

# Warped Delight

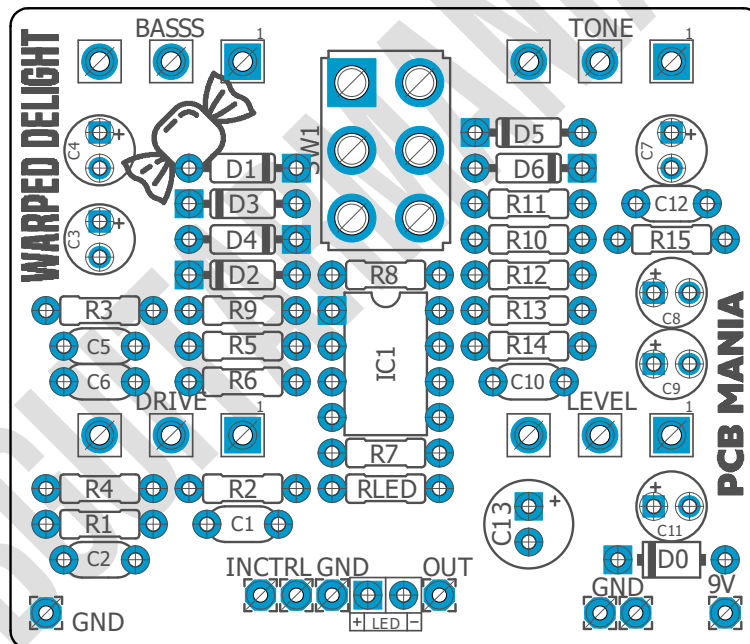
**Based on:**  
Wampler Euphoria/Ecstasy  
**Effect type:**  
Overdrive  
**Build difficult:**  
Average

**Amount of parts:**  
Average, total 45 components  
**Technology:**  
Dual OpAmp  
**Power consumption:**  
9V-18v

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

## Project overview:

Simple, versatile, responsive are the best words to describe this circuit designed by Brian Wampler. This circuit will deliver all the feel and touch you'd need to recreate Eric Johnson delightful tunes.



# Index

---

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

---

Wampler Euphoria (former name: ecstasy)™ is Brian Wampler's take on the Legendary and always desired Dumble Overdrive sound. As touch responsive as you expect but with a much wider tonal range than its competitors (like Zendrive or Dude™)

Gain and volume are very interactive, the bountiful EQ rounds the package of.

I highly recommend to choose 25voltage electrolytic capacitors to be able to run the pedal with 18v for more clean headroom. Also very good as a beginner project because it does not require rare parts or and soldering.

## Controls

---

- Drive
- Bass
- Tone
- Level
- Smooth/Open/Crunch switch

# Bill of materials

---

Resistors	
R1	1M
R2	100k
R3	100k
R4	470K
R5	1k
R6	10k
R7	47K
R8	100K
R9	100K
R10	100K
R11	100K
R12	470K
R13	33K
R14	47K
R15	1K
RLED	4K7

Capacitors	
C1	100p
C2	22n
C5	47n
C6	100p
C10	100p
C12	22n

Electrolytics Capacitors	
C3	10u
C4	2u2
C7	10u
C8	10u
C9	2u2
C11	1u
C13	100u

Potentiometers	
DRIVE	A1M
BASS	C10K
LEVEL	A100K
TONE	B25K

Trim pots	
IC1	MC1458P

Transistors	
SW1	DPDT ON/OFF/ON

Diodes	
D0	1N5817
D1	1N4148
D2	1N4148
D3	1N4148
D4	1N4148
D5	1N4148
D6	1N4148

# Shopping list

---

Diodes		
Qty	Value	Parts
6	1N4148	D1, D2, D3, D4, D5, D6
1	1N5817	D0

Resistors		
Qty	Value	Parts
4	100K	R8, R9, R10, R11
2	100k	R2, R3
1	10k	R6
1	1K	R15
1	1M	R1
1	1k	R5
1	33K	R13
2	470K	R4, R12
2	47K	R7, R14
1	4K7	RLED

Capacitors		
Qty	Value	Parts
3	100p	C1, C6, C10
2	22n	C2, C12
1	47n	C5

Electrolytics Capacitors		
Qty	Value	Parts
1	100u	C13
3	10u	C3, C7, C8
1	1u	C11
2	2u2	C4, C9

Potentiometers		
Qty	Value	Parts
1	A100K	LEVEL
1	A1M	DRIVE
1	B25K	TONE
1	C10K	BASS

IC		
Qty	Value	Parts
1	MC1458P	IC1

Switches		
Qty	Value	Parts
1	DPDT ON/OFF/ON	SW1



# Components Recommendations

---

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

This board has been tested using Film box capacitors for most of the values over 1nf, and ceramics discs for the ones 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 exclusively regarding this project. It doesn't include all the hardware like the 3PDT bypass switch, audio/dc jacks, enclosure, etc.

## Build Notes

---

If this is one of your first projects I recommend you to take a look on 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

---

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 control slug of your 3PDT.

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

# Drill Template

---

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 in an A4 page.

## Licensing and Usage

---

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

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

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

These boards may be used for commercial endeavors in any quantity unless specifically noted. No attribution is necessary, though accreditation or a link back is always greatly 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 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 silk screen, 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 own designs, with your brand and logo we could certainly reach an agreement.

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