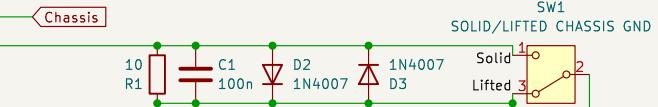


Q1 and Q2 can be:

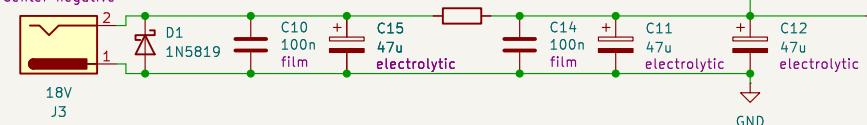
- Sovient Germanium MP37 NPNs ("МП37", Germanium variant)
- Korean Motorola 2n2369a NPNs (Silicon variant)
- 2n2219a NPNs (Silicon variant)

Note that for Germanium transistors collector feedback resistors (R28 and R29) are not needed.

Also note that if you pick Germanium transistors other than MP37 make sure they are NPNs and non PNPAs most of the Germanium transistors are. And that they can handle 18V safely.



Center negative



Germanium transistors have internal leakage between collector and base so they do not require a feedback resistor, silicon ones on the other hand do require it for this gain stage topology.

Technically you can try whatever NPN transistors you can find, though they all can have its own unique way of clipping.  
Pick one that suits your taste.

Featuring VOLTS knob (buffered 3-18 volts range, for the gain stages), each transistor bias (Q1B, Q2B, clockwise = more fuzz).  
PRE-volume attenuation (how much goes into the gain stages), post-VOLUME, and TONE knob (LP filter, around 500Hz-20kHz).

Simple low-hFE NPN transistor-clipping fuzz/boost guitar pedal.  
Two gain stages preserve original signal polarity orientation (non-inverting).  
Feeds from 18V. Technically will work from 9V, but better 18V.  
You can control anyway how much voltage gain stages receive (as low as 3 volts).

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**Title: Wenzel's Fuzz/Boost**

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