DPS CASE

Case for the JT-DPS5015, JT-DPS5005 and JT-DPH5005
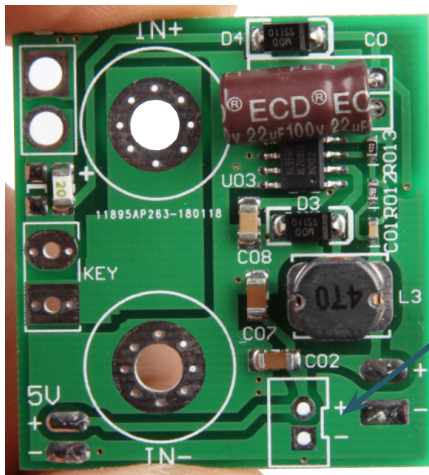

1. GENERAL INFORMATION

Dear customer,

thank you for purchasing our product. The following is a manual for the assembling of a case for DPS5015, DPS5005 and DPH5005.
Should you have any problems, do not hesitate to contact us.

2. COMPONENTS

## 3. ASSEMBLY OF THE CASE

Prepare the needed components.

To facilitate the assembling, you should begin with the small board from the case.

You have to solder a fan on the board, also a toggle switch and a cable have to be pursued to the mainboard.

The mainboard does not have a port for the fan. That is the reason that it has to be soldered on to the small board.

Therefore, the cable of the included fan has to be cut.

You must be very careful when you relieve the insulation from the cable core. The cores have to be free of insulation about 4 mm.
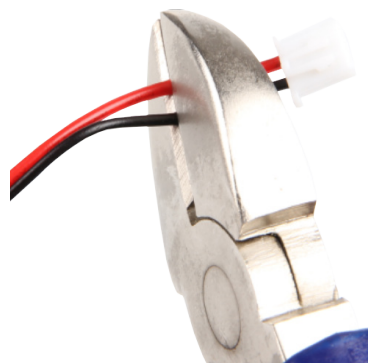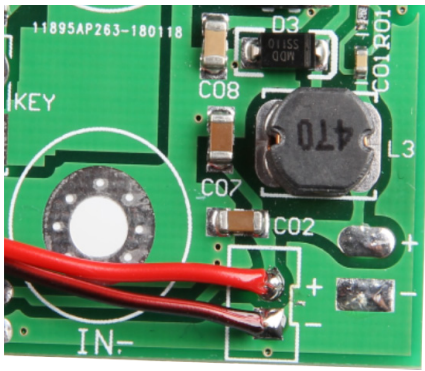
The red cable (+) must be soldered on "+" and the black one (-) on the board at "-".

Pull beforehand the stripped ends through the holes and solder from both sides.

Attention: Cut the cable cores on the backside with a side cutter off so that they will not cause a short later!

First must be the switch soldered that the lab power supply can be switched on and off. For that, you use the red and the black cable with the small diameter. Solder them at the switch like shown in the picture.


To prevent a short, you should isolate the contacts with shrinking tubes.

Now the supply from the small board to the mainboard must be prepared and afterwards soldered.
For this supply, you need the cables (the red "+" and the black "-") with the bigger diameter. You cut both after a length of 9 cm off.

Attention: Do not cut too much of the cable off, otherwise the cable could be too short for the outputs later on.
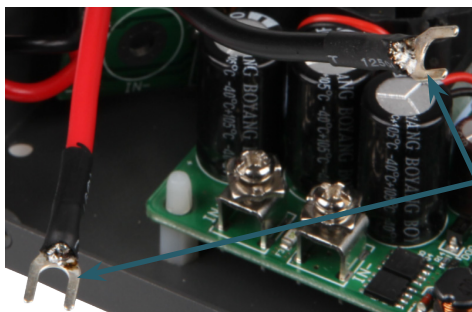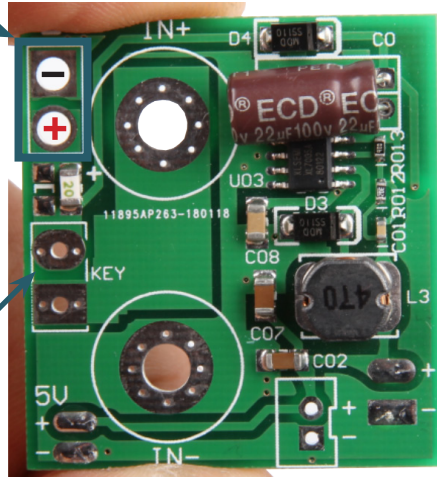

Both sides must be about 5mm at the end stripped because on both ends have to be forked cable lugs attached. These ends should be isolated with shrinking tubes either to prevent shorts.

The other end of the cable must be soldered on to the small board.

Have in mind the different polarities of both cables.
Red = „**+**" and **Black** = „**-**"

Now you can solder the switch. Have in mind that the cables must go later on through the case or attach the switch beforehand. The ends of the cables at the switch have to get soldered at the pads "KEY". Solder the red cable on to the rectangle pad and the black one on to the round pad.
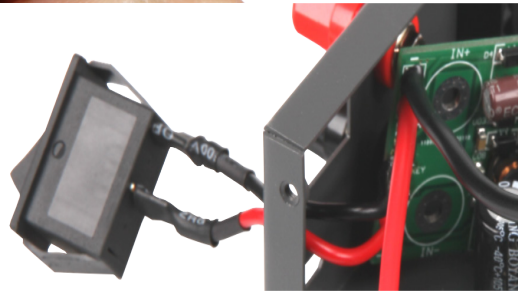
Now you can attach the mainboard with four screws at the bottom of the case and integrate the inputs and outputs of the power supply.
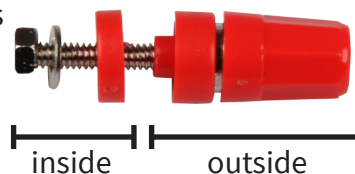

Ports at the front: Ports at the back:

Screw the ports at the case and attach the red ports at the top and the black ones at the bottom like that:

inside   outside

As soon as you have finished, you begin to prepare the cables for the output.

For that, you need again the cables with the bigger diameter and strip down about 5 mm on both sides. Attach forked cable lugs on both sides.

Now you can install the fan from the inside of the case. For this, four nuts must be plugged in from the back into the fan and four screws must be screwed from the outside of the case to mount the fan.
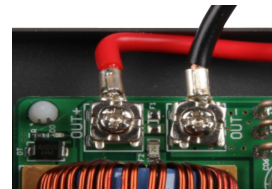
After the cables are connected and the fan is mounted, you can install the small board with two nuts at the case.

If the small board is installed, you can plug all cables in.

First, mount the cable for the input voltage ("IN+" and "IN-").

Next, mount the cable for the output voltage ("OUT+" and "OUT-").

The end of the cable from the output voltage must be conntected with the ports in the front.

In the end, you only have to connect the display. You have to connect two cables with the mainboard. One cable is for the display ("LCD") and one for the keys ("KEY"). The ports for the cables are marked on the board as well as on the display. As soon as you have the cable connected, you must only mount the display at the case.
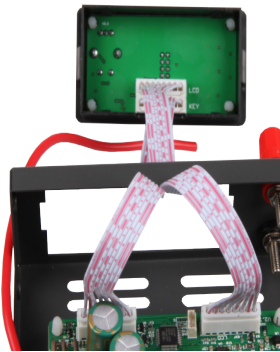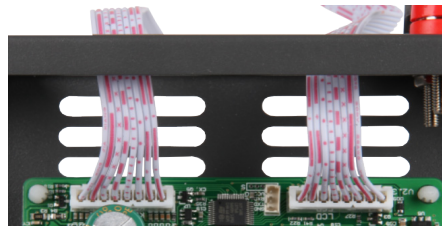
When all cables are plugged in, the boards screwed, the display and the switch mounted and the fan installed, you have finished the assembly of the case.

Now you can mount the case with four screws on both sides together.

4. JT-DPS-USB & JT-DPS-BT (OPTIONAL PURCHASABLE)

To set up the lab power supply on your computer, you need a micro-USB module that can be optionally purchased. This module can be installed in the case either.
The BT module is built to control the lab supply via your smartphone. This module can be installed in the case as well as the microUSB module.
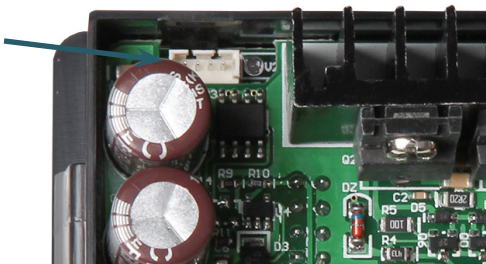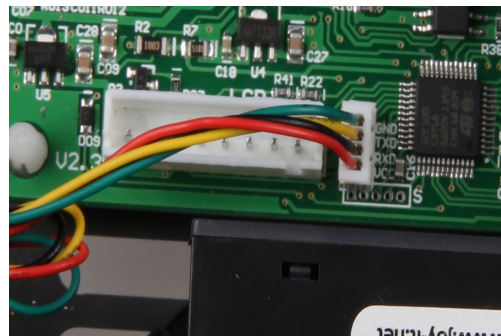
First of all, those spacers must be mounted at the module.
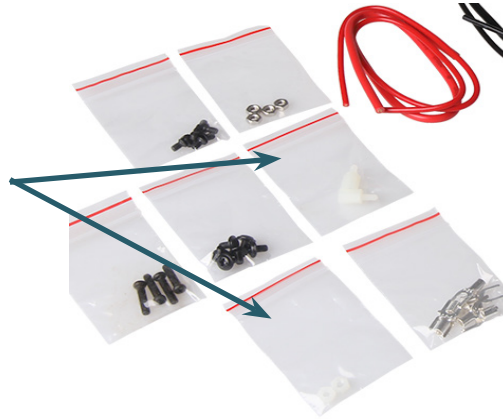
The module is going to be screwed next to the small board from beneath the case.

The module then must be plugged on to the mainboard.

The DPS5005 and the DPH5005 can both use the two modules either. But the place of the port which is used for the modules, depends on the model.

You should note that the case could affect the range of the BT module.
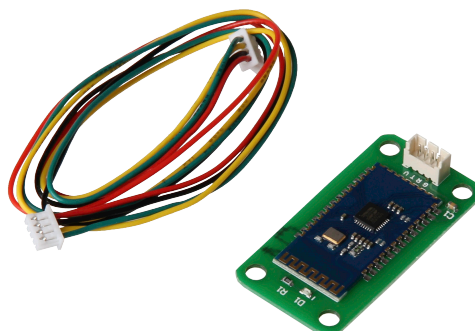
The necessary software can be downloaded from our website:

www.joy-it.net

The JT-DPS-Case can be used with our JT-DPS5015, our JT-DPS5005 and our JT-DPH5005. The JT-DPS5005 does not have a separate board like the JT-DPS5015 and the JT-DPH5005, the assembly of the case is a little bit different.

The input voltage and the output voltage of the case must be plugged in to the intented 4-pole PCB plug.
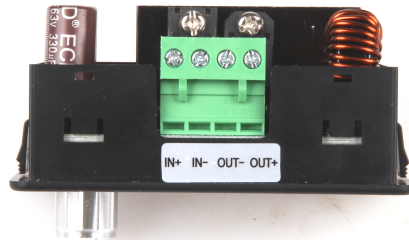
7. SUPPORT

We are there for you after your purchase. If any questions remain open or any problems arise, we are available by e-mail, telephone and ticket support system.

E-mail: service@joy-it.net
Ticket-system: http://support.joy-it.net
Telephone: +49 (0)2845 98469 – 66 (10 - 17 o'clock)

For more information visit our website:
www.joy-it.net

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