

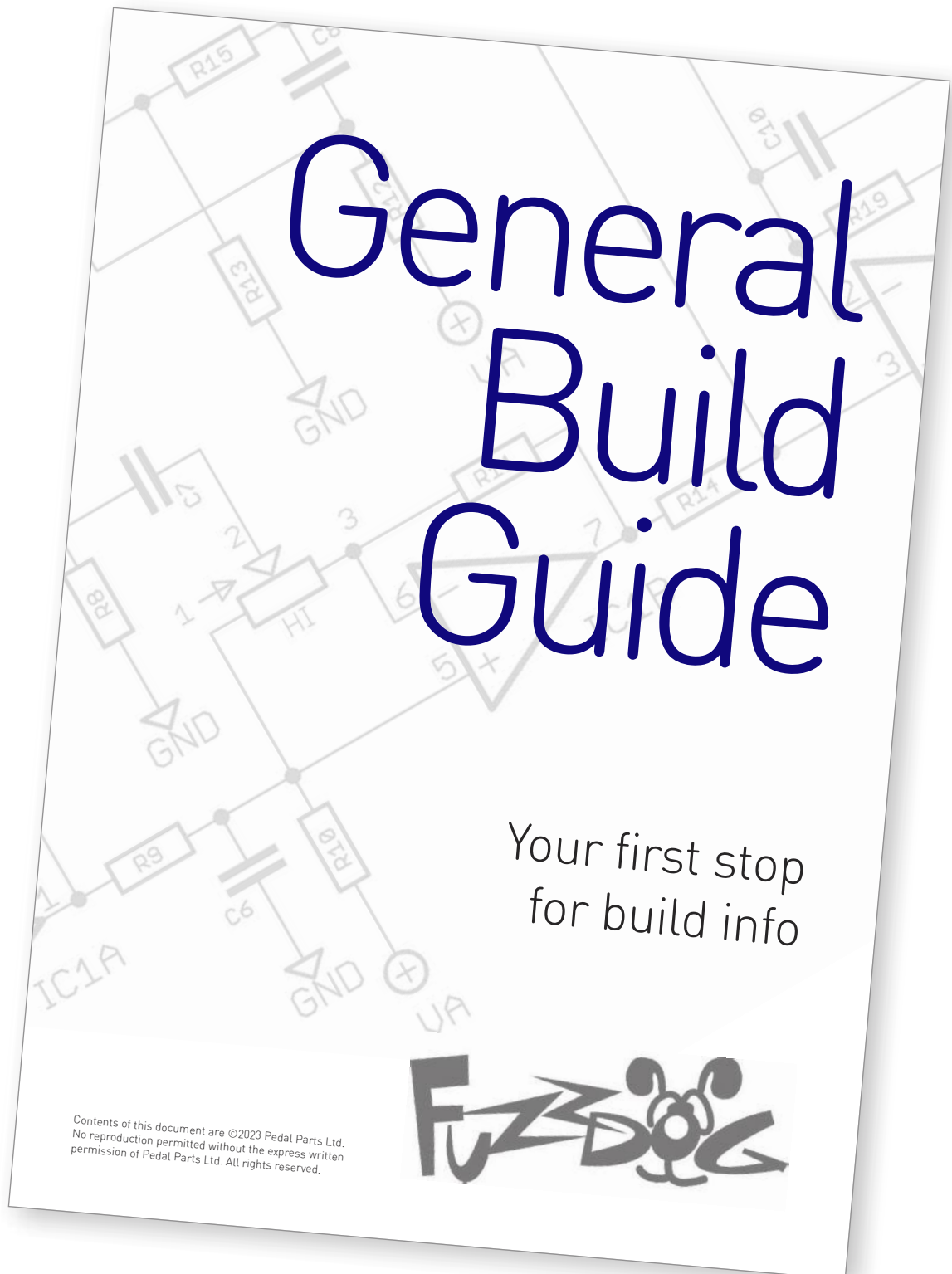
Buffered Pickup Sim

Fool your chain in
many configurations

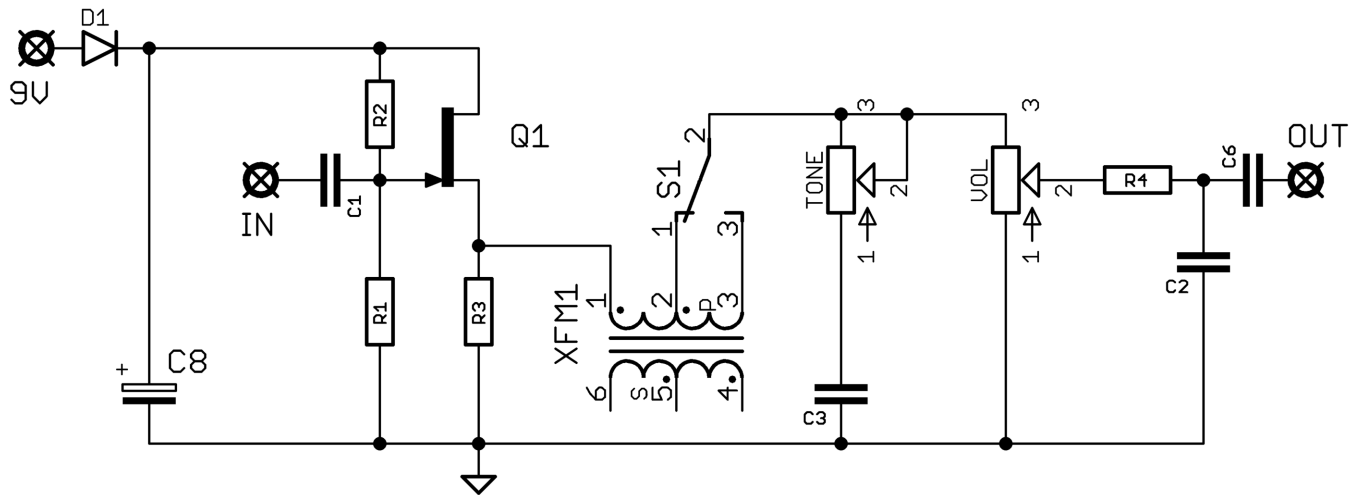


Before you dig in, ensure you download and read the **General Build Guide**.

It contains all the information you need for a successful outcome.



Schematic + BOM



This is the full PCB schematic. You can build a few variations on this board, so many of the parts will be left out depending on which you want to build.

R1	1M	C1	1u	D1	1N5817
R2	1M	C2	470p	Q1	2N5457
R3	3K3	C3	22n	XFM1	42TL019
R4	10R	C6	1u	TONE	250KA
		C8	100u elec	VOL	250KA
		S1	SPDT ON-ON		

The BOM above is 'the works'. Input buffer, pickup simulator with switch to select single coil or humbucker inductance, guitar tone and volume controls. This may be overkill for most needs, but could make a handy stand-alone pedal. However, it WILL pop when engaged due to the buffer.

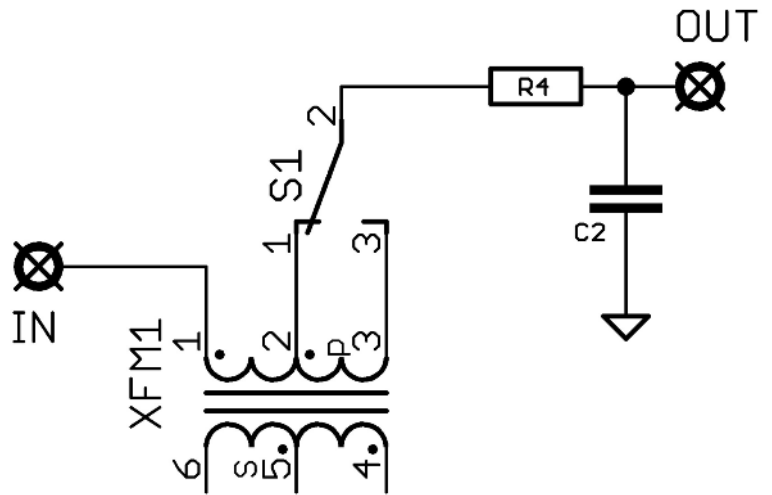
C1 and C6 can be decreased if you want to limit the frequency range.

Read all about pickup-simming with this article from Jack Orman:
<http://www.muzique.com/lab/pickups.htm>

Pickup Sim only

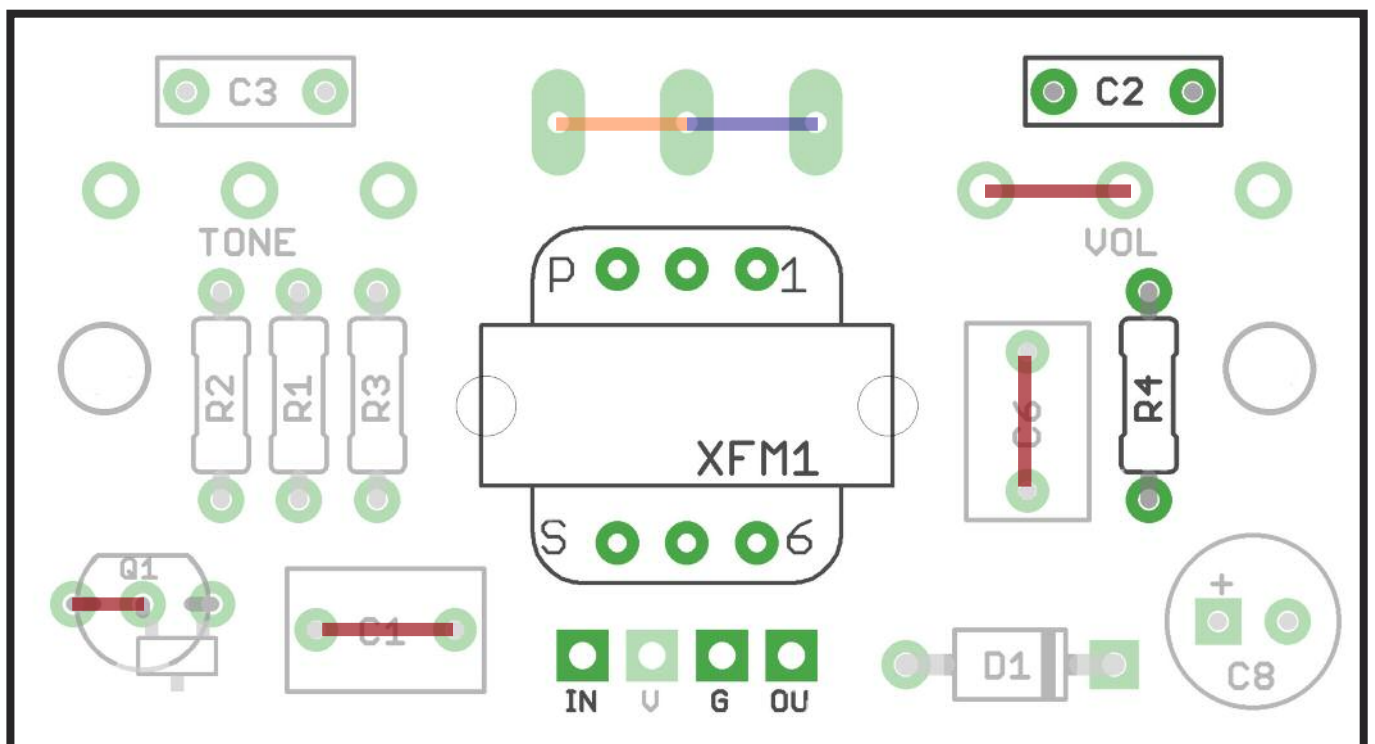
Passive pickup simulator.
No DC power required.

*You can leave out S1 if you don't want to toggle inductance. Place a jumper as shown below in blue for single coil, or orange for humbucker.



Only IN, OUT and GND need to be connected.

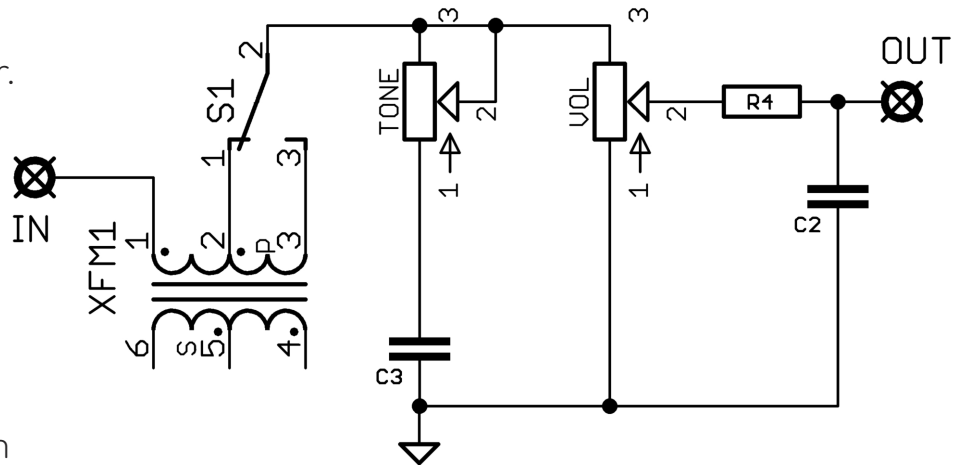
R4	10R	C1	Jumper	Q1	Jumper
		C2	470p		
S1	SPDT ON-ON*	C6	Jumper	XFM1	42TL019
				VOL	Jumper



Pickup Sim and Tone/Vol

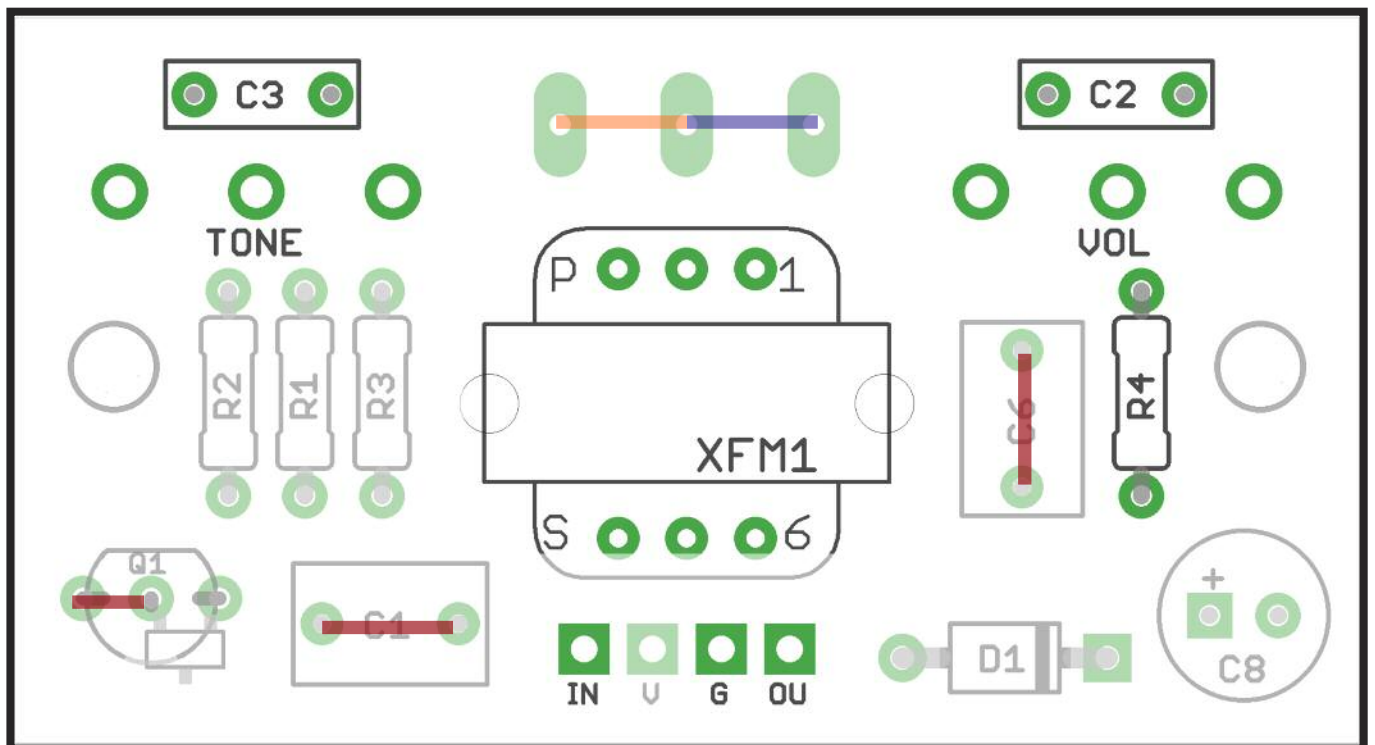
Passive pickup simulator.
No DC power required.

*You can leave out S1 if you don't want to toggle inductance.
Place a jumper as shown below in blue for single coil, or orange for humbucker.



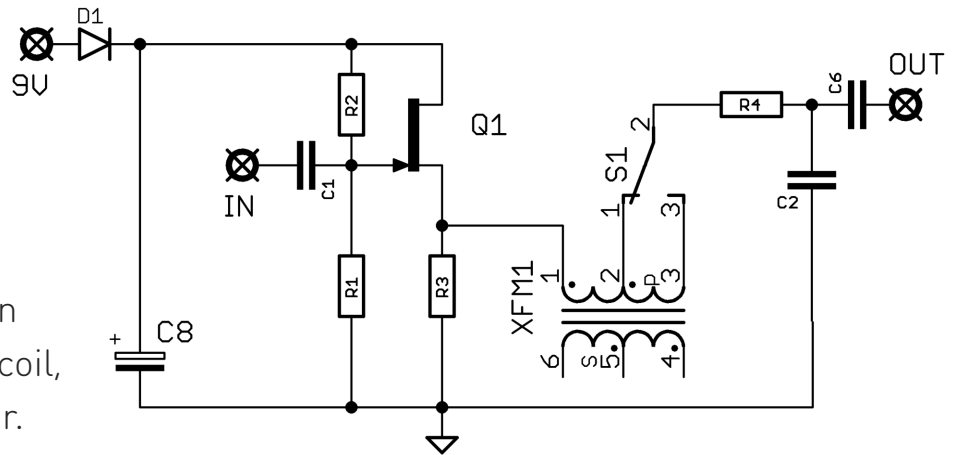
Only IN, OUT and GND need to be connected.

R4	10R	C1	Jumper	Q1	Jumper
S1	SPDT ON-ON*	C2	470p	XFM1	42TL019
		C3	22n	TONE	250KA
		C6	Jumper	VOL	250KA

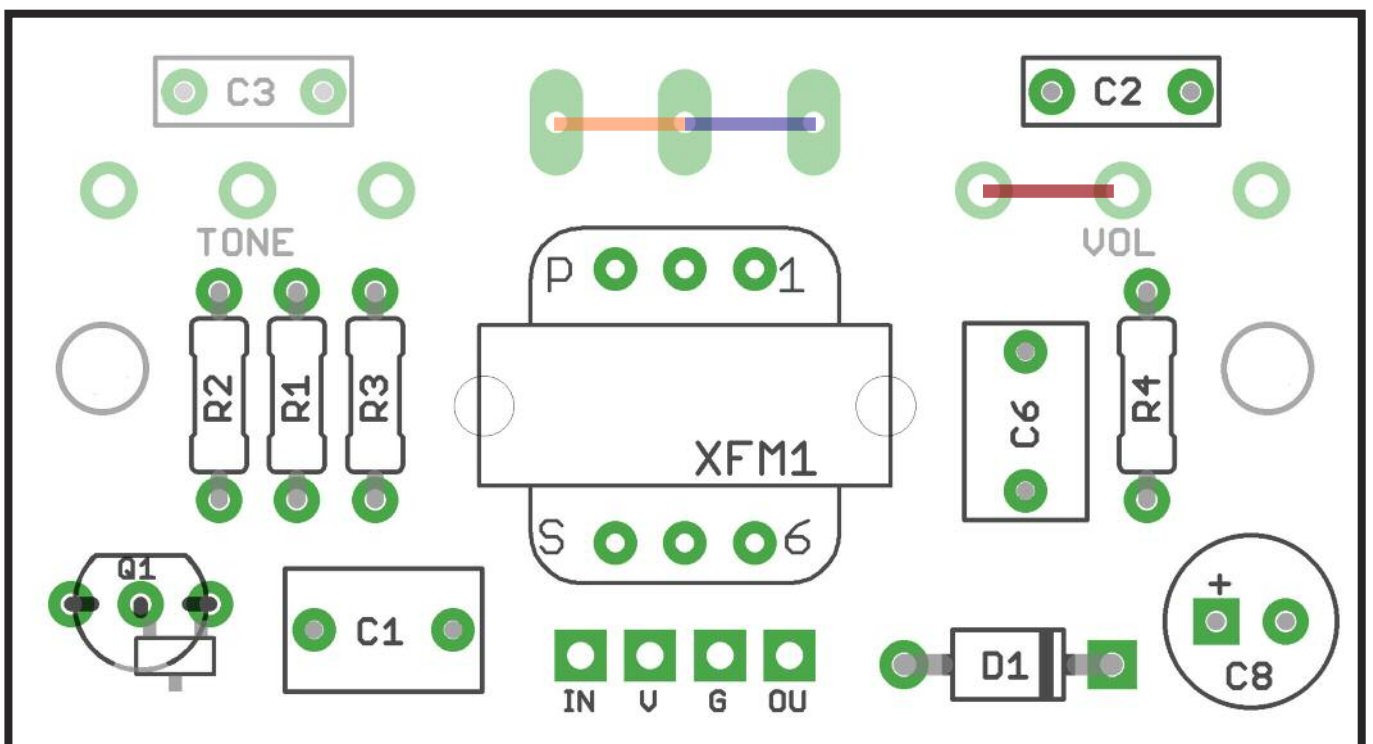


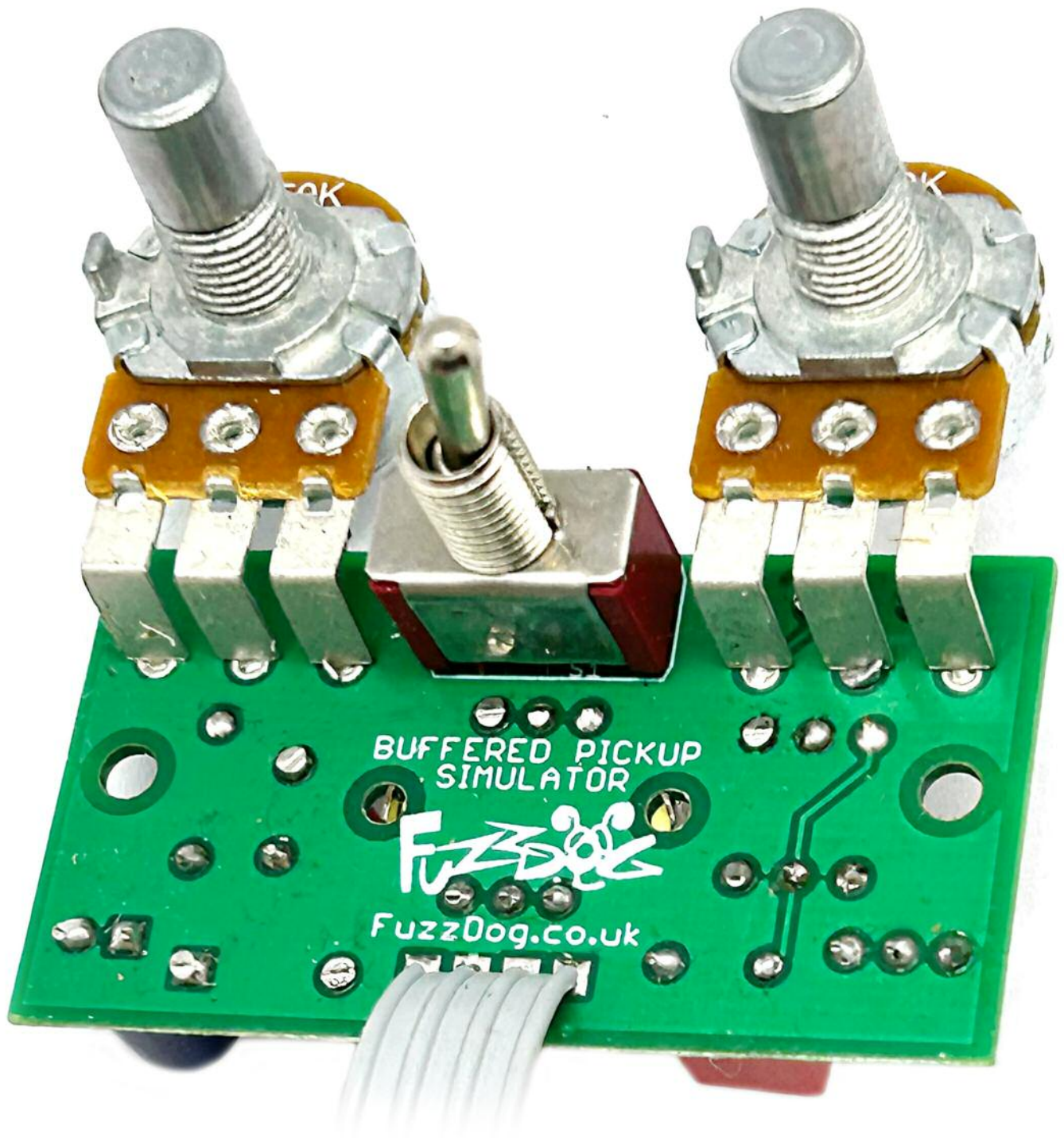
Pickup Sim and Buffer

*You can leave out S1 if you don't want to toggle inductance.
 Place a jumper as shown below in blue for single coil, or orange for humbucker.



R1	1M	C1	1u	D1	1N5817
R2	1M	C2	470p	Q1	2N5457
R3	3K3	C6	1u	XFM1	42TL019
R4	10R	C8	100u elec	VOL	Jumper
		S1	SPDT ON-ON		





If you aren't including the toggle or pots we've included mount holes on the PCB. Just grab a couple of self-adhesive stand-offs and you're sorted.

Drilling template

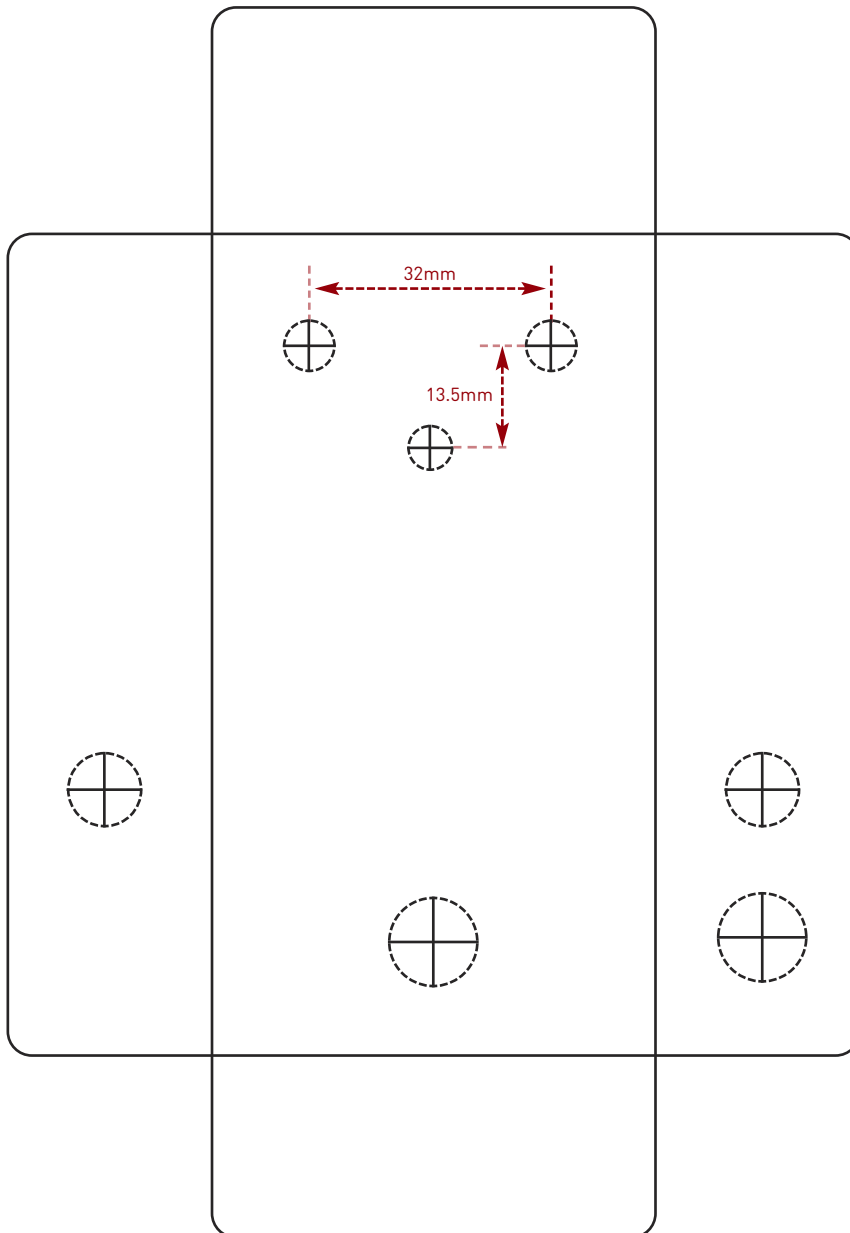
Hammond 1590B - 60 x 111 x 31mm

Drill sizes listed are minimum.

It's a good idea to add 1mm to anything mounted on the PCB that'll poke through the front of the enclosure.

Drill sizes:

Pots	7mm
Jacks	10mm
Footswitch	12mm
DC Socket	12mm
Toggle switches	6mm
Rotary switches	10mm



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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