

# Dwarf Master

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**Based on:**

Dwarfcraft She-fuzz / Shiva

**Effect type:**

Wide range Fuzz

**Build difficult:**

Easy

**Amount of parts:**

Low, total 30 components

**Technology:**

NPN Silicon Transistors

**Power consumption:**

9V

**Enclosure type:**

125b

**Get your board at:**

[Dwarf Master](#)

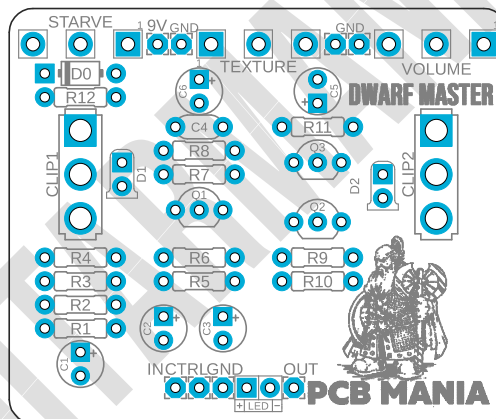
**Get your kit at:**

[Das Musikding \(Europe\)](#)

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**Project overview:**

Inspired by the She Fuzz, previously known as Shiva, from Dwarfcraft Devices. This distinctive board delivers the broadest range of fuzz tones and noise, with a profound bass response!



## Index

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1. Project overview
2. Index, Introduction & Controls
3. Bills of Materials, BOM
4. Shopping Lists
5. Components Recommendations
6. Build Notes
7. Schematic
8. Wiring Diagram
9. Drill Template
10. Licensing and Usage

# Introduction

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The Dwarf Master is a unique pedal with equal power for destruction and auspicious crafting. This demi-god is ready to accompany you on any adventure, helping you destroy as much as create in your path to glorious sounding.

Just give the order and this blacksmith of fuzz sound will cast fat, buzzing fuzz tones, screeching, gurgling octaves, controlled and uncontrolled oscillation, and much more. This pedal delivers considerable gain and volume, plus texture and Starve controls, offering a plethora of tone forging options for every fuzz enthusiast.

But you must know that there is an ancient rivalry between the Dwarf Master and the [Dwarf Destroyer](#) for apparent reasons: both fight for the ultimate victory in the battlefields of fuzz domination. In the meantime, our newest creation, the [Android Dwarf](#), is eager to test its combat skills.

We haven't reached an agreement on which of these warriors is winning the battle; the Dwarf Master with his duality of character and versatility, the [Dwarf Destroyer](#) with his sizzling sound ready to bent on tonal destruction, or the [Android Dwarf](#) with its wide range of fuzz and massive volume.

Maybe it's your turn to tip the balance and strike the final blow, or perhaps you can form an alliance and have all of them fighting for you in the eternal struggle for the perfect fuzz sound.

## Controls

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- Starve
- Texture
- Volume

# Bill of materials

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Resistors	
Part	Value
R1	1m
R2	1m
R3	100k
R4	390r
R5	3k3
R6	1m
R7	100k
R8	100k
R9	2m2
R10	220k
R11	4k7
R12	4k7

Capacitors	
Part	Value
C4	100n

Electrolytics Capacitors	
Part	Value
C1	1u
C2	1u
C3	33u
C5	10u
C6	100u

Potentiometers	
Part	Value
STARVE	2k B
TEXTURE	1m B
VOLUME	100k A

Transistors	
Part	Value
Q1	2N5088
Q2	2N3904
Q3	2N3904

Switches	
Part	Value
Clip 1	SPDT ON/ON
Clip 2	SPDT ON/ON

Diodes	
Part	Value
D0	1n5817
D1	3mm Red LED
D2	3mm Red LED
LED	3mm Red LED

# Shopping list

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Resistors		
Qty	Value	Parts
3	100k	R3, R7, R8
3	1m	R1, R2, R6
1	220k	R10
1	2m2	R9
1	390r	R4
1	3k3	R5
2	4k7	R11, R12

Switches		
Qty	Value	Parts
2	SPDT ON/ON	Clip 1, Clip 2

Diodes		
Qty	Value	Parts
1	1n5817	D0
3	3mm Red LED	D1, D2, LED

Capacitors		
Qty	Value	Parts
1	100n	C4

Electrolytics Capacitors		
Qty	Value	Parts
1	100u	C6
1	10u	C5
2	1u	C1, C2
1	33u	C3

Potentiometers		
Qty	Value	Parts
1	100k A	VOLUME
1	1m B	TEXTURE
1	2k B	STARVE

Transistors		
Qty	Value	Parts
2	2N3904	Q2, Q3
1	2N5088	Q1



# 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

## 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!