



## TECHNICAL SUPPORT ARTICLE

### REPLICATOR 2 : THERMOCABLE REPAIR

This article relates to : **Replicator 2**

Specifically : **The Thermocable that runs from the heaterblock to the motherboard** (pictures right)

#### ABOUT THE CABLE

The thermocable (see Fig 1.1).is brown in colour and can be seen coming out of the back of the aluminum heater block. In models of the Replicator 2™ this cable then ran under the aluminum mounting block and in through a space next to the filament fan to join the main cable bundle that runs from the extruder to the motherboard. Other models see this cable running straight from the back of the heaterblock to join in the cable bundle.

The cable has two raw wires at one end that join to the motherboard under the machine. At the other end is a hexagonal fitting that screws into the heater-block. The wires are secured to this fitting with heatshrink (see Fig 1.2).

#### WHAT CAN GO WRONG

Particularly when you have the model that sees the cable threaded under the mounting block, when a print fails filament can coat the wire. When pulling this filament off the wire some people have inadvertently ripped the cable from the hex mounting fitting.

It's ok. It has been designed to separate from the fitting rather than ripping or breaking; and is easily fixed.

#### FITTING A THERMOCABLE BACK TO THE FITTING

If your cable has been ripped from the hex fitting you will need to :

- 1) **Unscrew the hex fitting from the heaterblock.**

*Note : you may find that undoing the two screws that are under the aluminum mounting block (the long block not pictured here) and lifting out the heater block assembly will provide for easier access to the thermocable mounting point. The screws are on the underside of that block.*

- 2) **Check the cable** still has two raw wires exposed at the end of the cable and neatly twisted together. They should be approx 5mm exposed wire (see Fig 1.3)

- 3) **Re-attach the cable to the hex fitting**

If the heat shrink is still in place, you may be able to just slip the thermo cable back into the hex fitting using the existing heat shrink.

If not you will need to get a short length of heat shrink. Slip over the cable. Pop the cable into the hex fitting so that cables push in to the tip of the fitting and 1cm in. You may find a cream coloured wrapping just inside the hole which you can pull out. You will need pliers to help push it all the way in and it is important that it is all the way in. Slide heatshrink over hex fitting and shrink to hold cable in place (see Fig 1.2)

- 4) **Put it back together** Now screw the cable back into the heater block and re mount the heaterblock (see Fig 1.4) and test it is working. You can do this with the heaterblock just sitting in place—does the machine have any errors on startup? If not proceed to reassemble machine. *If not the cable may be damaged and need replacing. Please call tech support.*



Fig 1.1



Fig 1.2

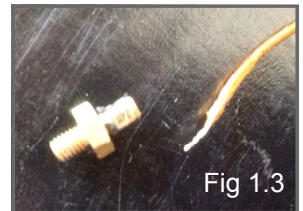


Fig 1.3

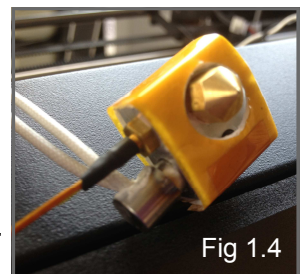


Fig 1.4

We hope this helped . If you have difficulties or need further help do not hesitate to contact us