

# Appetite for Distortion

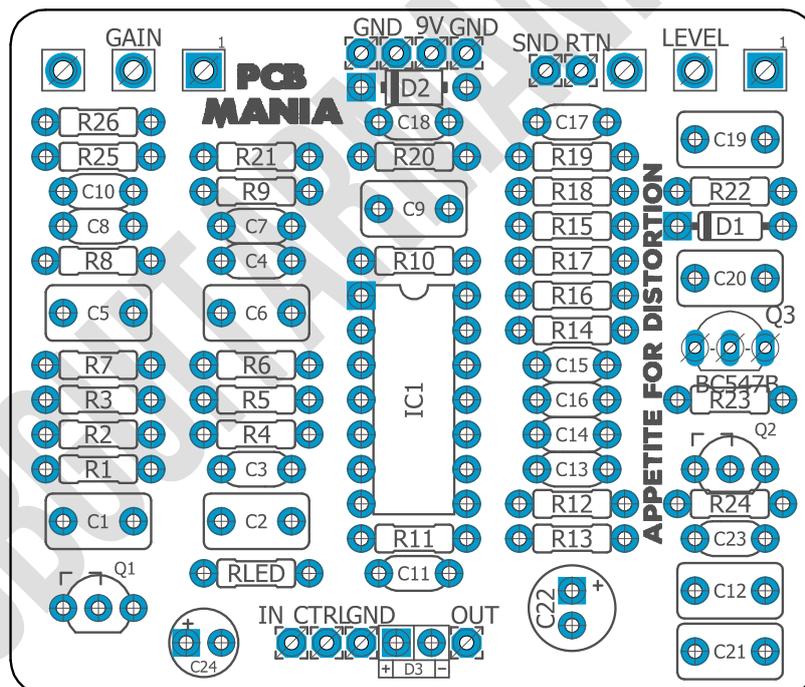
**Based on:**  
Slash Signature Marshal AFD  
**Effect type:**  
Pre-amp Overdrive, Distortion  
**Build difficult:**  
Intermediate

**Number of parts:**  
Average, total 60 components  
**Technology:**  
JFET transistors  
**Power consumption:**  
9V

**Enclosure type:**  
125b  
**Get your board at:**  
[Appetite for Distortion](#)  
**Get your kit at:**  
[Das Musikding \(Europe\)](#)

## Project overview:

Get all the power from this Bajaman design, inspired by Slash's signature Marshal AFD. This board is compatible with our [individual EQ sections](#) so that you can customize, craft, and expand your sounding in many possible ways.



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## Introduction

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Back in the mid-eighties, when everyone was beginning to say the age of the guitar hero was over, it took a guy called Slash to prove them all wrong.

Ever since, Guns N' Roses' Appetite For Destruction album has been one of the great benchmarks of modern electric guitar tone, catapulting the Les Paul/Marshall combination back into pole position, where it remains to this day.

After that, getting the exact tones Slash used on that album has become an obsession for many of his fans. The result? A series of amps, pedals, and guitars based around this topic. The Marshall AFD is an amp developed with the help of Slash to perfectly recreate the massive high-gain tones of the band's landmark "Appetite For Destruction" album.

Appetite for Distortion is all that iconic power of the Marshall AFD in the shape of a pedal!

## Controls

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### *Potentiometers*

- Gain
- Level

# Bill of materials

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Resistors	
Part	Value
R1	1M5
R2	1M
R3	10K
R4	6K8
R5	470K
R6	8K2
R7	1K
R8	680r
R9	47K
R10	82K
R11	2K7
R12	1K2
R13	3K3
R14	47K
R15	47K
R16	2K7
R17	1K
R18	47K
R19	47K
R20	2K7
R21	1K
R22	2K2
R23	1M
R24	10K
R25	10K
R26	10K
RLED	4K7

Capacitors	
Part	Value
C1	1u
C2	1u
C3	100p
C4	2n2
C5	1u
C6	1u
C7	22n
C8	22n
C9	1u
C10	6n8
C11	680p
C12	1u
C13	220n
C14	10n
C15	220p
C16	220n
C17	680p
C18	22n
C19	1u
C20	1u
C21	1u
C23	100n

Electrolytics Capacitors	
Part	Value
C22	220u
C24	47u

Potentiometers	
Part	Value
GAIN	B100K
LEVEL	B100K

Trim pots	
Part	Value
IC1	TL064

Transistors	
Part	Value
Q1	J201
Q2	J201
Q3	BC547B

Diodes	
Part	Value
D1	1N4148
D2	1N5817
D3	3mm red LED

# Shopping list

Resistors		
Qty	Value	Parts
4	10K	R3, R24, R25, R26
3	1K	R7, R17, R21
1	1K2	R12
2	1M	R2, R23
1	1M5	R1
1	2K2	R22
3	2K7	R11, R16, R20
1	3K3	R13
1	470K	R5
5	47K	R9, R14, R15, R18, R19
1	4K7	RLED
1	680r	R8
1	6K8	R4
1	82K	R10
1	8K2	R6

Capacitors		
Qty	Value	Parts
1	100n	C23
1	100p	C3
1	10n	C14
9	1u	C1, C2, C5, C6, C9, C12, C19, C20, C21
2	220n	C13, C16
1	220p	C15
3	22n	C7, C8, C18
1	2n2	C4

2	680p	C11, C17
1	6n8	C10

Electrolytics Capacitors		
Qty	Value	Parts
1	220u	C22
1	47u	C24

Potentiometers		
Qty	Value	Parts
2	B100K	GAIN, LEVEL

IC		
Qty	Value	Parts
1	TL064	IC1

Transistors		
Qty	Value	Parts
1	BC547B	Q3
2	J201	Q1, Q2

Diodes		
Qty	Value	Parts
1	1N4148	D1
1	1N5817	D2
1	3mm red LED	D3



# Components Recommendations

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As many people like to experiment with some pedals with higher voltage, always ensure your **electrolytic capacitors'** max tolerance is over 25v.

This board has been tested using Film box capacitors for most of the values over 1nf and ceramics discs for those under 1nf. However, high-quality components such as Wima's Capacitors and Panasonic's electrolytics can deliver a better performance.

All the resistors used for testing this project are 1/4W Metal Film.

The BOM and Shopping list are exclusive regarding this project. It doesn't include all the hardware like the 3PDT bypass switch, audio/dc jacks, enclosure, etc.

## Build Notes

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If this is one of your first projects, I recommend you to take a look at our [Pedal Building Guide](#).

For a successful and tidy build, it's recommended the following order:

1. Resistors & diodes
2. Capacitors, starting with the smaller ones and the ceramic ones.
3. Electrolytic capacitors (always check the polarity)
4. Transistors
5. Wires
6. Potentiometers and switches
7. Off-board wiring

**Important:**

Place a jump between Send/return if they are not used for an external EQ.

## Wiring Diagram

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All our projects include a free 3PDT Board to make the wiring easier and tidier. Also, all of our PCBs feature the status LED on board.

The pad named "Ctrl" or "LED" is the one that controls the status of the led; wire it to the "LED" pad on the 3PDT board or in the control slug of your 3PDT.

This board has been designed to match our EZ 3PDT PCB; check it [here](#) to access our [Pedal Wiring Guide](#).

# Drill Template

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This Project has been planned to fit into a 125b enclosure type.

Check the Attached “Drilling templates” to drill the box properly. The files are on Scale 1:1, ready to print on an A4 page.

## Licensing and Usage

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We really appreciate your trust and support in buying this PCB, as well as your will to dive into the DIY electronics world. For us, that's why you can make this project work properly and enjoy not only the building process but also experiment and play with it on your rig.

We try to reply to every question we receive on our email or our social media. Still, we try to encourage all our customers to join our [PCB Guitar Mania - Builders Group](#) on Facebook to post all your doubts, issues, suggestions, or requests, share your builds, and have some feedback from other fellow builders and us!

We tested all our projects following this same guide on their standard configurations. Although, not all of the variations and mods have necessarily been checked. These are suggestions based on the schematic analysis and the experiences and opinions of others. Feel free to share with us your views and recommendations regarding the mods your personal experimentation.

These boards may be used for commercial endeavors in any quantity unless expressly noted. No attribution is necessary, though accreditation or a link back is always much appreciated.

If you are a builder planning to make your own run of pedals, we also offer the service of custom-made boards with your brand and logo, design according to your specifications.

The only usage restrictions are that, first, you cannot resell the PCB as part of a kit without prior arrangement with us, and second, you cannot scratch off the silkscreen or other way of trying to hide our logos and the source of the PCBs. Like it's written above, if you want to have your designs with your brand and logo, we could undoubtedly reach an agreement.

Follow us on [Instagram](#) and [Facebook](#) to stay in tune with the latest projects!