

# Webbhätt

Raspberry PI

Fan modification

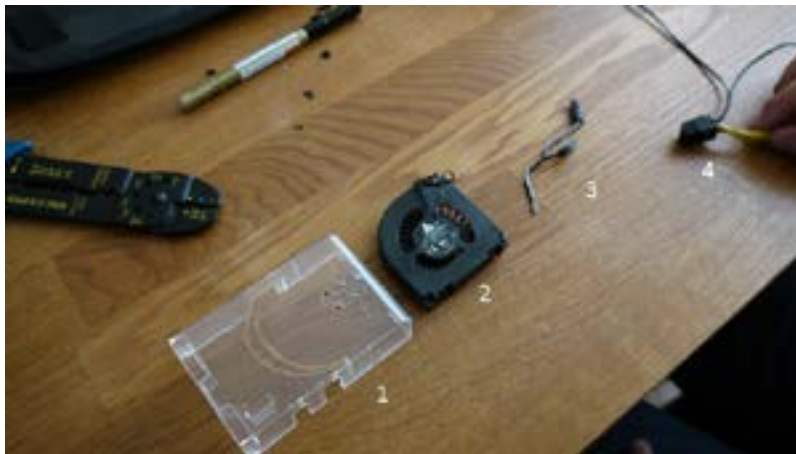


# Getting started

We will divide this modification do a few steps to make it easier.

We will need a few things before we start. Make sure that you have the following.

- \*Raspberry PI ;)
- \*A case to modify (1)
- \*A old laptop fan (for example) (2)
- \*A cable from a old PSU (3)
- \*Old PSU cable (4)



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# Step 1



Use a drill and make a hole that will give the fan full effect. Should look something like the picture under this text.



Remember when working with plastic to use the proper tools for the work, to avoid that the case breaks.

## Step 2

We will take the old PSU cable and make 2 smaller cables (1pin).



Make sure to know what is + and what is ground on the fan and mark it up with a marker. Twist the cables together. Then use “heat shrink tubes” to secure the connection.



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## Step 3

Connect the fan with pin 1 and pin 6 (that is what the results on the next page is based on)



when you are happy with the wire connection, make sure to attach the fan and the case top, with a solution to your choice. In this modification we attached the fan with screws to the case.



# Results

Before modification we had a stable temperature on 58 celsius.



And the results after is 42 celsius. That's a decrease of 16 celsius. And this is with the 3 volt option. If you choose 5 volt you will have around 37 celsius when operating the system.



[www.youtube.com/webbh4tt](http://www.youtube.com/webbh4tt)