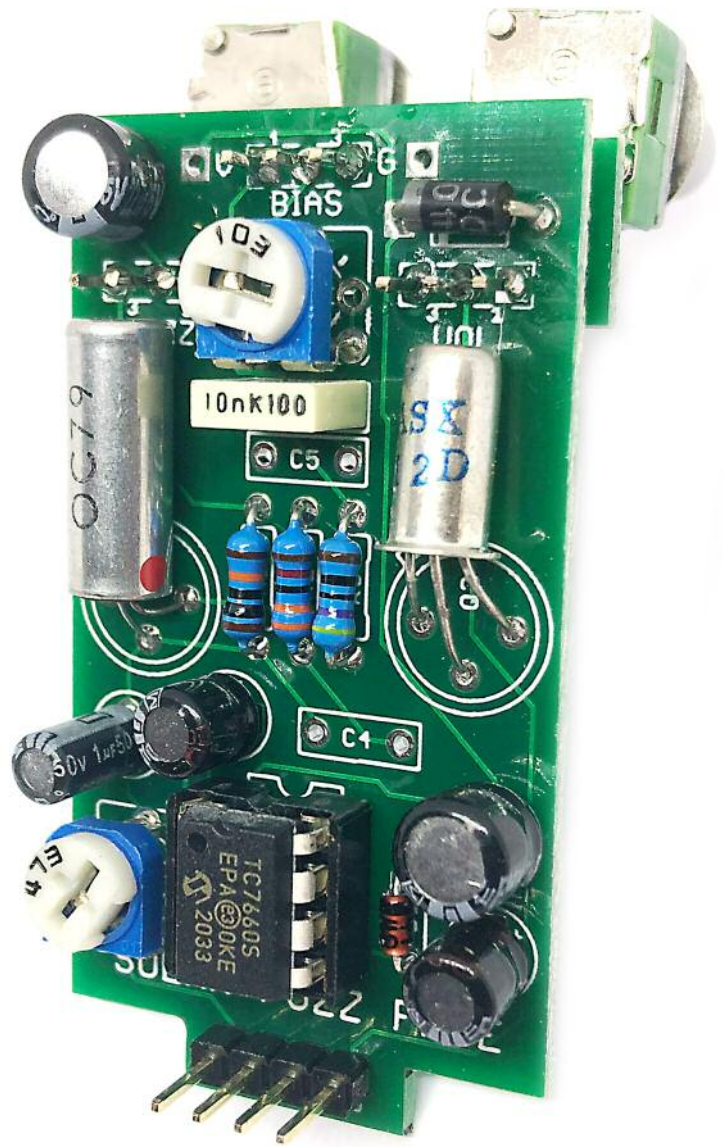


FUZZPUP



Solar Face

Si or Ge Fuzz Face with
a magic bias dial



IMPORTANT

Before you start...

Grab the general build doc that covers all FuzzPup V2 builds.
Most of the information you need for this build is in there.

Read it? OK, carry on.



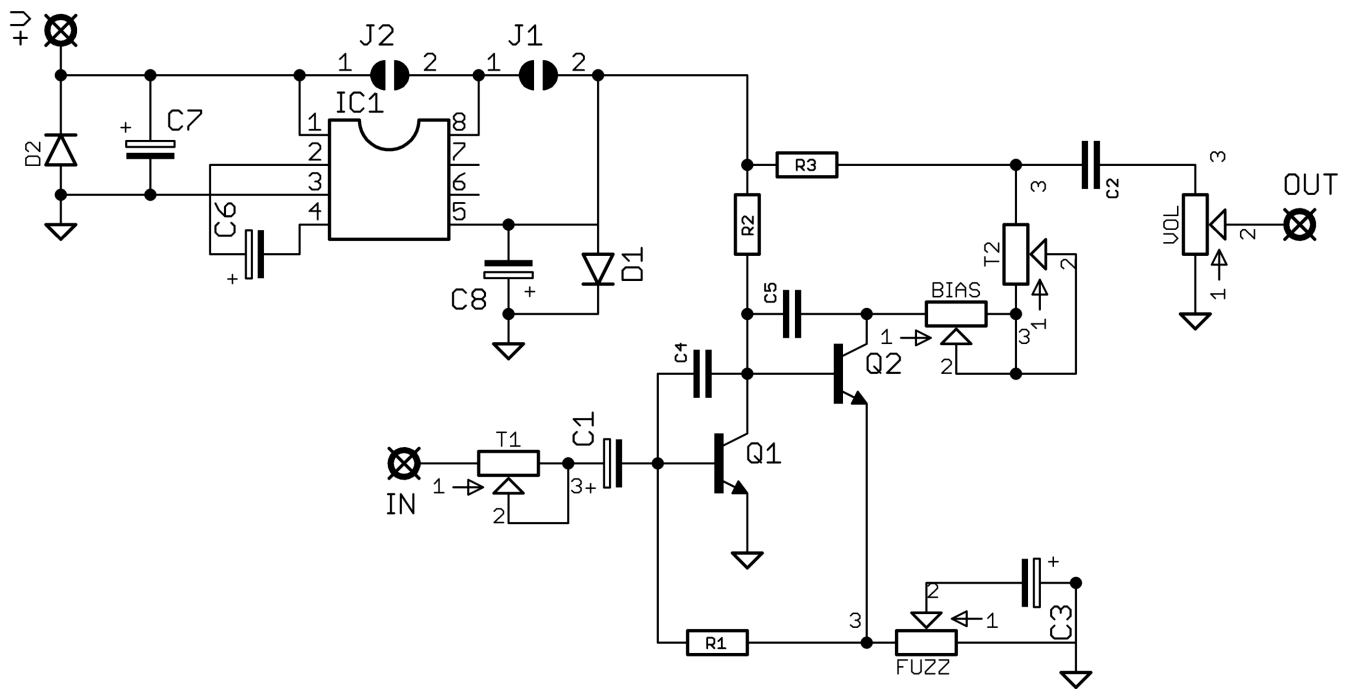
FuzzPups v2

Lovely little boxes of joy with a
standardised build pattern



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Schematic + BOM



This is the full schematic including the following optional parts:

Voltage Inverter (D1, IC1, C6, C8) to make a positive ground build (using PNP transistors) work with standard negative ground supplies.

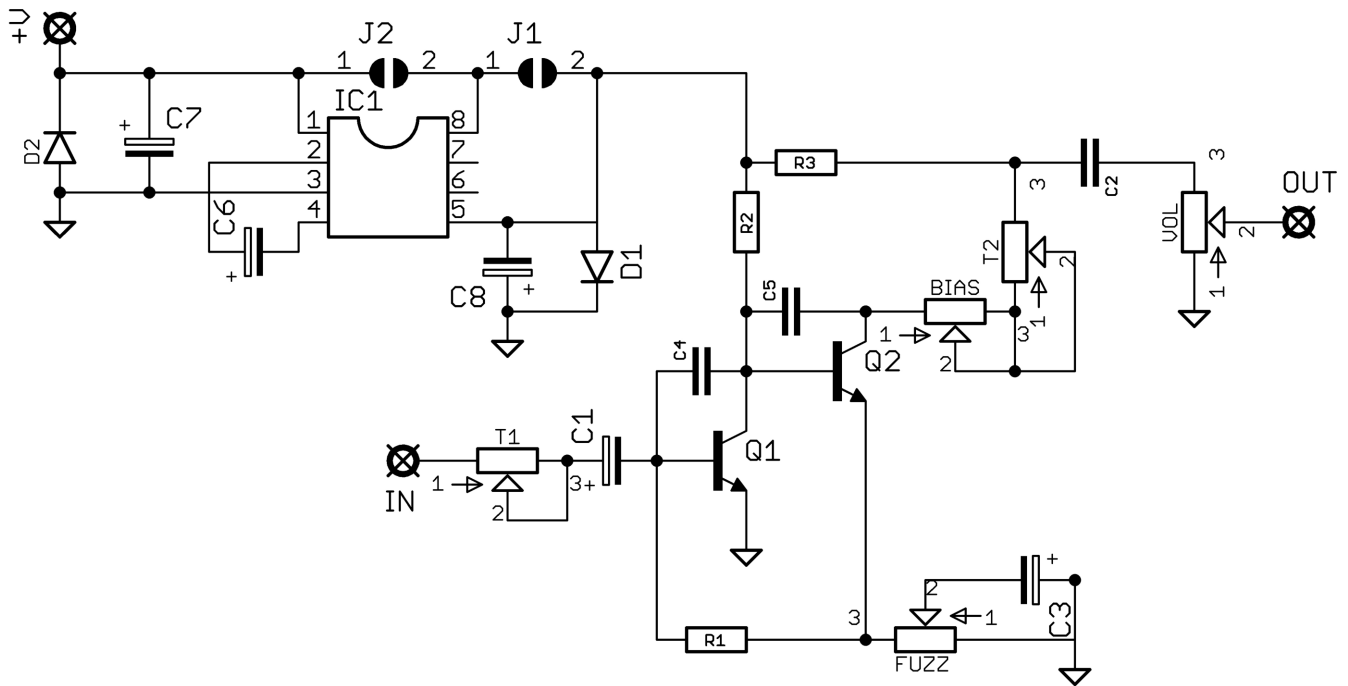
To use the voltage inverter simply add these parts. You also need to jumper the pads marked J2 on the back of the PCB with a blob of solder. You can use a 7660 or MAX1044.

If you're building a NPN / negative ground circuit, so don't require the inverter, leave these parts out and jumper the two pads marked as J1 on the back of the PCB with a blob of solder.

Smoothing Caps (C4, C5) to prevent high frequency oscillation on builds with higher gain silicon transistors. These aren't required on builds using germanium transistors in the standard Fuzz Face gain ranges.

Schematic + BOM

PNP/Ge



R1 100K
R2 33K
R3 470R

C1 1u elec
C2 10n
C3 22u elec
C4 Empty
C5 Empty
C6 10u elec
C7 22u elec*
C8 10u elec

D1 1N4148
D2 1N4001
IC1 TL7660SEPA
Q1-2** Ge Fuzz Face set
BIAS 5KB
FUZZ 1KC
VOL 250KA

T1 47-50K
T2 10K

Parts listed in green are the optional voltage inverter. If you're not adding this leave these out and connect the J1 pads on the back of the board as detailed on the previous page with a blob of solder. You'll have to wire it as positive ground if you're using PNP transistors and aren't using the inverter.

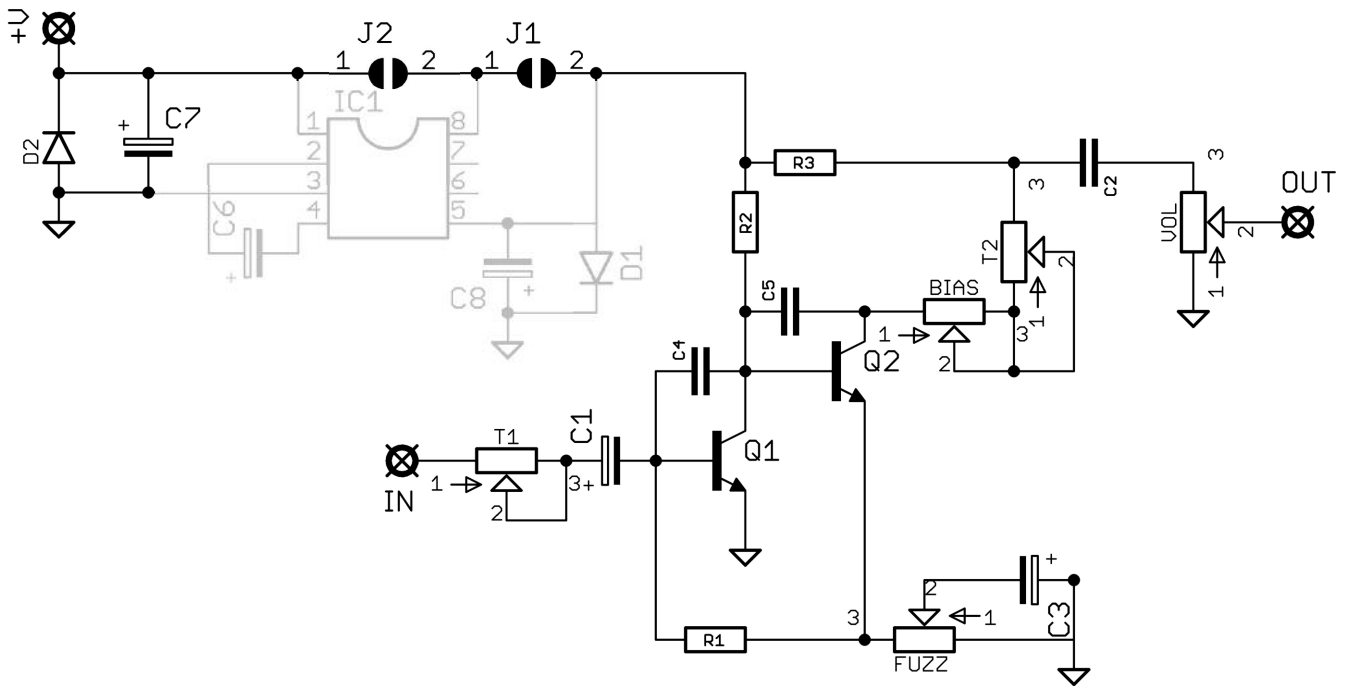
*This is the largest value we could find that is short enough to physically fit into the build. Use 10u if your 22u are too big.

**Typical transistor gain values for a Fuzz Face are:

Q1 - 70ish
Q2 - 120ish

Schematic + BOM

NPN/Si



R1	100K	C1	1u elec***	D1	Empty
R2	33K	C2	10n	D2	1N4001
R3	470R	C3	22u elec***	IC1	Empty
		C4	*	Q1-2**	BC108 etc
		C5	*	BIAS	5KB
		C6	Empty	FUZZ	1KC
		C7	22u elec‡	VOL	250KA
		C8	Empty	T1	47-50K
				T2	10K

*You should use small value ceramic caps for C4-5. The larger the value the more top-end will be removed from the signal.

We go for C4 - 470p, C5 100p

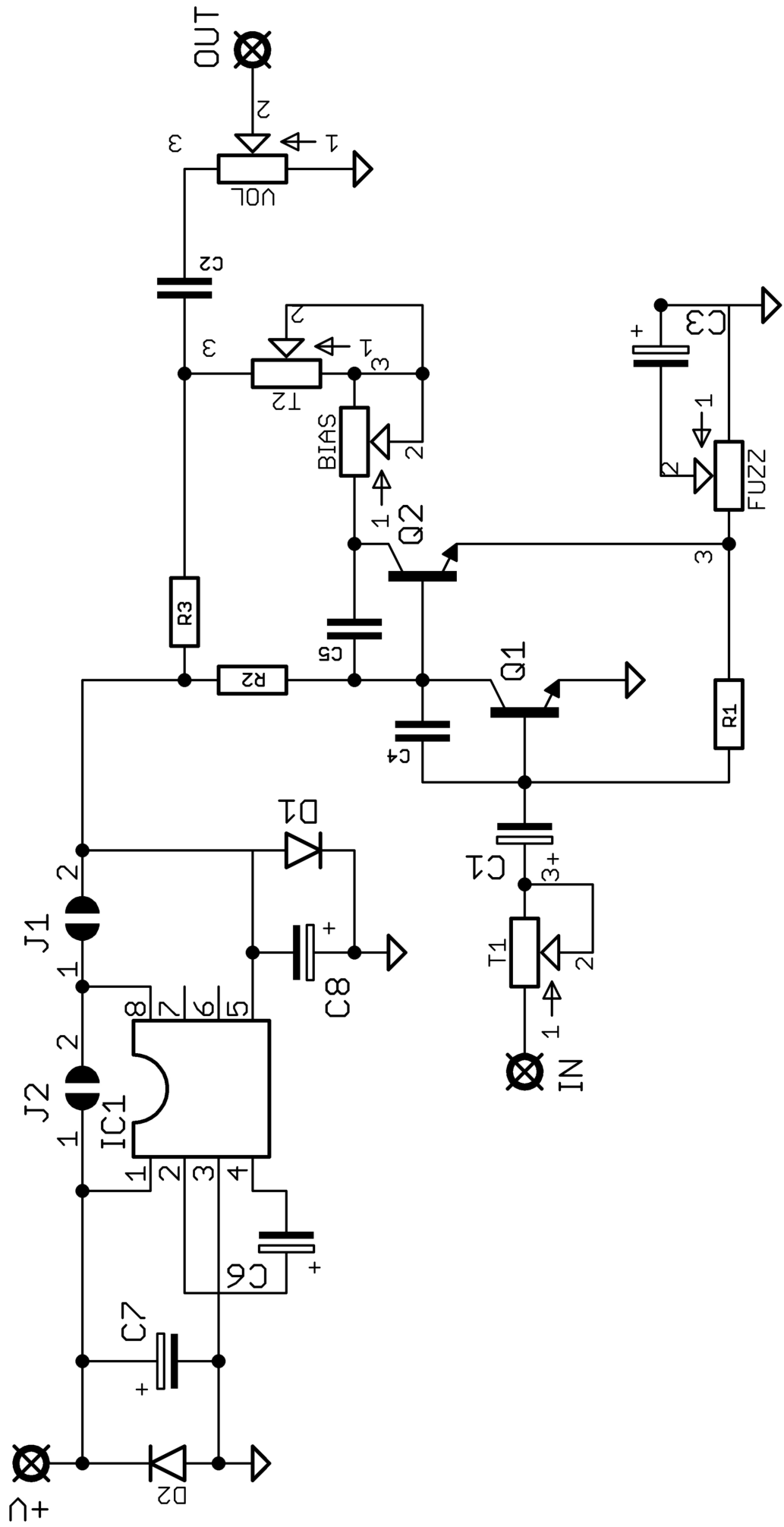
**Feel free to try any low-medium gain BJT transistors.

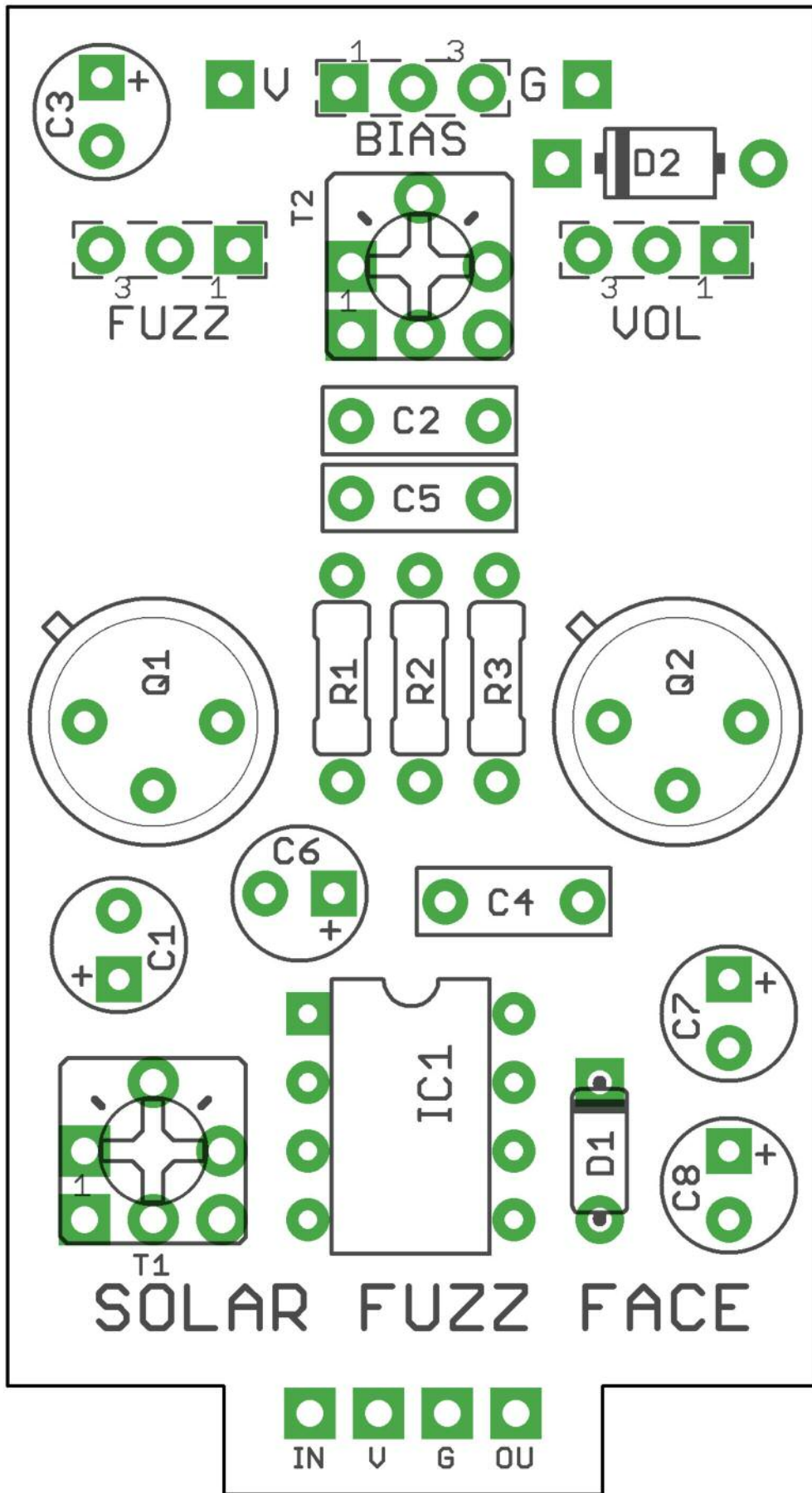
***Reverse C1 and C3 for this configuration.

‡This is the largest value we could find that is short enough to physically fit into the build. Use 10u if your 22u are too big.

Don't forget to jumper the J1 pads.

This configuration will also work for NPN Germanium transistors, but you won't need C4-5.





Everything else you need is in the
general build doc you've already read.

Head back to that.



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