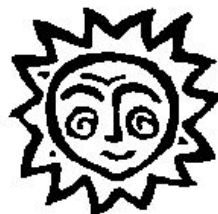


# ANALOG.MAN



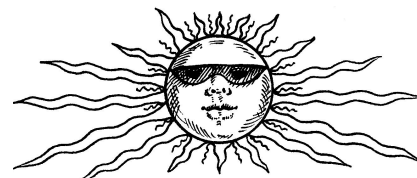
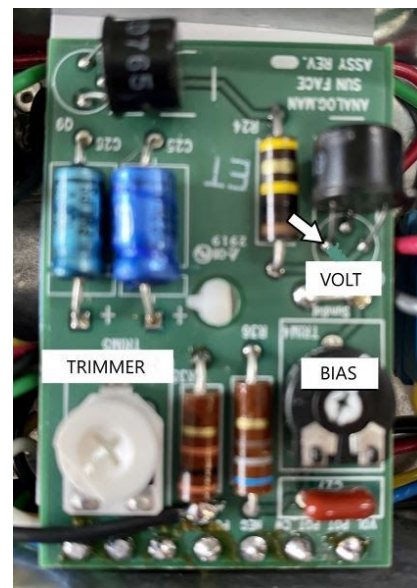
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Nov 2020

## the **Sun Bender MK1.5 FUZZ!!**

Our Sun Bender MK1.5 is the 2<sup>nd</sup> version of the Tone Bender, made in the mid 1960s. It uses two transistors, unlike most other tone bender versions which use three. But it still has TONS of fat, juicy fuzz!

1. True bypass on / off switch, no loss of tone when off.
2. Battery disconnected when INPUT cord removed (input is on the right).
3. No Power jack or LED as these are detrimental to the ultimate fuzz.
4. Positive ground power. If you share a power supply with a normal pedal (negative ground), you will destroy the power supply.
5. Battery should be a cheap non-alkaline general purpose battery, as found in dollar stores. These sound better than an alkaline in this pedal, and even a cheap battery will last forever since there is no LED.
6. For best sound, this effect should not have any buffers or non-true bypass effects between it and the guitar.
7. Volume Knob needs no explanation.
8. Fuzz knob : Unlike a fuzz face, you can set this knob anywhere and get cool sounds. .
9. CLEAN TRIMMER: The white knob on the circuit board (TRIM103). You can turn this one with your fingers. Normal setting is full down CCW, for full fuzz availability. This knob works the same as the VOLUME control on your guitar, which interactively cleans up the fuzz sound. We may not have this on all Sun Benders as it's not really needed.
10. BIAS knob: the knob in the center of the pedal's SUN. It is set by us to the "sweet spot" for the fuzz, about 5 volts on the High transistor at about 70 degrees temperature, with the face straight. You may try other settings, it sounds cool when over biased and set to about 3:00. You can turn it down to get a stuttering, weak fuzz sound, like the earlier Tone Benders, which can sometimes be useful.



**ENJOY YOUR FUZZ!!!**    Regards, Mike - AnalogMike@aol.com -  
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