

## Sheet1

### Falafular R1Gslew BOM

component	x?	package/ link
CD4052	x1	soic16
HEF4013	x1	soic14
LM358	x2	soic8
L4148	x5	Mini-melf
bc847	x1	Sot-23
pd resistor*	x8	0805 size
100k	x1	0805 size
RI**	x1	0805 size
1k	x4	0805 size
15k	x1	0805 size
18r	x1	THT stand up
1M pot	x1	9mm snap in
Bp/100n***	x5	0805 size
10uF	x1	THT radial
0,47uF****	x1	THT radial
kobiconn		
16PJ138	x4	<a href="http://www.mouser.com/ds/2/449/KC-300411-202203.pdf">http://www.mouser.com/ds/2/449/KC-300411-202203.pdf</a>
10 pin "euro" power pin- header	x1	<a href="http://www.mouser.com/ds/2/445/6120xx21621-265830.pdf">http://www.mouser.com/ds/2/445/6120xx21621-265830.pdf</a>
illuminated tact switch	x1	<a href="http://www.tme.eu/en/details/pb6149l-5/microswitches-tact-pcb/highly/">http://www.tme.eu/en/details/pb6149l-5/microswitches-tact-pcb/highly/</a>
toggle switch subminiature	x1	<a href="http://www.tme.eu/en/details/ic1102t1b1m1qe/toggle-switches/ic-switches/">http://www.tme.eu/en/details/ic1102t1b1m1qe/toggle-switches/ic-switches/</a>

\*Pull down resistor can be anything between 10k and 100k

\*\*RI is the resistor that limits the current for your LED. 1K seems alright for this LED to me.

\*\*\*capacitors marked Bp are bypass caps, anything between 10n and 100n will do.

\*\*\*\* this one is marked 10uF on version 0.1 boards. It is the one near the potentiometer.

Version 0.1 needs a kludge to make it work and another to make it work nicely

Please read this MW thread:

<https://www.muffwiggler.com/forum/viewtopic.php?p=1997573#1997573>

kludge one is necessary to feed power to the cd4052 which is the IC near the potentiometer. Solder a resistor clipping from pin 14 of the HEF4013 or the pad of the Bp cap closest to that Pin 14, to pin 16 of the CD4052 or the pad of the Bp cap closest to that pin 16 like in the photo below.

kludge two is makes the thing work nicer in gated mode. It will reset the active flipflop on reception of a gate signal. It also involves the cutting of a trace, which I have already done for you Solder a resistor clipping from pin 4 of the HEF4013 to the anode of the middle one of the three diodes left of it, or to the left pad of the pd resistor left of HEF4013. See photo below.

