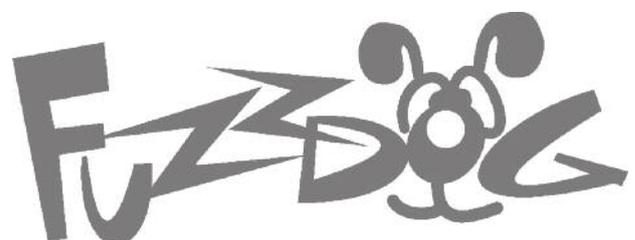


# Cream Buffer

Invigorate your signal chain



# Important notes

## COMPONENT SPECS

Unless otherwise stated in this document:

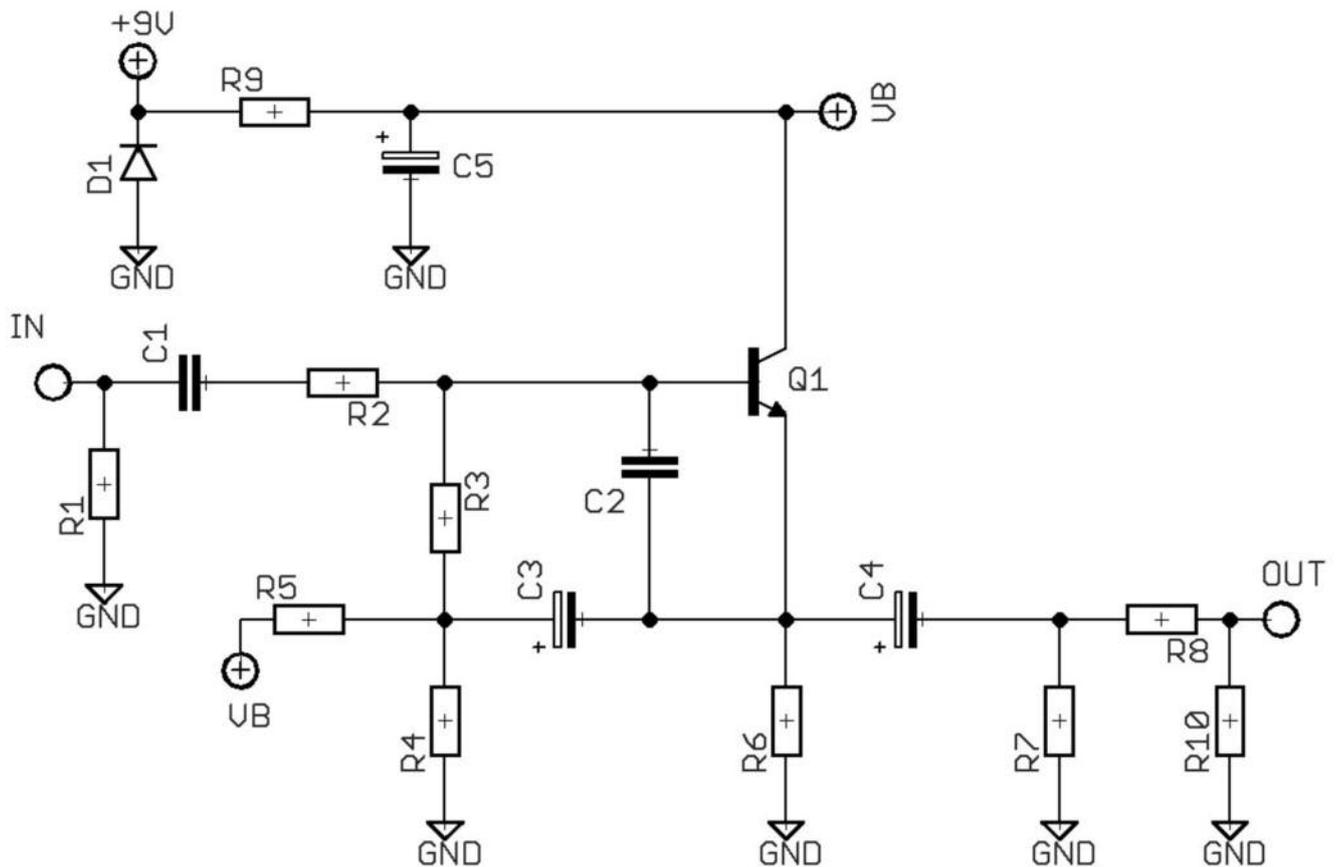
- Resistors should be 0.25W. You can use those with higher ratings but check the physical size of them.
- Electrolytics caps should be at least 25V for 9V circuits, 35V for 18V circuits. Again, check physical size if using higher ratings.

## LAYOUT CONVENTIONS

Unless otherwise stated in this document, the following are used:

- **Electrolytic capacitors:**  
Long leg (anode) to square pad.
- **Diodes:**  
Striped leg (cathode) to square pad.
- **ICs:**  
Square pad indicates pin 1.

# Schematic + BOM

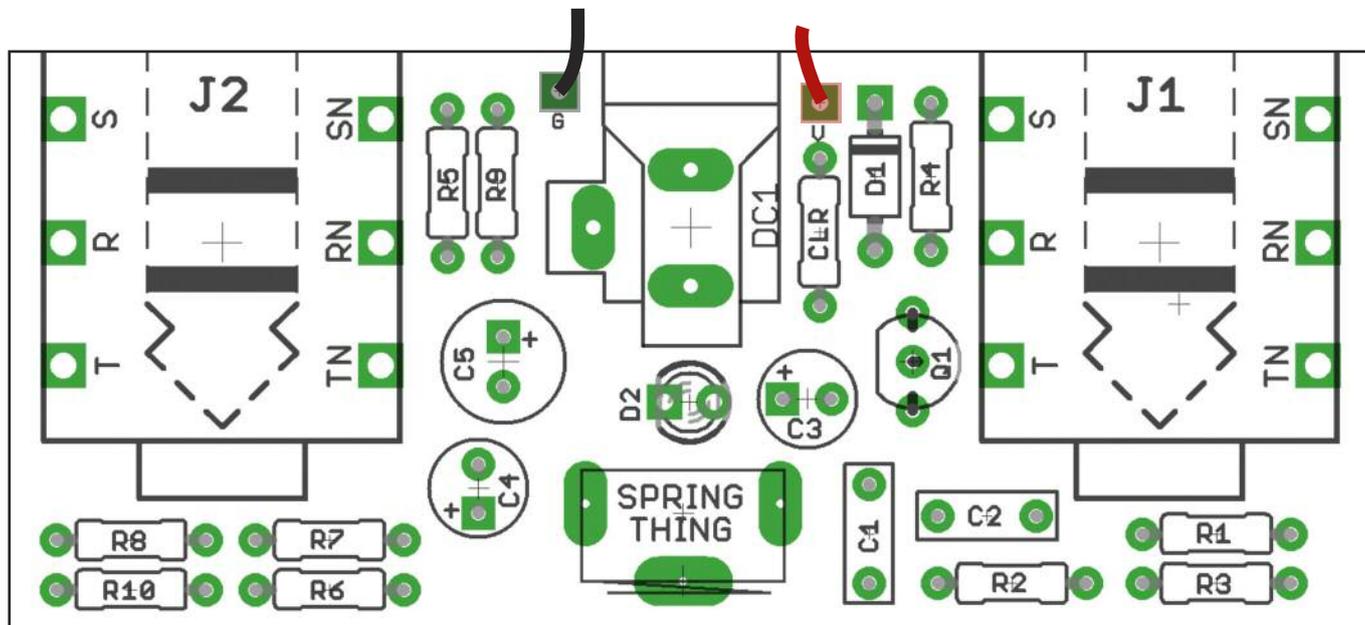


R1	10M
R2	1K*
R3	120K
R4	200K
R5	120K
R6	7K5
R7	20K
R8	51R
R9	100R
R10	51K
CLR	2K2*

C1	100n
C2	1n
C3	4u7
C4	22u
C5	100u

D1	1N4001
Q1	BC549

\*Or whatever value you prefer.  
Lower value = brighter LED.



Be very careful when soldering the diode and transistor. They're very sensitive to heat. You should use some kind of heat sink (crocodile clip or reverse action tweezers) on each leg as you solder them. Keep exposure to heat to a minimum (under 2 seconds).

Positive (anode) legs of the electrolytic caps go to the square pads.

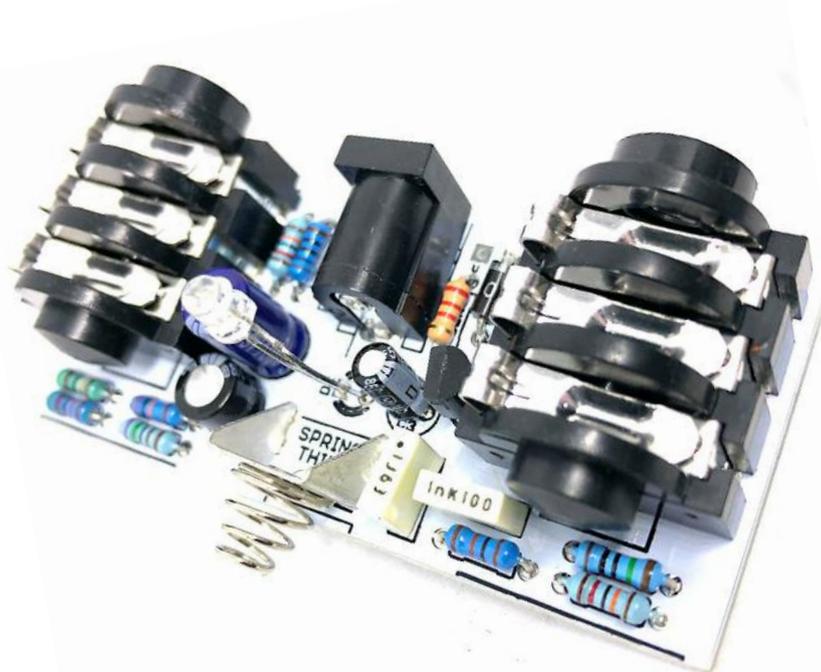
Negative (cathode) legs of the diode goes to the square pad.

The long leg of the LED goes into the round pad. Leave the LED until last. Solder in everything else - components first, then DC and jack sockets. Check it all fits the enclosure OK. Now push your LED legs into their pads and leave it loose. Get your circuit into the enclosure and fasten up the jack sockets. Once in place, position your LED through the hole in the enclosure and solder it in.

If you've opted for a wired DC socket you can use that to trap the wire against the enclosure instead. To wire this socket take wires from the V and G pads at the front of the PCB near the DC space (shown above). The long pin of the mini DC socket is the +V.

The kit is designed to go sockets-down in the enclosure, with the PCB facing the open side.

J1 is input, J2 is output.

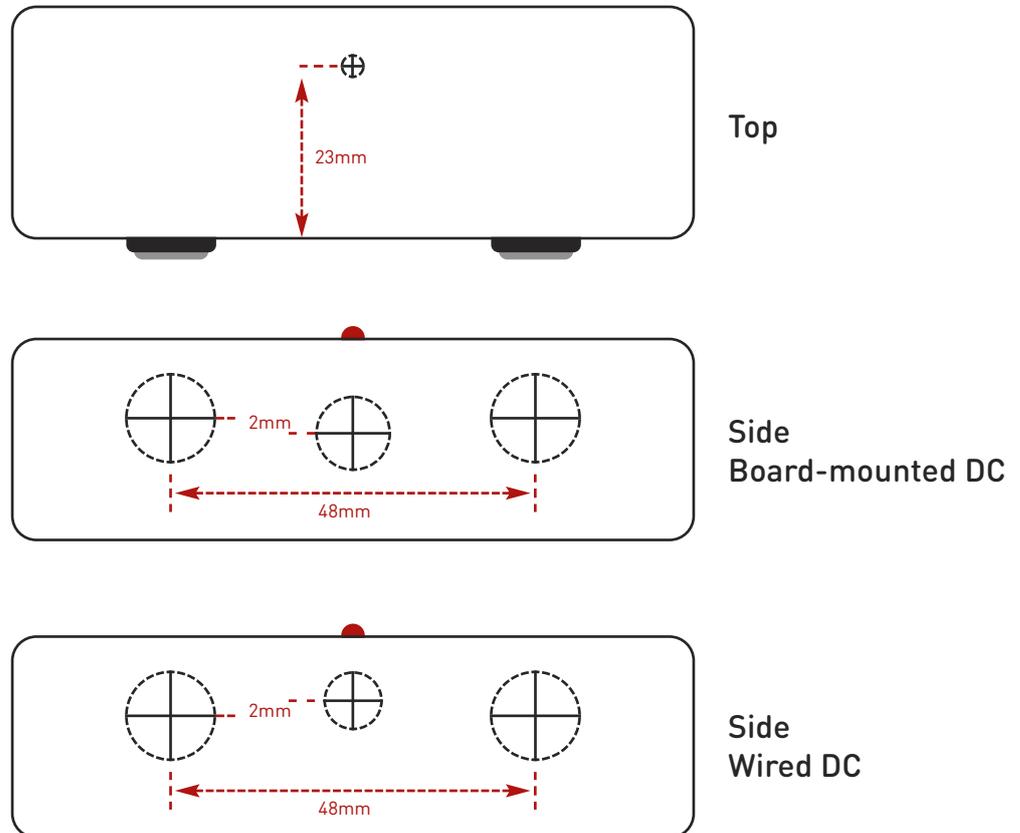


# Drilling template

Hammond 1590A  
31 x 90 x 27 mm

Recommended drill sizes:

Jacks	12mm
DC Socket	8-10mm



The wired mini DC sockets require an 8mm hole.

If you're using a board-mounted DC socket you need to have a hole big enough so that the sleeve of the plug doesn't touch the enclosure. 10mm should suffice.

This template is a rough guide only. You should ensure correct marking of your enclosure before drilling. You use this template at your own risk. Pedal Parts Ltd can accept no responsibility for incorrect drilling of enclosures.

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