

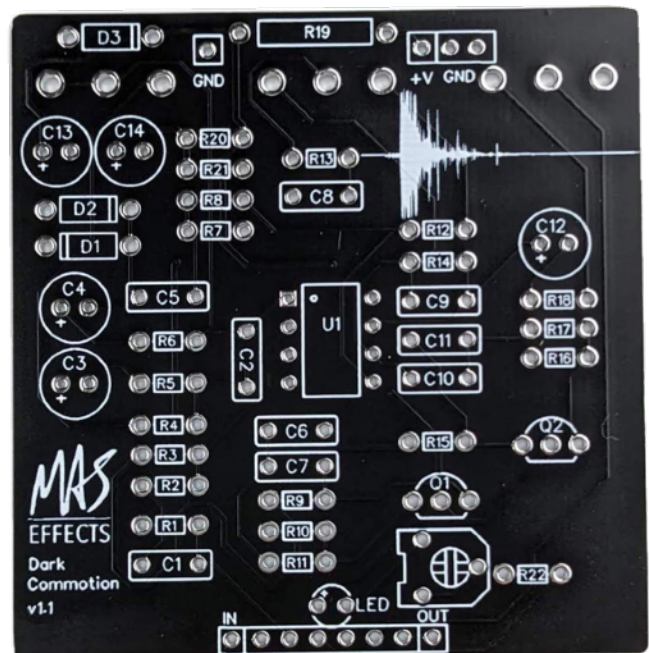


# Dark Commotion

## Compare to Ibanez BN-5 Black Noise

I hope you have a ton of fun building this. MAS Effects doesn't primarily sell DIY pcbs, but since it doesn't seem to be available from any of the usual suppliers, and since I loved this pedal so much, I thought I would share.

If you have any questions or run into any problems, you can email me directly <[mark@mas-effects.com](mailto:mark@mas-effects.com)> or for quicker responses you can post to various DIY pedal groups online (to which I will also reply).

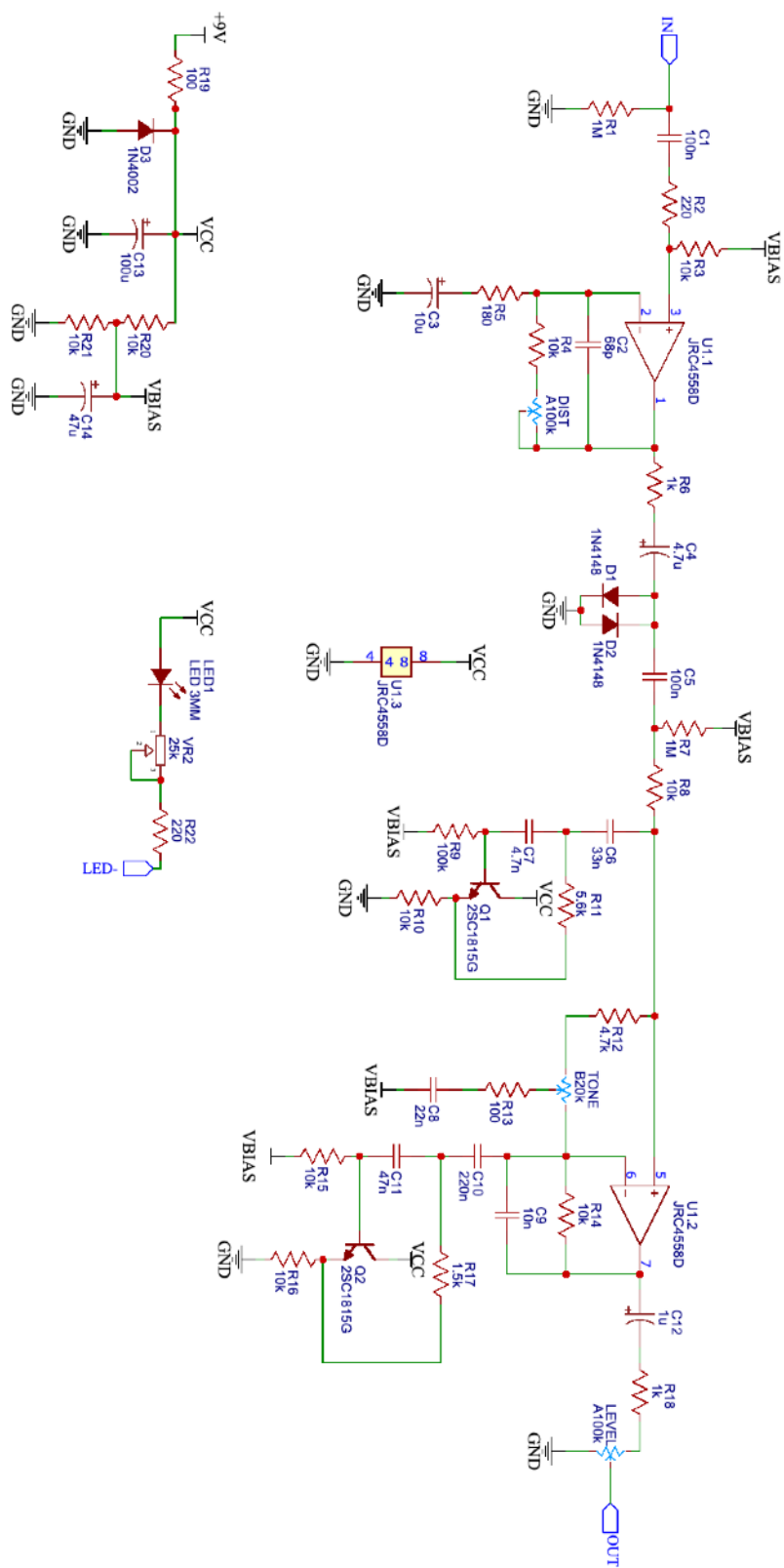


# Bill of Materials

Part	Designator	QTY	Note
100n	C1,C5	2	
68p	C2	1	
10u	C3	1	
4.7u	C4	1	
33n	C6	1	
4.7n	C7	1	
22n	C8	1	
10n	C9	1	
220n	C10	1	
47n	C11	1	
1u	C12	1	
100u	C13	1	
47u	C14	1	
1M	R1,R7	2	1/8W preferred
220	R2	1	1/8W preferred
220	R22	1	CLR. Adjust its value to taste if omitting VR2. 1/8W preferred
10k	R3,R4,R8,R10,R14,R15,R16,R20,R21	9	1/8W preferred
180	R5	1	1/8W preferred
1k	R6,R18	2	1/8W preferred
100k	R9	1	1/8W preferred
5.6k	R11	1	1/8W preferred
4.7k	R12	1	1/8W preferred
100	R13,R19	2	1/8W preferred
1.5k	R17	1	1/8W preferred
1N4148	D1,D2	2	
1N4002	D3	1	
LED	LED1	1	Visual indicator
2SC1815	Q1,Q2	2	
JRC4558D	U1	1	
A100k	DIST,LEVEL	2	
B20k	TONE	1	
25k	VR2	1	Optional Trimmer, see notes below if omitting
100n	C1,C5	2	

## Schematic

You can find a higher resolution version at <https://mas-effects.com/files/black-noise-schematic.png>



# NOTES

## Trimmer

The VR2 trimmer acts in series with R22 to limit the current to the LED. If you'd prefer a fixed resistor value for your LED:

- Omit the trimmer and jump the top pad of VR2 to one of its lower ones with a bit of wire or a resistor cutoff
- size R22 to taste

## Resistors

The PCB was designed for 1/8 resistors. 1/4 can be made to work but will not fit as nicely.

## Drill File

If you use Tayda's drill service, here is a drill file:

[https://drill.taydakits.com/box-designs/new?public\\_key=Tk45czlTSVV5VFJhSXZQVFdBUG1oQT09Cg==](https://drill.taydakits.com/box-designs/new?public_key=Tk45czlTSVV5VFJhSXZQVFdBUG1oQT09Cg==)

