

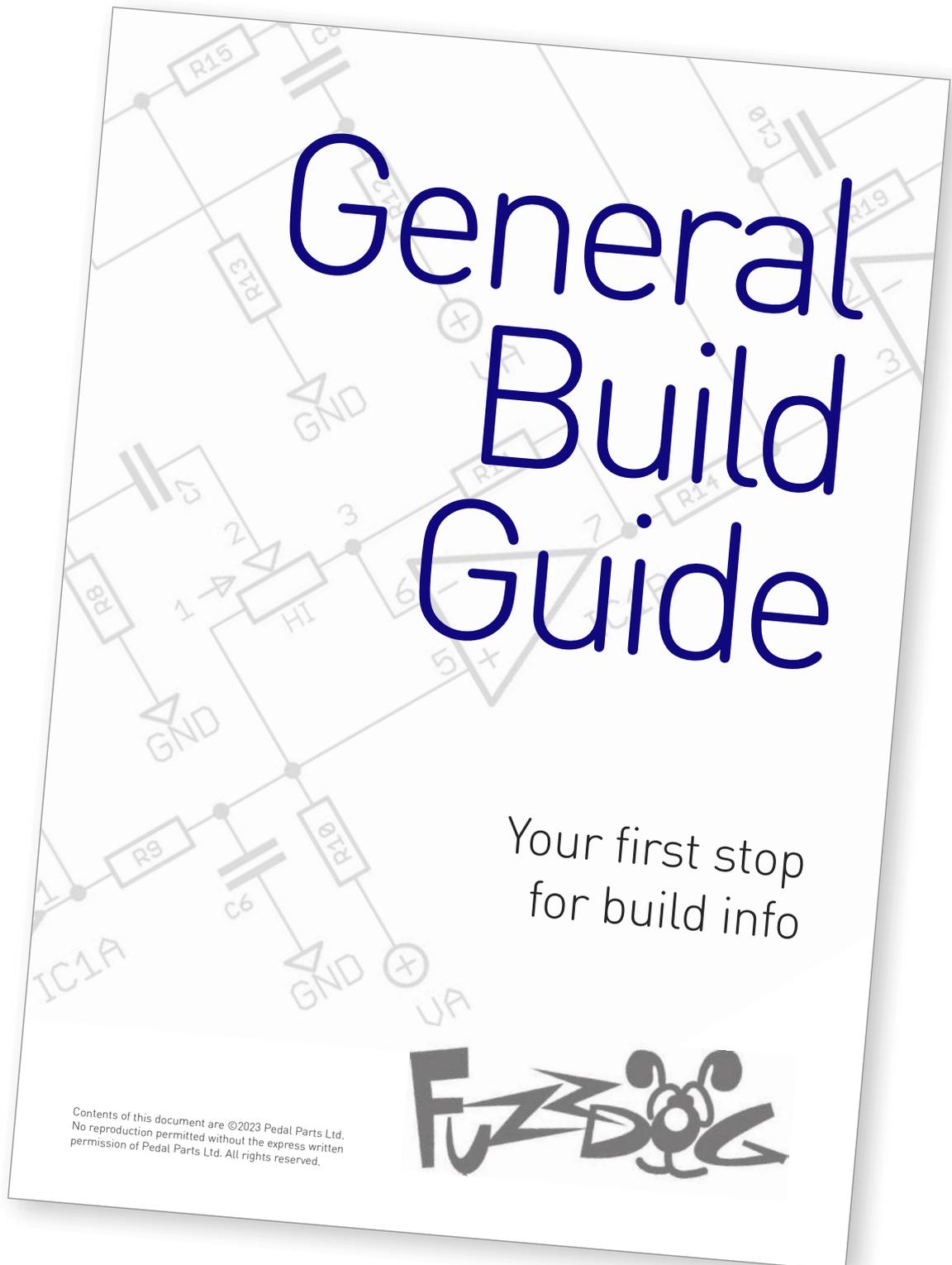
# Tube Screamer v4.0

Tube Screamer  
TS808 / TS9

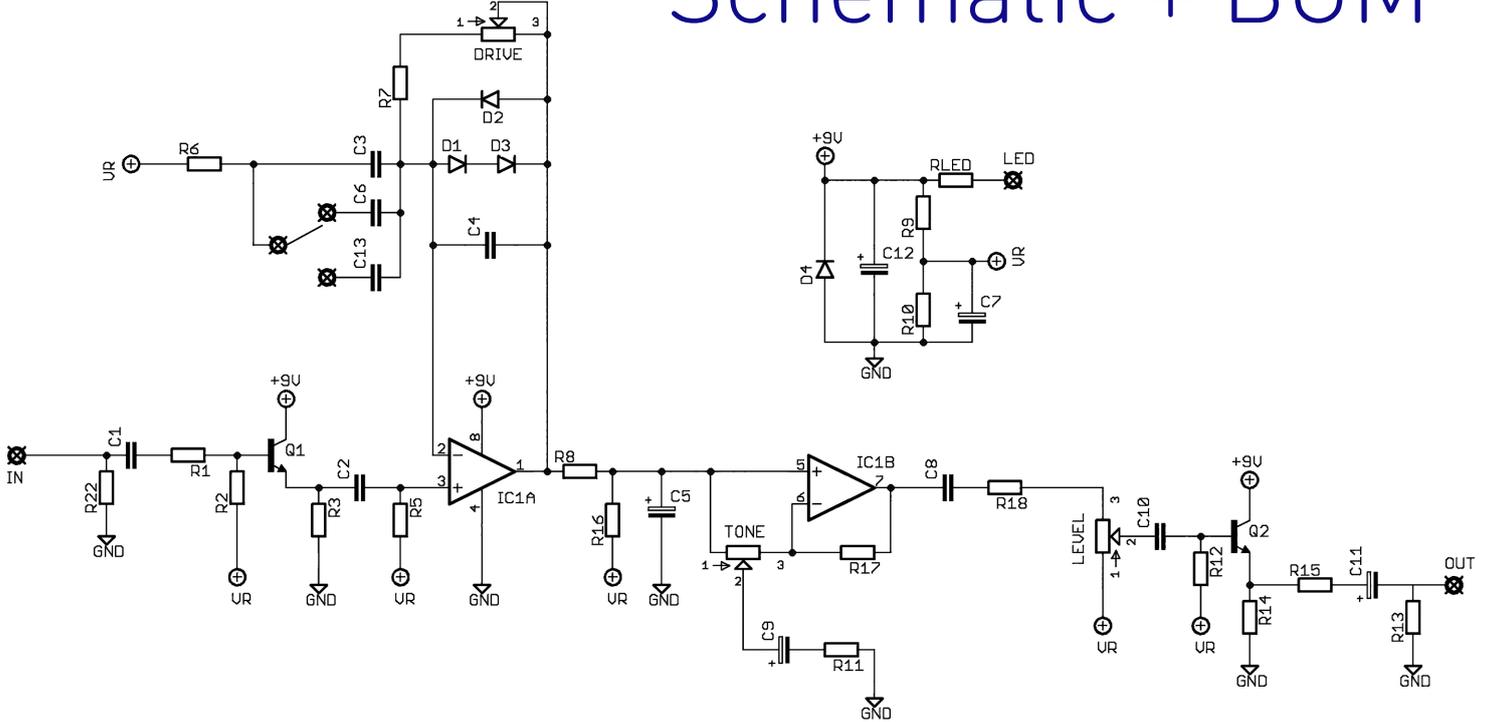


Before you dig in, ensure you download and read the **General Build Guide**.

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



# Schematic + BOM



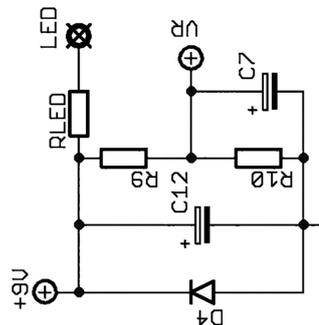
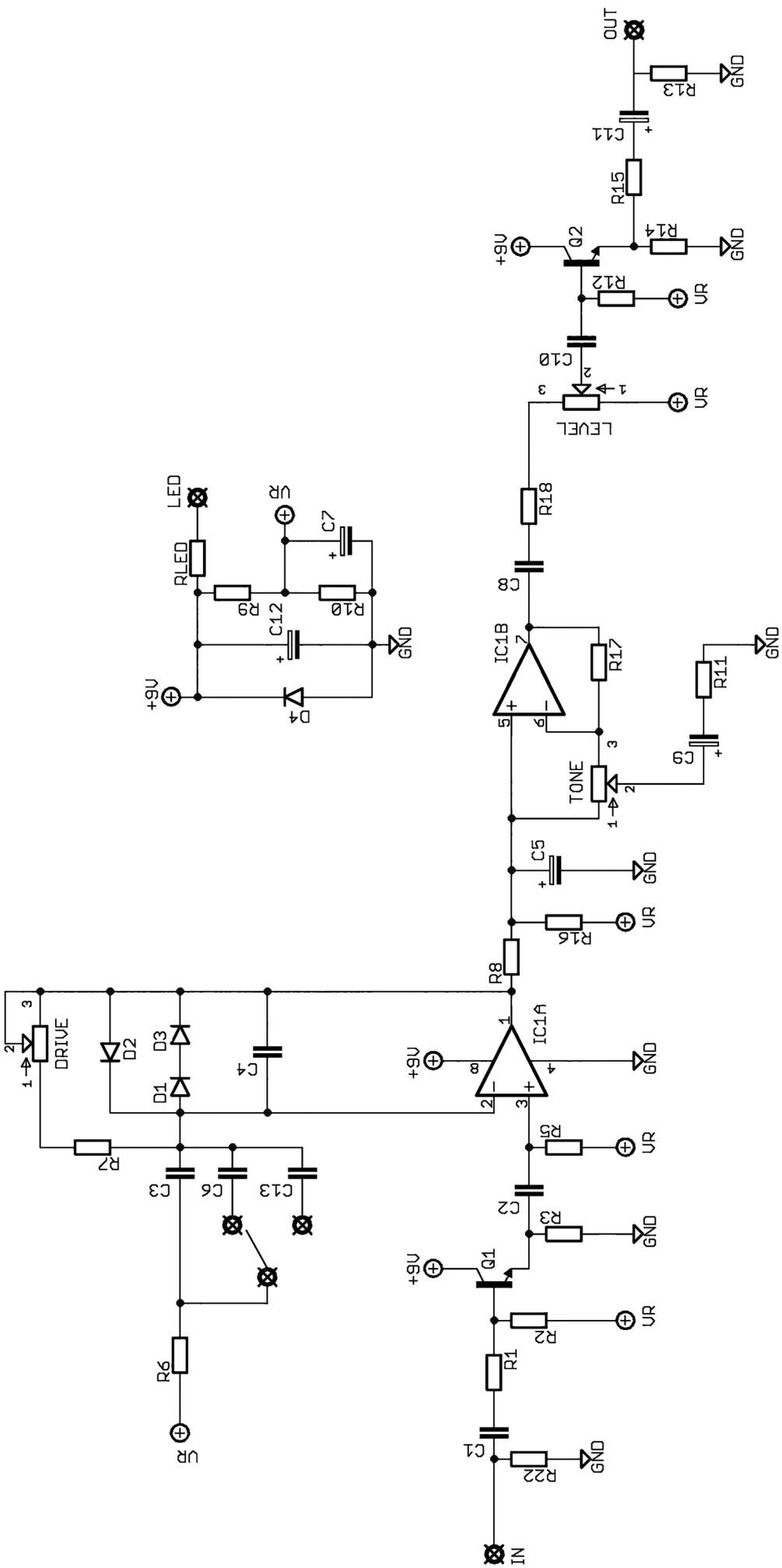
<b>R1</b>	1K	<b>C1</b>	22n	<b>IC</b>	4558
<b>R2</b>	510K	<b>C2</b>	1u	<b>Q1,2</b>	2N3904
<b>R3</b>	10K	<b>C3</b>	47n	<b>D1,2</b>	1N4148
<b>R5</b>	10K	<b>C4</b>	47p	<b>D3</b>	Jumper*
<b>R6</b>	4K7	<b>C5</b>	.22u tant	<b>D4</b>	1N4001
<b>R7</b>	51K	<b>C6</b>	See bass mod	<b>TONE</b>	20KW
<b>R8</b>	1K	<b>C7</b>	47u (4.7u)	<b>DRIVE</b>	500KA
<b>R9</b>	10K	<b>C8</b>	1u	<b>LEVEL</b>	100KB
<b>R10</b>	10K	<b>C9</b>	.22u tant	<b>S1</b>	SPDT**
<b>R11</b>	220R	<b>C10</b>	100n		
<b>R12</b>	510K	<b>C11</b>	10u		
<b>R13</b>	10K (100K)	<b>C12</b>	100u		
<b>R14</b>	10K	<b>C13</b>	See bass mod		
<b>R15</b>	100R (470R)				
<b>R16</b>	10K				
<b>R17</b>	1K				
<b>R18</b>	1K				
<b>R22</b>	1M				
<b>RLED</b>	Empty				

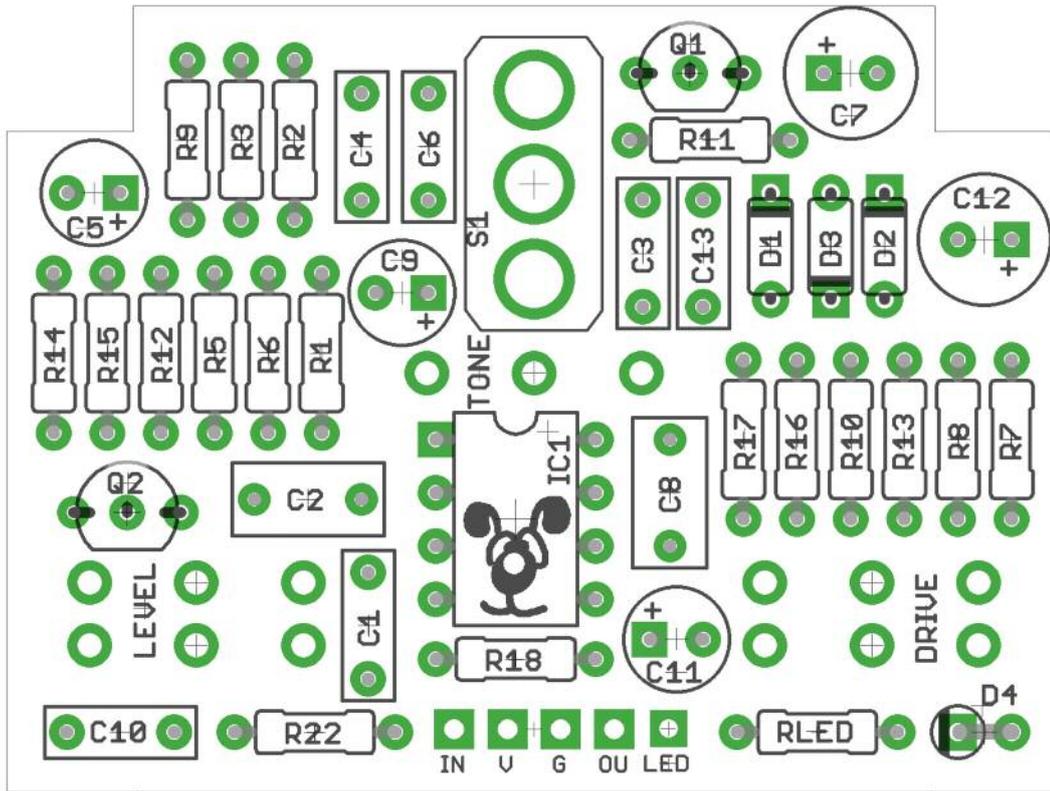
Parts listed are for the TS808 version.

For TS9 substitute parts in blue.

\*Optional extra diode spot for asymmetrical clipping.  
See page 5.

\*\*Optional switch for More Bass mods - see page 5.





PCB Layout ©2016 Pedal Parts Ltd.

Snap the small metal tag off the pots so they can be mounted flush in the box.

You should solder all other board-mounted components before you solder the pots.

Once they're in place you'll have no access to much of the board.

RLED was the original current limiting resistor for your LED in the days before we supplied footswitch daughterboards. This is now redundant. Leave it empty and ignore the LED pad.

If you aren't using the optional More Bass switch there's no need to do anything with the pads for S1. Ignore them.

There are two sets of pads for LEVEL and DRIVE. This gives you the option to place these controls further down the enclosure. Use one set or the other.



## MORE BASS MODS

C6 and C13 are extra caps for the More Bass mod. Use one cap spot along with a SPDT ON-ON switch for a single extra bass setting. If you use C6, the extra bass will be engaged when the switch is up. Use C13 for extra bass in the down position.

For two extra settings use both cap spots and a SPDT ON-OFF-ON switch.

Recommended values are 47n for much more bass, 22n for a little more bass, or use both if you're going for two settings.

## CLIPPING

D3 is included so you can easily add asymmetrical clipping which changes the nature of the tone. If you want this, just put a 1N4148 in D3 instead of a jumper.

# Drilling template

**Hammond 1590B - 60 x 111 x 31mm**

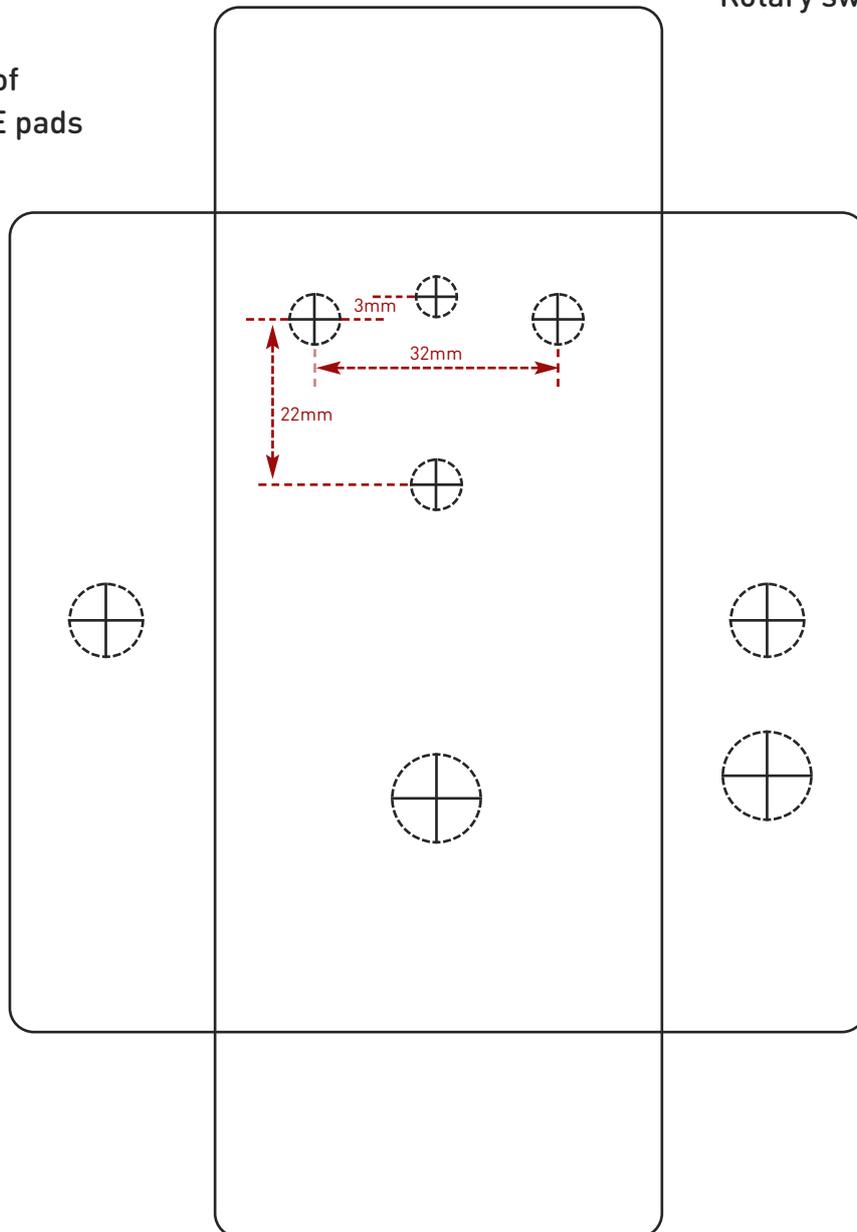
Drill sizes listed are minimum.

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

Using upper set of  
LEVEL and DRIVE pads



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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# Drilling template

**Hammond 1590B - 60 x 111 x 31mm**

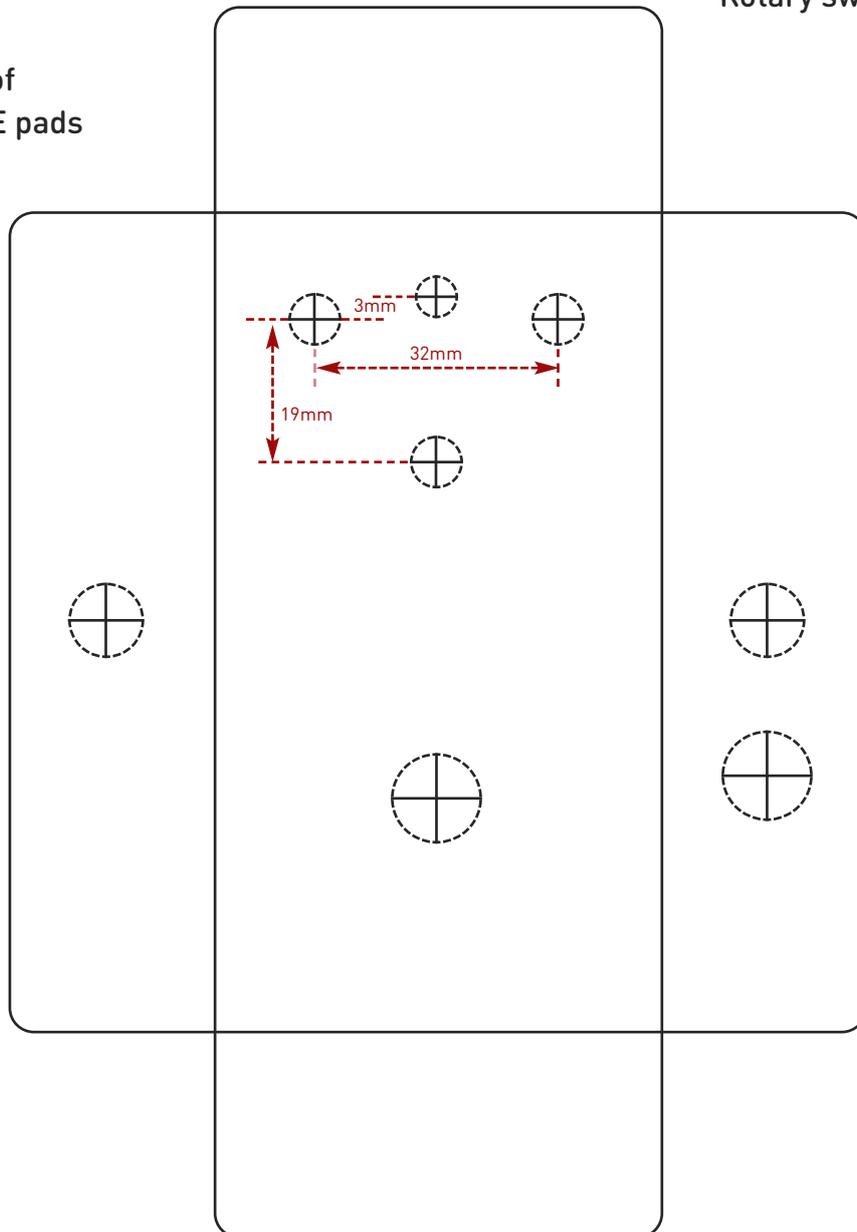
Drill sizes listed are minimum.

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

Using lower set of LEVEL and DRIVE pads



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