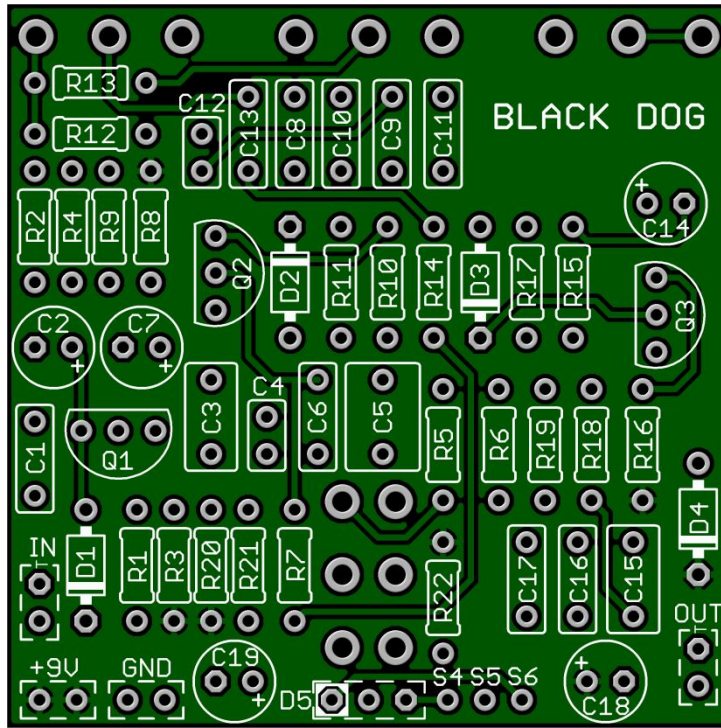


Black Dog

The Black Dog is a pure amp overdrive that offers some really authentic tones guaranteed to satisfy your desires. Not only will it provide the right amount of gain to lift your tones to the next level, but it also has a great passive three band equalizer to sculpt your tone!

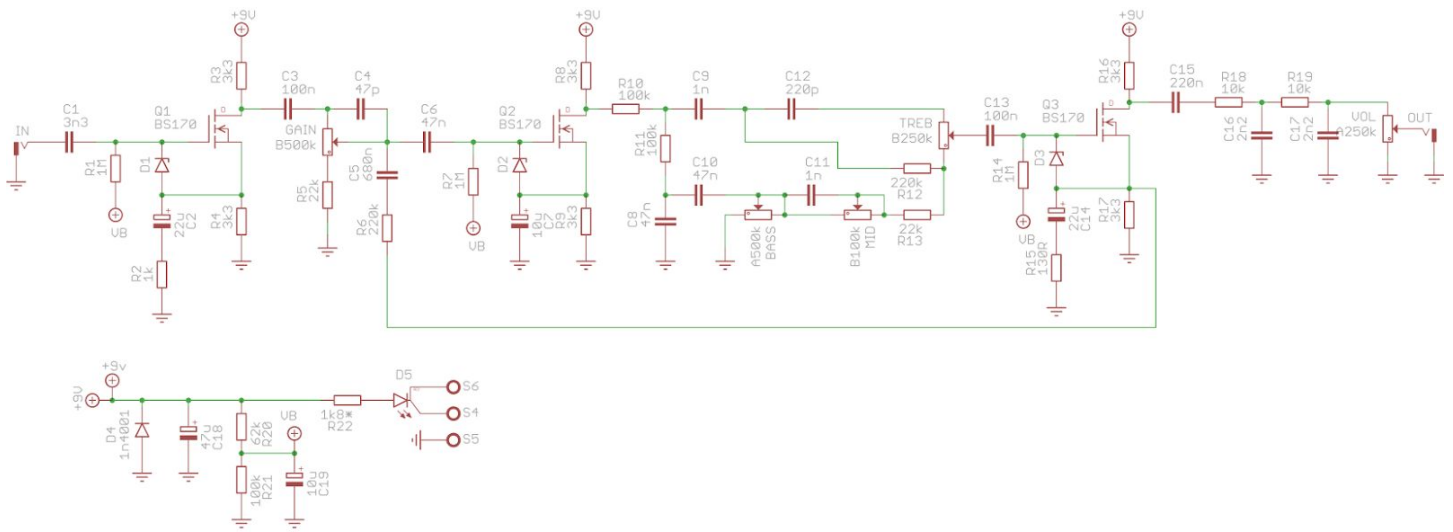
Jimmy Page did not use distortion to mask his mistakes. He was all about tone. This circuit is an all Mosfet Stage circuit designed to emulate that sound based on their later albums. Clean, powerful and true.



Board Dimensions (W x H) 1.95" x 1.95" or 49.53mm x 49.33mm
Board and Schematic designed by Bruce R.

Part	Value	Part	Value	Part	Value	Part	Value
R1	1M	R15	130R	C6	47n	D1	9.1v Zener
R2	1k	R16	3k3	C7	10u	D2	9.1v Zener
R3	3k3	R17	3k3	C8	47n	D3	9.1v Zener
R4	3k3	R18	10k	C9	1n	D4	1n4001
R5	22k	R19	10k	C10	47n	D5	BiColor CA LED
R6	220k	R20	62k	C11	1n		
R7	1M	R21	100k	C12	220p	Q1 - Q3	BS170
R8	3k3	R22	1k8*	C13	100n		
R9	3k3			C14	22u	VOL	A250k
R10	100k	C1	2n2	C15	220n	GAIN	B500k
R11	100k	C2	22u	C16	2n2	BASS	A500k
R12	220k	C3	100n	C17	2n2	MID	B100k
R13	22k	C4	47p	C18	47u	TREB	B250k
R14	1M	C5	680n	C19	10u		

Notes: Pay attention to orientation of the pedal. See pictures below. **Plan the enclosure accordingly.** Handle Mosfets with extra care (static charge) and always use sockets!



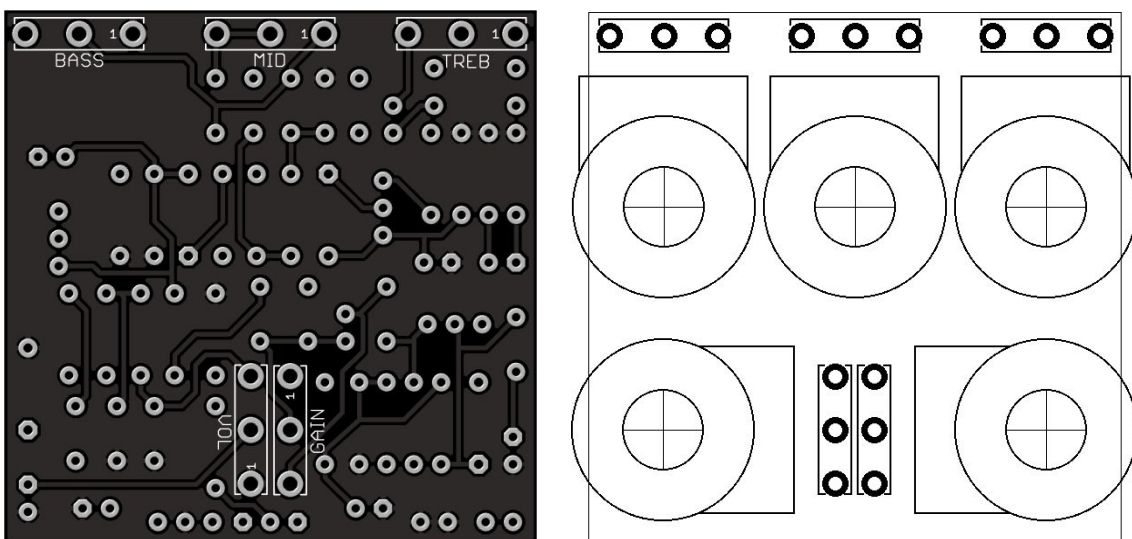
Controls:

Volume: The best setting which is interactive with the Gain Control is just past unity volume - usually around 1:00. Many people find an additional boost or amp gain in tandem is an excellent creative option.

Gain: Best setting is from 3:00 to max for the best Zep-like response. But for a cleaner response you may want to try lower gain settings. Jimmy Page did not rely on distortion to cover his playing! All tone.

Tone Controls: The three bands of the tone section of the Black Dog function just like many power amp tone controls. They are passive instead of active. Therefore they do not increase the signal in their respective band but rather they decrease the signal. These bands are overlapping. So, a change in one band will also have an effect on the adjacent band. For example, if you start with the MIDDLE control at full CW, you will notice that the TREBLE control does not have as much effect on the tone. For this reason, we suggest that you start with all three tone controls at the mid-point and adjust from there. You are sure to find a tonal setting that is just what you want!

Stompbox Profile: Bass, Mid and Treble on top. Volume and Gain underneath. Please note you may always choose to “hand wire” your potentiometers as well.



When printing the drill template use a resolution of 300dpi and be sure to size it with the actual Black Dog board before drilling your enclosure. As always drill at your own risk.

