



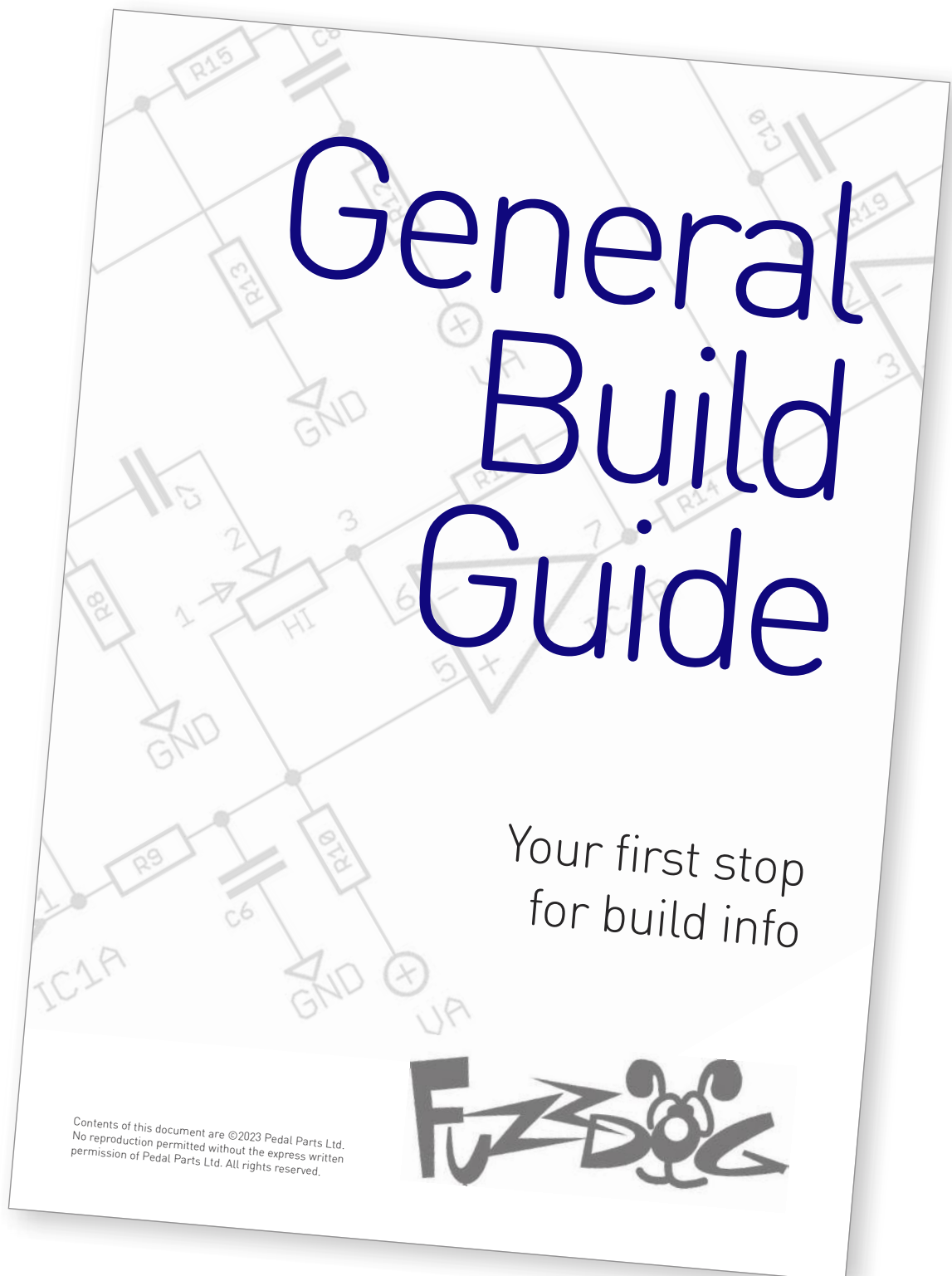
Dude Boost

Tim Escobedo's
Duende J-FET Boost

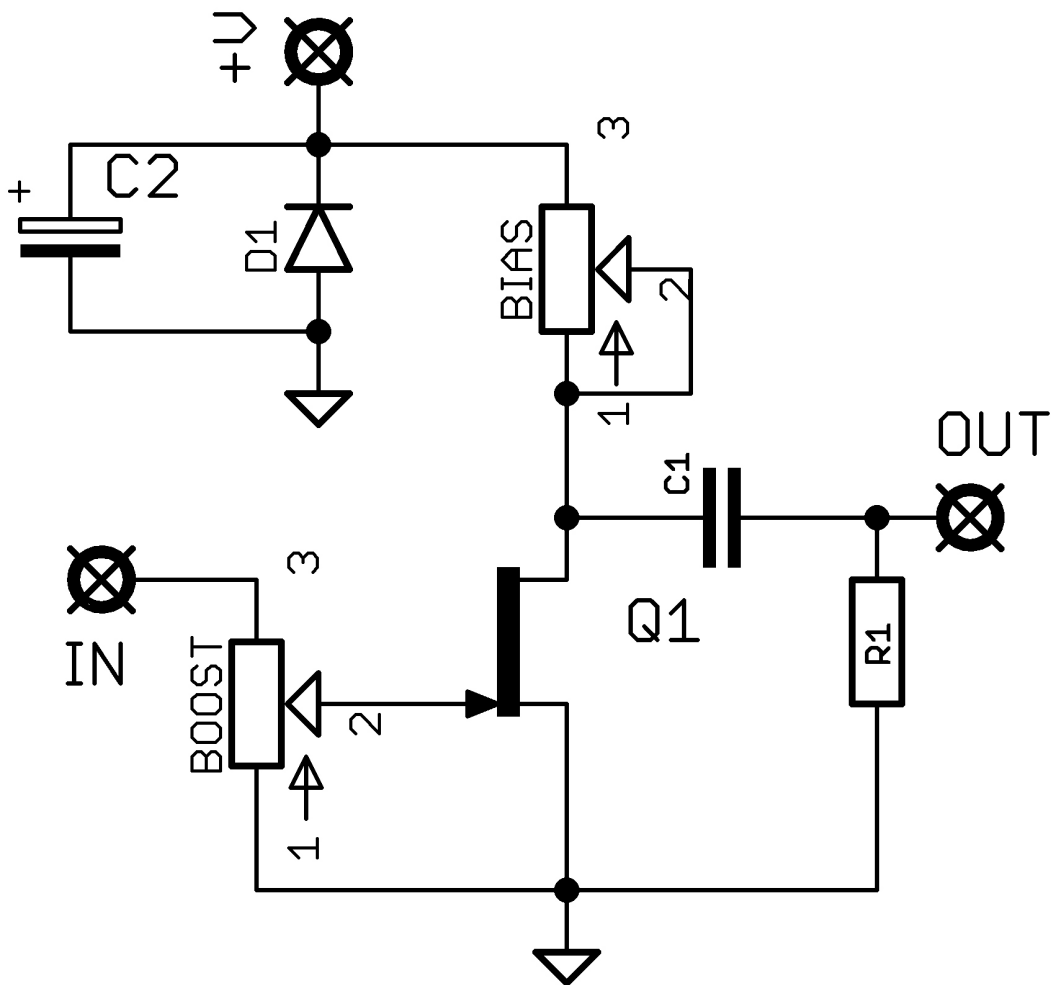


Before you dig in, ensure you download and read the **General Build Guide**.

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

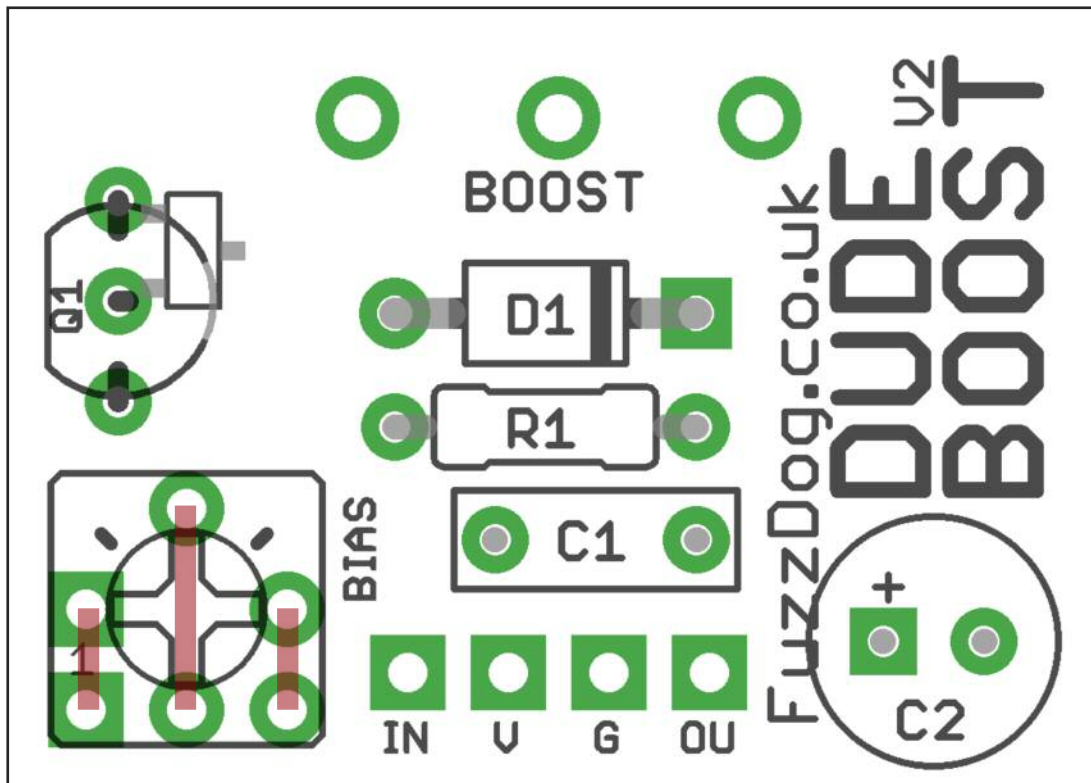


Schematic + BOM



R1	100K
C1	100n
C2	47u elec
D1	1N4001
Q1	J201*
BIAS	25K
BOOST	1MB

*Other FETs should work ok, such as 2N5457.



PCB layout ©2022 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.

BIAS TRIMMER

You'll notice there are six pads on the board for the trimmer, but you only have three legs. The extras are to allow different formats to be used. The pads are connected within the PCB as shown above in red. You need one leg in one pad of each of the connected pairs.

BIASING

If you're using a multimeter, set it to DC voltage. Place your common probe on any ground spot (pin 1 of the pot is handy), pin 2 on the leg of the FET marked above in blue, or either of the pads in the first column of the trimmer. There's no 'correct' voltage to aim for, though it should be somewhere around 4.5V with a 9V supply. You may prefer it higher or lower. Trust your ears.

You can set the bias without a meter - adjust the trimmer until it sounds how you want it to.

Drilling template

Hammond 1590B

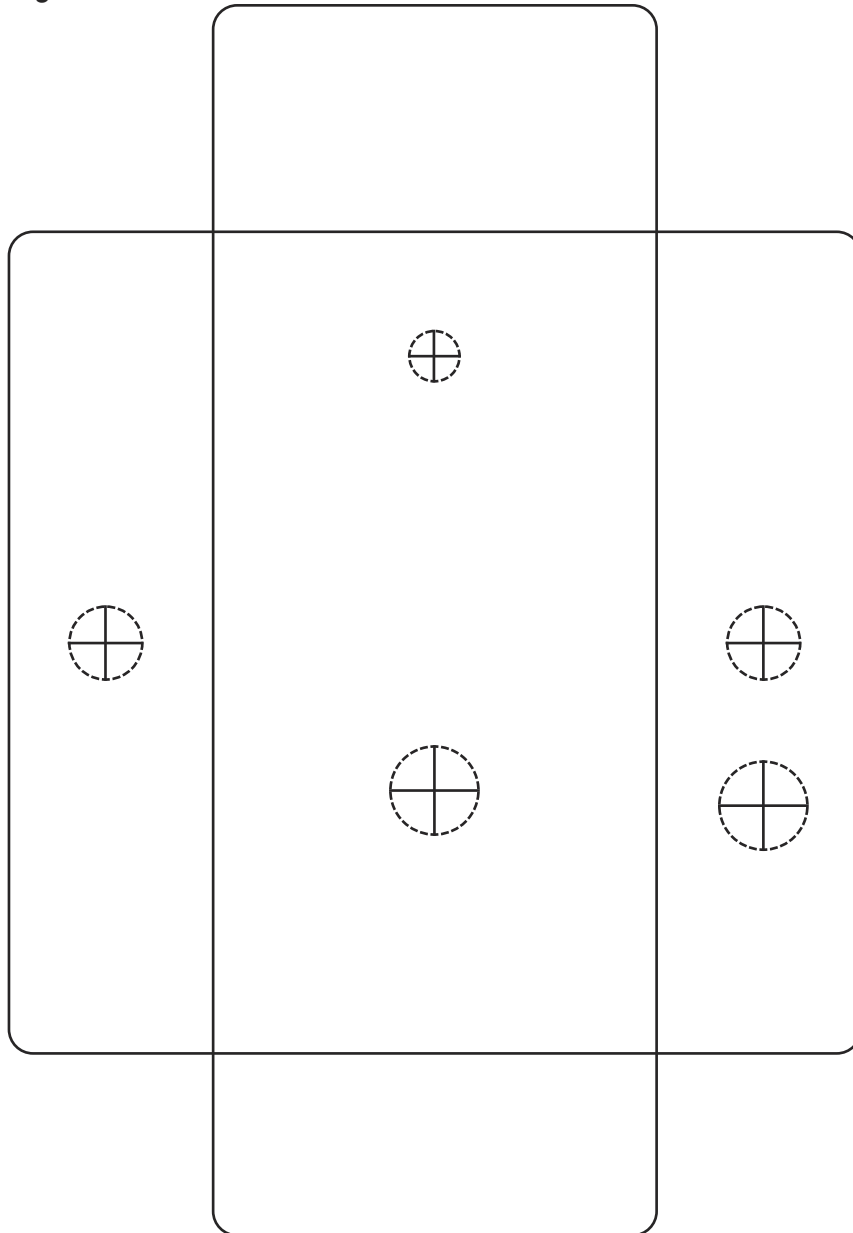
60 x 111 x 31mm

Recommended drill sizes:

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

It's a good idea to drill the pot and toggle switch holes 1mm bigger if you're board-mounting them.

Wiggle room = good!



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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