

# PRO G600X-A / XP-A



# Service Manual

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a Division of 'ITW (UK) Ltd'



ISO 14001



ISO 9001



# Environmental Management Policy for Service Operations.

## Product Support and Installation Contractors

Foster Refrigerator recognises that its activities, products and services can have an adverse impact upon the environment.

The organisation is committed to implementing systems and controls to manage, reduce and eliminate its adverse environmental impacts wherever possible, and has formulated an Environmental Policy outlining our core aims. A copy of the Environmental Policy is available to all contractors and suppliers upon request.

The organisation is committed to working with suppliers and contractors where their activities have the potential to impact upon the environment. To achieve the aims stated in the Environmental Policy we require that all suppliers and contractors operate in compliance with the law and are committed to best practice in environmental management.

Product Support and Installation contractors are required to:

1. Ensure that wherever possible waste is removed from the client's site, where arrangements are in place all waste should be returned to Foster Refrigerator's premises. In certain circumstances waste may be disposed of on the clients site; if permission is given, if the client has arrangements in place for the type of waste.
2. If arranging for the disposal of your waste, handle, store and dispose of it in such a way as to prevent its escape into the environment, harm to human health, and to ensure the compliance with the environmental law. Guidance is available from the Environment Agency on how to comply with the waste management 'duty of care'.
3. The following waste must be stored of separately from other wastes, as they are hazardous to the environment: refrigerants, polyurethane foam, oils.
4. When arranging for disposal of waste, ensure a waste transfer note or consignment note is completed as appropriate. Ensure that all waste is correctly described on the waste note and include the appropriate six-digit code from the European Waste Catalogue. Your waste contractor or Foster can provide further information if necessary.
5. Ensure that all waste is removed by a registered waste carrier, a carrier in possession of a waste management licence, or a carrier holding an appropriate exemption. Ensure the person receiving the waste at its ultimate destination is in receipt of a waste management licence or valid exemption.

### DISPOSAL REQUIREMENTS

If not disposed of properly all refrigerators have components that can be harmful to the environment. All old refrigerators must be disposed of by appropriately registered and licensed waste contractors, and in accordance with national laws and regulations.

The materials used to package this refrigerator/coldroom may be recycled. Recycling will reduce the effect this waste has upon the environment. For information on waste collection facilities in your area, and other advice on recycling of packaging waste, visit [www.recycle-more.co.uk](http://www.recycle-more.co.uk)

### Cabinet Description

The cabinets are manufactured as a one piece foamed shell.

Temperature is controlled by a microprocessor control with digital temperature display.

The heated air is circulated the heater element, via the fan into the storage area.

**The cabinets conform to current legislation and exceed the Montreal protocol using zero ODP refrigerants and insulation**

Temperature is controlled by a LAE microprocessor control with digital temperature display.

All models are fitted with lockable swivel castors to the front and swivel castors to the rear.

### Controller Operation

#### Initial Start Up.

#### Start Up & self Test:



The indication is only displayed during the first three seconds following the mains electrical power being applied to the unit. During this period the controller performs a self-check.

Once the self-check has been completed  will be displayed.

Press and hold  for three seconds. The unit will start and the air temperature will be displayed.

#### Check temperature set point.

Check set point by pressing the button



Important to note that the ability to increase and decrease the set point is not a function available to the user as the set point is fixed. To make adjustments to the set point it is necessary to access the parameter and alter SPL and SPH accordingly.

To increase set point press +  until required temperature is displayed.

To decrease set point press  +  until required temperature is displayed.

Exit from set up occurs after 10 seconds if no button is pressed.

### Set Unit to Standby.

Press  display shows 


### Standby Indication

This indication is displayed while the unit is not operating but with mains power applied to the unit. This mode may be used for internal cleaning regimes and short periods when the unit is not required.

For extended periods of inactivity the mains supply should be isolated.

Factory Temperature Set Point 87°C



### Alarm and Warnings

In the event of a probe failure the display will show 

**Action:** Replace Probe.




### Parameter Setting and Adjustment

**It is strongly advised that before adjusting any Service Parameters a thorough understanding of the following instructions should be obtained.**

The parameters are accessed by pressing the following keys in succession  + “set” +  and keeping them pressed for 5 seconds.

After this period the first parameter ‘SCL’ will be displayed.



Press button  to pass from one parameter to the next and button  to go back.

Press  to display the value +  or  to change it.

Exit from set up is automatic if no buttons are pressed for 30 seconds

### NOTE:

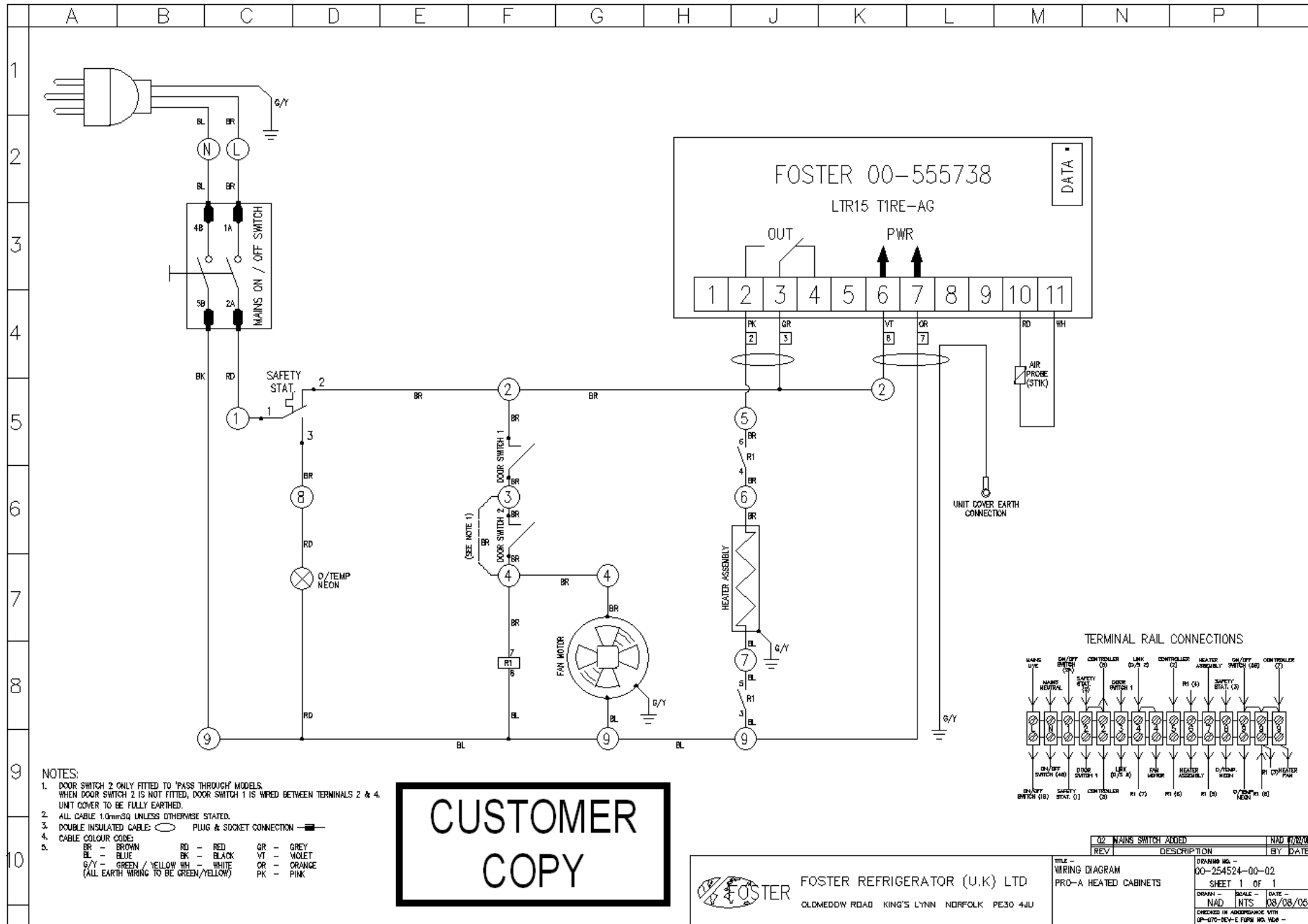
When receiving a replacement controller the unit will be set with the default settings. Change the settings to those relating to the particular model. After changing parameter ‘SCL’ from ‘1’ to ‘2’ moving through parameters ‘SPL’, ‘SP’, ‘FDD’, ‘IISL’ and ‘IISP’ you may find that ‘-or’ will be displayed. ‘-or’ indicates that the control setting is out of range.

To get the parameter back into range, for example ‘SPL’, press  to display the value +  continue pressing both buttons until the display shows the temperature required then release both buttons. Use the same procedure to adjust all of the parameters displaying ‘-or’.

### Controller 00- 555738 Parameter

Mnemonic	Definition	Min.	Max	Dim.	Default	Setting
SCL	Readout scale	1°C / 2°C / °F		flag	1°C	2°C
SPL	Minimum setpoint [ I ]	-199	SPH	°C	-19.9	83
SPH	Maximum setpoint [ I ]	SPL	999	°C	99.9	90
1SP	Setpoint [ I ]	SPL	SPH	°C	40	87
1Y	Control Type	HY	PID	flag	hy	HY
1HY	Change-over hysteresis [ I ]	-199	199	°K	-5	-3
1PB	Proportional band	-199	199	°C	-5	6
1IT	Integral action time	0	999	sec.	350	1
1DT	Derivative action time	0	999	sec.	50	4
1AR	Reset of interal action	0	100	%	90	15
1CT	Cycle time	0	255	sec.	10	20
1PF	Status with faulty sensor	ON / OFF		flag	OFF	OFF
BAU	Operation of auxillary button	NON / SBY		flag	NON	NON
SIM	Display slowdown	0	100	flag	0	3
OS1	Sensor correction	-150	150	°K	0	0
ADR	Unit address	1	255	flag	1	1

# Wiring Diagram



CUSTOMER COPY



**FOSTER REFRIGERATOR (U.K.) LTD**  
OLDMEDDW ROAD KING'S LYNN NORFOLK PE30 4JU

FILE - WIRING DIAGRAM  
PRO-A HEATED CABINETS

DRAWING NO. - 00-254524-00-02  
SHEET 1 OF 1  
DRAWN - NAD NTS DATE - 08/08/05  
CHECKED IN ACCORDANCE WITH UP-070-REV-E FORM NO. 106 -