



**TRIANCO**

**EuroStar**

**Oil Fired Boilers**

**PROGRAMMER KIT**

**SUITABLE FOR  
EUROSTAR UTILITY BOILERS  
UP TO 240000 BTU**

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**FITTING AND USER  
INSTRUCTIONS**

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*To be retained by the householder*

# EuroStar Freestanding Utility Range

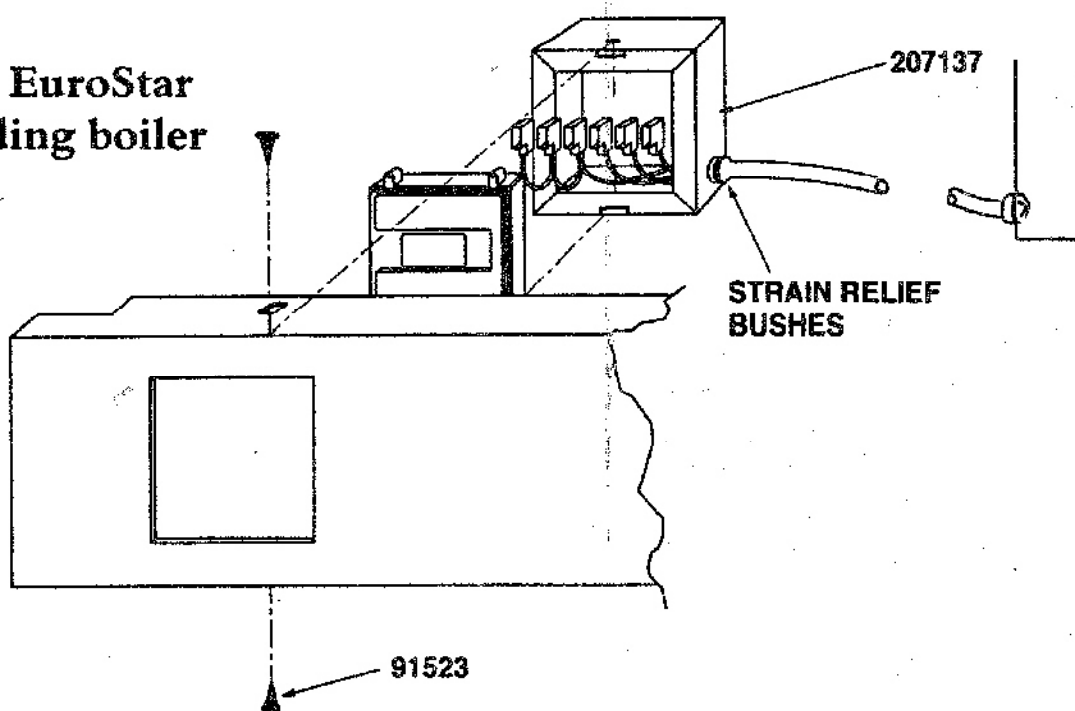
## Programmer Fitting Instructions

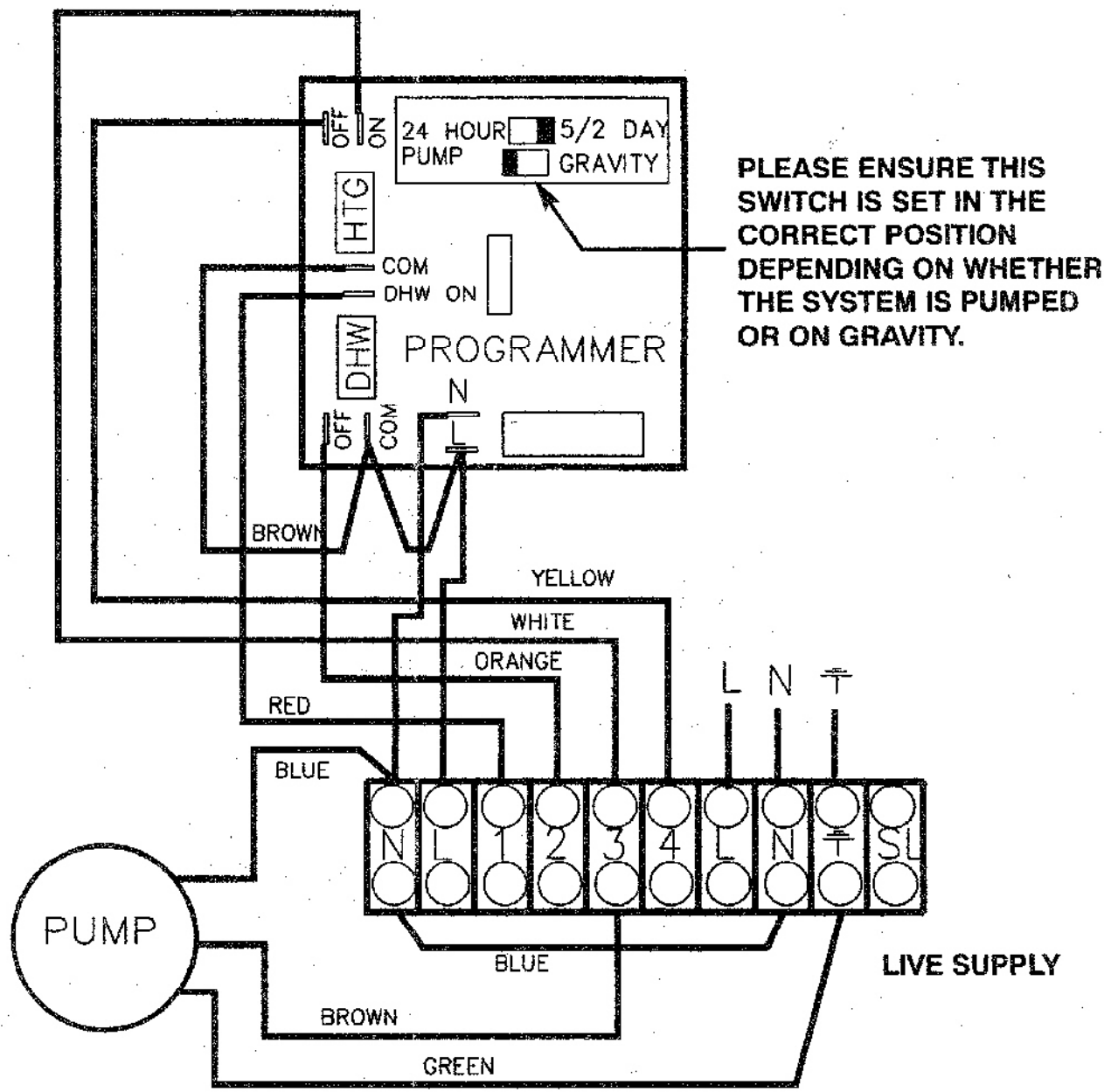
- A Switch off mains supply to boiler
- B Remove top panel
- C On the left hand side of control panel there is a blanking plate, which must be removed (plate secured in position by 2 self-tapping screws).
- D Programmer to be wired as shown in wiring diagram Fig. 2. Set switches on back of programmer for desired function.
- E Feed cable through hole in programmer mounting box using strain relief bush to secure cable in position.
- F Locate programmer into cutout in control panel and using mounting box secure in position using 2 self-tapping screws provided. (Fig.1)
- G With programmer in position pass other end of wiring loom through hole provided in the side of the control box.
- H Connect programmer wiring as per Fig.1 and secure wiring using other strain relief bush.
- I Close lid and replace screw.
- J replace top casing.

### Switch Setting

Programmer is despatched with switch set to 'P' for pumped systems. If gravity DHW is required move switch to 'G'.

**Fig. 1**  
Standard EuroStar  
Freestanding boiler



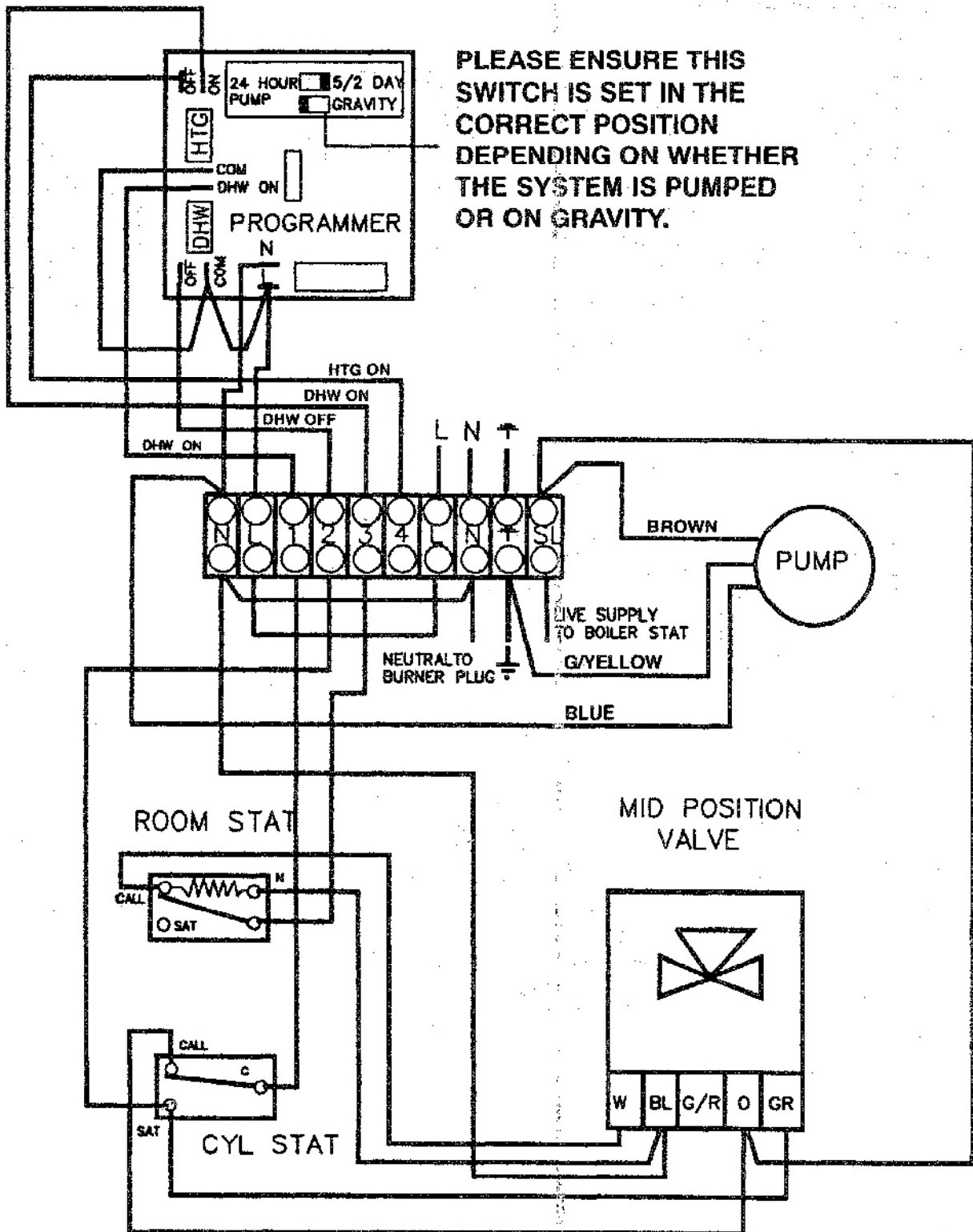


**DIAGRAM SHOWS PUMP FITTED AS SUPPLIED WITH SYSTEM BOILERS**

**Fig. 2**

**NOTES**

- (A) **IMPORTANT:** Link wires A,B, and C must be removed before fitting programmer (see boiler-wiring diagram in installation instructions)
- (B) Installation must conform to the latest IEE Regulations



**WIRING DIAGRAM OF SYSTEM CONTROLS USING HONEYWELL SUNDIAL "Y" PLAN OR SIMILAR MID POSITION VALVE SYSTEM**

**Fig. 3**

# Trianco Electronic Programmer - 2 Channel Version

## Specification

Power Supply	: 220/240Vac, 50/60 Hz
Switching Action	: 2 x2 SPDT, Type 1b
Switch Rating	: 220/240Vac, 50/60 Hz, 3(1)A
Timing Accuracy	: $\pm$ 1min/month
Power Reserve	: 14 days
Enclosure Rating	: IP30
Maximum Ambient Temp	: 45°C
Designed to meet BS3955 and BS E60730-2-7	
Overall Dimensions	: Width: 86.5mm Height: 88mm Depth: 35mm
Control Pollution Situation	: Normal

## Initial Power-Up

This unit may be in its 'Sleep Mode'. After the unit is installed press the four buttons: 'SELECT / ADVANCE / - / +' all at the same time to 'Wake up' the unit before programming.

## General

The programmer has been pre-installed in the boiler during manufacture. During installation the programmer will have been correctly configured for the boiler and been set up as a 24 hour unit, repeating its programme each day.

However should the consumer prefer to have 5 day/2 day operation, the unit can be re-configured on site by altering the position of a DIL switch on the rear of the programmer.

**Caution:** This should only be undertaken by a

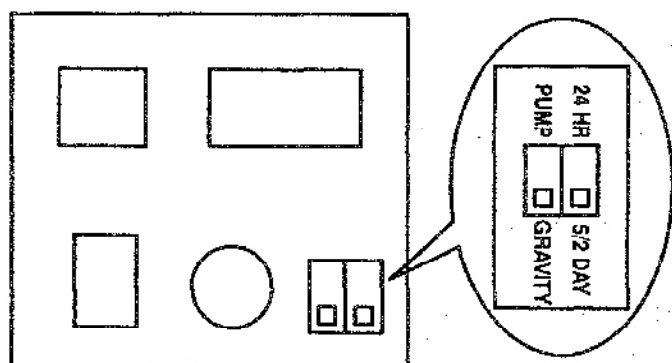


Fig. 4 Rear view of unit

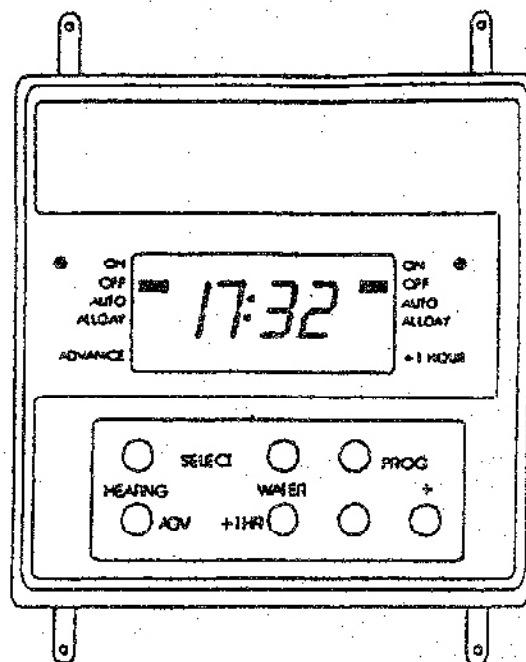


Fig. 5 Programmer with programming cover removed

competent person. If in any doubt, consult a qualified electrician.

## Location and setting of DIL Switches

The DIL switches are located on the bottom right hand side of the rear of the unit (see Fig. 4.)

## Factory Settings

Boiler Type: Eurostar Combi 65 & 90	
Switch Legend	Factory Setting
24 Hour - 5/2 Day	24 Hour
Pump Gravity	G

## Changes to factory settings

### 24 Hour or 5/2 day operation

This can be changed to suit the needs of the end user.

### Pump or Gravity

This should be left at the setting applicable to the boiler type (see above for details).

## Setting the time Danfoss OEM5

1. Remove white protective cover from base of programmer.
2. Activate programmer, pressing four buttons (select, advance and +Plus -Minus) together.
3. 12.00 will appear in window either-12.00 a.m. or 12.00 p.m.
4. Press programmer button.
5. Press +Plus or Minus buttons to adjust time to AM or PM.
6. Press programmer button.
7. To set on/off times refer to Setting event times Fig. 5

## Setting event times

### Step A

Press PROG to advance to the next step. The display will be as in figure 6.

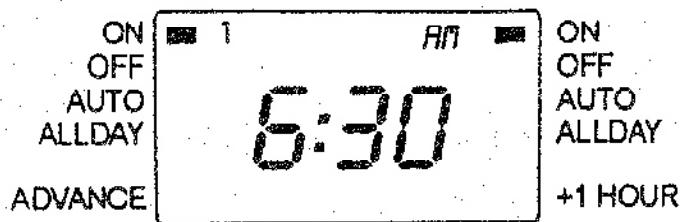


Fig. 6

### Step B

Press and release the + or - buttons to change event 1 ON time in increments of 1 minute. **Note:** If buttons are held down, the time will change in increments of 10 minutes.

### Step C

Press PROG again to select event 1 OFF time. The display will be as in figure 7.

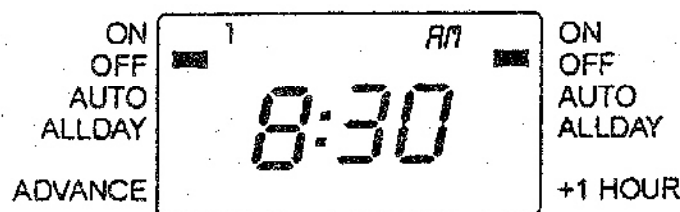


Fig. 7

Repeats Steps A, B and C above for event 2 ON/OFF times and again for event 3 ON/OFF times before pressing PROG again to return to RUN mode.

Having finished programming, replace the programming button cover.

## Additional Programming Steps for 5 Day/2 Day Operation

If the unit has been set for 5 Day/2 Day operation, the following additional steps must be made.

### Setting day of week

Having set time of day in Step 2, press PROG, then + or - to set the day of the week. This is displayed at the bottom of the LCD.

### Setting weekend programmes

Having set the 3 ON/OFF events for the week days, repeat Steps A, B and C for the three weekend ON/OFF events before pressing PROG again to return to RUN mode.

Having finished programming, replace the programming button cover.

## Using Water and Heating Select Buttons

Use the WATER and HEATING SELECT buttons to select between:

- ON run continuously
- OFF off continuously
- AUTO follows programme
- ALLDAY turns on at first programmed ON event and off at end of last programmed OFF event.
- Use ADV or +1HR override programmes. ADV advances unit next event
- +1HR adds 1 hour on to end of current programme

**Note:** If installation setting GRAVITY/PUMP has been set to GRAVITY, HEATING cannot operate without WATER also being on.

## Battery back-up

In the event of a power failure the time and programmed events will be retained for up to 14 days, after which the unit will go into sleep mode, and will need to be reprogrammed when the power is restored (refer to "Initial Power-Up" at beginning of document)



By appointment to H.M. Queen Elizabeth  
The Queen Mother  
Manufacturers of Domestic Boilers



**TRIANCO REDFYRE LIMITED**  
Thorncliffe, Chapeltown, Sheffield S35 2PZ

Tel: Sheffield (0114) 257 2300

Fax: (0114) 257 1419

[www.trianco.co.uk](http://www.trianco.co.uk)



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