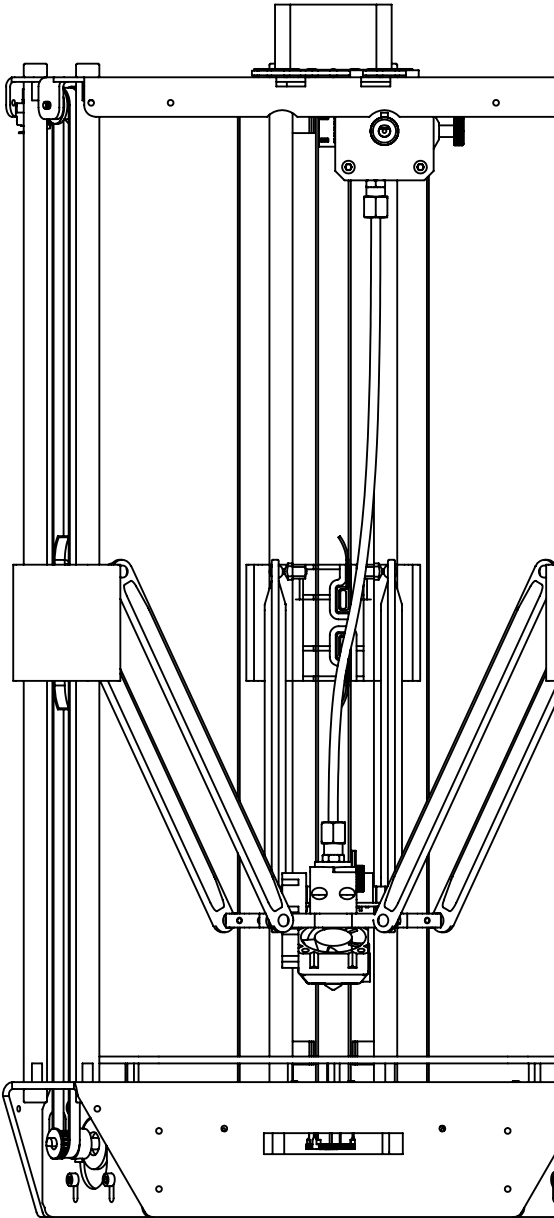


micro  
delta  
REWORK

ASSEMBLY  
INSTRUCTIONS



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# INTRODUCTION

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## INTRODUCTION

### • Target :

Propose a visual assembly instruction guide of the different available options for the MicroDelta Rework.

### • Designers of the MicroDelta Rework :

eMotion Tech : <http://www.emotion-tech.com>

Hugo FLYE  
Mohamad KOUBAR  
Thibault MOREL

### • Authors of this document :

eMotion Tech : <http://www.emotion-tech.com>

Mohamad KOUBAR  
Anthony BERNA  
Hugo FLYE

### • Photographics credits :

Pictures and 3D representations made by eMotion Tech :  
<http://www.emotion-tech.com>

### • Licenses :

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<http://creativecommons.org/licenses/by-nc-sa/4.0/>



### • Update :

Last update : 25/11/2016

### • Links :

You can find more informations on the following links :

eMotion Tech's website : <http://www.emotion-tech.com>



## SUMMARY

### INTRODUCTION

INTRODUCTION

SUMMARY

### ASSEMBLY

HEATING BED

LCD SCREEN

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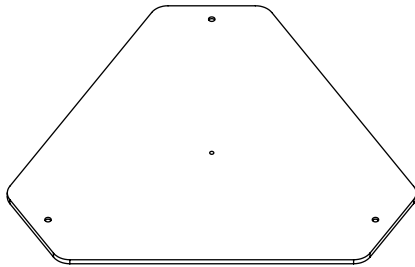
# ASSEMBLY

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# HEATING BED

Needed parts :

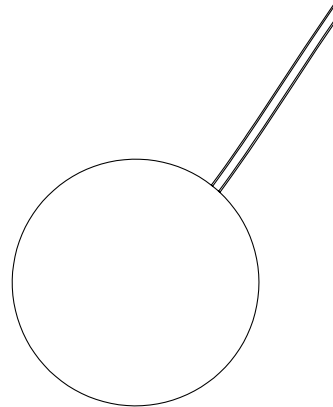
- 1 x Lower plate
- 1 x Heating patch
- 1 x Thermistor
- 1 x Aluminium plate
- 3 x M3 x 10 mm countersunk screw
- 3 x Standoff spacer
- 1 x Adhesive patch«3dBedFix»



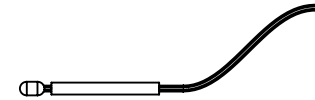
1 x Aluminium plate



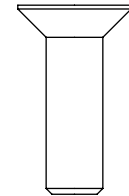
3 x Standoff spacer



1 x Heating patch



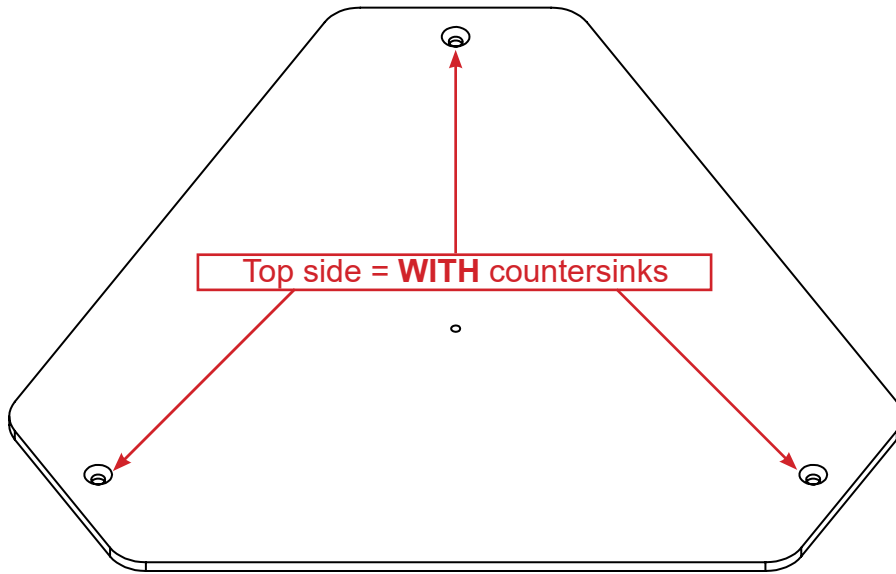
1 x Thermistor  
+ extension



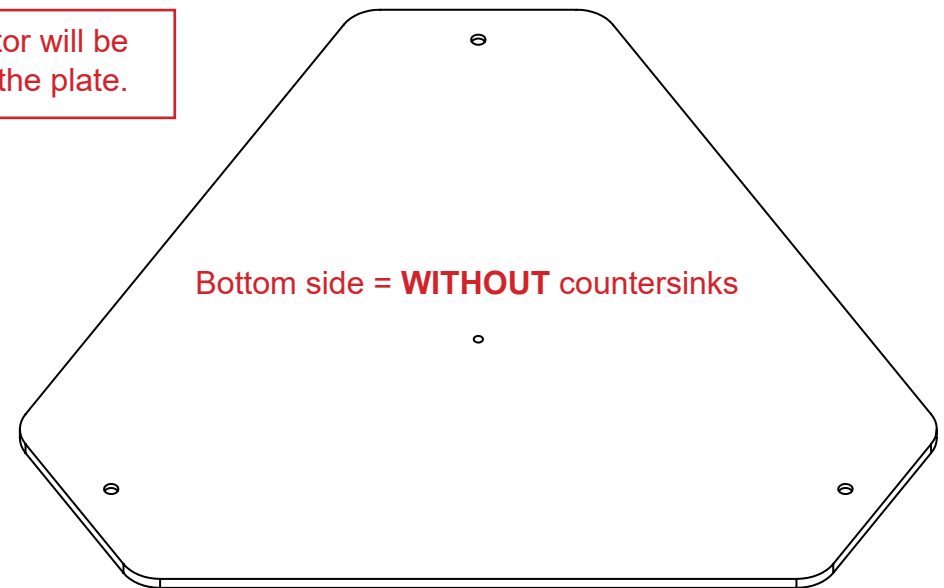
3 x M3 Countersunk  
screws



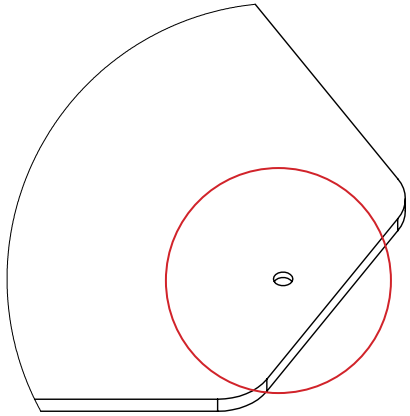
1 x 3DBedFix



Heating patch and the thermistor will be fixed against the lower side of the plate.



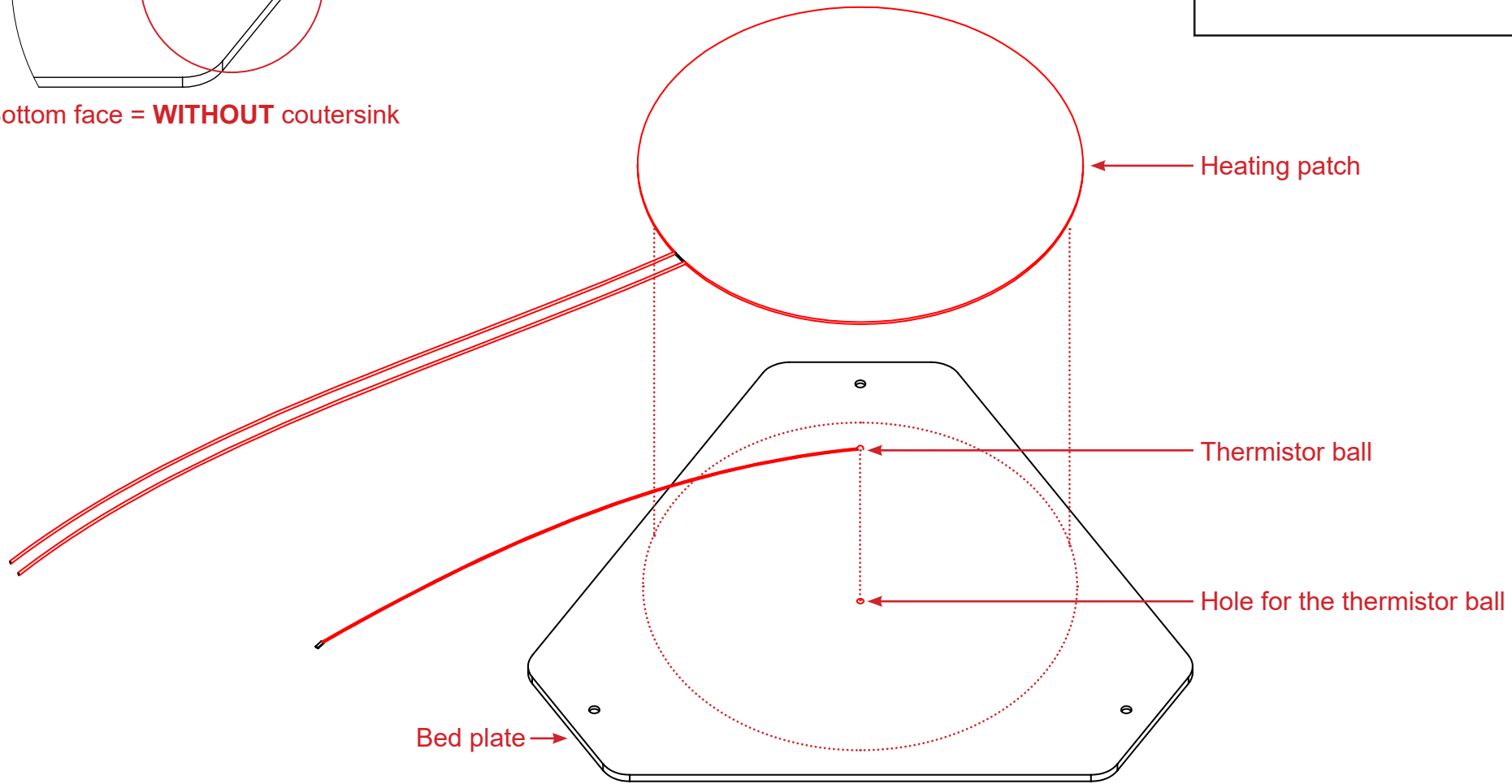
**Target** : assemble the aluminium plate, the heating patch and the thermistor



Bottom face = **WITHOUT** countersink

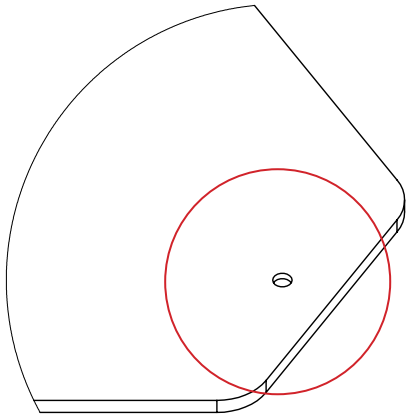
1°) Place the ball of the thermistor in the central hole of the plate. Make sure the ball does not exceed the upper face.

2°) Apply the heating patch over the cable of the thermistor. Check that the cable is as flat as possible.



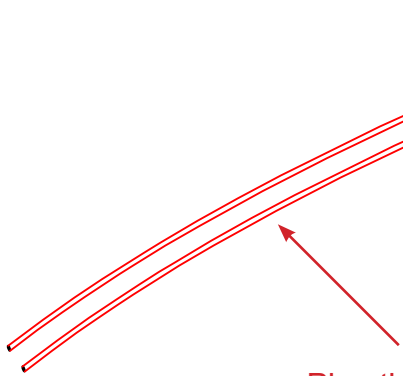
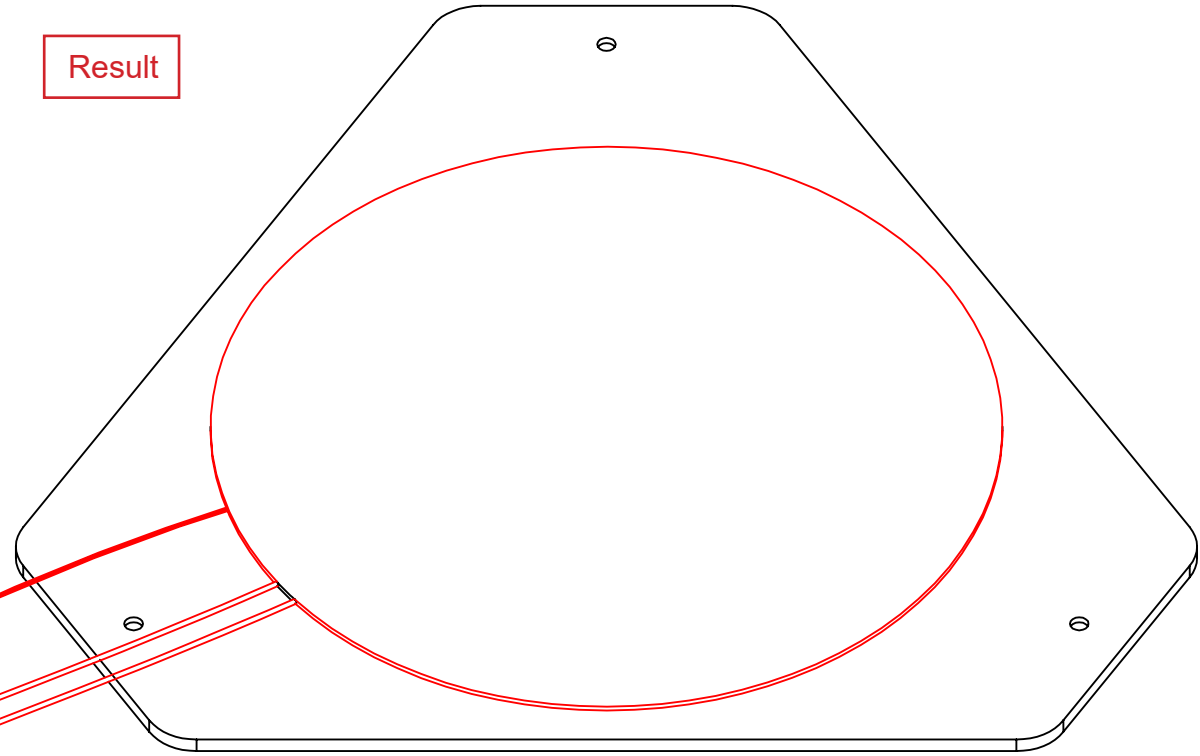
Bottom face = **WITHOUT** chamfer





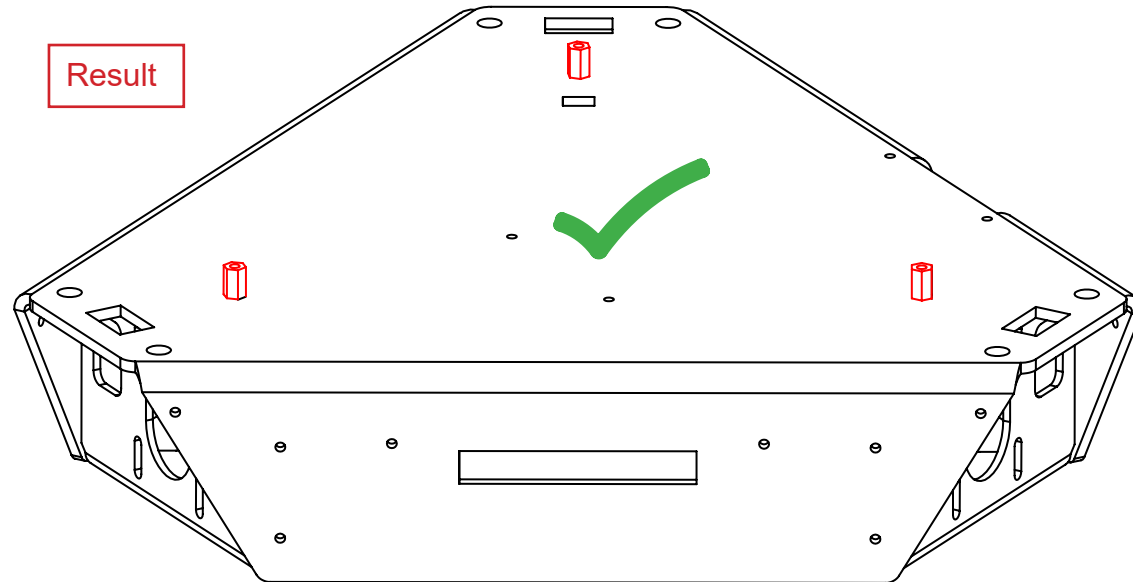
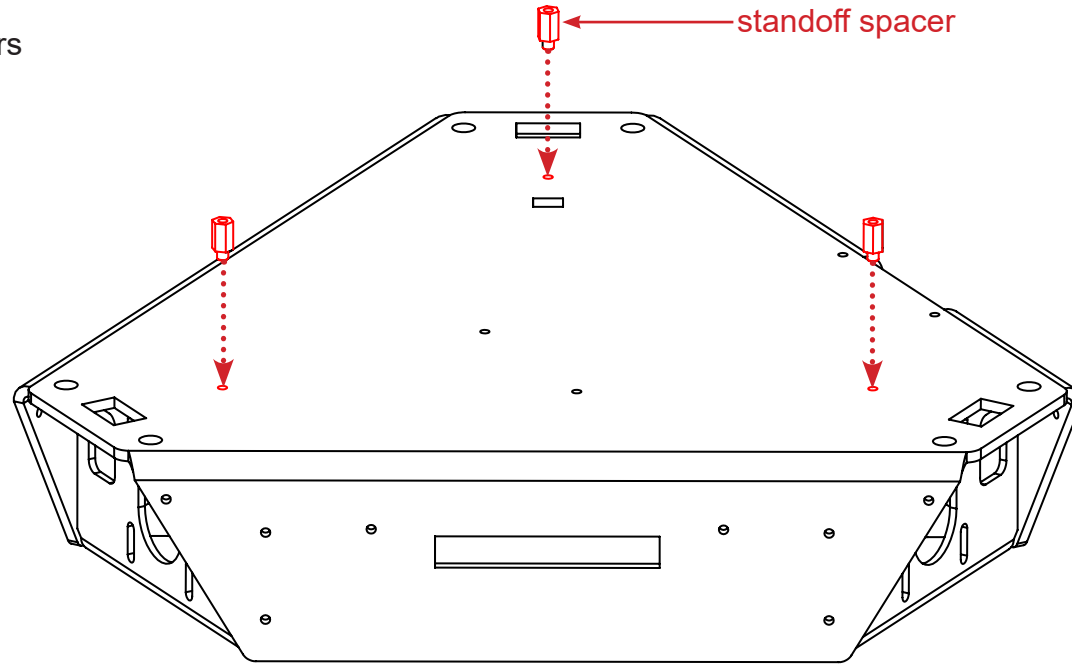
Bottom face = **WITHOUT** countersink

Result

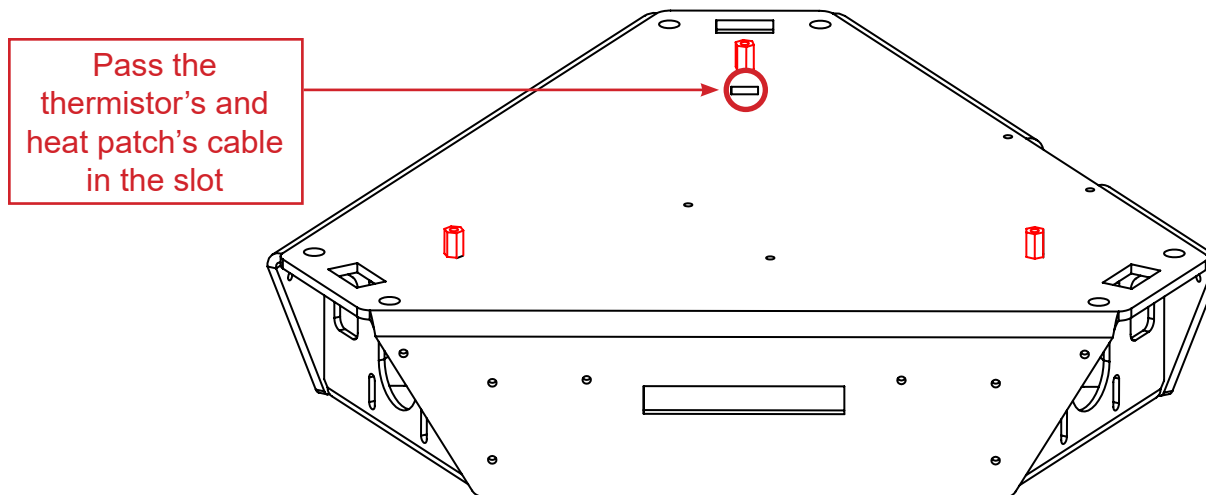


Plug the extension here

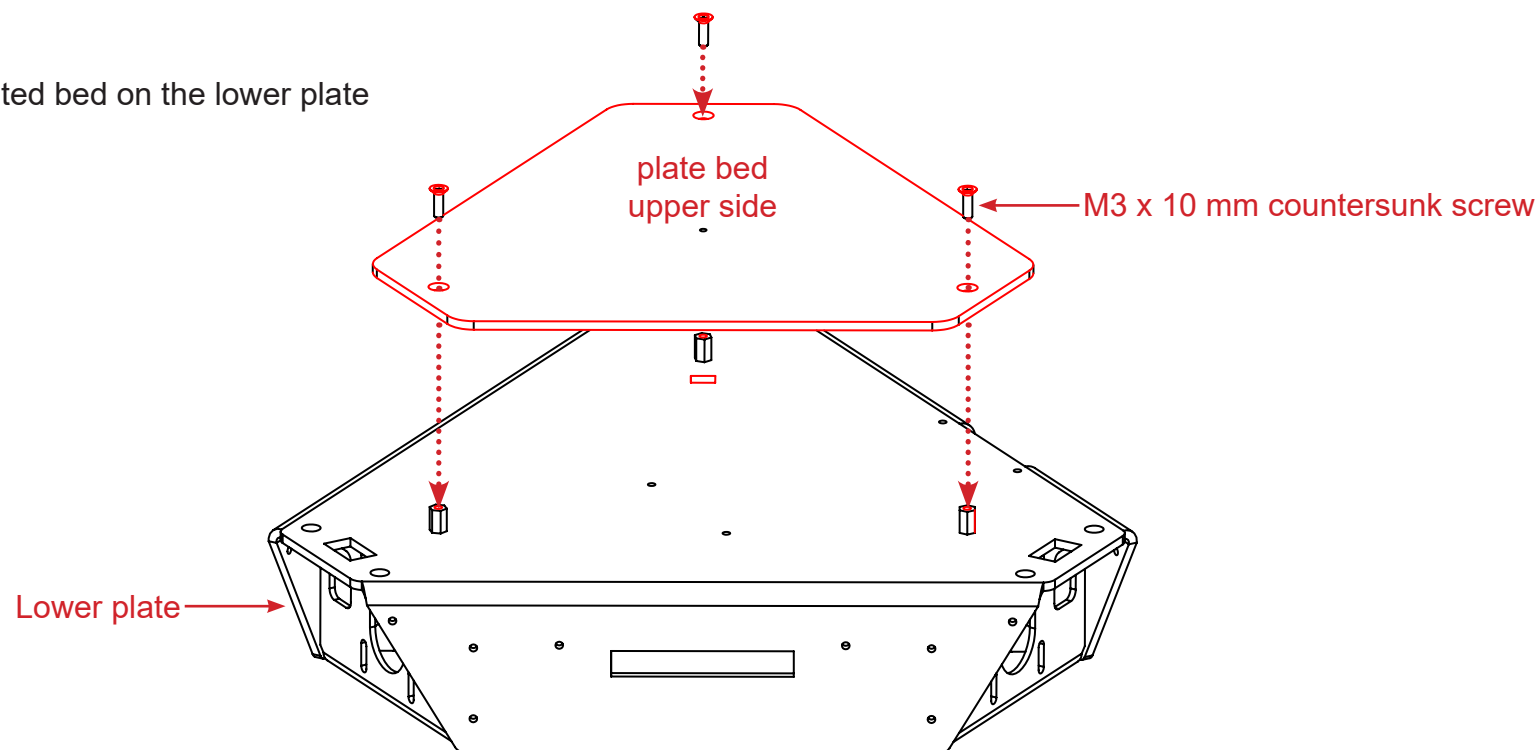
**Target :** mount the standoff spacers



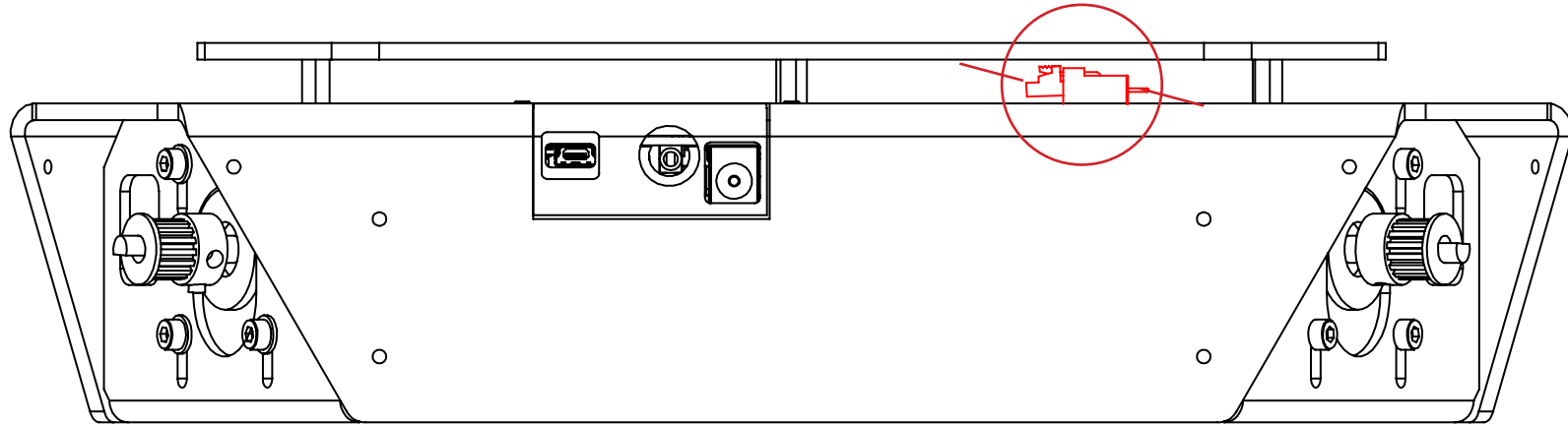
**Target :** Routing the cables



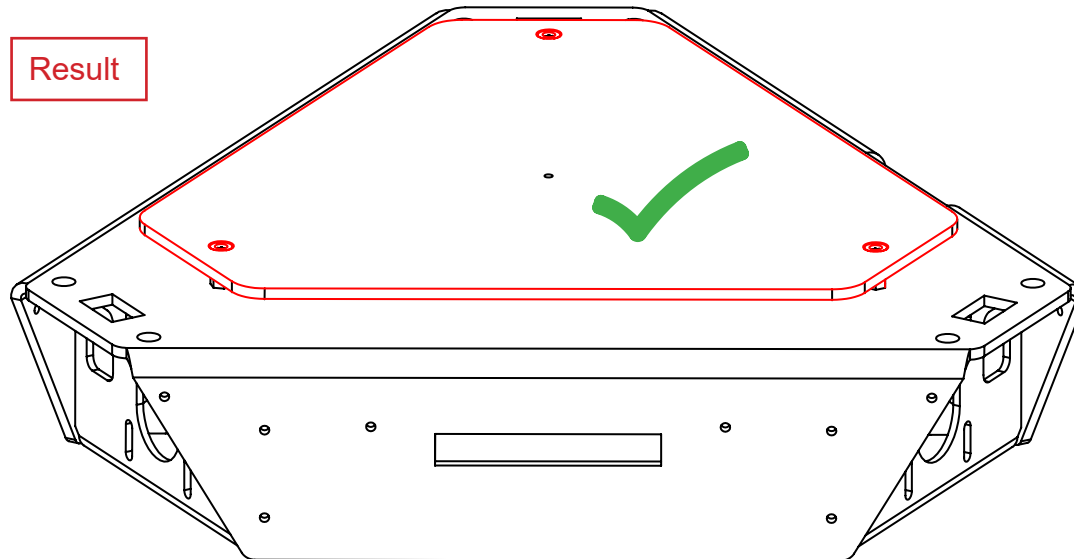
**Target :** screw the heated bed on the lower plate



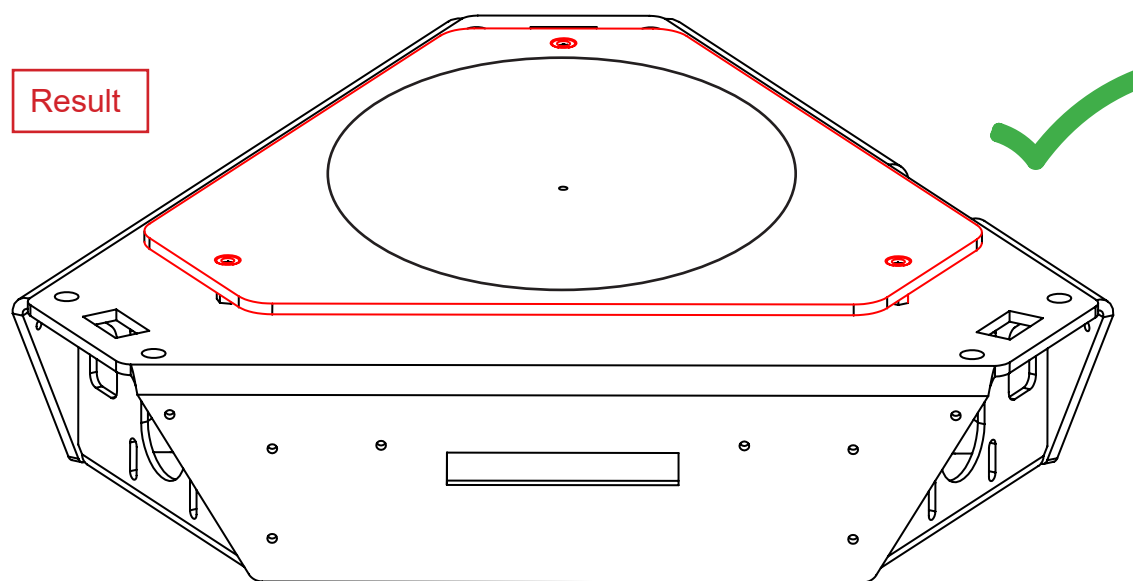
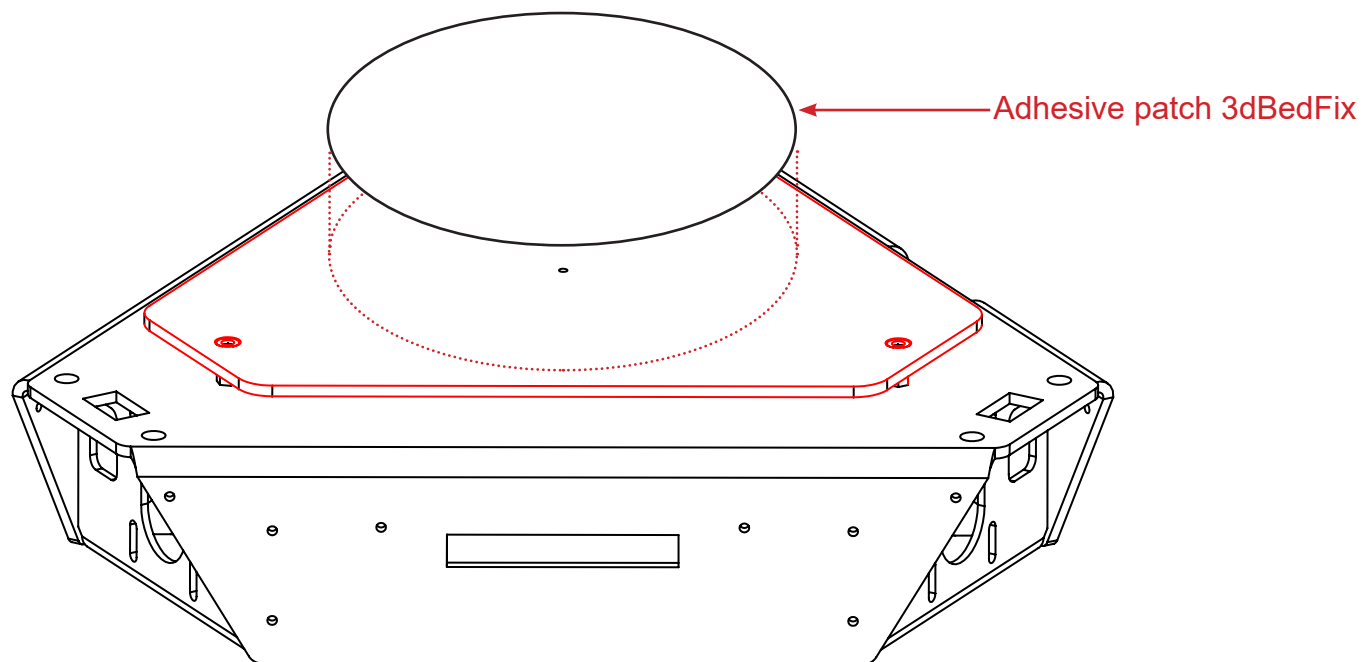
Thermistor's connection should be located between the heated bed and the lower plate as shown below



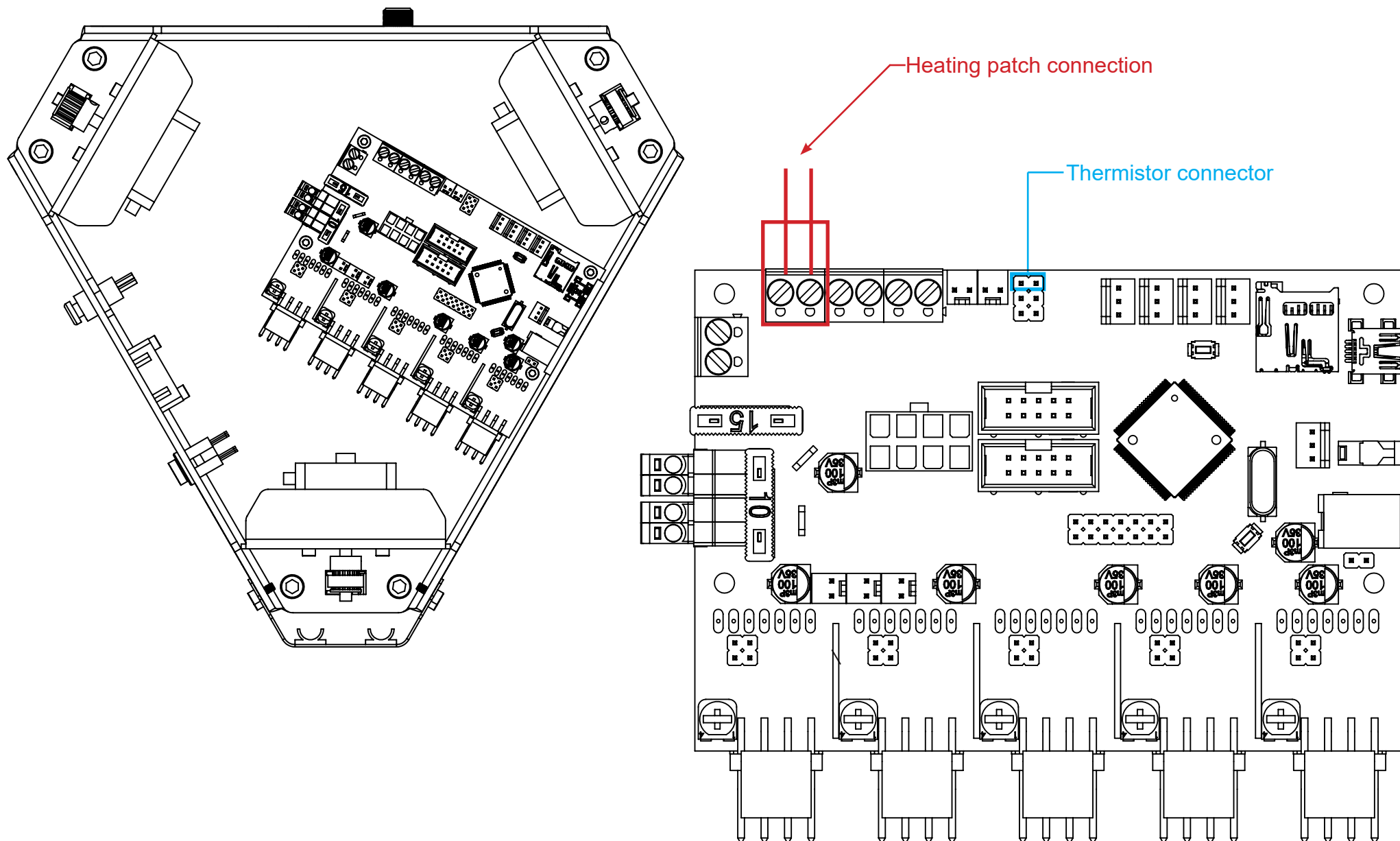
Result



**Target :** Apply the adhesive patch «3DBedFix» on the heated bed



**Target :** plug the heating patch and the thermistor of the heating bed



**Modifying the configuration file:**

**1°)** Go to the Support section of [www.emotion-tech.com](http://www.emotion-tech.com). In the «MicroDelta Rework / Software / Software / Configuration» tree you will find all the available versions of the configuration file.

Download the version that corresponds to your printer (depending on your options)

**2°)** Unzip the downloaded file and copy its content into the SD card of the eMotronic board. Replace existing files if necessary.

**3°)** Press the Reset button.

# LCD SCREEN

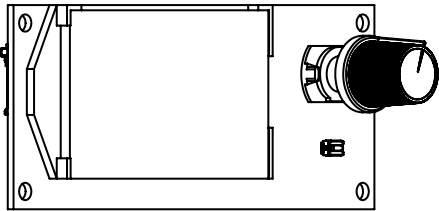
## Needed parts :

- 1 x Right side LCD cover
- 1 x Left side LCD cover
- 1 x Front plate LCD cover
- 1 x LCD screen
- 6 x M3x12mm screw
- 2 x Ribbon cable

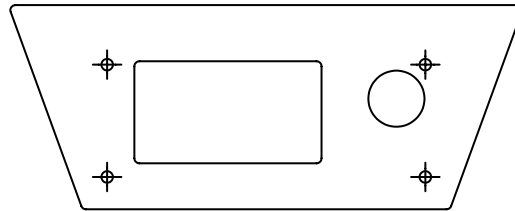
**Target** : mount the LCD screen on the 3D printer.

## Pre-requisites:

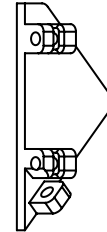
The two screen covers (right and left) are to be printed by yourself. To download these two parts, go to the Support section of [www.emotion-tech.com](http://www.emotion-tech.com), then go to «MicroDelta Rework / Ressources\_3D / Option LCD».



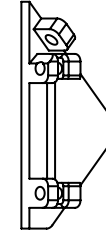
1 x LCD screen



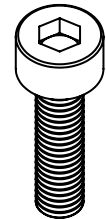
1 x Front plate LCD cover



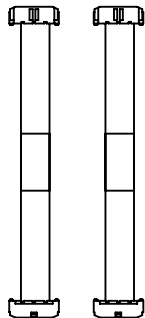
1 x Right side LCD cover



1 x Left side LCD cover



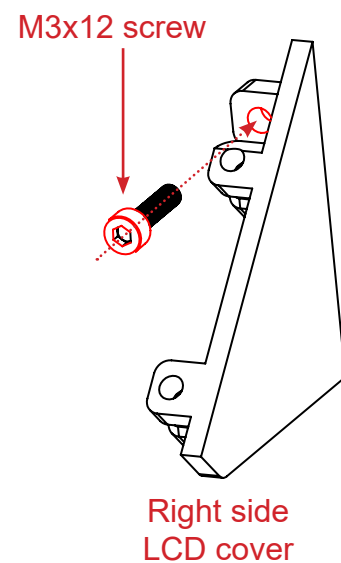
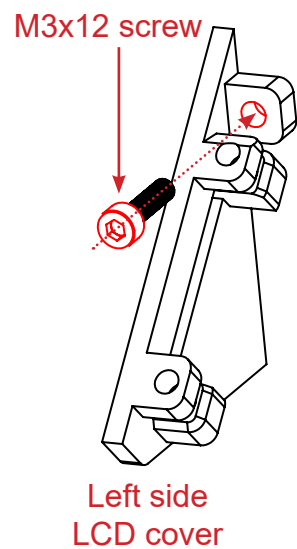
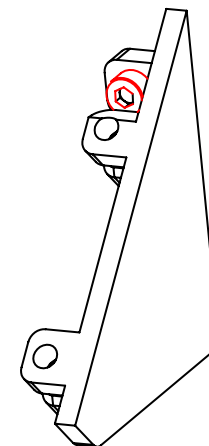
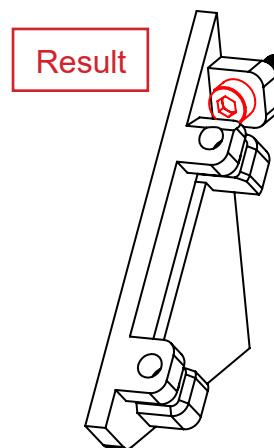
6 x M3x12mm screw



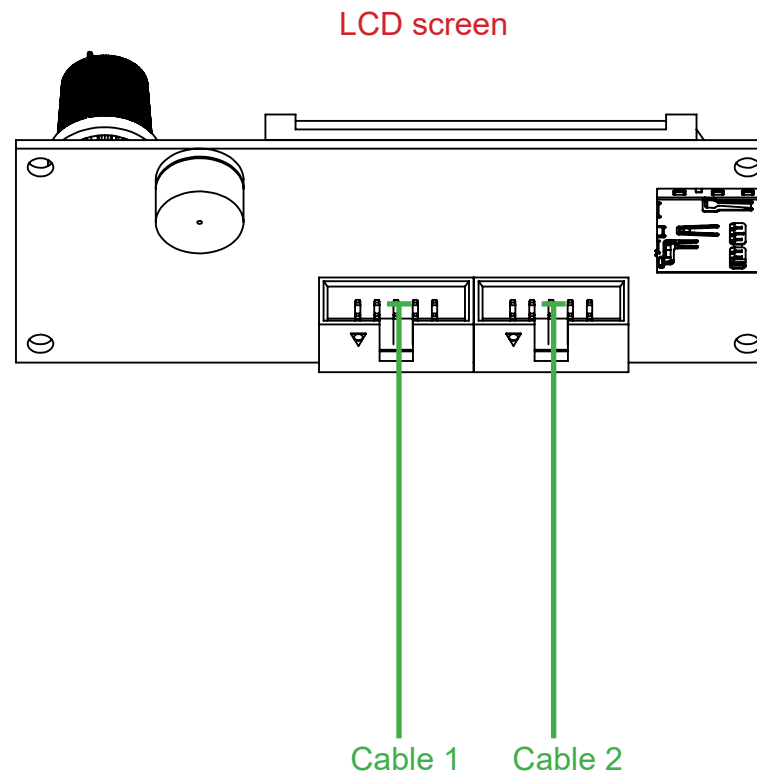
2 x Ribbon cable



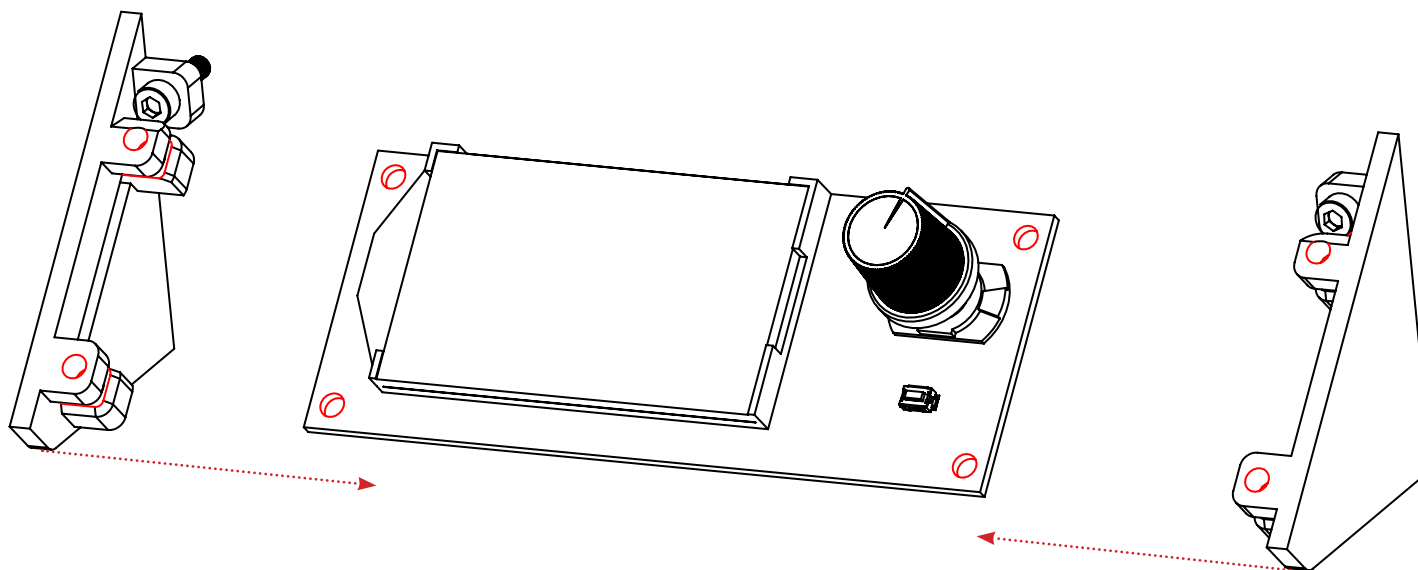
**Targer** : preposition the screws in the printed covers



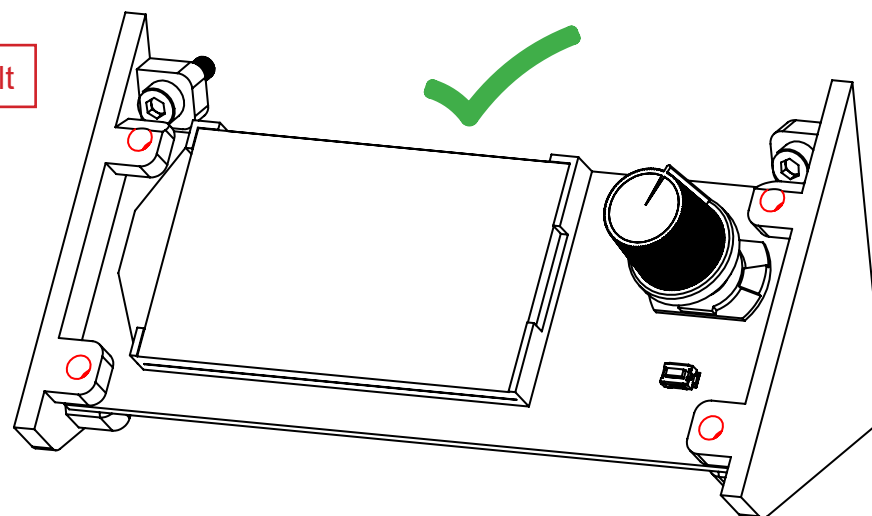
**Target:** Plug the Ribbon cables on the screen



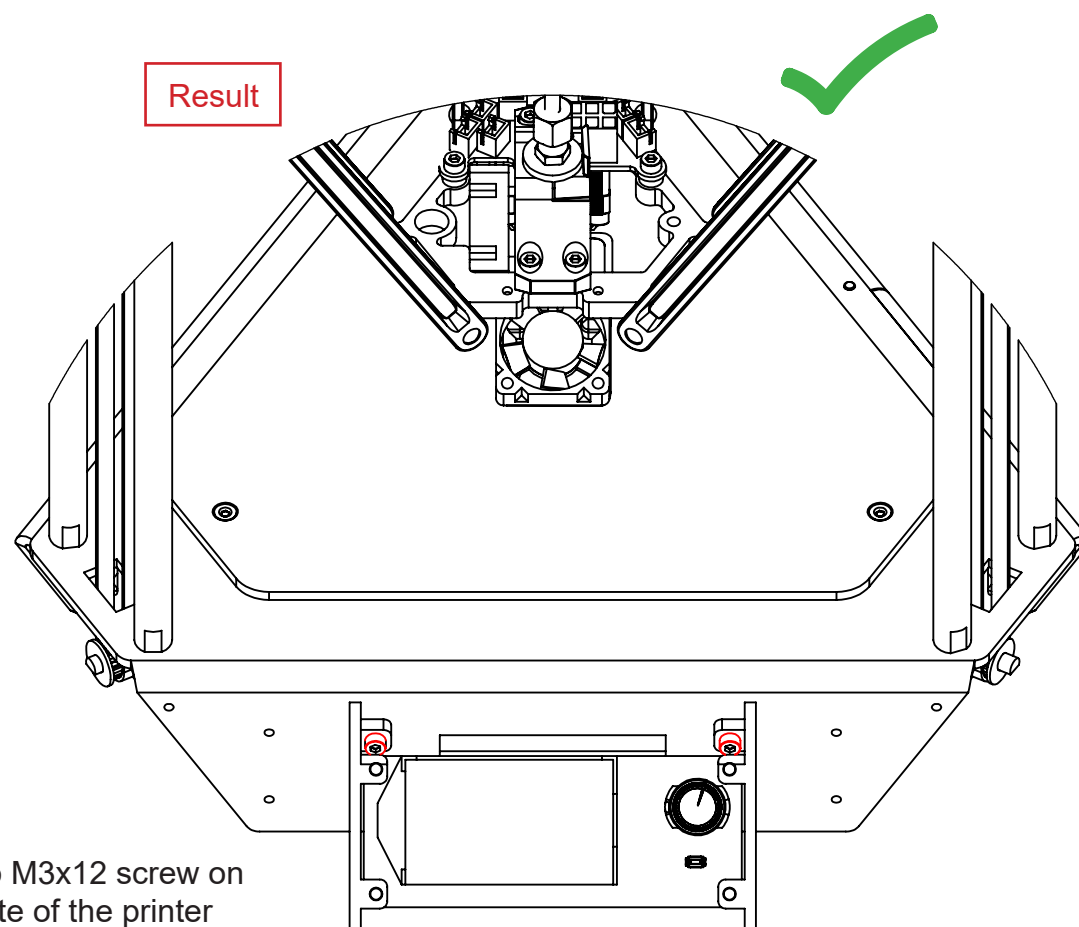
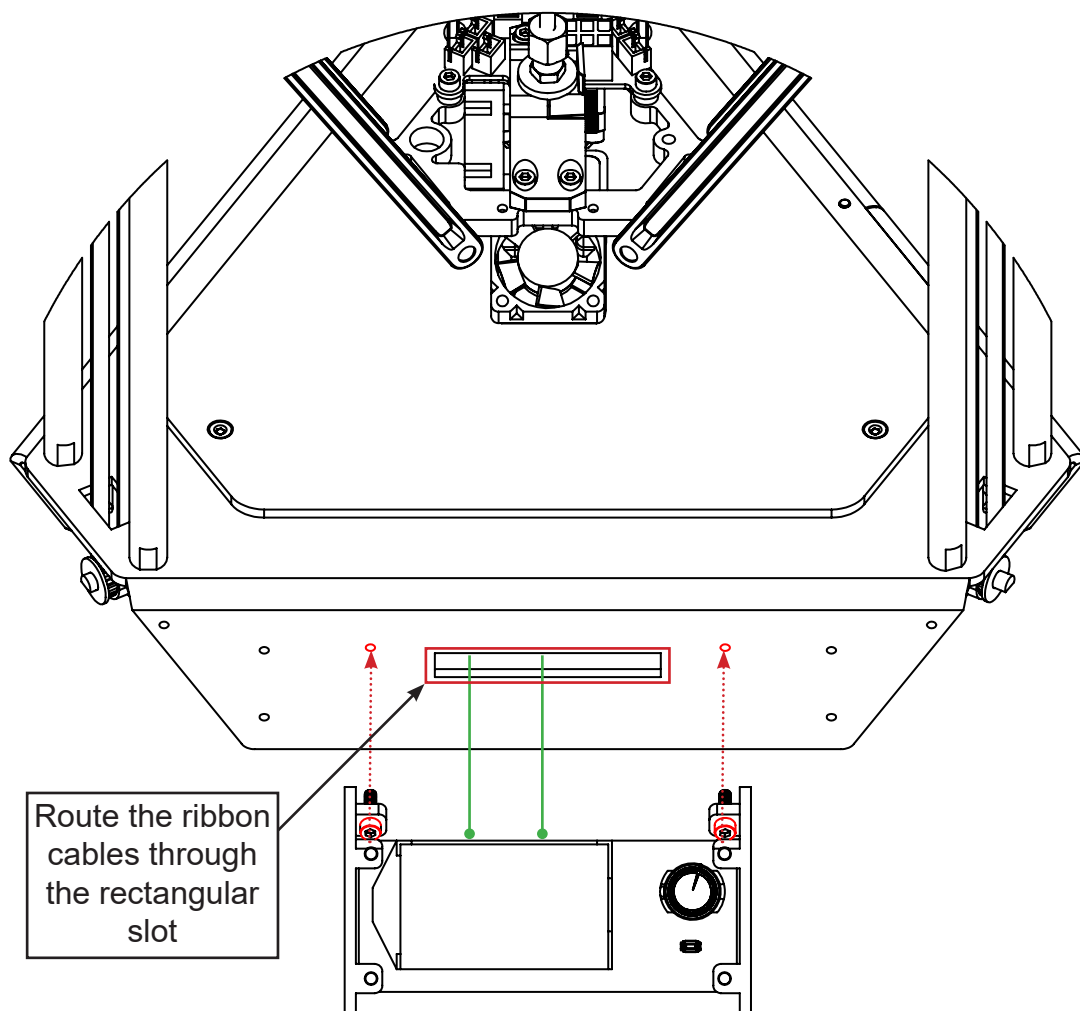
**Target :** preposition the LCD screen between the two covers (right and left)



**Result**

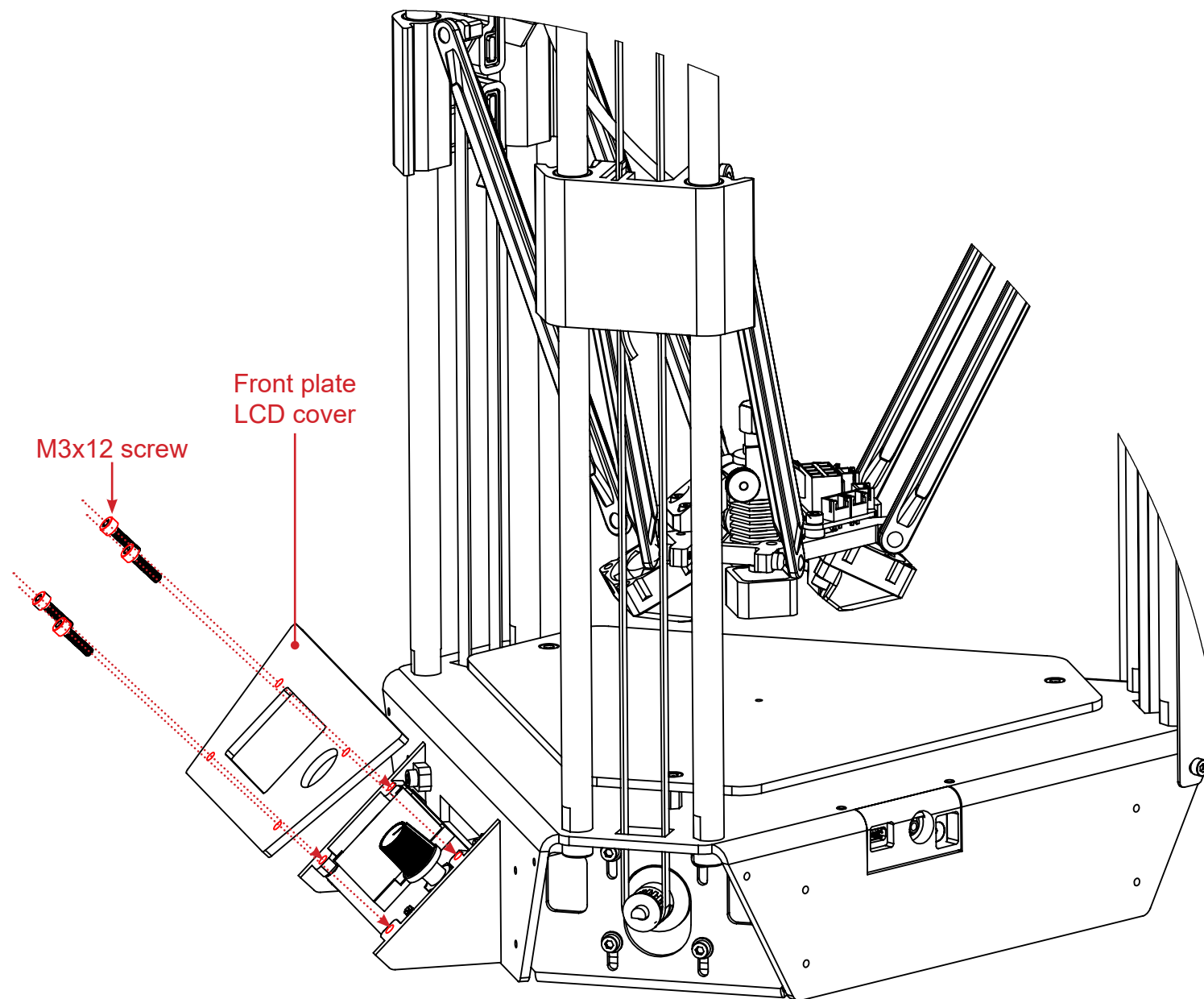


**Target :** mount the LCD on the printer

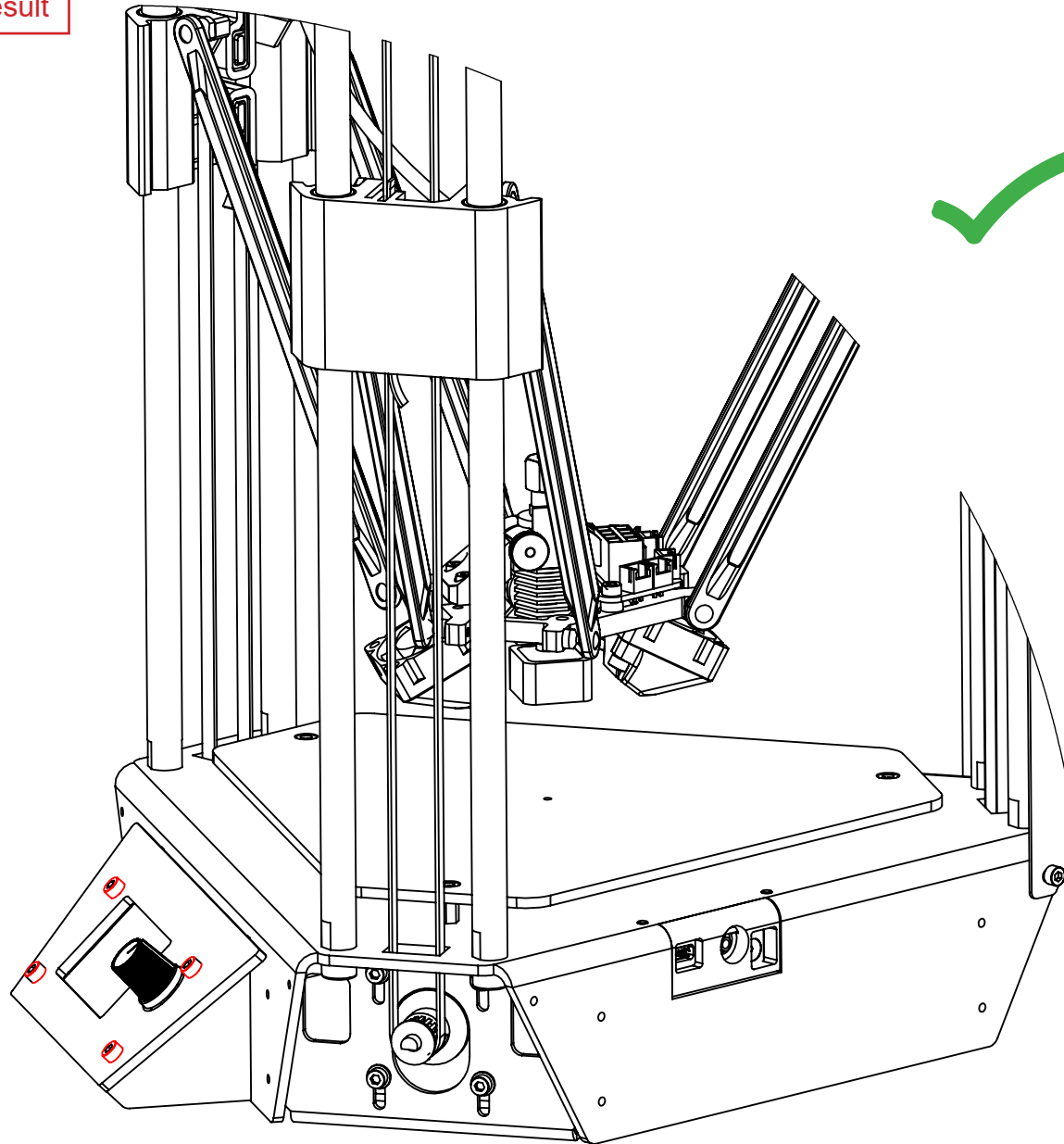


Tighten the two M3x12 screw on the lower plate of the printer

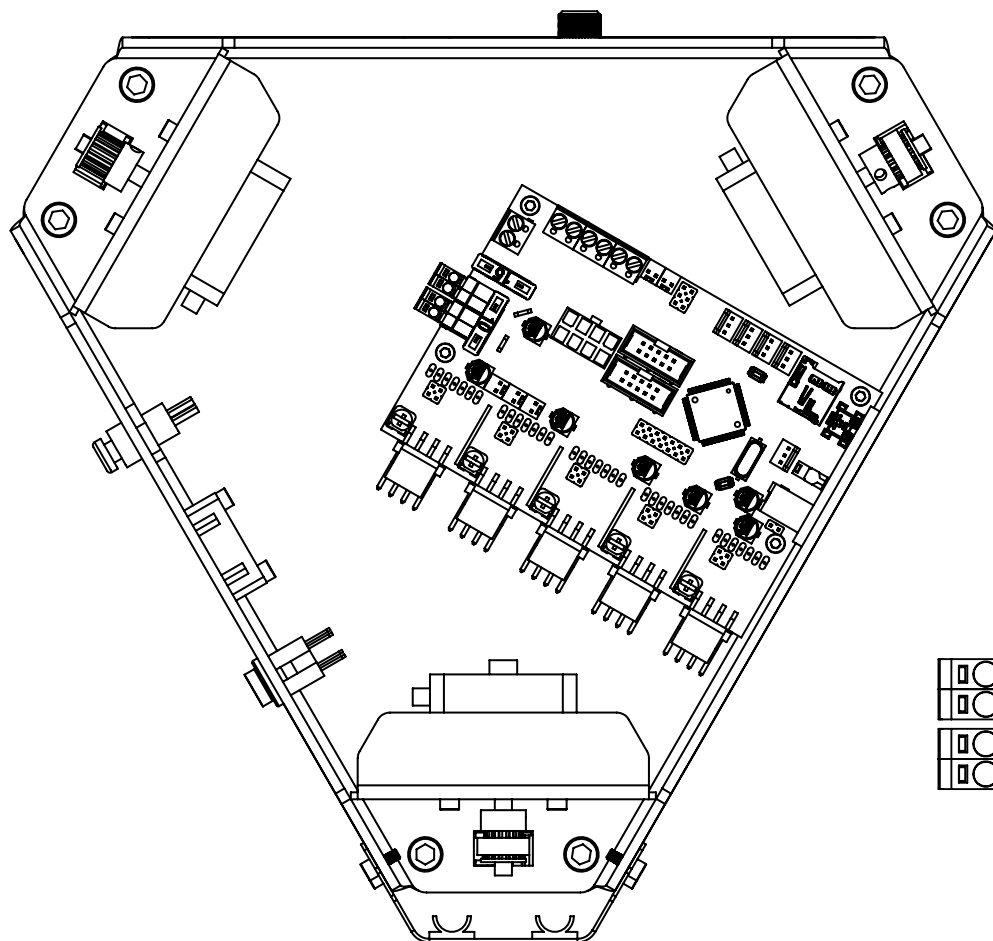
**Target :** mount the front plate LCD cover



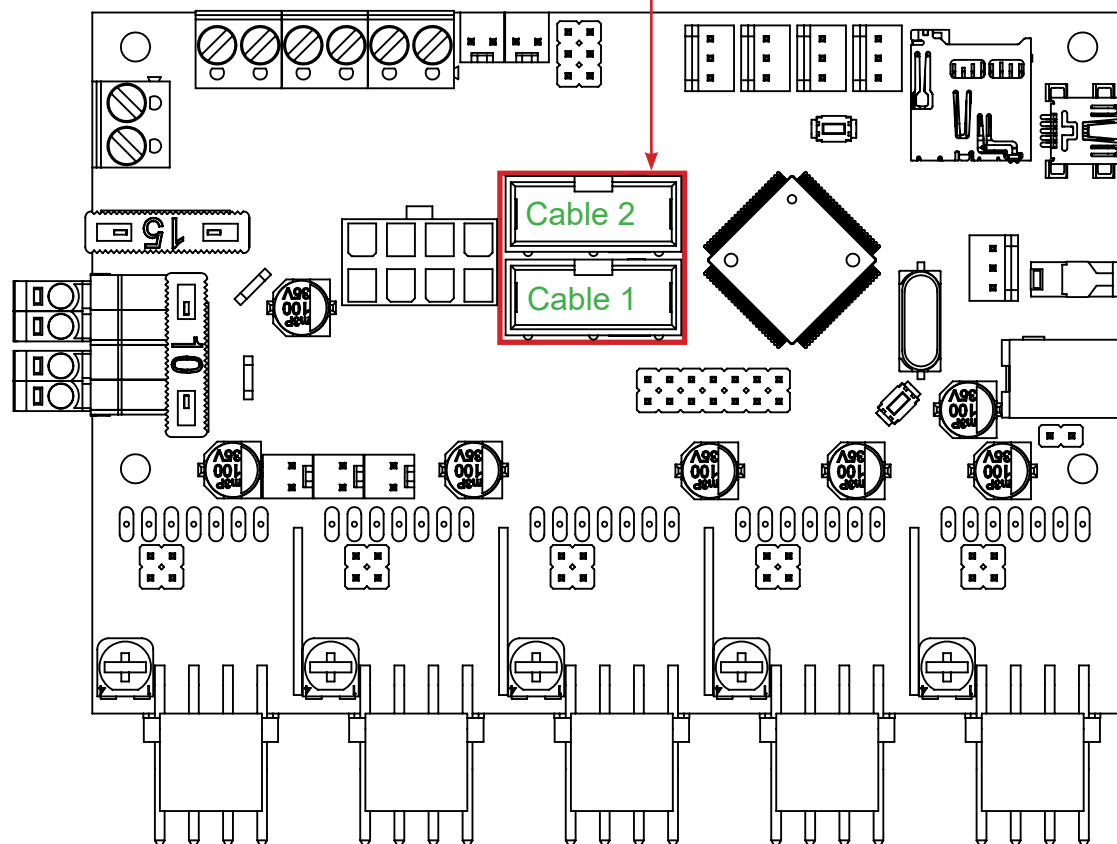
Result



**Target :** connect the LCD screen to the eMotronic board



Plug both ribbon cables on the emotronic board



## Modifying the configuration file:

Note: Without modification of the configuration files, your LCD screen will be preconfigured on a stable version (and therefore plug & play). However, if you want to acquire the latest version of the firmware, you can follow the following tutorial.

1°) Go to the Support section of [www.emotion-tech.com](http://www.emotion-tech.com). In the «MicroDelta Rework / Software / Software / Configuration» tree you will find all the available versions of the configuration file.

You will notice that two versions are available:

- Stable version
- A Beta version (in development, it integrates the function of calibration of the plate)

Download the version that corresponds to your printer (depending on your options)

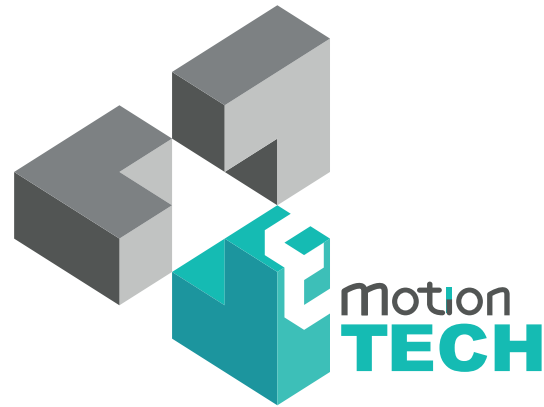
2°) Unzip the downloaded file and copy its content into the SD card of the eMotronic board. Replace existing files if necessary.

3°) Press the Reset button.



**CONGRATULATIONS !**  
**Your options are ready !**





Thank you for choosing us!

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[www.emotion-tech.com](http://www.emotion-tech.com)