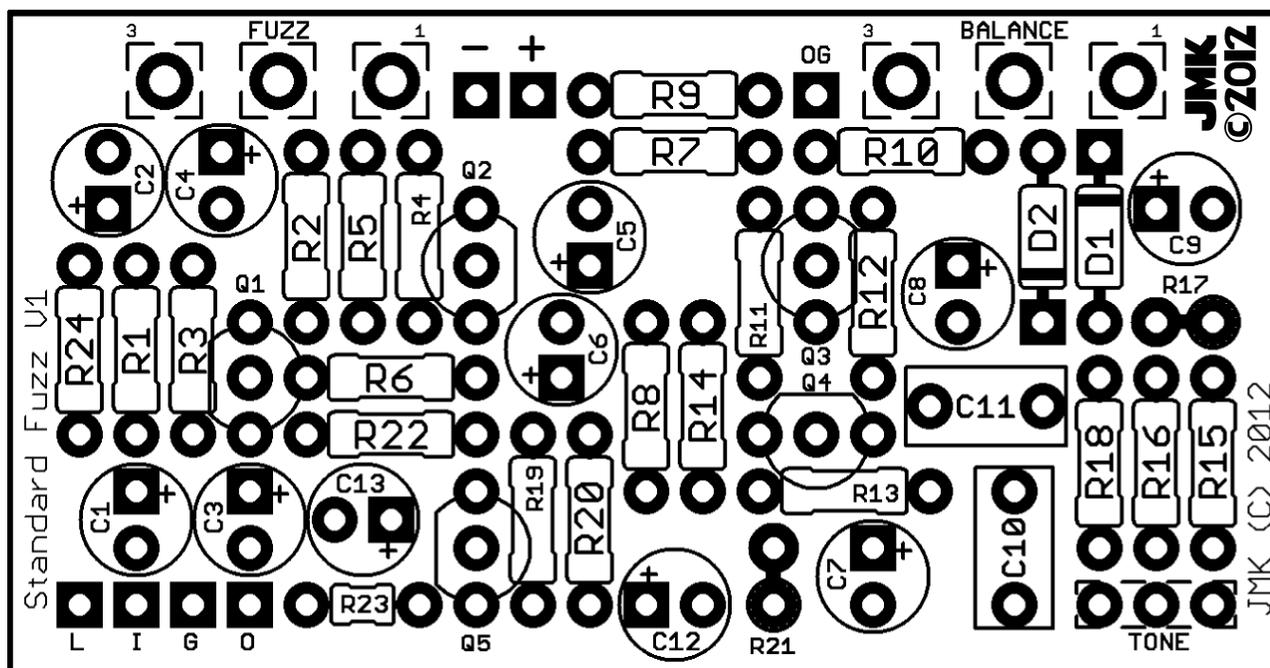


JMK PCBs PRESENTS...

STANDARD FUZZ

PCB AND SCHEMATIC ARTWORK (C) 2012 JMK PEDALS
VERSION 1.1: 10/30/2012



Resistors		Capacitors		Transistors					
R1	100K	R13	150K	C1	10uF*	C8	10uF*	Q1	2SK30A
R2	10K	R14	22K	C2	10uF*	C9	10uF*	Q2-Q5	2SC828
R3	3K	R15	47K	C3	10uF*	C10	1nF	Potentiometers	
R4	510K	R16	10K	C4	10uF*	C11	220nF	FUZZ	B50K
R5	10K	R17	22K	C5	10uF*	C12	10uF*	BALANCE	B50K
R6	10K	R18	10K	C6	10uF*	C13	10uF*	Diodes	
R7	1K	R19	100K	C7	10uF*			D1, D2	Ge
R8	1K	R20	15K					Switches	
R9	150K	R21	10K					TONE	SPDT
R10	22K	R22	1K						
R11	10K	R23	10K						
R12	1K	R24	4.7K						

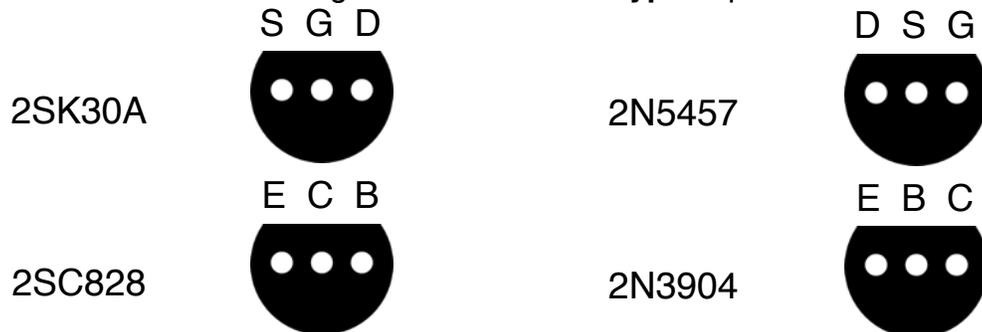
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BUILD NOTES

- The Standard Fuzz is a clone of the (in?)famous Ibanez™ pedal of the same name.
- Hooking up the PCB is pretty simple, but to clarify: L = the connection for the + end of an LED (CLR is R24); I = PCB Input; G = Ground for the Switch; O = PCB Output; + = 9V input; - = Ground for DC Jack; OG = Extra Ground for 1/4" Output or Input Jack
- It should be noted that there are several odd parts in the BOM for this project. Below are some common substitutes for these parts. You can find precise parts if you would like, ebay is a good source for the transistors as an example.

Part Number	Original Value	Common Substitute
Q1	2SK30A	2N5457
Q2-Q5	2SC828	2N3904
D1, D2	Unknown	1N34a

- Like with all Fuzz Pedals, the transistors matter for the right sound. In this case, the called for transistors are pretty much the same *sonically* to the common substitutes suggested below, however, the **pinouts are different**. This is why **we highly recommend socketing your transistors!** Socketing allows you to switch your transistors easily if you have installed them backwards, and also allows you to swap the pins if needed. See the diagrams below for the **typical** pinouts of these transistors.



- **GAIN RANGES MATTER.** It's been discovered that the HFE ranges of the 2SC828 are quite a bit lower than typical NPN transistors. For example, it was originally suggested that a 2N5088 would be good, but it's typical gain range is too high. The 3904 is better. Measure your transistors and aim for an **HFE of 150 or lower**.
- The tone switch is classically installed as a foot switch. However, you can also relegate this to a toggle switch, allowing you to easily fit this effect in a 125B (recommended) and potentially a smaller enclosure as well.
- If you find your pedal noisy, try using shielded wire on the output (and input) of the PCB. In particular, playing with the location of these wires in your enclosure may help.
- Centre to centre pot spacing is 1.3"
- The board measures 1.175" tall by 2.25" wide

TRUE BYPASS WIRING DIAGRAM

