

FISHER & PAYKEL

WALL OVEN

OB60C models

SERVICE MANUAL

NZ AU GB

Brand: Fisher & Paykel

Model	Description	CA	CA NEW LOGO	Market
OB60NC7CEX1	Single compact oven, 7 functions, classic, electronic clock, stainless steel.	80983	81498	AA
OB60NC9DEX1	Single compact oven, 9 functions, designer, electronic clock, stainless steel	80982	81497	AA
OB60SC5CEX1	Single oven, 5 functions, classic, electronic clock, stainless steel	80980	81495	AA
OB60SC5CEW1	Single oven, 5 functions, classic, electronic clock, white	80981	81496	AA
OB60SC7CEX1	Single oven, 7 functions, classic, electronic clock, stainless steel	80948	81485	AA
OB60SC7CEX1	Single oven, 7 functions, classic, electronic clock, stainless steel	85425	81530	GB
OB60SC7CEW1	Single oven, 7 functions, classic, electronic clock, white	80979	81494	AA
OB60SC7CEW1	Single oven, 7 functions, classic, electronic clock, white	85426	81531	GB
OB60SC9DEX1	Single oven, 9 functions, designer, electronic clock, stainless steel	80947	81484	AA
OB60SC9DEX1	Single oven, 9 functions, designer, electronic clock, stainless steel	85424	81529	GB
OB60SC9DEPX1	Single oven, 9 functions, designer, electronic clock, stainless steel, pyrolytic self clean	80946	81483	AA
OB60SC9DEPX1	Single oven, 9 functions, designer, electronic clock, pyrolytic self clean, stainless steel	85432	81528	GB
OB60SC7CEPX1	Single oven, 7 functions, classic, electronic clock, pyrolytic self clean, stainless steel	80975	81490	AA
OB60SC7LEX1	Single oven, 7 functions, designer, electronic clock, stainless steel	80976	81491	AA
OB60SC7VMX1	Single oven, 7 functions, designer, minute timer, stainless steel	80977	81492	AA
OB60SC5LCX1	Single oven, 5 functions, designer, electronic clock, stainless steel	80978	81493	AA
OB60SC7CEPX1	Single oven, 7 functions, designer, electronic clock, stainless steel, pyrolytic self clean	85427	81532	GB
OB60SC7VEX1	Single oven, 7 functions, designer, electronic clock, stainless steel	81114	81505	AA
OB60SC7VEW1	Single oven, 7 functions, designer, electronic clock, white	81115	81506	AA
OB60SC11DEPX1	Single oven, 11 functions, designer, electronic clock, stainless steel, pyrolytic self clean	81113	81504	AA
OB60SC11DEPX1	Single oven, 11 functions, designer, electronic clock, stainless steel, pyrolytic self clean	81225	81511	GB

Brand: Fisher & Paykel

Model	Description	CA NEW LOGO	Market
OB60SC8DEPX2	Single oven, 8 functions, designer, electronic clock, stainless steel.	81739	AA
OB60SC7CEPX2	Single oven, 7 functions, classic, electronic clock, stainless steel	81741	AA
OB60SC7CEX2	Single oven, 7 functions, classic, electronic clock, stainless steel	81742	AA
OB60SC7CEW2	Single oven, 7 functions, classic, electronic clock, white	81743	AA
OB60SC6CEPX2	Single oven, 6 functions, classic, electronic clock, stainless steel	81744	AA
OB60SC5CEPX2	Single oven, 5 functions, classic, electronic clock, stainless steel	81747	AA
OB60SC5CEX2	Single oven, 5 functions, classic, electronic clock, stainless steel	81748	AA
OB60SC5LCX1EL	Single oven, 5 functions, classic, electronic clock, stainless steel	85422	AA
OB60SC7CEX2	Single oven, 7 functions, classic, electronic clock, stainless steel	81876	GB
OB60SC5CEX2	Single oven, 5 functions, classic, electronic clock, stainless steel	81877	GB

FEATURED PRODUCT & CONTACT ADDRESSES

OB60C



Fisher & Paykel Appliances Ltd
PO Box 58-546, Botany
78 Springs Rd, East Tamaki
Manukau 2013
New Zealand

tel: (09) 2730660
fax: (09) 2730580
email: customer.care@fp.co.nz

Fisher & Paykel Customer Services Pty Ltd
PO Box 798, Cleveland, QLD 4163
A.C.N. 003 3335 171
19 Enterprise Street Cleveland, QLD 4163
Australia

tel: (07) 3826 9100
fax: (07) 3826 9164
email: customer.care@fp.com.au

Fisher & Paykel Appliances Ltd
Singapore
150 Ubi Avenue 4
Sunlight building #02-00
Singapore 408825

tel: 6547 0100
service tel: 6741 0777
fax: 6547 0123

Fisher & Paykel Appliances Ltd U.K
Turing Hose, Ortensia Drive
Milton Keynes
England, MK17 8LX

tel: 0845 066 2200
fax: 0845 331 2360
email: customer.care@fisherpaykel.co.uk

Fisher & Paykel Appliances
Unit D2
North Dublin Corporate Park
Swords
Co Dublin
Ireland

tel: 1800 625 174
fax: 1800 635 012
email: customer.care@fisherpaykel.ie

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1.1 Health & Safety

Note: When servicing the wall oven, Health and Safety issues must be considered at all times. Specific safety issues are listed below with their appropriate icon. These are illustrated throughout the service information to remind service people of the Health and Safety issues.

1.1.1 Electrical Safety



Ensure the mains power has been disconnected before servicing the wall oven. If the supply is required to be on to service the oven, make sure it is turned off when removing any electrical component or connection to avoid electrical shock.

1.1.2 Electrostatic Discharge



An anti-static strap is to be used as electrical static discharge (ESD) protection when servicing electronic components.

1.1.3 Good Working Practices



Ensure the work area is in a tidy and orderly condition at all times so as not to cause a hazard while service work is being completed. Always clean and tidy the oven and work after service is completed.

1.1.4 Insulation Test



Megger test to check insulation.

Warning: Short together the phase and neutral pins on the plug so as not to damage any electronic circuitry.

1.1.5 Sheet Metal Edges



When working around cut sheet metal edges use appropriate gloves or protection to eliminate the chance of receiving a laceration.

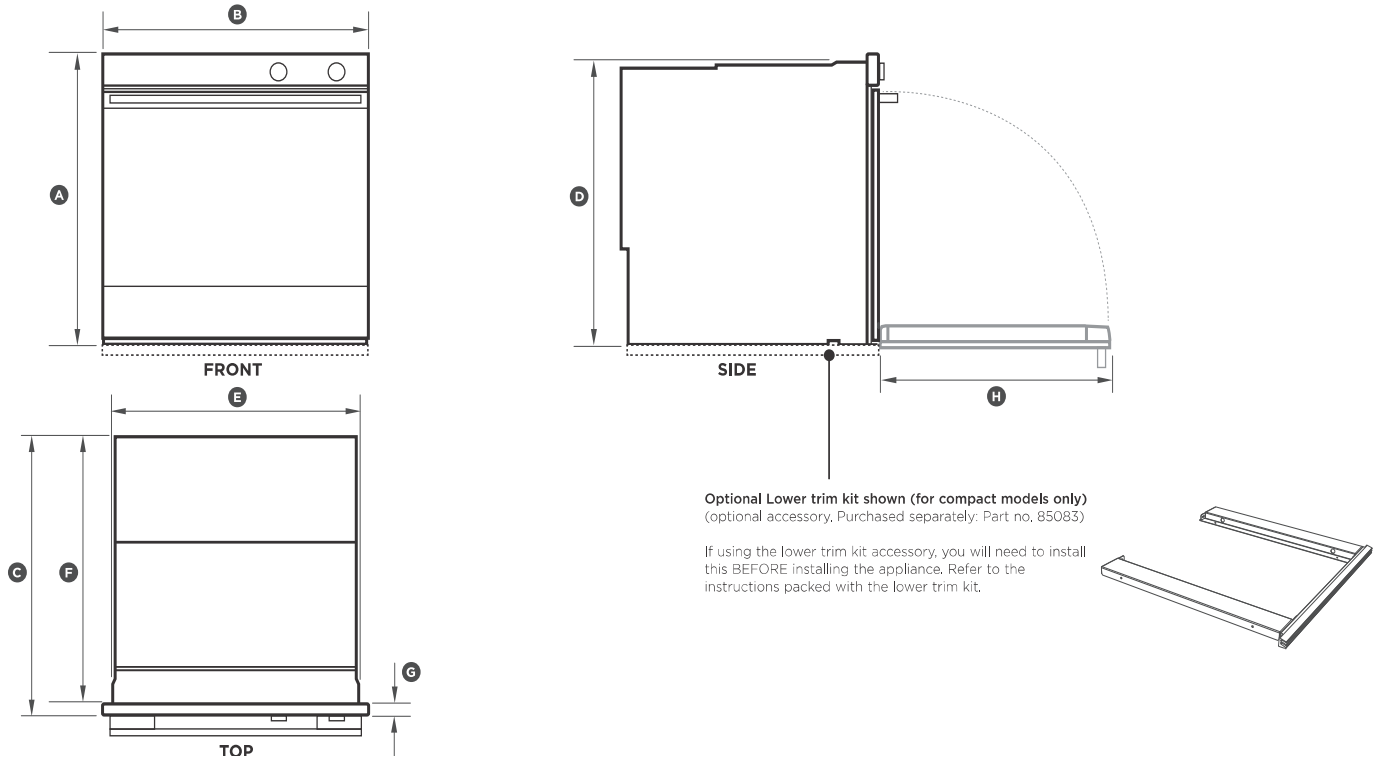
1.2 Specialised Tools

For servicing this product, specialised tools are required.

1.2.1 Static Strap

To be used as ESD (electrostatic discharge) protection when replacing or handling electronic components.

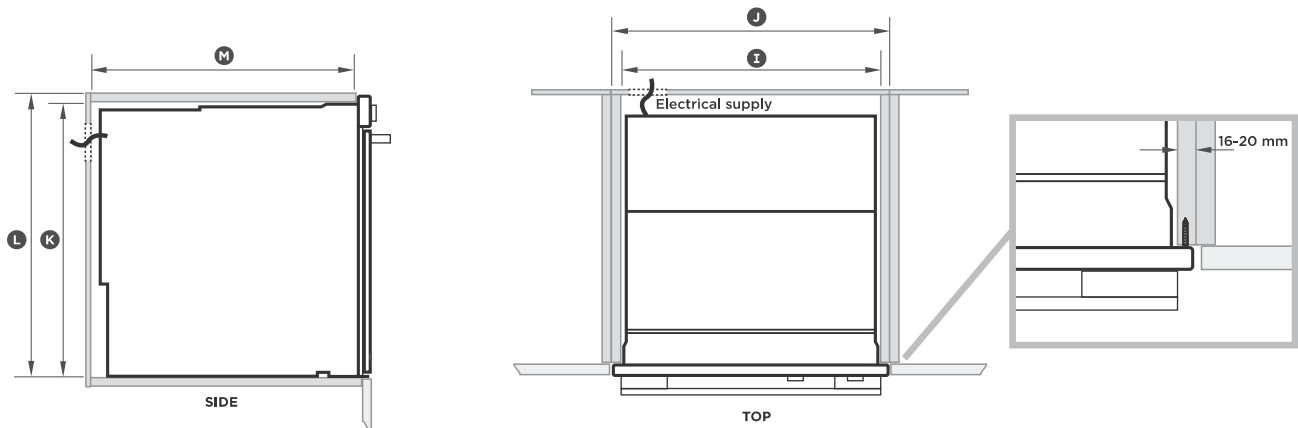
2.1 Product Dimensions



PRODUCT DIMENSIONS

	OB60NC MODELS	OB60SC MODELS
	MM	MM
(A) Overall height of product	458 (with lower trim kit fitted) 479	598
(B) Overall width of product	597	597
(C) Overall depth of product (excluding handle and dials)	565	565
(D) Height of chassis	435	575
(E) Width of chassis	552	552
(F) Depth of chassis	545	545
(G) Depth of oven frame and control panel (=distance between front of chassis and front of oven door, excl. knobs)	20	20
(H) Depth of oven door when fully open (measured from front of control panel)	340	450

2.2 Cabinetry Dimensions



CABINETRY DIMENSIONS

	OB60NC MODELS	OB60SC MODELS
	MM	MM
Ⓘ Minimum inside width of cavity	560	560
Ⓙ Overall width of cabinetry	600	600
Ⓚ Minimum inside height of cavity	440 (with lower trim kit fitted) 461	580
Ⓛ Overall height of cabinetry	460 (with lower trim kit fitted) 481	600
Ⓜ Minimum inside depth of cavity	550	550

Note: If installing a cooktop above the oven, ensure adequate clearance is provided for the cooktop as per the cooktop manufacturer's instructions.

Important!

Some environmental factors and cooking habits can cause condensation in and around the oven during use. To protect surrounding cabinetry from possible damage caused by frequent or excessive condensation, we recommend moisture-proofing the oven cavity.

2.3 Electrical Ratings

IMPORTANT!

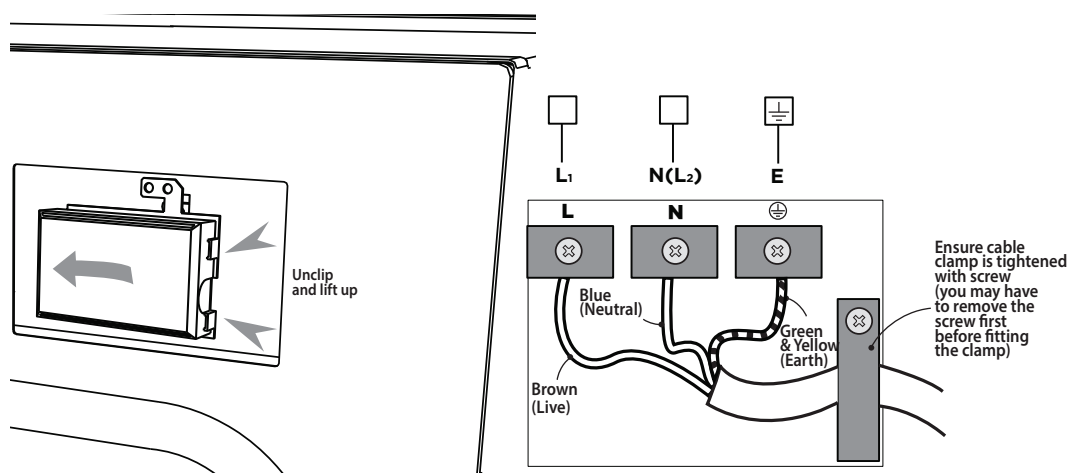
- This oven must be connected to the mains power supply only by a suitably qualified person.
- This oven must be earthed.

MODEL CODE	MAX POWER (W)	HZ	VOLTAGE (V)	AMPS (A)
OB60NC...	3000	50 Hz	220 - 240 V~	13
OB60SC...	3000	50 Hz	220 - 240 V~	13

Before connecting the oven to the mains power supply, check that:

- the domestic wiring system is suitable for the power drawn by the oven (as specified on the rating plate)
- the voltage corresponds to the value given on the rating plate.

2.4 Electrical connection



2.5 Elements

All elements used in the OBC models are Incaloy hermetically sealed elements.

OB60	Wattage (W)	Max amps (A)	Resistance (Ω)+ - 5%
Fan Element	2500	10.8	21
Upper Inner Grill Element	2000	8.7	52
Upper Outer Grill Element	1200	5.2	44
Bake	1200	5.2	44
OB60 compact	Wattage (W)	Max amps (A)	Resistance (Ω)+ - 5%
Fan Element	1400	6.1	37
Upper Inner Grill Element	2000	8.7	52
Upper Outer Grill Element	1200	5.2	44
Bake	1200	5.2	44

3.1 Model Number Description, Product Codes & Service Versions

E.g. OB60SC7VEX1

Type	OB = Oven Built In
Width	60 = 60cm
Cavity	B = Double Cavity H = Double Under Bench N = Compact Oven S = Single Cavity L = Large Cavity
Functions	7 = 7 Oven Functions
Family	C = Classic D = Designer L = Commercial V = Exclusive
Features	E = Electronic clock M = Electronic Minute Timer T = Soft Touch Control P = Pyrolytic Self Clean C = End of Cook Timer
Series	1 = 1st Iteration

The product code is a dedicated number used to identify model variations e.g. different colour, market etc.

e.g. :80831 -A is a single stainless steel, AA product. The -A relates to the service version of the product.

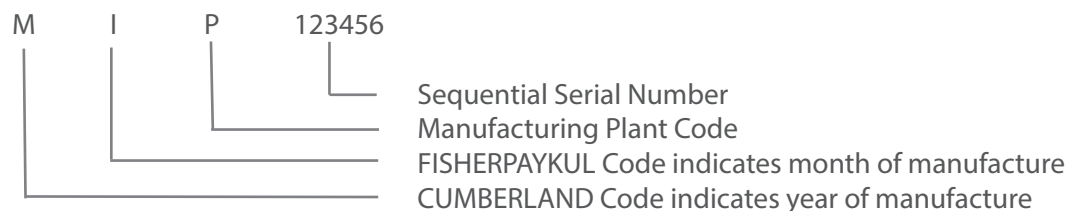
The Service version is used to signify that some new components or features are not retro-fitable to earlier product versions.

e.g. 80831-B uses a number of different parts (which are contained in a separate parts manual) to 80831-A, so is important to only order parts for the correct product code with correct service version.

3.2 Serial Number

The serial number consists of three letters and six digits and contains the following information:

Example:



Cumberland Code

Letter	C	U	M	B	E	R	L	A	N	D
Year	1	2	3	4	5	6	7	8	9	0

Fisherpaykul Code

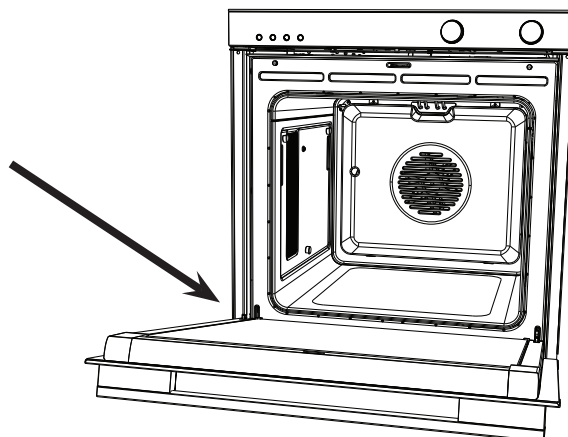
Letter	F	I	S	H	E	R	P	A	Y	K	U	L
Month	1	2	3	4	5	6	7	8	9	10	11	12

Manufacturing Plant Codes

F	Refrigeration – New Zealand
N	Laundry – New Zealand
T	Thailand
X	Mexico
P	Mexico post 2011

In the example above, the appliance was manufactured in the 2nd month in 2013 at the Mexican manufacturing plant.

The serial plate is located on the lower left hand front of the chassis, and can be viewed when the door is in the open position.



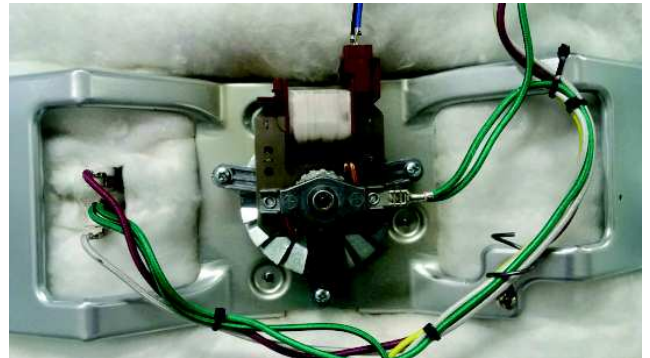
3.3 Oven Cavity Fan

The oven cavity fan turns on as soon as the mode is selected.

The fan should always operate when the fan element is on.

Voltage: 230 V

Wattage: 30 watts



3.4 Cooling Fan & Venting System

The cooling fan specifications

Voltage: 230 240 V

Frequency: 50 HZ

Wattage: 14 watt



The venting system allows a small amount of air to flow through the cavity from an inlet at the left rear, to an outlet in the top. The outlet air is ducted to the cooling fan and then expelled.

The outlet vent sits in the top right of the cavity liner, this carries the vapours up through the duct to the cooling fan and is then expelled.

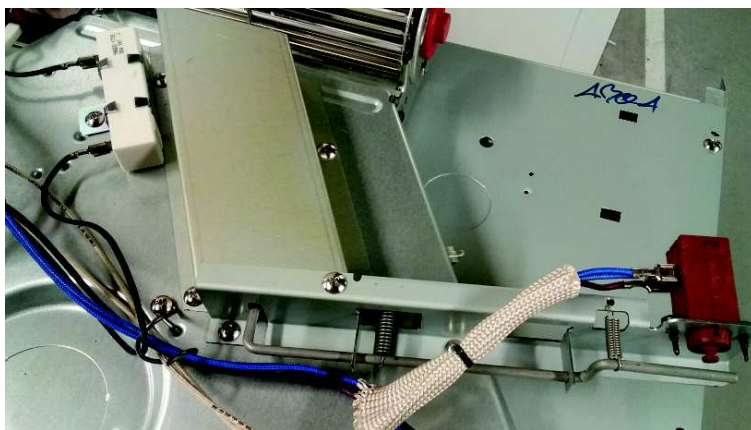


High Spec Multi and Pyro

These models have valves on the inlet and outlet vents. The valves are operated by wax actuators and are driven by the oven controller. This allows the venting rate to be customised to suit the oven function being used by the customer, and helps eliminate condensation.

The Pyro version includes a catalytic converter in the outlet to reduce smoke and CO during a self clean function.

Inlet Valve



Outlet Valve



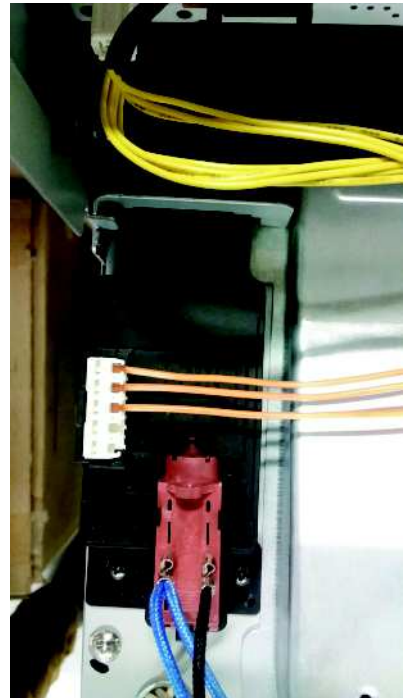
3.5 Door Lock

The micro switches are activated by a cam, which tells the PCB when the door is 'unlocked' or 'locked'.

The board needs to see a 'locked' signal for the pyro cycle to work and an 'unlocked' signal for the cooking functions to work. The stoppers are used to stall the motor to force it to change direction.

The start-up direction of the motor is random so if it starts in the wrong direction the stoppers are used to reverse it to go the right way.

Voltage:	220-240 V / 50 Hz
Resistance:	100 M Ohms
Wattage:	4 watts
Max operating temp :	120 deg C



3.7 Temperature Sensor

OB60 Models

Voltage: 5 VDC
 Max current: 2 mA
 Max ambient temp: 540°C
 Resistance: 1080 ohms +/- 5 ohms at 21°C

Refer to the chart on the following page for sensor values.

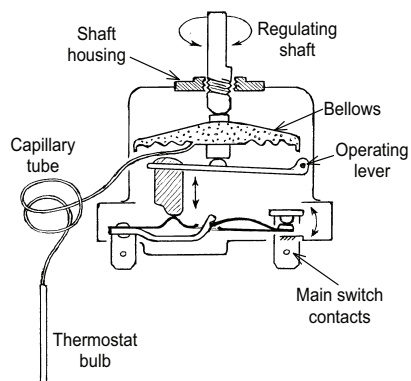


Degrees °C	Degrees °F	Resistance Ω
0	32	1000
1	33.8	1004
2	35.6	1008
3	37.4	1011
4	39.2	1015
5	41	1019
6	42.8	1023
7	44.6	1027
8	46.4	1030
9	48.2	1034
10	50	1038
11	51.8	1042
12	53.6	1046
13	55.4	1049
14	57.2	1053
15	59	1057
16	60.8	1061
17	62.6	1065
18	64.4	1068
19	66.2	1072
20	68	1076
21	69.8	1080
22	71.6	1084
23	73.4	1087
24	75.2	1091
25	77	1095
26	78.8	1099
27	80.6	1102
28	82.4	1106
29	84.2	1110
30	86	1114

3.8 OB60 Mechanical Thermostat

The OB60C model only uses a mechanical type thermostat.

The thermostat is used to switch the oven element on and off to maintain temperature.

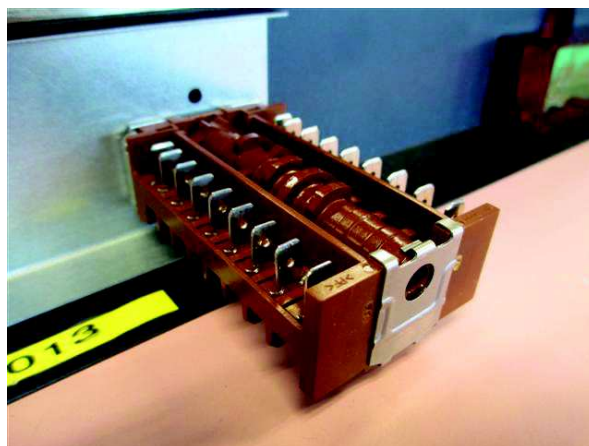


3.9 OB60 Function Switch

The function switch is only used in OB60 models, and is used to select the oven functions.

The function switch has 7 functions. when switched on will operate the light in the oven as well.

Refer to product wiring diagram on page 60



3.10 OB60 Clock Module

Some OB60 models use a clock module which is a user interface display.

This module shows the time, and allows the user to select automatic cooking and a cook timer.



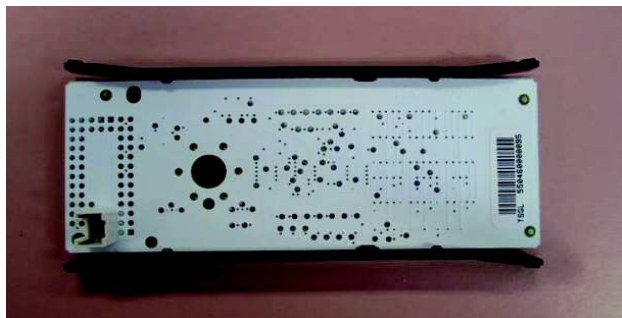
3.11 Temperature Module

The OB60C models use a display module as a customer interface to show cooking temperature.

This temperature is illuminated and shown on the control panel.

The module uses a harness to communicate with the clock module, and has an encoder for the customer to select temperature.

The module also has LED lights which show red while heating, and turn white when the oven is at the correct temperature.



3.12 Function Module

The OB60C models use a function module as a customer interface, and shows the cooking function selected by illuminating the icon on the control panel.

The module uses a harness to communicate with the clock module, and has an encoder for the customer to select the oven function.

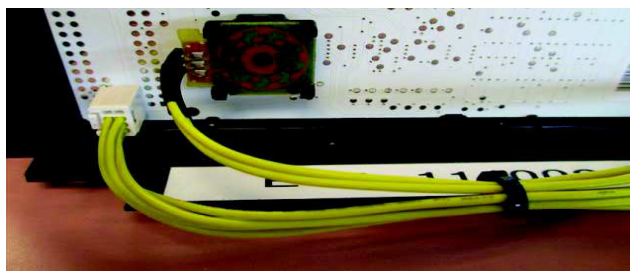
The module also has an illuminated white halo around the control knob.



3.13 User Interface Harness

The temperature and function modules are linked to the clock module via the user interface harness.

This harness uses knob encoders for the customer interface for selecting the oven function or selecting the oven temperature.

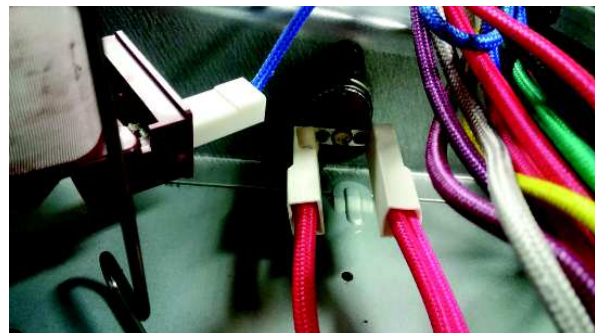


3.14 Limiters

All models have a fan run on limiter which is set to 55 deg C.

This limiter will keep the cooling fan running until the cavity temperature drops below 55 deg C.

The over temp limiter is one shot type Honest Well TY24, the trip temperature is 110 deg C. refer to parts manual.



3.15 Power Board

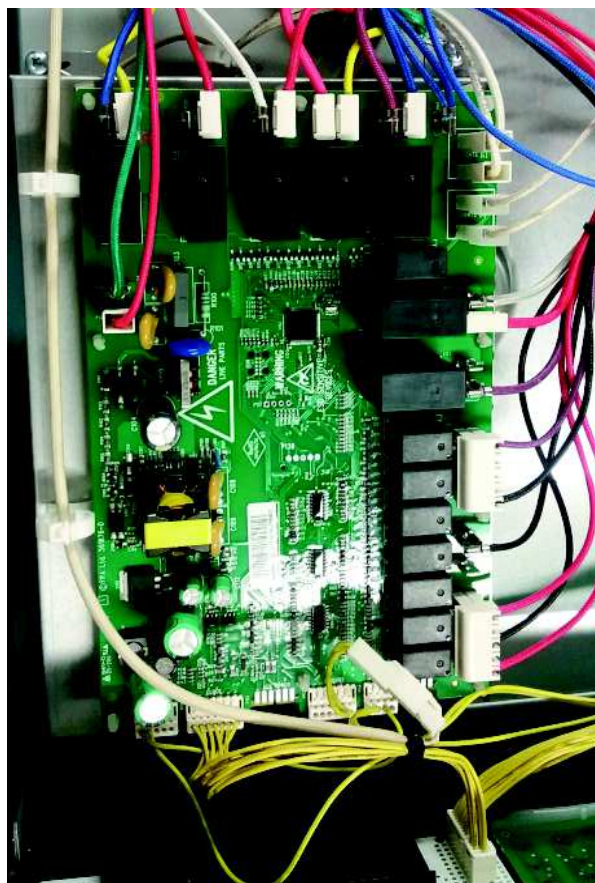
The power board is located in the top panel area, and is held in place by clips.

The power board is connected to the clock via a harness and controls the following components:

- Elements
- Door switch
- Temperature sensor.
- Door lock (pyro model only)
- Lights
- Rotisserie motor
- Cavity fan
- Cooling fan

The power board is a GOEP type board so is used in both the pyrolytic model and multifunction model. This means if being changed for any reason, the model ID must be selected for the product it is being fitted to.

Refer to section 6 for more detail.



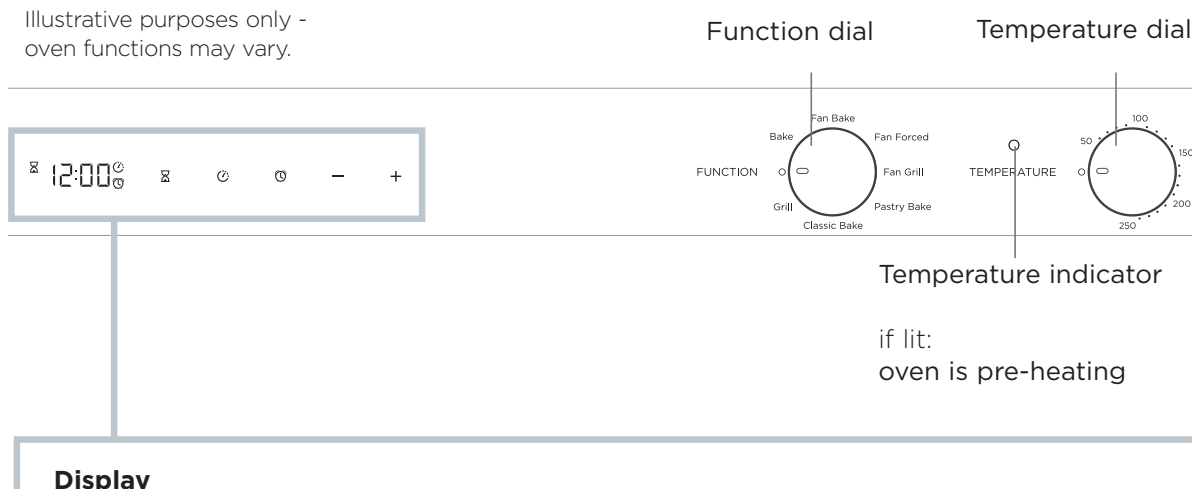
4 OPERATION

Oven Mode Elements and Fan Profiles

[illegible]

The Control Panel

Illustrative purposes only -
oven functions may vary.



Timer indicator

if lit:
Timer is counting
down



12:00

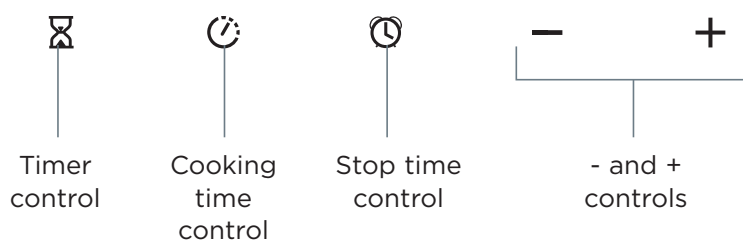
Cooking time indicator

if lit:
Automatic cooking is set
(see 'Automatic cooking')

Automatic cooking stop indicator

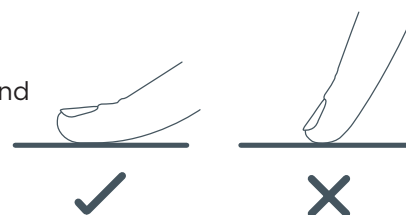
if lit:
Automatic cooking stop
time is set
(see 'Automatic cooking')

Touch controls



Using the touch controls

- Use the ball of your finger, not its tip. The controls respond to touch, so you don't need to apply any pressure.



Setting the Clock

IMPORTANT!

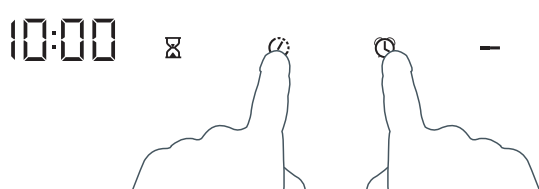
Before using your oven for the first time and after a power cut, the clock must be set. The oven will not function if the clock is not set.



- ① When the power to the oven is turned on or restored after a power failure, 00:00 will flash in the display.



- ② Touch the - or + controls to set the time.



- ③ Touch the cooking time ⌚ and stop time ⏸ controls together for 2 seconds to accept the time.
- the display will stop flashing
 - the oven will beep to confirm the time is set.



To Change the Time

- ④ Touch the cooking time ⌚ and stop time ⏸ controls together for 2 seconds.
- The centre dot will flash.
- ⑤ Touch the - and + controls to set the new time.
- ⑥ Touch the cooking time ⌚ and stop time ⏸ controls together again for 2 seconds to accept the new time.
- the centre dot will stop flashing
 - the oven will beep to confirm the new time is set.

4.2 OB60C - Setting the Clock

When your oven is first turned on, or after a power cut, the display will flash . You will need to set the clock in order to use the oven.



- ① The display will flash *24 Hr*



- ② Touch the right scroll ► control to scroll between *24 Hr* and *12 Hr*
 ③ Touch the select ✓ control to confirm.



- ④ Touch the left and right scroll ◀ ▶ controls to set the time.

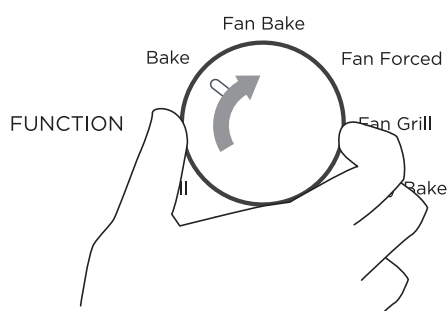


- ⑤ Touch the select ✓ control to confirm.
 • The time set will now be steadily lit.

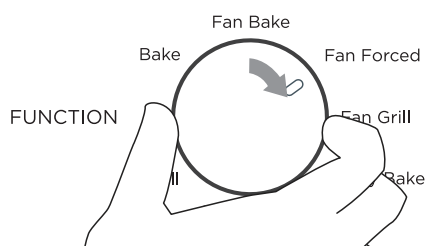
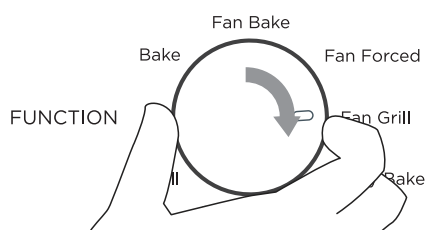
Condition the oven

It is important to condition your oven before using it for cooking and baking. Conditioning will burn off any manufacturing residues and ensure that you get the best results right from the start.

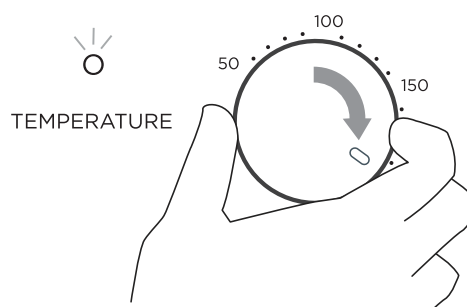
- ① Make sure you have removed all packaging (including the yellow packing retainers). Make sure the side racks and catalytic panels (some models only) are fitted.
- ② Make sure you have set the clock.
- ③ Make sure all the shelves are fitted.



- ④ Select the Bake function. The oven will come on.



- ⑥ After 30 minutes is up, select the Fan Grill function, and heat for 20 minutes.
- ⑦ After 20 minutes is up, select the Fan Forced Function. After 20 minutes, switch the oven off.



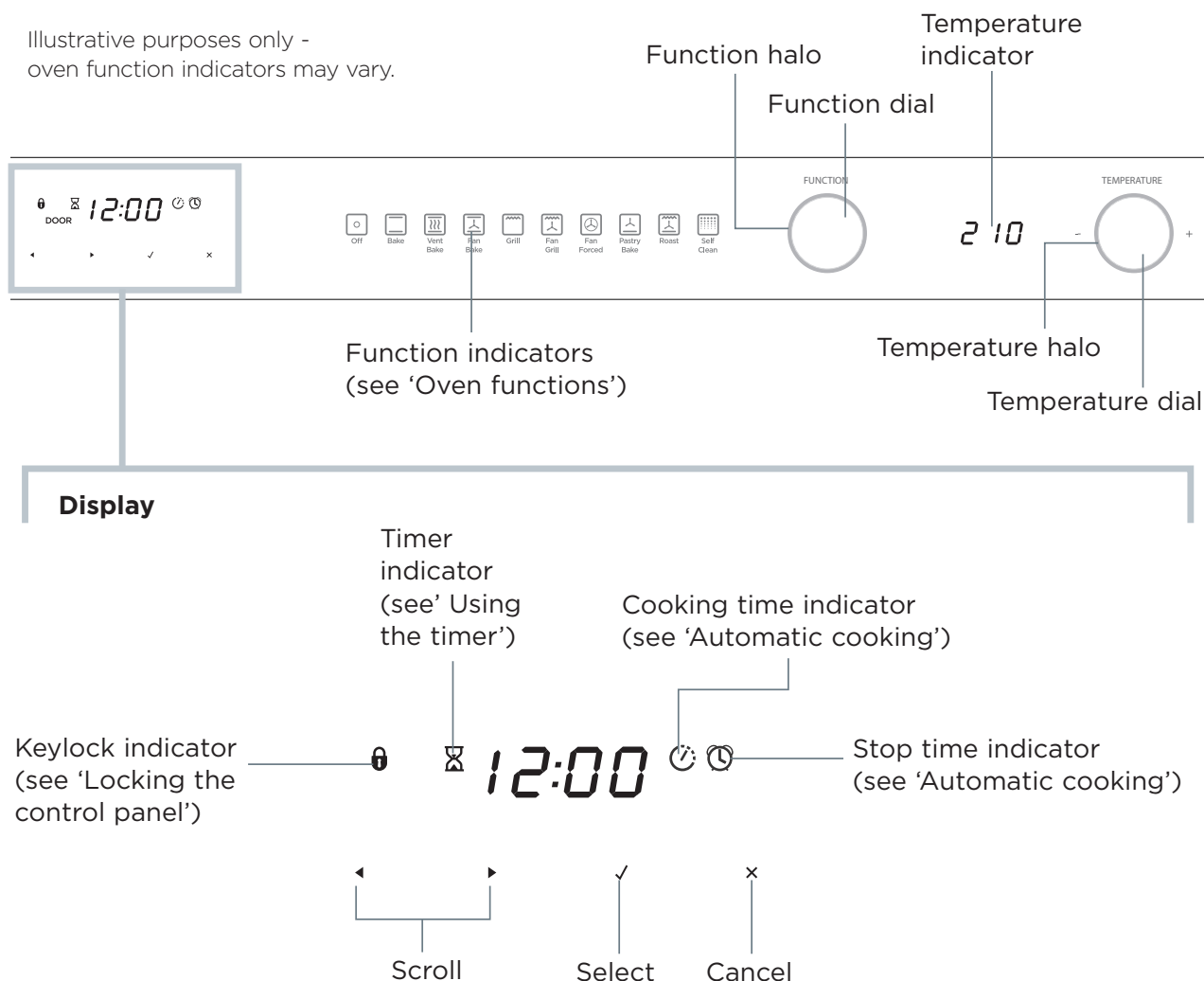
- ⑤ Set the temperature to 200 °C for 30 minutes.
 - While the oven is heating up, the temperature indicator light will glow.
 - When the oven has reached set temperature, the temperature indicator light will go out.

Note: if the clock has not been set, the cooling fans will come on, but the oven light will not come on and the oven will not heat up.

- There will be a distinctive smell and a small amount of smoke during the conditioning process as manufacturing residue is burnt off. This is normal, but make sure the kitchen is well ventilated while the oven is conditioning.
- Once cooled, wipe out the oven with a damp cloth and mild detergent, and dry thoroughly.

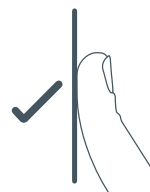
4.1 OB60C - Control Panel

Illustrative purposes only -
oven function indicators may vary.



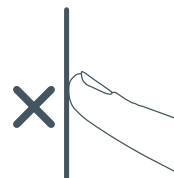
Using the touch controls

- Use the ball of your finger, not its tip. The controls respond to touch, so you don't need to apply any pressure.



Locking the control panel

This function is to prevent accidental use of the oven (eg by children). When locked the controls are unresponsive and the oven will not turn on.



To lock:

Touch and hold the select ✓ control until the indicator light comes on.

To unlock:

Touch and hold the cancel x control.

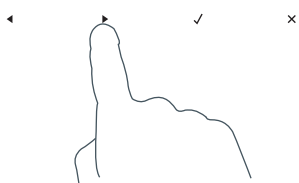
4.3 OB60C - Using the Timer

- You can use the timer at any time, even if you are not using the oven.
- The timer counts down in minutes (hr:min) until the last hour of cooking when it will countdown in seconds (min:sec).
- You can set the timer for up to 23 hours 59 minutes.

IMPORTANT!

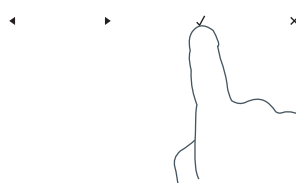
The timer does NOT turn the oven off.

⌚ 00:00



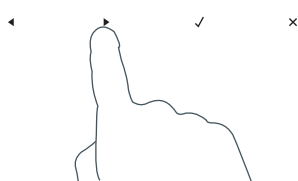
- ① Select the timer ⌚ by touching the right scroll ▶ control once.
 - The timer ⌚ indicator will appear and the colon will flash.

⌚ 00:00



- ② Touch the select ✓ control to confirm.
 - The display will flash to indicate the timer is ready to be set.

⌚ 00:30



- ③ Set the time by touching the scroll ◀ ▶ controls.
 - Holding the controls down will speed up the scrolling.

⌚ 29:59



- ④ Touch the select ✓ control to confirm.
 - The timer will then begin to count down.
 - If you want to check the time of day, touch the cancel × control once. Touch the right scroll ▶ control to scroll back to the timer.

To modify the timer setting

- ① Make sure the display shows the remaining time counting down.
- ② Touch the select ✓ control.
- ③ Touch the scroll ◀ ▶ controls to set a new time.
- ④ Touch the select ✓ control to confirm.

To cancel the timer setting

- ① Make sure the display shows the remaining time counting down.
- ② Touch the cancel × control until the display shows the time of day and the timer ⌚ indicator disappears.

When the set time is up

- The display will show 0:00 and a tone will sound every few seconds.
- Touch any control to stop the tone sounding. The display will revert to showing the time of day.

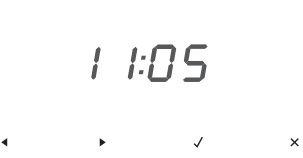
4.4 OB60C - Automatic cook

- You can set the oven to automatically turn on later, cook for a preset time (cooking time), then automatically turn off at a preset stop time. See the example and instructions below (steps 1 to 7).
- If you start cooking manually and only want the oven to turn off automatically after a set cooking time: simply set the cooking time following steps 1 to 3 below and selecting a function and temperature. The oven will automatically turn off when the cooking time is over.
- Alternatively you can simply set the time of day you wish to the oven to turn off. Follow steps 4 and 5. The oven will automatically turn off when the stop time is reached.
- You may have the timer on at the same time as automatic cooking.
- Note: the grill element will come on while the oven is heating up. Uncovered foods may be browned on top.


IMPORTANT!

Safe food handling: leave food in the oven for as short a time as possible before and after cooking or defrosting. This is to avoid contamination by organisms which may cause food poisoning. Take particular care during warmer weather.

Example: It is 11:05 a.m. You want your food to cook for 1 hour, and you would like it to be ready by lunchtime (12:30 p.m.)




1 Check the clock shows the correct time of day.



2 Touch the right scroll ► control twice. The cooking time ⌚ indicator will come on.


3 Touch the select ✓ control to confirm. The display will flash.



4 Touch the right scroll ► control to set the cooking time. Make sure you allow for preheat time in your calculation.

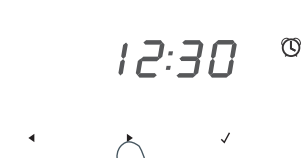
5 Touch the select ✓ control to confirm. The display will be steadily lit and the function dial halo will flash.

Set the stop time



6 Touch the right scroll ► control to scroll to the stop time ⌚ indicator.

7 Touch the select ✓ control to confirm. The display will flash.

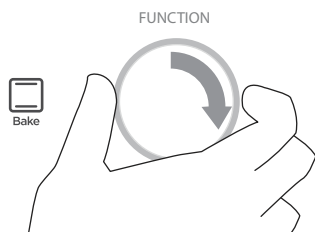


8 Touch the right scroll ► control to set the time you would like your food to be ready by (ie the stop time).

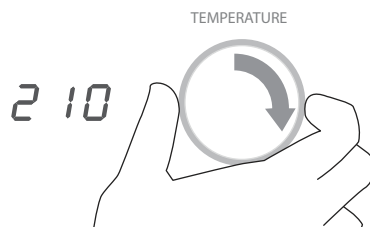
9 Touch the select ✓ control to confirm. The display will be steadily lit.

4.4 OB60C - Automatic Cooking

Select function and temperature



- ⑩ Select a function.
The function halo will stop flashing.



- ⑪ Adjust the temperature.

When automatic cooking is set

- The oven and the lights will stay off, the halos will be unlit, but your oven is now set for automatic cooking. It will automatically turn on at the required time.
- In a few seconds, the display will show the time of day with the cooking time ⌚ and stop time ⌚ indicators lit.
- Note: you can modify the function and temperature while the oven is waiting to start cooking.

When the stop time is reached

The oven will automatically turn off and a long tone will sound.

To check the set cooking time and stop time

Use the scroll ◀ ▶ controls.

To change the cooking or stop time

Use the right scroll ▶ control to scroll to the cooking time ⌚ or the stop time ⌚ , touch ✓ to select the one you want change and use the scroll ◀ ▶ controls to change the time. Touch ✓ to confirm.

To see the current time of day

Touch the cancel × control.

To cancel automatic cooking

Turn the function dial to Off [Off].

4.5 OB60C User Preferences

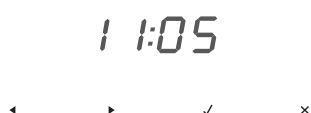
The following changes can be done in the user preference option:

You can set your oven to:

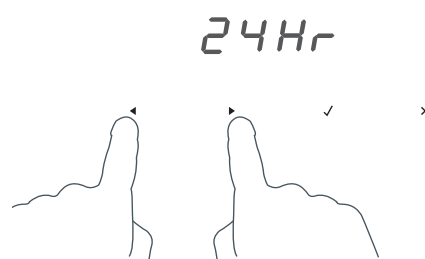
- display the temperature in degrees Celsius or Fahrenheit
- give audio feedback (tones and beeps) or operate quietly
- display time as 12-hr or 24-hr
- operate with the display off
- have its lights on or off during cooking
- operate in Sabbath setting (see 'Sabbath setting' following).

Note: You cannot change the user preference settings when your oven is operating or set for automatic cooking.

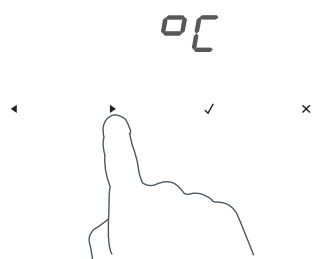
How to change preference settings



- ① Check the oven function dial is set to OFF and that the display shows the time of day.
 - If you're unsure, touch the cancel X control twice.



- ② Touch and hold the scroll ◀ ▶ controls together for 3 seconds to enter the user preference menu.

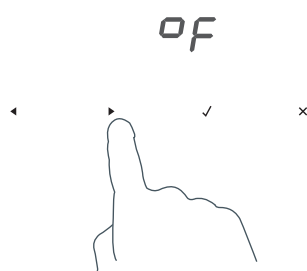


- ③ Touch the right scroll ▶ control to scroll to the setting you want to change. Refer to the following table.



- ④ Touch the select ✓ control to select the particular setting.
 - The display will flash.

4.6 OB60C - User preference settings



- ⑤ Touch the right scroll ► control to scroll through the options for that particular setting. Refer to the table below.



- ⑥ Touch the select ✓ control to save the new option .
 ⑦ For all options except 'Display off' : touch the cancel ✕ control to quit the user preference menu.

SETTING	DEFAULT OPTION	ALTERNATIVE OPTION(S)	
TIME SCALE & 'DISPLAY OFF' OPTION Select between 24-hr or 12-hr clock display (and set the clock) or set 'Display off' option if you only need the basic functionalities of your oven.	24 HR 	12 HR 	DISPLAY OFF ** <i>Available on some models only</i>
TEMPERATURE SCALE Select between degrees Celsius or Fahrenheit.	CELSIUS 	FAHRENHEIT 	
AUDIO FEEDBACK Turn the beeps and tones on or off.*	BEEPS/TONES ON 	BEEPS/TONES OFF 	
OVEN LIGHTS Have the light off during cooking if you want to save power or want the food you cook to be a surprise for others.	LIGHTS ON DURING COOKING 	LIGHTS OFF DURING COOKING 	
SABBATH SETTING	SABBATH OFF 	See 'Sabbath setting' for instructions.	

* The timer tone and alert beeps will sound even if you save the BEEPS/TONES OFF option.


** With this option saved, you can still use the oven, and timer, however the display will remain unlit. Any automatic functions will be cancelled when this option is selected.

To quit this option and enable the display, touch and hold the cancel ✕ control.

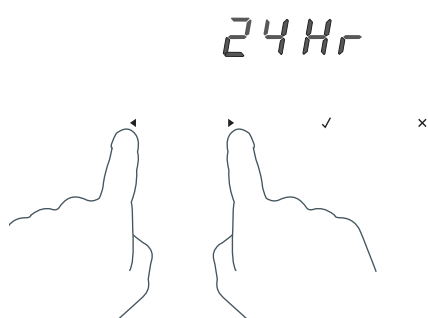
4.7 OB60C Sabbath Mode

This setting is designed for religious faiths that observe a 'no work' requirement on the Sabbath.

While your oven is in Sabbath setting

- The display, dial halos and indicators will be unlit, the controls will be unresponsive.
- No tones or beeps will sound.
- No alert codes or temperature changes will be displayed.
- The oven lights will stay on. If you want the oven lights to be off during Sabbath setting, first select the 'Lights off' option as described in 'User preference settings', and only then set Sabbath setting.
- Bake  is the only function available in Sabbath setting.

How to set Sabbath setting



- ① Touch and hold the scroll ◀ ▶ controls together for 3 seconds to enter the user preference menu.



- ② Touch the right scroll ▶ control to scroll to the Sabbath setting.
- ③ Touch the select ✓ control to select the Sabbath setting. The default option is 'Sabbath off'.



- ④ Touch the select ✓ control to activate the option.
- The display will flash 1:00.

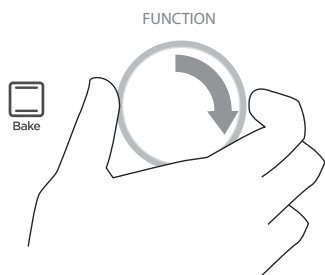
4.7 OB60C Sabbath mode




- ⑤ Touch the scroll ◀ ▶ controls to set the time (hrs). You may set the time up to 99 hours.



- ⑥ Touch the select ✓ control to activate the option.



- ⑦ Select the Bake  function.
 ⑧ Set the desired temperature.
 ⑨ Wait until the oven starts up.

The display, indicators and dial halos will be unlit and unresponsive, but the oven will bake until you quit Sabbath setting.

To quit Sabbath setting

Touch and hold the cancel × control until the time of day appears in the display and the oven turns off.

4.8 Trouble shooting

Troubleshooting chart

If there is a problem, check the chart below to see if you can fix it. If the problem cannot be fixed or persists, call your Authorised Repairer or Customer Care.

PROBLEM	POSSIBLE CAUSES	WHAT TO DO
General		
The oven does not work.	No power.	Check that the mains power supply (wall switch) is turned on, the fuse has not tripped and there is no power outage in your area.
	The clock has not been set	The oven will not work unless the clock is set. See 'Setting the clock'.
The oven does not work but the display is lit.	The oven is set for automatic cooking.	See 'Automatic cooking' for instructions.
The lights do not come on when I open the oven door.	The oven light bulb(s) have blown.	Replace the light bulb(s). See 'Care and cleaning' for instructions.
	The door is not correctly fitted.	See 'Care and cleaning' for instructions on fitting the door correctly.
	The oven is in Sabbath setting and the 'Light off' option has been saved.	To quit Sabbath setting, touch and hold the cancel x control. See 'User preference settings' for instructions on changing the 'Light off' option.
The temperature indicator is blank and the dials and controls are unresponsive.	The control panel is locked.	Touch and hold the select ✓ or cancel x control to unlock the control panel.
The oven is not heating.	The door is not properly closed or it is opened too frequently during cooking.	The heating elements are disabled while the door is open. Make sure the door is properly closed and avoid opening it frequently during cooking.
A glass pane in the oven door has cracked, chipped, or shattered.	Incorrect cleaning or the edge of the glass hitting against something.	You must NOT use the oven. Call your Authorised Repairer or Customer Care.


4.8 Trouble shooting

PROBLEM	POSSIBLE CAUSES	WHAT TO DO
General		
I can feel hot air blowing out of the vents after I have turned the oven off.	This is normal.	For safety reasons the cooling fans will continue to run even when you have turned the function dial to 'Off'. The fans will switch off automatically when the oven has cooled.
The oven fan comes on when I select a function that does not use a fan (eg bake or classic bake)	This is normal. The fan comes on while the oven is preheating. It may turn off when the oven has reached the set temperature.	Wait until a long tone sounds and the temperature dial halo turns white: the oven will then be ready to use.
The oven has reached the set temperature but the temperature dial halo is still red (indicating that the oven is not ready to use).	This is normal: when heating up from cold, your oven is designed to initially heat to a temperature somewhat higher than what you have set. This is to provide optimal baking conditions right from the start.	Wait until a long tone sounds and the temperature dial halo turns white: the oven will then be ready to use.
The oven is heating but the display is dark.	The oven is set to 'Display off' option.	To quit the 'Display off' option, touch and hold the cancel × control until the display shows the time of day.
	The oven is in Sabbath setting.	To quit Sabbath setting, touch and hold the cancel × control until the display shows the time of day.
The oven cancels automatic cooking when I try to adjust the clock setting.	The oven was set for automatic cooking when you were trying to adjust the clock setting.	You can only adjust the clock setting while the oven is not set for automatic cooking.
The oven sounds a tone when I try to turn the temperature dial OFF or below a certain temperature.	This is normal: for food safety reasons, the oven functions have factory-set minimum temperature settings.	The temperature dial itself cannot be 'turned off'. Selecting Off  with the function dial will turn the oven off.
The temperature dial halo never turns white when I use Grill  .	This is normal: the halo stays red to indicate that the grill element provides instant radiant heat.	



4.8 Trouble shooting

PROBLEM	POSSIBLE CAUSES	WHAT TO DO
General		
The displays work, and the function and temperature dials halos come on but the oven does not heat up.	The oven is in 'Demo' mode.	Call Customer Care.
The display shows DOOR	The door is open during cooking (some functions only).	Ensure the door is shut fully.

4.8 Trouble shooting PYRO

PROBLEM	POSSIBLE CAUSES	WHAT TO DO
Self Clean function (some models only)		
During a Self Clean cycle, the oven is louder than usual.	This is normal: the oven's cooling fans operate at their highest speed.	
The display shows DOOR.	The door has not been properly closed.	Make sure you close the door properly.
The display shows 0:00 but the oven door will not open.	The oven door is locked because the oven is still too hot to be used for cooking.	Wait until the Self Clean cycle has finished. If you cancelled a Self Clean cycle which was already underway, the oven still needs to cool down before it can be used. The oven door will automatically unlock.
At a point during a Self Clean cycle, the function dial halo goes out and the temperature indicator starts displaying cascading bars  .	This is normal: the oven is in the last phase of the Self Clean cycle, cooling down.	Wait until the Self Clean cycle has finished. A long tone will sound and the oven door will automatically unlock when the oven is ready to use.

4.8 Trouble shooting PYRO

PROBLEM	POSSIBLE CAUSES	WHAT TO DO
Self Clean function (some models only)		
I have cancelled a Self Clean cycle but cannot use the oven: <ul style="list-style-type: none"> the oven door will not open the display is still counting down minutes or showing 0:00 the Self Clean  function indicator is still lit the temperature indicator shows cascading bars  the dials and controls are unresponsive. 	<p>This is normal: if the function dial halo is unlit, you have successfully cancelled the Self Clean cycle. However, the oven is still too hot to be used for cooking and needs to cool down.</p>	<p>Wait until the cool-down phase has finished. A long tone will sound and the oven door will automatically unlock when the oven is ready to use. Note: depending on when the Self Clean cycle was cancelled, the cool-down phase may take up to 45 minutes.</p>
The oven is beeping and the display shows <i>R2</i> or <i>R3</i>.	<p>See section 'Alert codes' for instructions.</p>	
There is a power cut during a Self Clean cycle.	<p>Power cut.</p>	<p>The door will remain locked. Once the power is turned back on, the door will remain locked until the oven has cooled to a safe temperature.</p>

4.9 Alert Codes

ALERT CODE	POSSIBLE CAUSES	WHAT TO DO
A1	The oven has overheated.	<ol style="list-style-type: none"> ① Allow the oven to cool down. ② Once the oven has cooled down and the door has unlocked, the alert code will disappear. You can now use the oven again.
A2	Door lock error: the door cannot be locked after you have started a Self Clean cycle.	<ol style="list-style-type: none"> ① Turn the power to the oven off at the wall and on again. ② Wait approximately 10 seconds. This is to allow the door lock to return to its initial position. ③ Set the clock. See 'Setting the clock and first use' for instructions. ④ Try starting a Self Clean cycle again, making sure that you close the door firmly. See 'Using the Self Clean function'.
A3	Door lock error: the door cannot be unlocked after a Self Clean cycle has finished.	<ol style="list-style-type: none"> ① Turn the power to the oven off at the wall and on again. ② Try touching on the oven door to help the door lock disengage. ③ If this doesn't help and the alert code reappears, call your Authorised Repairer or Customer Care.
F + number	Technical fault.	<ol style="list-style-type: none"> ① Note down the alert code. ② Wait until the cooling fans have stopped and the oven has completely cooled down. ③ Turn the power to the oven off at the wall. ④ Call your Authorised Repairer or Customer Care with the alert code information.

Duration:	Short clean 2 hr Long clean 3hrs
Pyro Temp:	460°C
Heat-up time:	40 minutes approx.
Holding time:	short clean 50 minutes approx long clean 110 minutes approx
Cool-down time:	30 minutes

The oven self-clean mode operates by heating the oven to a temperature of approximately 460°C. This burns off and breaks down soil and grease deposits. The ash residue that remains can simply be removed from the cool oven with a damp cloth or sponge.

Depending on the user function selected, the self-clean cycle can take between two - three hours

When the oven has cooled down, the oven will emit a long tone, the door will unlock and the display will show the time of day.

Note: After the pyro cycle is finished, the oven still needs to cool down, the Self Clean function indicator will stay lit, the display will show 0:00, the temperature indicator will show cascading bars and the door will remain locked.

USING THE SELF CLEAN FUNCTION (SOME MODELS ONLY)

- During the pyrolytic Self Clean cycle the extremely high temperature burns off and breaks down grime and grease deposits. All that is left is a small amount of grey ash that you can easily remove.
- There is a choice of two Self Clean cycles:
 - **Self Clean** (minimum 4 hours) (for normal soiling).
 - **Light Self Clean** (minimum 3 hours) (suitable for a light or localised soiling).

IMPORTANT!

- **You must clean the inside glass door panel BEFORE starting a self-clean cycle. Failure to do this may result in permanent staining or marking of the door glass. See 'Care and cleaning' for our recommendations on how to do this.**
- **Do not use oven cleaners, any degreasing cleaners, or oven liners.**
- **Make sure you remove the side racks (including the fixing nuts), oven shelves and trays and all other bakeware and utensils from the oven before starting a Self Clean cycle. If left in the oven, they will become permanently discoloured or damaged; items made from combustible materials (eg wood, fabric, plastic) may even catch fire.**
- **Do not use your oven to clean miscellaneous parts.**
- **Make sure the room is well ventilated.**
- **Before starting a Self Clean cycle, make sure you move any pet birds to another, closed and well-ventilated room. Some pet birds are extremely sensitive to the fumes given off during a Self Clean cycle, and may die if left in the same room as the oven during such a cycle.**
- **During a Self Clean cycle, the oven reaches higher temperatures than it does for cooking. Under such conditions, the surfaces may get hotter than usual and children should be kept away.**
- **The oven door will be locked during the Self Clean cycle.**
- **If there are cracks or flaws on any of the oven door glass panes, if the oven seal is damaged or worn, or if the door does not close properly, do not start a Self Clean cycle. Call your Authorised Repairer or Customer Care.**

To start a Self Clean cycle

- ① Remove oven shelves, side racks and all other accessories, bakeware, and utensils.
- ② Wipe up any spills, and along the inner edge of the oven surface around the seal. Failure to do so may discolour the oven surface.

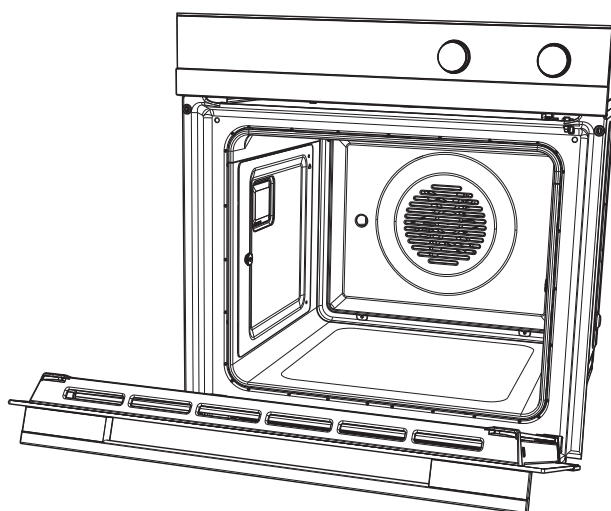
IMPORTANT!

Avoid cleaning the seal itself as this may cause damage.

- ③ Check the inner glass pane of the oven door (D). If it has soiling on it (eg stains from greasy splatter), you will need to clean it manually before starting a Self Clean cycle. For instructions, see 'Care and cleaning'.

IMPORTANT!

- **If soiling is left on the glass, it will become burnt on during the Self Clean cycle, making it very difficult to remove.**
- ④ Close the oven door firmly.



USING THE SELF CLEAN FUNCTION (SOME MODELS ONLY)

- ⑤ Select the Self Clean  function.

- The display will flash 0:00



- ⑥ Touch the right scroll ► control once for the **Self Clean** cycle
- the display will flash 4:00 (4 hours), or
- Touch the right scroll ► control a second time for the **Light Self Clean** cycle
- the display will flash 3:00 (3 hours)




- The temperature indicator will be blank, as temperature cannot be adjusted.

- ⑦ Touch the select ✓ control to start the Self Clean cycle.
- The time will start counting down.
 - For your safety, the oven door will automatically lock and remain locked during the cycle.
 - Note: if the select ✓ control is not touched within 15 seconds, the oven will automatically turn off. Start from step 3 again.
 - The display will show DOOR if the door is not shut properly. See 'Troubleshooting'. If the door is not shut properly within 30 seconds, the oven will automatically turn off.



During the Self Clean cycle

- the temperature and function halos will remain off.
- the Self Clean  function will be lit.
- the display will countdown the time remaining.

USING THE SELF CLEAN FUNCTION (SOME MODELS ONLY)

When a Self Clean cycle has finished

The oven will:

- emit a long tone
- automatically turn off
- automatically unlock the door (when the oven has cooled to a safe temperature).

In a few seconds, the display will show the time of day.

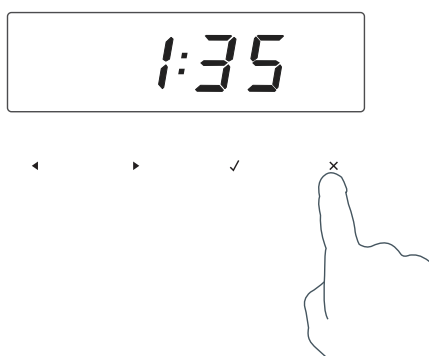
You need to:

- ① wait for the oven to cool down completely
- ② remove the grey ash with a small brush or damp cloth
- ③ wipe out the oven with a clean damp cloth
- ④ dry with a clean lint-free cloth
- ⑤ replace the side racks and shelves.



To cancel a Self Clean cycle

IMPORTANT!

- A Self Clean cycle can be cancelled at any time by touching the cancel × control.
- The door will not unlock until the oven has cooled to a safe temperature.
Do NOT turn off the mains power supply to the oven (wall switch). Turning off the power while the oven is too hot may damage the oven and its surrounding cabinetry.



To cancel a Self Clean cycle, touch the cancel × control.

- If the oven needs to cool down, the Self Clean  function indicator will stay lit, the display will show the remaining cool-down time, the temperature indicator will show cascading bars  and the door will remain locked.
- When it has cooled down, the oven will turn off, the door will unlock, a long tone will sound and the display will show the time of day.
- We do not recommend cancelling a Self Clean cycle and then immediately starting one again.

6.1 Entering the Technician Mode

NOTE: The OB60C oven use a global oven electronic platform controller (GEOP) which is a universal controller used in other OB models. Ensure correct model ID is selected for the model you are working on.

To enter the mode:

1. Ensure all oven modes and temperature displays are set to OFF.
2. Ensure no cooking auto functions are set.
3. Enter the Technician Mode by pressing and holding the "Cancel Button" (X) on the clock for approx 2 seconds, then remove finger.
4. Then press the "OK Button" (✓) once on the clock.
5. Push & hold the < > buttons together for 2 seconds.

The display will then show the word "wait" as it does a self check between the user interface (UI) and power board (PB).



"wait" is shown
like the photo
example

6. To scroll through the five sub menu's use the < > buttons.
7. To enter a sub menu press the "OK" (✓) button.
8. To exit a sub menu press the (X) button.

6.2 Technician Mode Navigation

Once in Technician Mode there are 5 possible menus:

Menu 1 - Elements

This is the functional menu, which allows individual components to be test run.

- To scroll to each component use the <> Buttons
- To turn the component on and off use the "OK Button" (✓)



Function chart on following page.

Symbol	Component	Wattage (W)
UI	Upper Inner Element	2000
Uo	Upper Outer Element	1200
LI	Lower Inner Element	1500
Lo	Lower Outer Element	Not used in OB2
FE	Fan Element	2500
CF	Cavity Fan	30
LF	Low Speed Cooling Fan	20 (non pyro) 60 + resistor (pyro)
HF	High Speed Cooling Fan	60
ro	Rotisserie motor	5
Lt	Lights	100
UV	Upper Vent actuator	6
LV	lower vent actuator	6
LC	Lock Motor 1. Door Switch must be in the closed position 2. Short delay and LCD will display "ON" 3. Will show "of" when turned off	

Menu 2 - Model ID

This menu will show the model ID of the product, to enter press the "OK Button" (✓)

A number will be displayed, and will scroll in the display, ensure the correct region is set as there are different cooking profiles for different models.



Note: If changing a power board or clock module, always check that the correct model ID is set.

OB60C Model ID list

PRODUCT	Model ID number
OB2_AA	1
OB2_PYRO_AA,	2
OB76_PYRO_SINGLE_NZ AUS,	3
OB76_PYRO_DOUBLE_NZ AUS,	4
OB30_PYRO_HIGH_SPEC_SINGLE_USCA	5
OB30_PYRO_HIGH_SPEC_DOUBLE_USCA,	6
OB90_MULTI_SINGLE,	7
OB90_PYRO_SINGLE	8
OB60C_PYRO_11_FUNC_SINGLE_GB	9
OB30_PYRO_LOW_SPEC_US CA,	10
OB60C_COMPACT_AA,	11
OB60C_MULTI_SINGLE_AA,	12
OB60C_PYRO_SINGLE_AA,	13
OB60C_PYRO_SINGLE_COM_AA,	14
OB60C_PYRO_SINGLE_COM_GB IE EU	15
OB60C_MULTI_SINGLE_GB IE EU,	16
OB60C_PYRO_SINGLE_GB IE EU	17
OB60C_COMPACT_GB IE EU,	18
OB60C_PYRO_11_FUNC_SINGLE_AA	19
OB60C_MULTI_SINGLE_OEM_AA,	20
OB60C_PYRO_SINGLE_OEM_AA	21
OB60C_COMPACT_CASARTE,	22
OB60C_SINGLE_CASARTE,	23
OB60C_MULTI_SINGLE_OEM_EU	24
OB60C_PYRO_SINGLE_OEM_EU,	25
OB60C_MULTI_SINGLE_OEM_IT,	26
OB60C_PYRO_SINGLE_OEM_IT,	27
OB2_GB IE EU	28
OB2_PYRO_GBIEEU,	29
OB24_MULTI_SINGLE_US CA	30
OB24_PYRO_SINGLE_US CA,	31
OR90_MULTI_AA,	32
OR90_PYRO_AA,	33
OR90_MULTI_GB IE EU	34
OR90_PYRO_GB IE EU	35
OR30_PYRO_US,	36
OR36_PYRO_US,	37
OB100_PYRO_AA,	38
OB100_PYRO_GB,	39
DCS models reserve 40-49 */	
2018 Black OB2/OBC series models reserve 50-60*/	
OB60C_PYRO_5_FUNC_SGL_AA NA CN	50
OB60C_PYRO_6_FUNC_SGL_AA NA CN	51
OB60C_PYRO_7_FUNC_SGL_AA NA CN	52
OB60C_PYRO_8_FUNC_SGL_AA NA CN,	53
OB60C_MULT_9_FUNC_SGL_AA NA CN,	54
OB60C_PYRO_9_FUNC_SGL_AA NA CN	55
OB60C_PYRO_10_FUNC_SGL_AA NA CN	56
OB2/OBC11 Function Pyro use versions of	2, 38, 39, 31
OB60C_PYRO_7_FUNC_SGL_GB EU NA	57
OB60C_PYRO_9_FUNC_SGL_GB EU,	58
OB60C_PYRO_9_FUNC_SGL_NA	59

Menu 3 - Software Version

This menu will show the software version of the electronics. It will scroll through the User Interface (UI) and power board (Pb) software and will advise the following:



ww.xx.yy.zz

The individual identifiers describe:

ww:

Safety version. Increments on approved changes to the safety critical software section. A change will result in a new checksum for the safety critical program code.

xx:

Major functional software version. Increments on production releases that added major functionality such as support for new products.

yy:

Minor functional software version. Increments on all other production releases that or not classified as major.

zz:

Development version. Increments on internal releases.

Menu 4 - Demo Mode

To enter this sub menu press the "OK" (✓) button.

If set to on, the oven heating elements and the cooling fans will stay off, but the lights and display function will operate, which is ideal in a retail shop.

This setting survives the power being switched off, and has to be manually switched off.



Menu 5 - Life Test Mode

This menu is not used in the field, it is for factory use only.



All errors of the Power Board and the Clock Board are displayed using the seven segment digits on the Clock Board.

There are two types of fault codes,

A – Alert codes: These are customer errors which can be solved by generally letting the product cool down, or powering it off then on at the wall. These codes will show the letter A, followed by a number.

F – Failure Faults: These are generally caused by component failure, and will either be in the User Interface (UI) or the Power Board (PB).



Example: F 2 01
(Fault) |-----

F means fault, which typically requires a technician.

|-----

1 means that the error occurred on the Clock Board.

2 means the error occurred on the Power Board.

|-----

xx is the type of the error. In this case "01" means initialisation error. No clock board found.

Example: A1 -----
(Alert)

A indicates an alert, followed by a number, which tells the user the kind of alert and what to do next ("1" means over-temperature).

7.1 User Alert Codes

Alert Code	Possible Cause	What to Check
A1	<p>The oven has overheated :</p> <p>The temperature around the power board is too hot.</p> <p>The temperature around the clock board is too hot</p>	<ul style="list-style-type: none"> Power Board, Clock Board or cavity over-temperature. Let the oven cool down, the alert should clear itself. If this alert happens frequently, check the cooling fan(s) for proper operation. Make sure the oven is not used in a hot environment and that it can emit its heat properly. Replace the cavity temperature sensor. Replace the Power Board. Replace the Clock Board.

Alert Code	Possible Cause	What to Check
A2	Door lock error: the door cannot be locked after a self clean cycle has been started.	<p>Door can not be locked</p> <ul style="list-style-type: none"> • Make sure the door and the lock system are properly aligned, so the lock can engage into the door. • Check/replace thermal limiter(s) which may have cut power to the lock motor. • Check whether the lock motor turns. • Check the lock/unlock switches + connector to the power board. • Check the lock/unlock relay on the power board. • Replace the lock system. • Replace the power board.
A3	Door lock error: the door cannot be unlocked after a self clean cycle has finished.	<p>Door can not be unlocked</p> <ul style="list-style-type: none"> • Refer to the procedure above (Door cannot be locked "A2") • You might need to press the door while unlocking, so the door lock can disengage.

7.2 Failure Alerts

F1 - Clock Board Faults

Type	Error	Description & Possible Solution
F1	01	<p>Initialization error. No Power Board found.</p> <ul style="list-style-type: none"> • Check connection to Power Board. • Replace Power Board.
	02	<p>Unknown Model ID. The Clock Board does not support the Model ID set on the Power Board.</p> <ul style="list-style-type: none"> • Replace the Clock Board, as that will have a newer version of software in it. • Once the oven is working again, check via Technician Mode that the Model ID is correctly set.
	03	<p>General software error.</p> <ul style="list-style-type: none"> • Try powering the oven off and on. If the problem persists, replace the Clock Board.
	04	<p>Communication error. The Power Board does not respond in time or at all.</p> <ul style="list-style-type: none"> • Check connection to Power Board. • If the problem persists, replace Power Board.
	16 18	<p>Crystal Oscillator fault. This can occur during baking with a lot of condensation.</p> <ul style="list-style-type: none"> • Let the oven cool down and dry out. Then power the oven off and on. • If the problem persists, replace the Clock Board.
	11 12 13 14 15 17 19 20 21	<p>Critical software/hardware fault.</p> <ul style="list-style-type: none"> • Try powering the oven off and on. If the problem persists, replace the Clock Board.

F2 - Power Board Faults

Type	Error	Description & Possible Solution
F2	01	Initialization error. No Clock Board found. <ul style="list-style-type: none"> • Check connection to Clock Board. • Replace Clock Board.
	02	Unknown Model ID. The Power Board does not support the Model ID that is tried to be set through Technician Mode or restored by the old Clock Board (when Power Board is being replaced). <ul style="list-style-type: none"> • Make sure you are setting the correct Model ID. • Or try another Power Board spare that has a newer version of software in it. • Once the oven is working again, check via Technician Mode that the Model ID is correctly set.
	03	General software error. <ul style="list-style-type: none"> • Try powering the oven off and on. If the problem persists, replace the Power Board.
	04	Communication error. The Clock Board does not respond in time or at all. <ul style="list-style-type: none"> • Check connection to Clock Board. • If the problem persists, replace Clock Board.
	07	Self Clean Door fault. The door was opened during a self clean cycle. <ul style="list-style-type: none"> • Make sure the user did not try opening the door during self clean. • Check the magnet in the door frame (if applicable). • Check the door switch and its connection to the Power Board. • Replace the door switch. • Replace the Power Board.
	13 14	Cavity Temperature Sensor found to be open/short circuit. <ul style="list-style-type: none"> • Check the harness of the cavity sensor to the power board + connector. • Replace the cavity sensor (plug into board before replacing). • Replace the Power Board.
	16	Cavity not heating up (sensor sees no change in temperature). Use Bake function from cold to evaluate this fault, it takes at least 10 minutes to fault out when no change in temperature is seen. <ul style="list-style-type: none"> • Check with customer how/when the fault occurred. Certain load configurations could trip this fault. • Check/replace Thermal Limiter(s) which may have cut power to the heating elements. • Check each heating element via technician mode to ensure they are operating. • Replace the Power Board. • Replace the cavity sensor.
	17	Door lock is not in its unlocked position. <ul style="list-style-type: none"> • Check/replace Thermal Limiter(s) which may have cut power to the lock motor. • Check whether the lock motor turns. • Check the lock/unlock switches + connector to the Power Board. • Check the lock/unlock relay on the Power Board. • Replace the lock system. • Replace the Power Board.

Type	Error	Description & Possible Solution
F2	20 22	Crystal Oscillator fault. This can occur during baking with a lot of condensation. <ul style="list-style-type: none"> Let the oven cool down and dry out. Then power the oven off and on. If the problem persists, replace the Power Board.
	11 12 15 18 19 21 23 24 25	Critical software/hardware fault. <ul style="list-style-type: none"> Try powering the oven off and on. If the problem persists, replace the Power Board.

7.3 SYMPTOM: Oven under cooking

POSSIBLE CAUSES:

- Incorrect oven use
- Incorrect temperature scale used
- Faulty temperature sensor
- Faulty oven element
- Faulty oven cavity fan
- Blown thermal limiter
- Faulty power module
- Faulty door reed switch

DIAGNOSIS:

- Check that the oven is being operated correctly.
- Ensure the oven door closes and seals correctly.
- Ensure the correct temperature scale has been set. (°F or °C).
- Check that the correct oven mode has been selected.
- Check temperature sensor
- Check for tripped thermal limiters.
- Check oven elements in diagnostics
- Check oven cavity fans in diagnostics
- Replace the power module if no other faulty components can be found
- Check door switch

7.4 SYMPTOM: Baking Burns on the top**POSSIBLE CAUSES:**

- Incorrect oven use
- Incorrect temperature scale used
- Faulty temperature sensor
- Faulty oven element
- Faulty oven cavity fan
- Faulty power module

DIAGNOSIS:

- Check that the oven is being operated correctly.
- Ensure the correct temperature scale has been set. (°F or °C).
- Check that the correct oven mode has been selected.
- Check temperature sensor
- Check oven elements in diagnostics
- Check oven cavity fan in diagnostics
- Replace the power module if no other faulty components can be found.

7.5 SYMPTOM: Baking burns on the bottom**POSSIBLE CAUSES:**

- Incorrect oven use
- Incorrect temperature scale used
- Faulty temperature sensor
- Faulty oven element
- Faulty oven cavity fan
- Faulty power module

DIAGNOSIS:

- Check that the oven is being operated correctly
- Ensure the correct temperature scale has been set (°F or °C)
- Check that the correct oven mode has been selected.
- Check temperature sensor
- Check oven element in diagnostics
- Replace the power module if no other faulty components can be found.

7.6 SYMPTOM: Oven seems to be functioning normally but does not heat**POSSIBLE CAUSES:**

- Faulty oven door switch or door not closed (SL9 & SL11 models only)
- Tripped thermal limiter
- Faulty temperature sensor
- Faulty oven element
- Faulty power module

DIAGNOSIS:

- Check to see if the door switch is operating correctly
- Check for tripped thermal limiters.
- Check temperature sensor
- Check oven element in diagnostics
- Replace the power module if no other component faults can be found.

7.7 SYMPTOM: Oven heats slowly or fails to reach preset temperature

POSSIBLE CAUSES:

- Incorrect oven use
- Faulty door switch (pyro models only)
- Low supply voltage
- Faulty temperature sensor
- Faulty oven element / fan
- Faulty power module

DIAGNOSIS:

- Ensure the oven door closes and seals correctly.
- Check door switch
- Check temperature sensor
- Check oven element in diagnostics
- Replace the power module if no other component faults can be found.

7.8 SYMPTOM: No clock display but oven works

POSSIBLE CAUSES:

- Oven is set to "Display OFF" mode.

DIAGNOSIS:

- Hold "Cancel" button (X) down for more than 2 seconds to clear.

WARNING!

Ensure the product is isolated from the power supply before servicing.

8.1 Removal of the inner glass and door hinge

- Remove the door from the product and lay down on a padded service to stop any scratches to outer door glass.
- Push the end cap retaining clip in and slide the end cap upwards to remove. (Fig 1 & 2)
- Remove the inner pane of glass by lifting upwards and out of the base clip.
- Make sure the top trim is securely back in place.
- Reassemble in reverse order.



Fig 1



Fig 2

**8.2 Removal of handle and outer door glass**

- Remove the door from the product and lay down on a padded service to stop any scratches to outer door glass.
- To change the outer door glass, remove the inner door glass and hinge assemblies as set out in instruction 8.1.
- To remove the handle assembly, remove the 2 screws, one on each side, securing the handle to the outer door in the top cap assembly. (Fig 1)
- The extrusion along the top of the door is secured between the two top caps, this is removable.
- When reassembling the door outer assembly, make sure the handle spacers are fitted correctly to stop the handle damaging the new outer door glass. (Fig 3)
- When reassembling the inner door glass make sure these are clean.



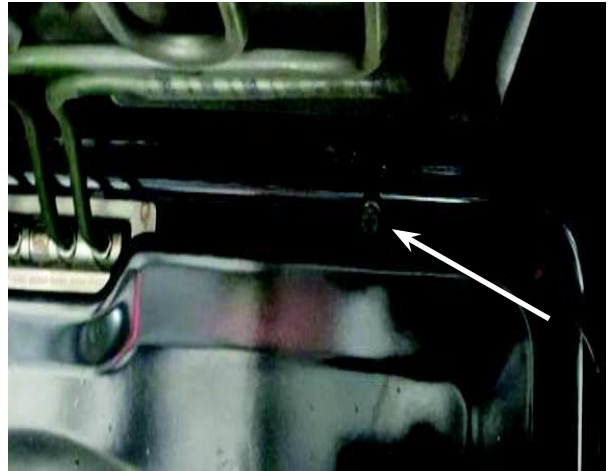
Fig 1



Fig 2

8.2 Removal of the Fan Shroud

- Remove the oven shelves
- Remove the oven door (optional)
- Remove the 4 retaining screws at the top holding the rear panel.
- Pull the panel forward.
- The panel will now be able to be removed.



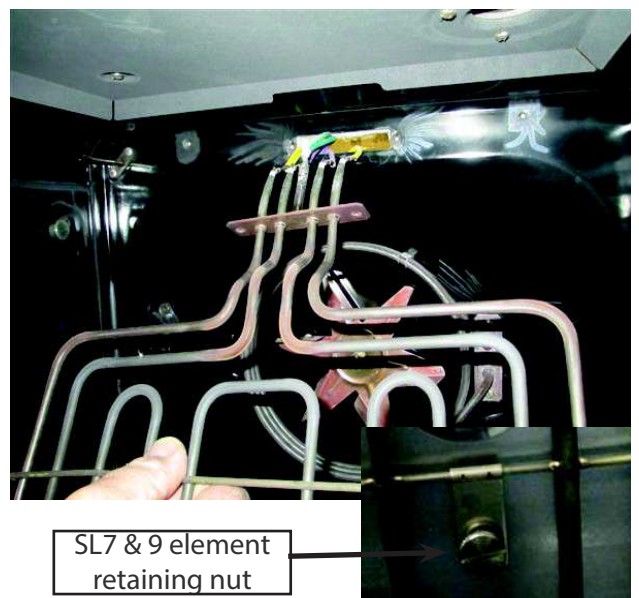
8.3 Removal of the Fan Element

- Remove the fan shroud as per instruction 8.2.
- Remove the 3 screws retaining the fan element to the rear panel.
- Pull the element slightly forward to gain access to the wiring.
- Remove the wiring and fit to new element, reassemble in reverse order.



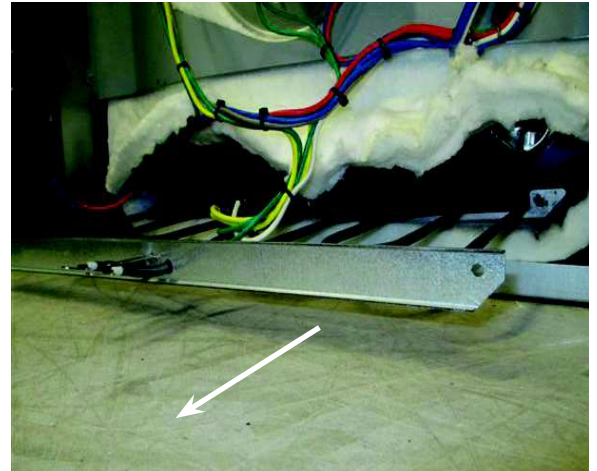
8.4 Removal of the Grill Element

- Remove the fan shroud as per instruction 8.2.
- Un-clip the retainers holding the element to the roof of the oven cavity.
- (multi/mid models) Unscrew the retaining nut in the centre of the element to release.
- Remove the two screws securing the element to the rear wall of the oven cavity.
- Pull the element slightly forward to gain access to the wiring.
- Remove the wiring and fit to the new element, reassemble in reverse order.



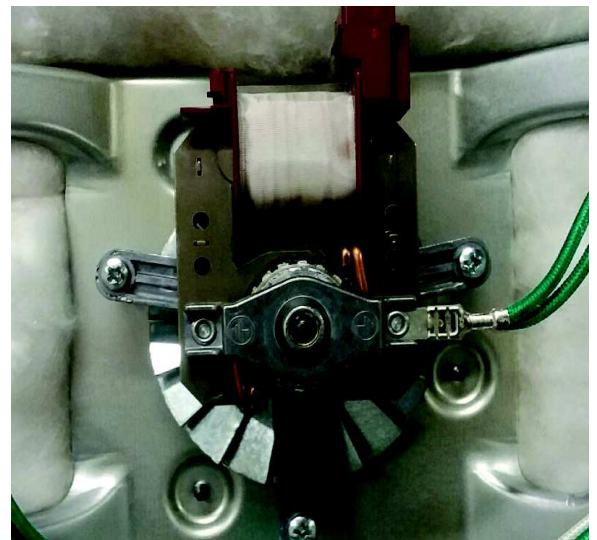
8.5 Removal of the Bake Element

- Remove the product from the joinery
- Remove the rear panel to gain access to the bake element.
- Remove wiring to the element.
- Lift the insulation to gain access to the securing screws.
- Remove the screws and slide the element out from under the oven cavity.



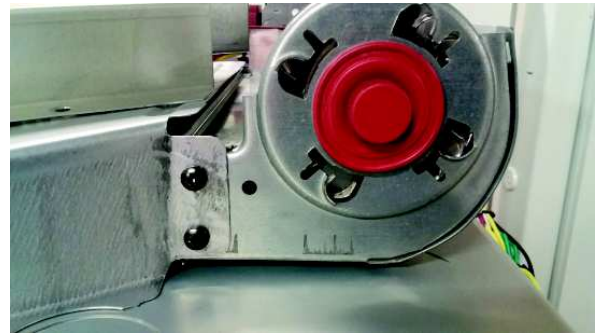
8.6 Removal of the Cavity Fan

- Remove the product from the joinery
- Remove the fan shroud as per instruction 8.2.
- Remove the fan blade by removing the nut, hold the fan blade while undoing the nut, which is left hand thread.
- Remove the rear panel to gain access to the fan motor.
- Remove the wiring to the fan motor, and then remove the 3 screws and pull the fan motor out from the cavity.
- Reassemble in reverse order.



8.7 Removal of the Cooling Fan

- Remove the product from the joinery.
- Remove the top and rear outer panels to gain access to the cooling fan.
- Remove the wiring to the cooling fan motor.
- Remove the two screws on one side and one on the other holding the motor to the top of the tray.
- Slide the cooling fan from the duct to release.

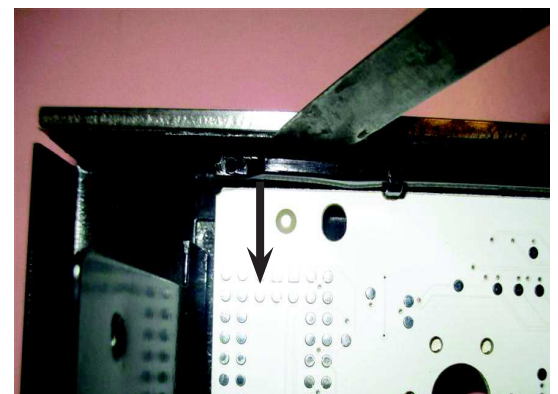
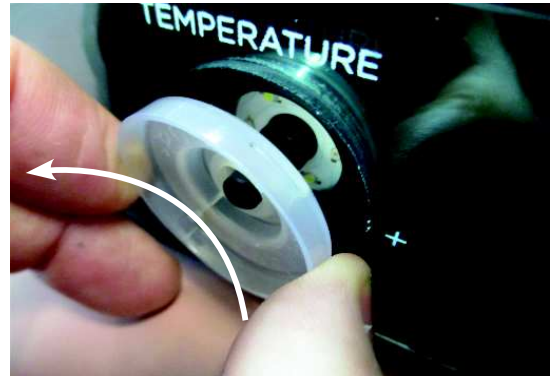


8.8 Removal of the Control Panel

- Remove the retaining screws and pull the product slightly forward.
- Remove the two screws, one down each side holding the control panel to the chassis.
- Lift the control panel slightly up and pull forward to remove from the top panel. Take care not to pull too far forward until the wiring harness from the PCB and door switch are disconnected.
- The control panel can now be removed.

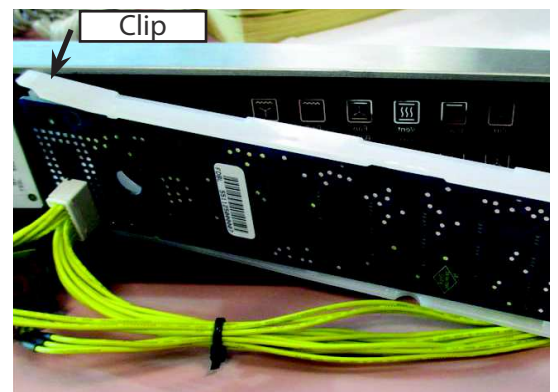


- Remove control panel as per instruction 8.8.
- To remove the temperature display, remove the knob and remove the plastic light pipe halo by rotating it anti clockwise to undo, you may need to use long nose pliers.
- The selector encoder will now pull out of the back of the temperature module.
- Remove the user interface harness at the temperature module.
- To remove the temperature module, release the two clips along the top, and pull the module forward to release from the panel.



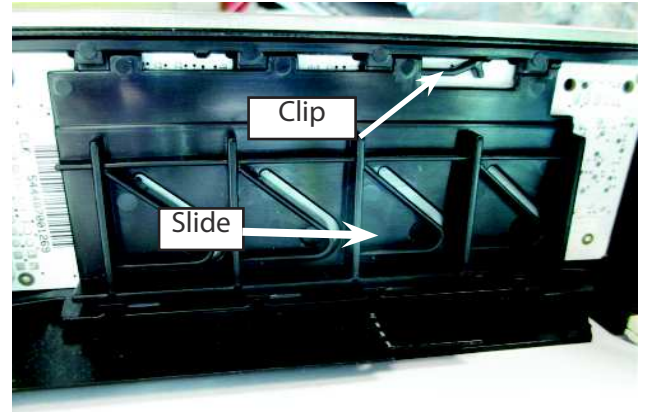
8.10 Removal of the Function Module

- Remove the control panel as per instruction 8.8
- To remove the function PCB, remove the knob and remove the plastic light pipe halo by rotating it anti clockwise, you may need to use long nose pliers.
- The selector encoder will not release out the back of the function PCB.
- Remove the user interface harness from the function module.
- Using a flat blade screwdriver, gently release the top clips on the module and pull forward to release it from the panel.



8.11 Removal of the Clock module

- Remove the control panel as per instruction 8.8
- Remove the user interface harnesses from the clock module.
- Depress the small clip on the bracket and slide it to the right to release.
- The clock module will now release from the retainer. Lift the bottom of the PCB outwards and it will release from the upper clips.
- If the module is replaced, you will need to ensure the correct model ID is set for the product you are working on, refer section 6, pages 37 & 38.



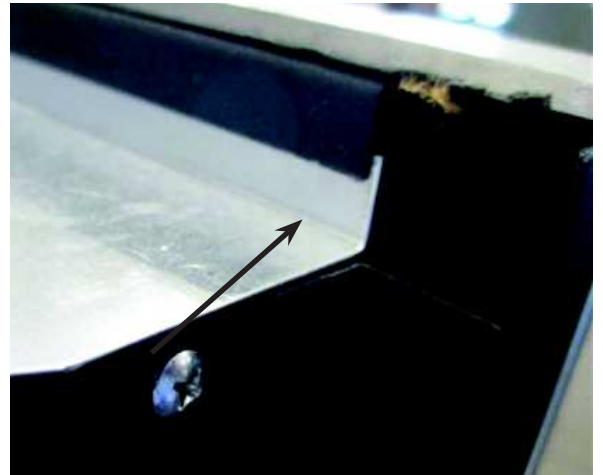
8.12 Removal of the Door Switch

- Remove the control panel as per instruction 8.8.
- Remove the door switch by depressing the small tab on the top of the bracket.
- The switch will rotate to release from the panel
- Reassemble in reverse order, and make sure the harness is connected to the PCB.
- Check the magnet is correctly located in the door cap to ensure correct operation. (refer to section 8.1)



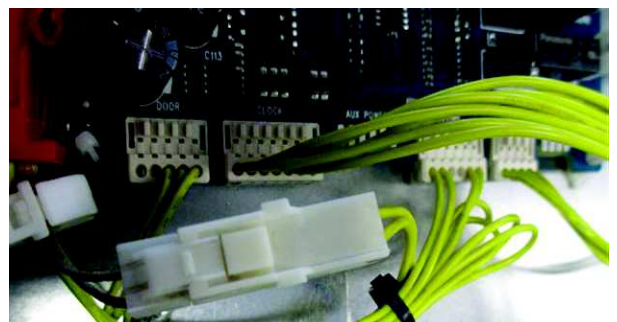
8.13 Removal of the Power board.

- Remove the product from the joinery to gain access to the top panels.
- Remove the top panel.
- The power board is held in by 9 plastic clips, squeeze the clip to release.
- Remove the wiring and harnesses and transfer to the new PCB.
- Once assembled and fitted, check the model ID is correctly set for the product you are working on, refer to section 6, page 37 & 38.



8.14 Removal of the Temp Sensor

- Remove the product from the joinery to gain access to the temperature sensor harness.
- Remove the door to access the sensor (optional)
- Remove the screws on the inside oven cavity securing the temp sensor.
- Remove the top panels to gain access to the sensor harness and unclip it, thread the harness through the clips and remove the sensor from the oven cavity.



8.15 Removal of the Venting Thermal Activator

- Remove the product from the joinery.
- Remove the back panel to gain access to the valve.
- Remove the wiring on the wax actuator. (Fig 1)
- Slightly release the clips from the bracket and the wax actuator coil will release. (Fig 2)
- To remove the bracket assembly, twist the bracket anti clockwise and the assembly will release from the housing. Note the assembly is quite tight to release. (Fig 3)
- To reassemble the bracket, place the arm through, seat the flat clip in the assembly, then rotate anti clockwise and the assembly will snap into place. (Fig 4)



Fig 1



Fig 2

8.16 Removal of the outlet vent & actuator

- Remove the product from the joinery to gain access to the outlet duct assembly.
- Remove the top panel to access the outlet duct assembly.
- To remove the wax actuator, remove the wiring to the actuator and remove the 2 screws securing the actuator to the duct assembly. (Fig 1)
- To remove the duct assembly, remove all the screws retaining the duct assembly to the chassis and the assembly will lift upwards. (Fig 2)
- When reassembling the top duct, it is important to ensure the flap is sitting correctly on the cavity outlet duct, as per Fig 3. In the open position it should look like Fig 4.

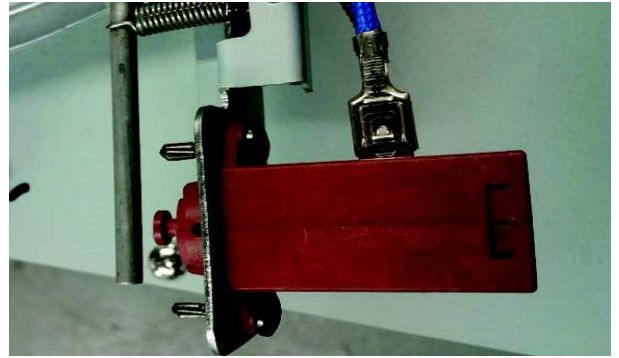


Fig 1

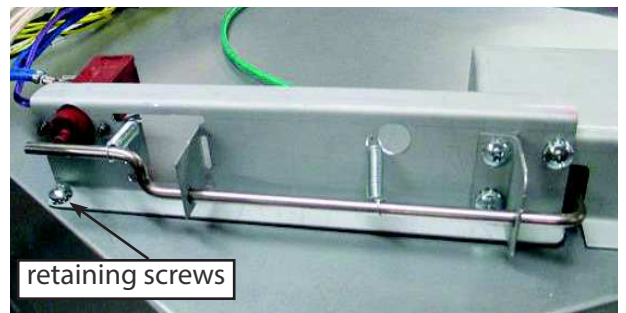


Fig 2

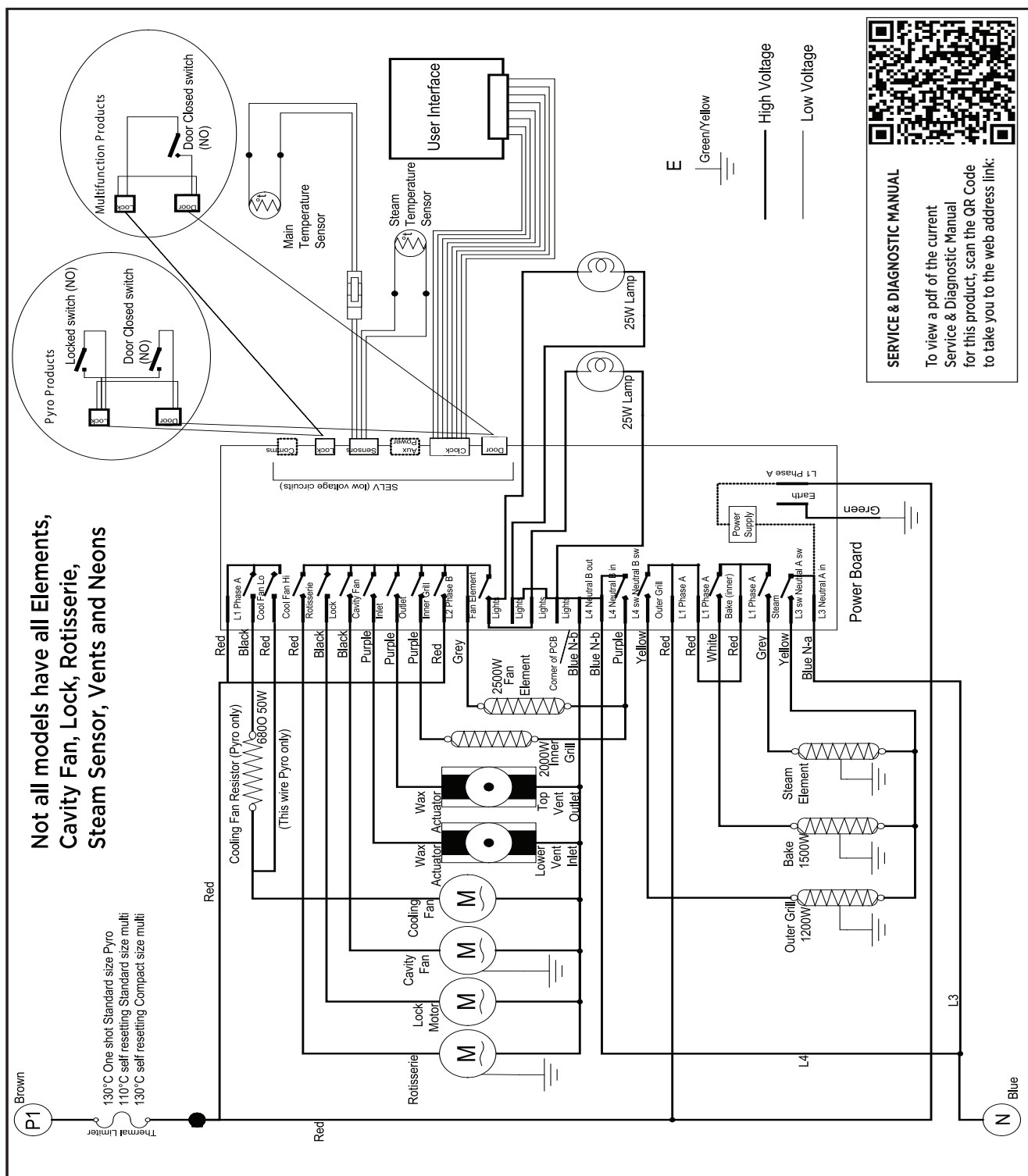


Fig 3

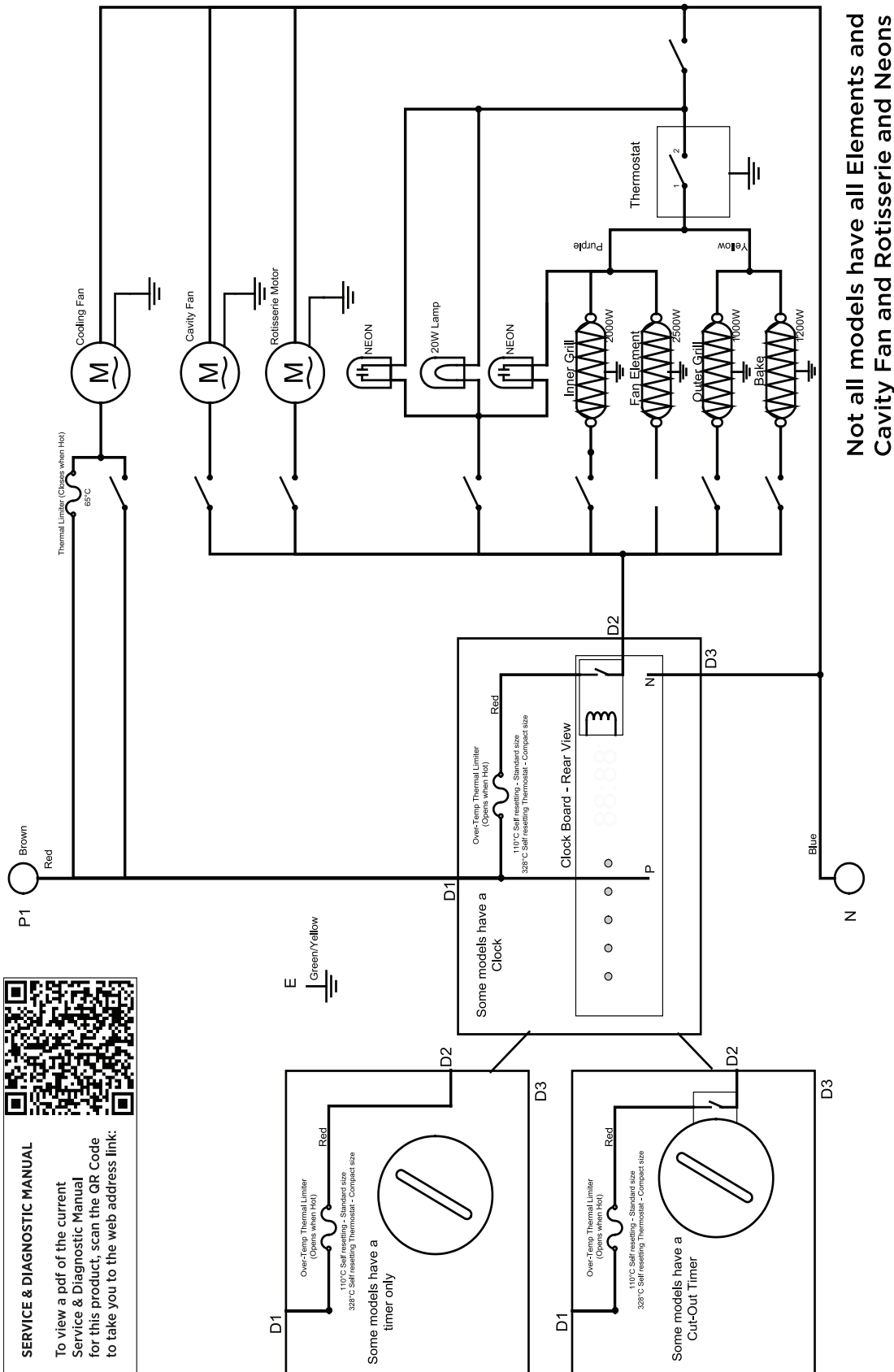


Fig 4

9.5 OB60C Wiring Diagram



9.6 OB60C Schematic Diagram



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