

Sonic Churn

This modified SD-9 is a creamy smooth beauty



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

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



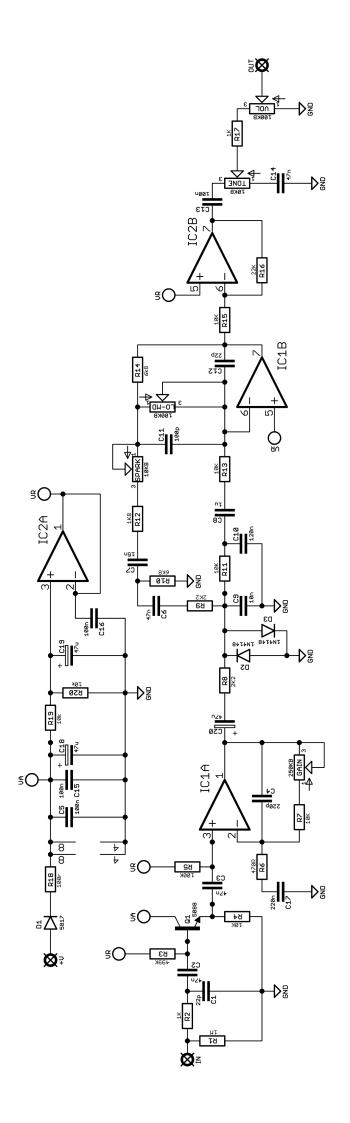
Schematic + BOM

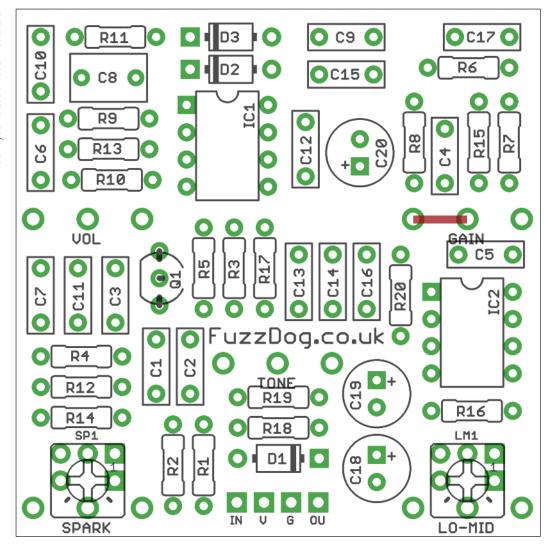
D.4	4.14	0.4	0.0	D.4	4115045
R1	1M	C1	22p	D1	1N5817
R2	1K	C2	47n	D2-3	1N4148
R3	499K*	C3	47n		
R4	10K	C4	220p	Q1	2N5088
R5	100K	C5	100n		
R6	470R	C6	47n	IC1	OPA2134
R7	10K	C7	15n	IC2	4558
R8	2K2	C8	1u		
R9	2K2	C9	10n		
R10	6K8	C10	120n	GAIN	250KB**
R11	10K	C11	100p	TONE	10KB
R12	1K8	C12	22p	VOL	100KB
R13	10K	C13	100n		
R14	6K8	C14	47n	LO MI	D 100K trimmer***
R15	10K	C15	100n	SPARI	K 10K trimmer***
R16	22K	C16	100n		
R17	1K	C17	220n		
R18	100R	C18	47u elec		
R19	10K	C19	47u elec		
R20	10K	C20	47u elec		

^{*}Get outa here. 510K will be absolutely fine.

^{**}Gain pot requires a jumper. See page 5.

^{***}These are trimmers on the original, but we've added spots so you can use pots if you prefer. The really are set-and-forget though. Use 10KB and 100KB if you must.





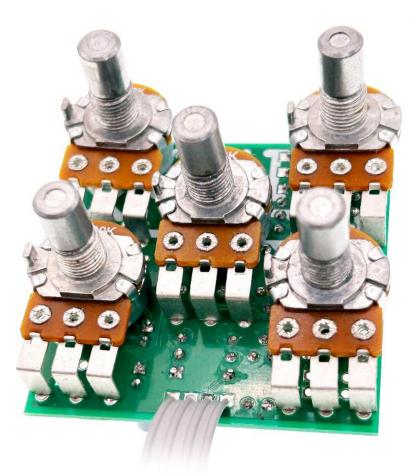
Snap the small metal tags off the pots so they can be mounted flush in the box.

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.

GAIN POT JUMPER

A liitle oopsie when doing the layout requires a jumper, shown in red above.

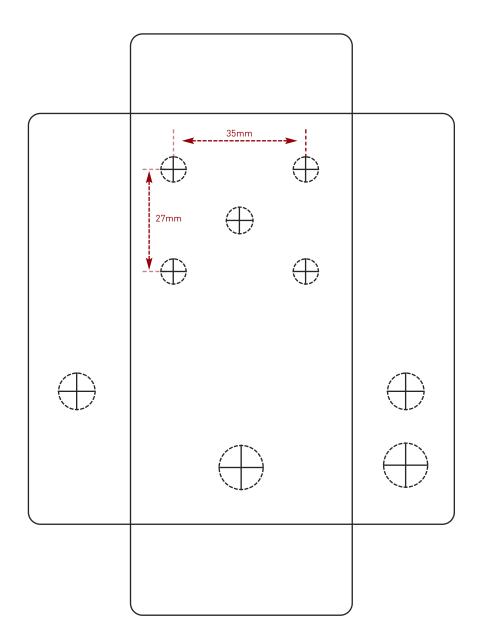


Drilling template

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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