



USER INFORMATION

Hot foil control board repair guide

applicable to:

Analogue/Mk1 Digi/Digi-50/Digi-60

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This document gives basic information for identifying Open Date hot foil control boards. For detailed information refer to the full instruction manual or contact Open Date.

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Hot foil controllers.

Open Date hot foil controllers contain user detachable modules ('boards') based on the Eurocard modular system.

Boards can be removed for exchange/repair by powering down, undoing the 4 retaining screws on the front panel and gently pulling forwards using handle.

Board replacement is the reverse of removal.

Before re-fitting repaired board.

To avoid damage when a repaired board is re-fitted the following must be checked:

- Condition of the printer cable and connector.
- Condition of the internal wiring of the printer.
- Heater element (short circuit).
- Print triggering mode (see below).

Damage to repaired boards caused by re-fitting to a faulty control box or printer system is not covered by the repair warranty.

If in doubt contact Open Date for advice.

Print trigger setting basics.

External print triggering (e.g. from parent machine) can be voltage or volt free operated.

N.B. Boards supplied for repair will usually be set to voltage triggering before returning. This is a safeguard against wrong print trigger settings on re-installation. (see below)

To avoid damage care should be taken to ensure the triggering is set correctly when the board is re-fitted. Pages 5 to 8 give specific instructions for each board type.

Boards set for voltage triggering will not be damaged if fitted to a volt free triggered system. (The printer will not be triggered in this case. Check the installation before changing the trigger mode to 'volt free')

Boards set for volt free triggering may be damaged if used in a voltage triggered system.

Identifying board types.

Use the pictures below to identify the different types of control board

Analogue (obsolete)

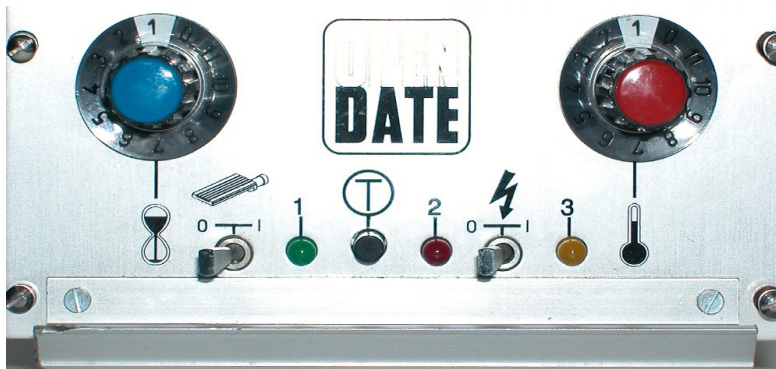
Serial numbers usually C-nnnn,

One or two rotary controls

Toggle switches. Front panel orientation horizontal or vertical

Cap on temperature knob denotes operating voltage:

Red = 230Vac, Yellow = 115Vac



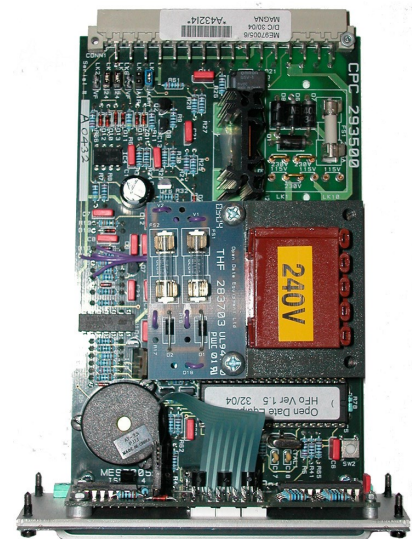
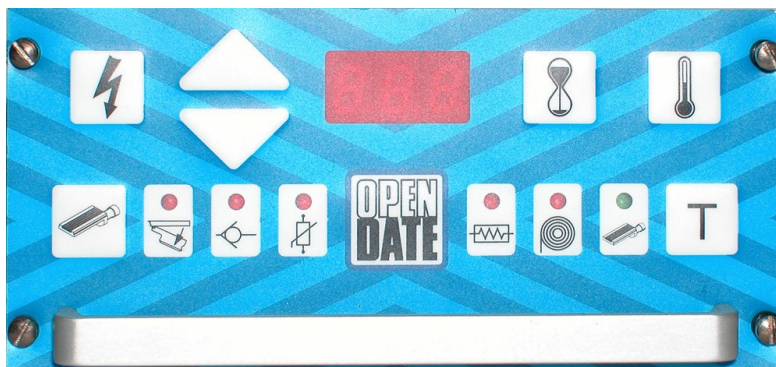
Mk 1 Digi (obsolete)

Serial numbers usually A-nnnnn,

Digital display of temperature and dwell time

Blue 'chevron' pattern front panel with membrane (touchpad)

Controls. Open frame transformer



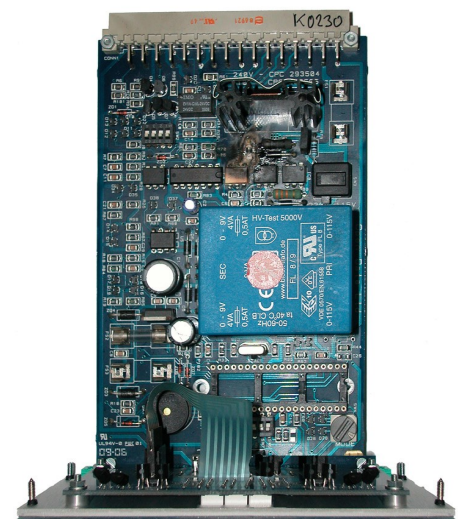
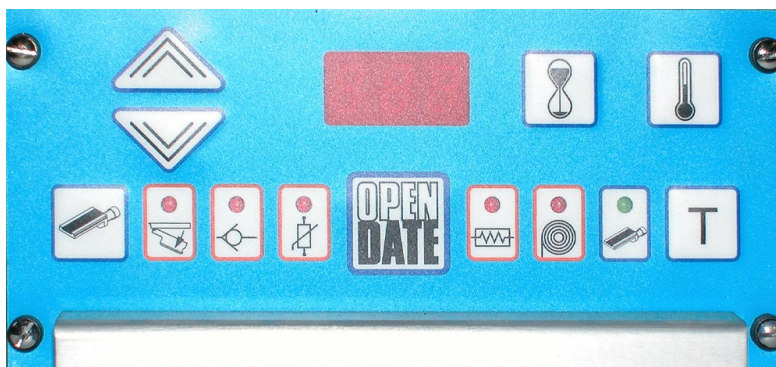
Digi-50 (obsolete)

Serial numbers usually K-nnnn

Digital display of temperature and dwell time

Plain blue pattern front panel with membrane (touchpad)

Controls. Blue encapsulated transformer



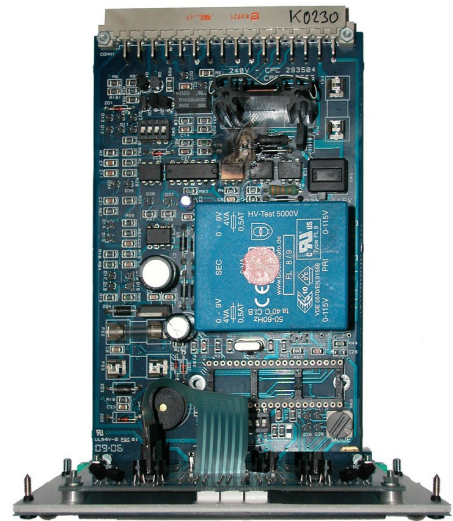
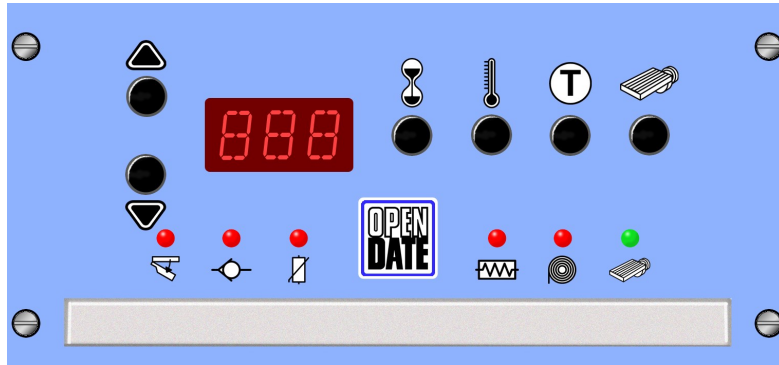
Digi-60 (Current)

Serial numbers usually X-nnnn

Digital display of temperature and dwell time

Push button controls for user inputs

Identical to Digi-50 except for revised front panel



Analogue control board. (Obsolete)

- Manufactured from 14/03/1989 to mid 2008.
- Operates from either 230Vac (red knob on temperature control) or 115Vac (yellow knob on temperature control) factory set by soldered wire links on PCB.
- Many variants including vertical & horizontal fascia, multi turn dwell control, heat only, dwell only. Some low voltage DC only versions.

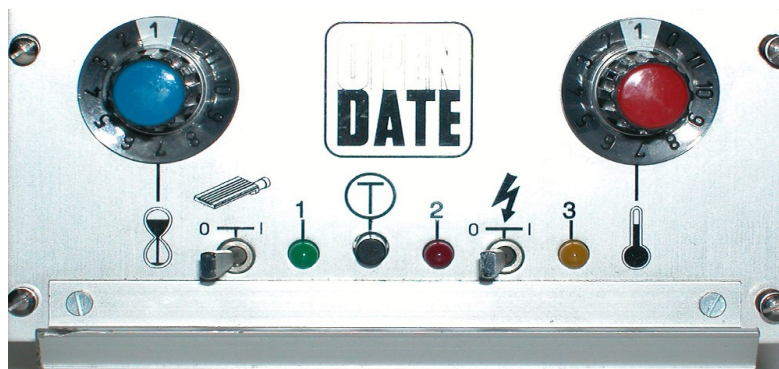
Current repair status

As of Jan 2017 Open Date Ltd is still able to repair most analogue control boards. The boards are modified to include enhanced protection against electrostatic discharges from the printer and fuse protection for the low voltage (secondary) circuit.

Availability of new stock

Analogue boards are no longer available

Digi-60 is a fully compatible replacement (See page 8)



Jumper links for
Print triggering

Jumpers set for DC print signal.
10 to 50V. Polarity unimportant

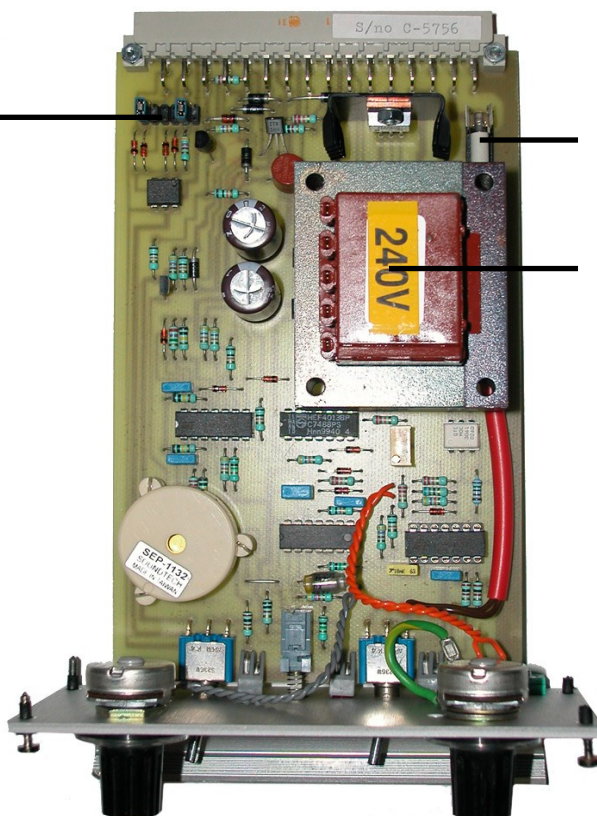


Jumpers set for normally open
print signal.



Supply fuse

Open frame transformer



Mk 1 Digi control board. (Obsolete)

- Manufactured from 1996 to 2005
- Operates from either 230Vac or 115Vac set by jumper links on PCB.
- Blue 'chevron pattern' front panel with digital temperature / dwell time display.
- Switchable thermistor type.
- Detection of open circuit thermistor and heater.
- No variants—one version produced.

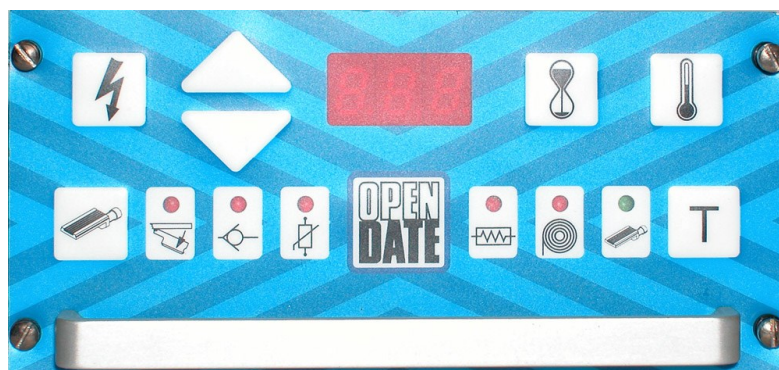
Current repair status

The Mk1 Digi board will not be accepted for repair due to long term problems with microprocessor memory. The microprocessor is no longer available.

Availability of new stock

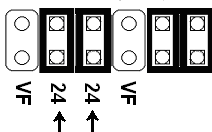
New Mk 1 Digi boards are not available.

Digi-60 is a fully compatible replacement (See page 8).

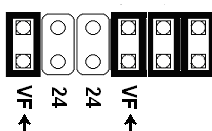


Jumper links for Print triggering

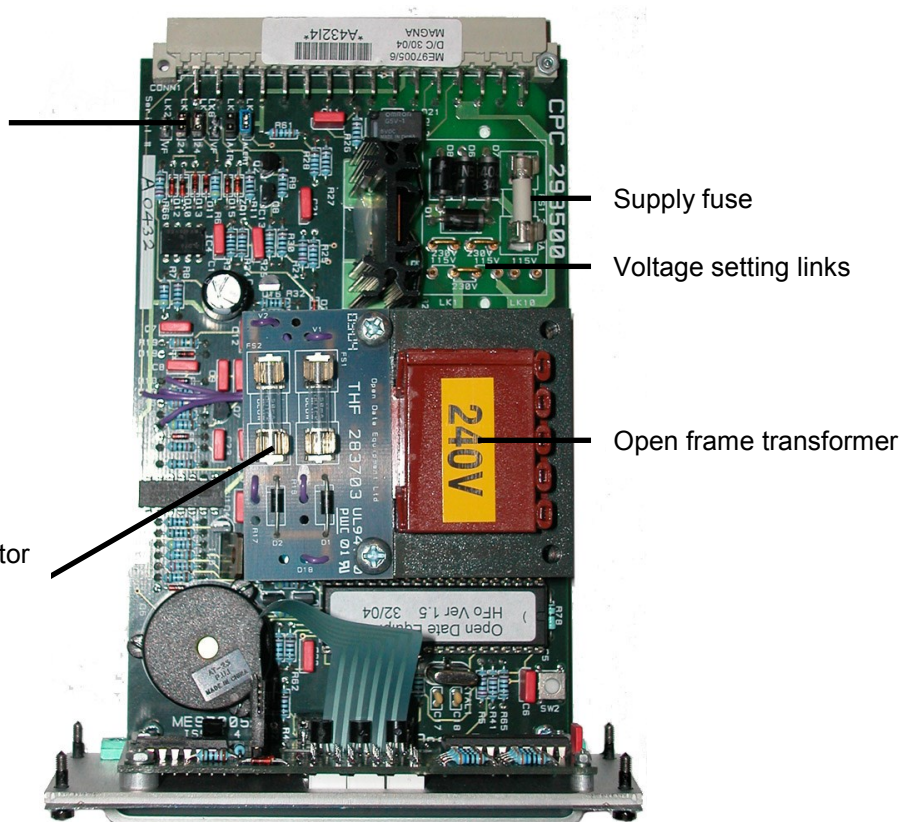
Jumpers set for DC print signal.
10 to 50V. Polarity unimportant.



Jumpers set for volt free
(normally open contact) signal



Supplemental thermistor
Fuse board
Modification Pt No.
THE283703



Digi-50 control board. (Obsolete)

- Manufactured from 2005 to 2016.
- Operates from either 230Vac or 115Vac set by switch on PCB.
- Plain blue front panel with digital temperature / dwell time display.
- Switchable thermistor type.
- Detection of open circuit thermistor and heater.
- No variants—one version produced.
- Blue encapsulated transformer.

Current repair status

We are currently able to repair Digi-50 boards subject to condition.

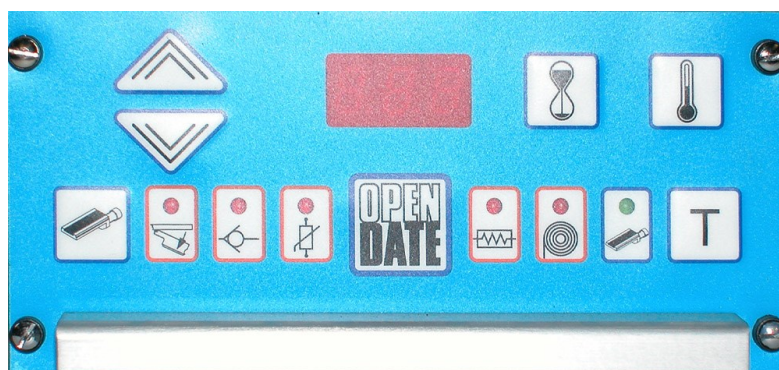
The latest software version is V6.0.

Boards returned to us for service will be upgraded to the latest software.

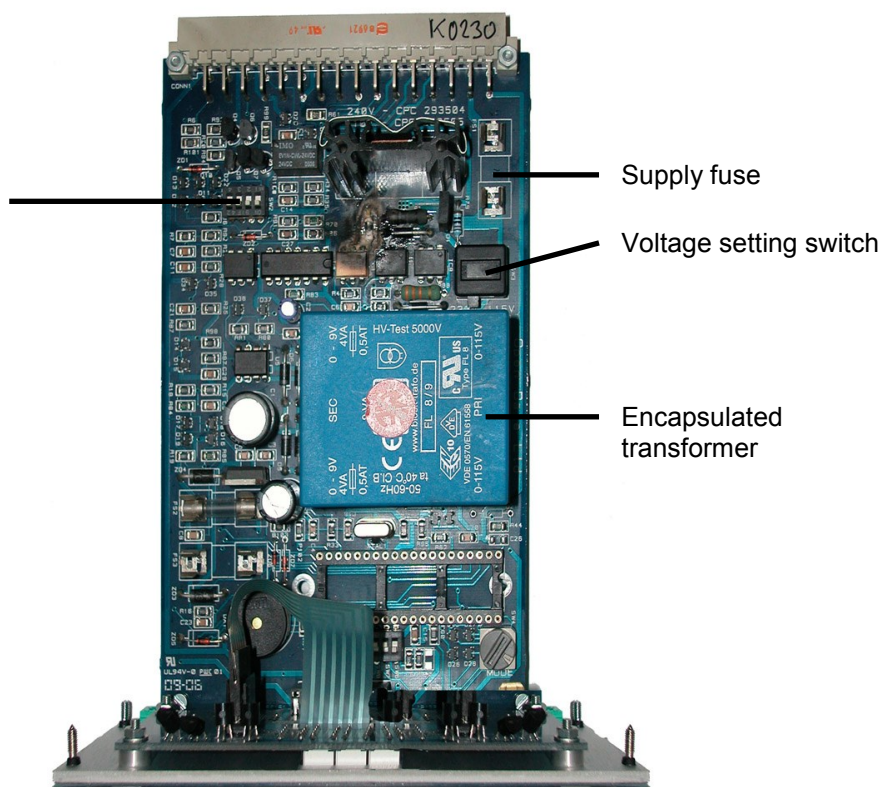
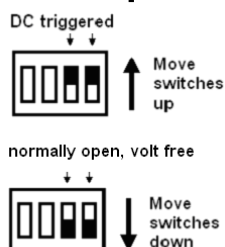
Availability of new stock

Spare Digi-50 boards are no longer available.

Digi-60 is a fully compatible replacement (See page 8).



DIP Switches
Set DC or
volt free triggering



Digi-60 control board. (Current)

- Manufactured from 2016 onwards.
- Identical to Digi-50 EXCEPT revised front panel.
- Operates from either 230Vac or 115Vac (set by switch on PCB).
- Plain blue front panel with digital temperature / dwell time display.
- Switchable thermistor type.
- Detection of open circuit thermistor and heater.
- No variants—one version produced.
- Blue encapsulated transformer.

Current repair status

Digi-60 can be repaired subject to condition.

The redesigned front panel buttons can be replaced individually.

A flat repair fee usually applies for faulty boards returned in good physical condition.

Availability of new stock

Spare Digi-60 boards are available from Open Date.

Pt No's :CPC293515 (set for 230Vac), CPC2393516 (set for 115Vac).

