLASHES BLUE
TAP ON KEYBOARD TO SELECT A SOUND
TO LOAD.
NEW SOUND WILL PLAY
TAP TIL YOU FIND THE SOUND YOU WANT
TO LOAD.
TAP "PATCH SELECT" AGAIN TO KEEP SOUND
YOU CAN PLAY IT ON THE KEYBOARD NOW
TAP ANY OTHER BUTTON TO ABORT
(WILL RETURN TO ORIGINAL SOUND)

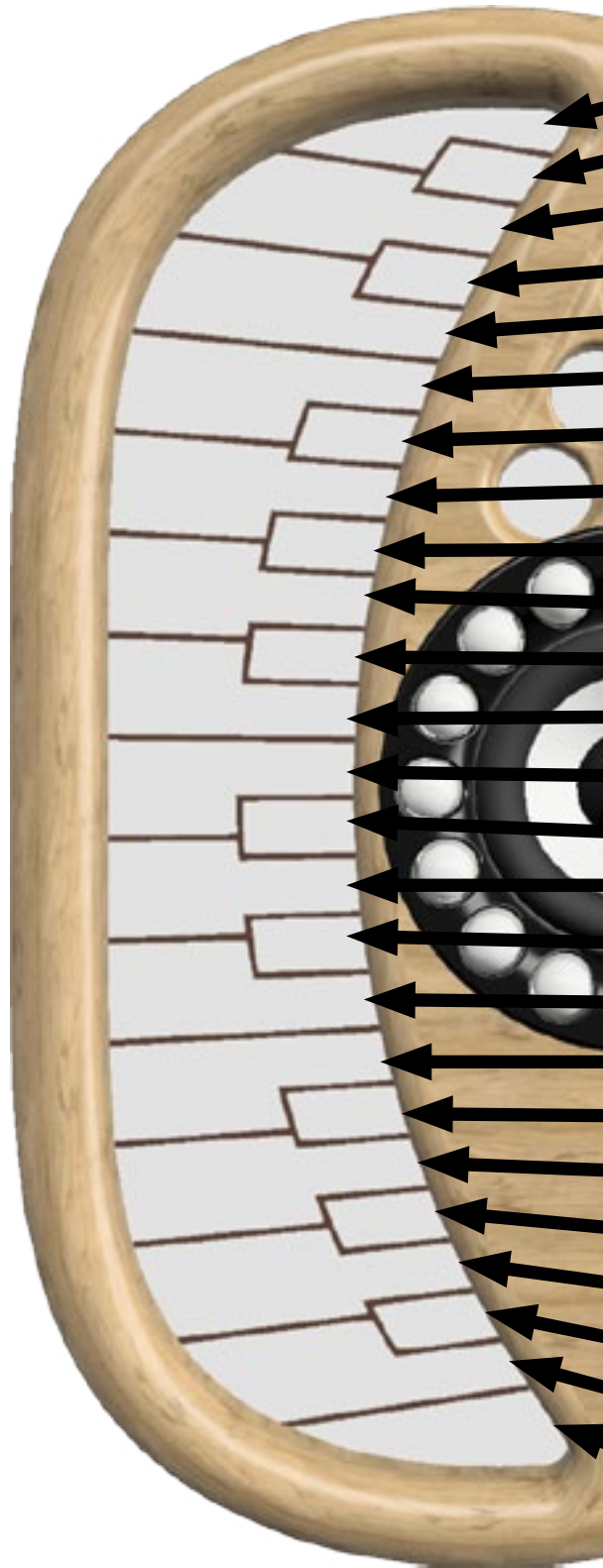
PATCH WRITE - WRITE THE SOUND TO A DIFFERENT SLOT
TAP ONCE AND LED RING FLASHES RED
TAP ON KEYBOARD TO SELECT A SOUND
TO OVERWRITE
SOUND IN SELECTED SLOT WILL PLAY
TAP TIL YOU FIND THE SOUND YOU WANT
TO OVERWRITE
TAP "PATCH WRITE" AGAIN TO OVERWRITE SOUND
YOU CAN PLAY IT ON THE KEYBOARD NOW
TAP ANY OTHER BUTTON TO ABORT
(WILL RETURN TO ORIGINAL SOUND)

CONTROLS

PARAMETER EDIT - CHANGE SYNTHESIZER PARAMETER
TAP ONCE AND LED RING FLASHES GREEN
ON THE LEFT SIDE ONLY
TAP ON KEYBOARD TO SELECT A PARAMETER
TO EDIT
LED RING WILL ALTERNATE BETWEEN
RIGHT HALF GREEN
PARAMETER NUMBER BARGRAPH
AND PARAMETER VALUE BARGRAPH
TAP ON KEYBOARD TO SELECT A NEW VALUE
PARAMETER VALUE WILL UPDATE
(BARGRAPH WILL REFLECT THIS)
SOUND WILL PLAY
TAP "PARAMETER EDIT" AGAIN TO KEEP CHANGE
YOU CAN PLAY ON THE KEYBOARD NOW
TAP ANY OTHER BUTTON TO ABORT
(WILL RETURN TO ORIGINAL SOUND)

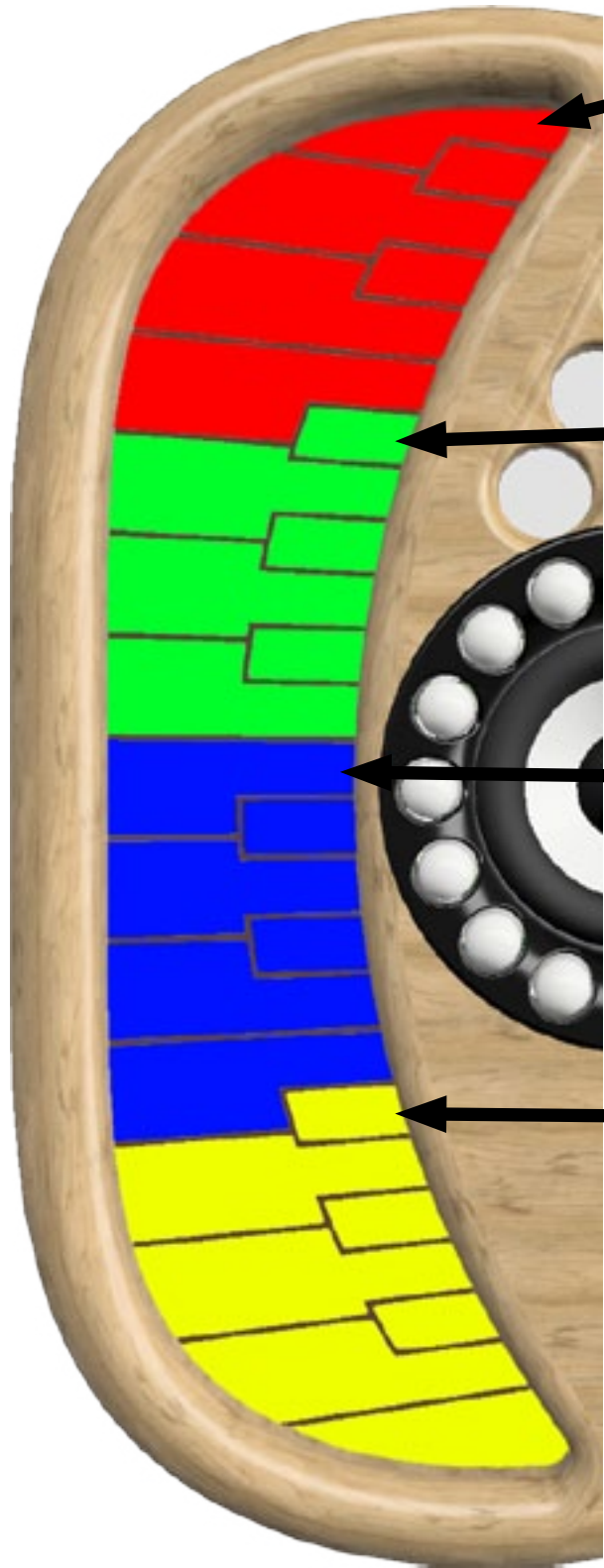
PARAMETER LIST ON NEXT PAGE

PARAMETER EDIT



OSCILLATOR 1 WAVEFORM
OSCILLATOR 1 NOTE OFFSET
OSCILLATOR 2 WAVEFORM
OSCILLATOR 2 NOTE OFFSET
NOISE LEVEL
OSCILLATOR DETUNE
ENVELOPE ATTACK
ENVELOPE DECAY
ENVELOPE SUSTAIN
ENVELOPE RELEASE
FILTER RESONANCE
FILTER FREQUENCY
LFO WAVEFORM
LFO FREQUENCY
FUTURE
FUTURE
ENVELOPE TO FILTER
ENVELOPE TO PITCH
FUTURE
FUTURE
LFO TO FILTER
LFO TO PITCH
LFO TO VOLUME
FUTURE
LFO TO NOISE

OSCILLATOR 1,2 WAVEFORM



SAWTOOTH WAVE :
OCTAVE 1
OCTAVE 2
OCTAVE 3
OCTAVE 4
OCTAVE 5
OCTAVE 6
SQUARE WAVE :
OCTAVE 1
OCTAVE 2
OCTAVE 3
OCTAVE 4
OCTAVE 5
OCTAVE 6
TRIANGLE WAVE :
OCTAVE 1
OCTAVE 2
OCTAVE 3
OCTAVE 4
OCTAVE 5
OCTAVE 6
SINE WAVE :
OCTAVE 1
OCTAVE 2
OCTAVE 3
OCTAVE 4
OCTAVE 5
OCTAVE 6
LFO WAVEFORM IS THE SAME BUT NO OCTAVE

CONTROLS

**SYSTEM
PARAMETER
EDIT** - CHANGE GLOBAL PARAMETER
TAP ONCE AND LED RING FLASHES YELLOW
ON THE LEFT SIDE ONLY
TAP ON KEYBOARD TO SELECT A PARAMETER
TO EDIT
LED RING WILL ALTERNATE BETWEEN
RIGHT HALF YELLOW
SYSTEM PARAMETER NUMBER BARGRAPH
AND PARAMETER VALUE BARGRAPH
TAP ON KEYBOARD TO SELECT A NEW VALUE
SYSTEM PARAMETER VALUE WILL UPDATE
(BARGRAPH WILL REFLECT THIS)
SOUND WILL PLAY
TAP "SYSTEM PARAMETER EDIT" AGAIN TO KEEP
YOU CAN PLAY ON THE KEYBOARD NOW
TAP ANY OTHER BUTTON TO ABORT
(WILL RETURN TO ORIGINAL VALUE)

**ONLY PARAMETER 0: LED BRIGHTNESS, IS
CURRENTLY IMPLEMENTED**



STYLISH! The Trucker Belt Synthesizer was created by Timon at SoftEgg®.
<http://www.softegg.com>

More project details on Hackaday.io!
<https://hackaday.io/project/160859-stylish>

All hardware and software files are available on GitHub here:
<https://github.com/softegg/Stylish-Trucker-Belt-Synthesizer>
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NON-COMMERCIAL USE ONLY!

Made with STM32Duino under LGPLv2.1 License
STMicroelectronics libraries under BSD3-Clause,
and Mozzi under CC BY-NC-SA license.

Only hardware is sold for below cost, software is provided for free.
I lost a lot of money on this. Watch for a Kickstarter soon!