



**GRANT**<sup>UK</sup>

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## FITTING and USER INSTRUCTIONS

# Mechanical Timer Kit for Combi 70 V3, Combi 90 V3, Combi Max Vortex Combi 26 and Vortex Combi 36

### **1** *Kit contents*

The Mechanical Timer Kit for the Grant Combi 70 and Combi 90 boilers (Ref. MTKIT) contains the following items:

- 1 Diehl Type 880 24-hour single channel mechanical timeswitch
- 2 Plastic fixing clamps
- 1 Wiring harness
- 1 Fitting and User instructions

### **2** *Electrical connections*

The wiring harness must be connected to the Diehl Type 880 mechanical timer as follows:

- Blue wire: To terminal 1 of the timer
- Red wire: To terminal 2 of the timer
- Brown wire: To terminal 3 of the timer
- Brown wire: To terminal 5 of the timer

### **3** *Fitting procedure*

**IMPORTANT: Ensure the electrical supply to the boiler has been isolated before fitting the timer.**

- 1 Remove the front door and front top casing.
- 2 Loosen (do not remove) the four screws securing the control panel to the side panels. Hinge the control panel forwards and allow it to drop down to gain access to the rear of the panel.
- 3 Remove the two screws securing the terminal block cover and lift off the cover.

**4 Remove the factory fitted link from terminals 8 and 9.**

- 5 Remove the four screws from the rear of the control panel. Remove the rear access cover.
- 6 From underneath the control panel, remove the screw securing the bracket behind the timer aperture. Withdraw and discard the bracket.
- 7 Remove the blanking piece from the timer aperture, in the control panel fascia, by firmly pressing on the Grant logo (in the centre of the black square) until it is detached from the rear of the fascia. Remove the blanking piece from the panel and discard.
- 8 Fit the 6-way plug on the timer wiring harness, firmly into the 6-way socket, to connect the timer to the boiler.
- 9 Carefully fit the timer into the aperture, and (from the rear of the control panel) fit the two fixing clamps, one into the slot on each side of the timer housing, with the two 'legs' towards the front of the timer.
- 10 With the front of the timer held against the fascia, push both clamps towards the front of the timer as far as possible to firmly secure the timer in position.
- 11 Replace the rear cover of the control panel and secure with the four screws previously removed.
- 12 Replace the terminal block cover in position over the terminal block, taking care not to trap any wires, and secure in position with the two screws previously removed.
- 13 Hinge the control panel back into position on the two retaining screws and replace the front top casing panel. Reconnect the electricity supply and check the operation of the timer. Refer to the instructions overleaf for operating and setting the timer.

**IMPORTANT: Leave these instruction with the User**

#### 4 Description and setting of timer

The timer will automatically control the times at which your boiler operates for central heating.

The 24 hr timer dial has a number of tappets around its edge, each corresponding to 15 minutes. When tappets (or groups) are moved in, towards the centre of the dial, the timer will be in an 'on' position during that period and the boiler will operate.

A typical timer setting for a working family could be as follows:-

The groups of tappets between 6.00 and 8.00, and 16.00 and 22.00 set towards the centre as shown in Fig. 1. This would provide two 'on' periods for central heating from 6 am to 8 am, then again from 4 pm to 10 pm.

To set the timer to the correct time of day, turn the dial (outer tappet ring) **clockwise** until the time of day is against the time indicator arrow head. Fig. 1 shows the timer at midnight (24.00).

If the power supply to the boiler is interrupted the timer will have to be reset.

**IMPORTANT: Do not turn the dial anti-clockwise.**

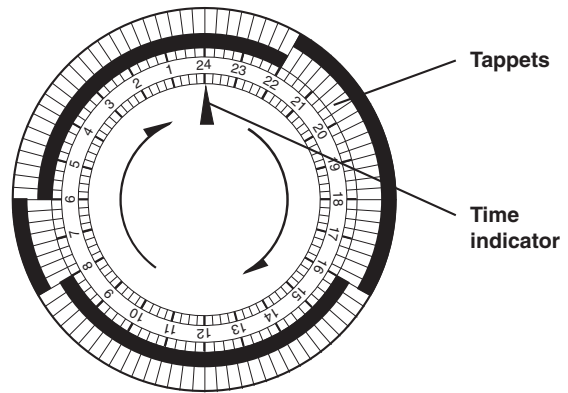


Fig. 1



Complies with the EC Low voltage,  
Electromagnetic compatibility and Boiler  
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89/336/EEC  
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