

Acapulco Tone

Based on:

Earthquaker Devices Acapulco
Gold

Effect type:

Distortion

Build difficult:

Easy

Amount of parts:

Average, total 33 components

Technology:

LM386

Power consumption:

9V

Enclosure type:

125b

Get your board at:

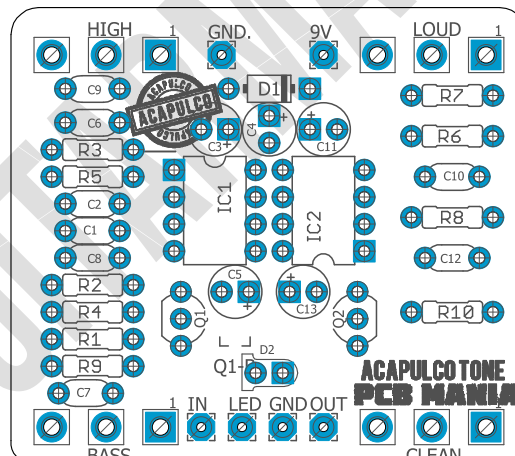
[Acapulco Tone](#)

Get your kit at:

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

Project overview:

The Acapulco Tone is dirt-simple distortion Device based on the power section of a cranked vintage Sunn Model T, bringing the openness, clarity, and crunch.



Index

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

Introduction

The big brother of the Acapulco family features a clean blend and a Baxandall tone stack, making this circuit more versatile for both guitar and bass players. Designed to use onboard potentiometers, keep it tidy without using cables!

Controls

- Bass
- High
- Loud
- Clean

Bill of materials

Resistors	
Part	Value
R1	2m2
R2	4k7
R3	100k
R4	4k7
R5	47k
R6	68k
R7	100k
R8	4k7
R9	Don't populate
R10	LED

Semiconductors	
Part	Value
IC1	LM386
IC2	LM386
Q1	2N5457
Q2	2N5457
D1	1N4001
D2	LED3MM

Capacitors	
Part	Value
C1	100n
C2	100n
C3	10uf electrolytic
C4	10uf electrolytic
C5	1uf electrolytic
C6	1n

C7	1n
C8	4n7
C9	10n
C10	4n7
C11	1uf electrolytic
C12	100n
C13	100uf electrolytic

Potentiometers	
Part	Value
BASS	1m A
HIGH	1m A
LOUD	100k B
CLEAN	100k A

Shopping list

Resistors		
1	2m2	R1
1	47k	R5
3	4k7	R2, R4, R8
1	68k	R6
1	1m	R9
2	100k	R3, R7
1	2k2-4k7	R10

Semiconductors		
2	2N5457	Q2
2	LM386	IC1, IC2
1	LED3MM	D2
1	1N4001	D1

Capacitors		
1	10n	C9
2	1n	C6, C7
3	100n	C1, C2, C12
2	4n7	C8, C10
2	1uf electrolytic	C5, C11
1	100uf electrolytic	C13
2	10uf electrolytic	C3, C4

Potentiometers		
1	100k B	CLEAN
1	100k A	LOUD
2	1m A	BASS, HIGH

Acapulco Tone by PCB Guitar Mania
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Components Recommendations

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

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

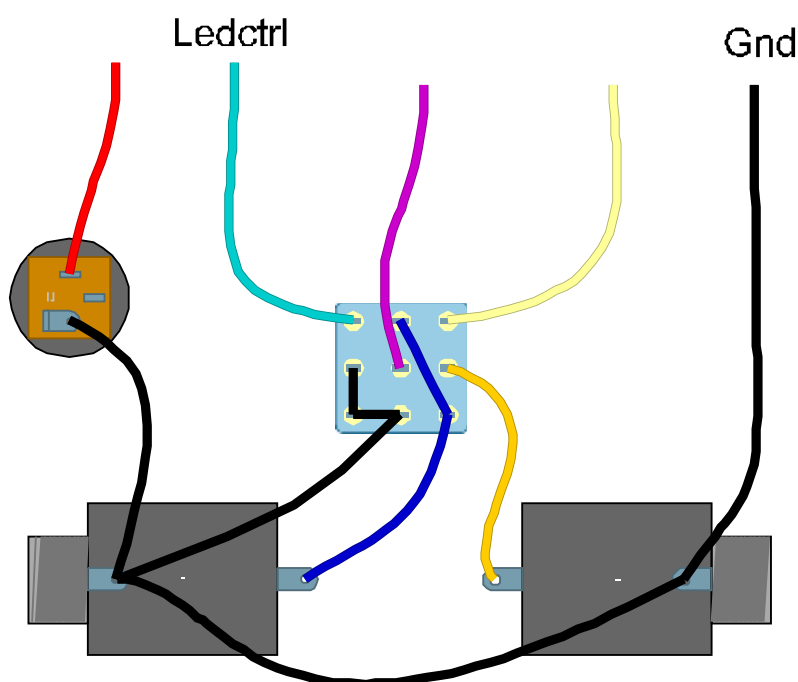
Wiring Diagram

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](#).

Off Board Wiring



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 on an A4 page.

Licensing and Usage

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.

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