

SKYFIRE BUILT-IN OVENS SERVICE MANUAL



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3. SAFETY WARNINGS

This section includes the safety instructions necessary to prevent the risk of personal injury or material damage.

The following symbols are used in the service guide:



Important information or useful usage tips.



Warning against health and property risks.



Warning against electric shock.



Warning against fire.



Warning against hot surfaces.

3.1 General Safety

- The appliance power shall be cut off during installation, maintenance and repairs.
- Keep all ventilation slots clear of obstructions.
- Rear surface of the appliance gets hot when it is in use. Therefore, the gas or electrical connections shall not come in contact with the upper surface during the installation of the oven; otherwise the connections may get damaged.
- Ensure that damaged components that may cause failure in the appliance are not used and that they are replaced.
- Ensure that a renovated cable terminal is not used and it is replaced with a new one.
- As electrical components are replaced, ensure that the replacement part does not have liquids or humidity on it that may cause failure.
- If power cord/plug is damaged, do not use the appliance.
- Due to safety risks, do not extend the mains cord with additional cords and do not use extensions.
- Plug the appliance in a grounded socket protected by a fuse conforming to the values specified in the "Technical specifications" chart.

3.2. Safety for installation

- Check whether the ground of installation is flat. Non conforming surface has the risk for pans and kettles etc. to spill. If the ground is not flat, ask the customer to flatten the surface.
- The energy source piping/wiring shall be brought next to the appliance.
- During installation, the mains cable shall not pass over the hot surfaces. If the cord melts, this may cause the appliance to short circuit and even a fire.
- During installation, ensure that the cables are not cut, and that cut or damaged cables are not used and that they shall be replaced.
- This appliance does not contain a device that discharge combustion gases. Appliance must be installed according to the installation regulations in force. Ventilation requirements must be paid special attention.

3.3 Information for the Customers

- During operation, the appliance may become hot. Care should be taken to avoid touching heating elements inside the oven. Do not place any flammable materials close to the appliance as its sides may become hot during operation.
- Never wash the appliance by spraying or pouring water onto it! There is a risk of electric shock!
- Do not heat closed tins and glass jars in the appliance. The pressure that would build-up in the tin/jar may cause it to burst.
- Do not clean the appliance while it is operated.
- Do not perform any repairs or modifications on the appliance. However, you may remedy some issues that are specified in the oven user manual.
- If there are no windows or doors to be used for room ventilation, additional ventilation shall be installed.
- Do not place baking trays, dishes or aluminium foil directly onto the bottom of the appliance. The heat accumulation might damage the bottom of the appliance.
- Always use heat resistant oven gloves while placing food in the hot oven, or removing the food from the hot oven, etc.
- Do not use the appliance if the front door glass removed or cracked.
- Pay attention to prevent children from sitting on the oven door when the door of the appliance is open.
- Do not hang materials such as rags or towels on the handle of the appliance.

4.INSTALLATION OF THE APPLIANCE / RULES OF INSTALLATION / SETTINGS

4.1 Transportation of the Appliance



Do not use the door and/or handle to transport or move the product. The door, handle or hinges may be damaged.



The appliance shall always be handled by 2 persons due to reasons of safety and ergonomics.



While unloading the appliance from the vehicle during transport, do not drop the appliance, do not drag it or slide it on the stairs.

- Check the overall appearance of the product for any damage that may have occurred during transportation.

4.2 Removing Appliance Package

During installation, the packaging of the appliance shall be removed without damaging the appliance and the packaging by considering the possible replacement of the appliance.



Remove the packaging nylon with a box cutter without damaging the upper and lower cardboards.



Take out the upper cardboards

Remove the mouldings in front of and rear of the appliance as shown below.





Remove the styrofoams on the left and right of the appliance.

Symbols on the packaging of the appliance and their meaning;

<p>Protect against humidity</p>	<p>Fragile product</p>	<p>Carry via trolley holding it from this side</p>	<p>Do not place your knee on the appliance</p>	<p>Carry the appliance by clamping it from this side</p>	<p>Do not step on the appliance</p>

4.3 Inspection of the installation location and power sources

4.3.1 Checking the dimensions of the installation location



- The appliance shall be installed in accordance with all local gas and electrical regulations.
- The appliance is designed for installation into commercially available work tops. A safety distance shall be left between the appliance and the kitchen walls and furniture. See figure for the proper distances. (dimensions are given in mm).
- Surfaces, synthetic laminates and adhesives used must be heat resistant (100 °C minimum).
- Kitchen cabinets must be set level and fixed.
- If there is a drawer beneath the oven, a shelf shall be installed between oven and drawer.

4.3.2 Inspection of the Electrical Installation

The following values related to the product should be taken into account in the control of the electrical installation of the product.

GENERAL	
Voltage / frequency	220-240 V ~ 50 Hz
Total power consumption	2.4 kW
Fuse	min. 16 A
Cable type / section	H05VV-FG 3 x 1.5 mm ²
Cable length	max. 2 m

4.4 Electrical Connection

The mains supply data shall correspond to the data specified on the type label of the product. The rating plate is either seen when the door or the lower cover of the appliance is opened or it is located at the rear wall of the appliance depending on the appliance type.



Plug shall be in an easily accessible location after installation of the appliance.

4.5 Installation of the Appliance

Paying attention that the power cord is not pinched or broken, slide the oven inside the cabinet hole, align and secure it.



There are screw holes that are used for installing the oven to the furniture on the left and right of the oven (as shown in the figure below).



Secure the oven with screws as shown in the figure.



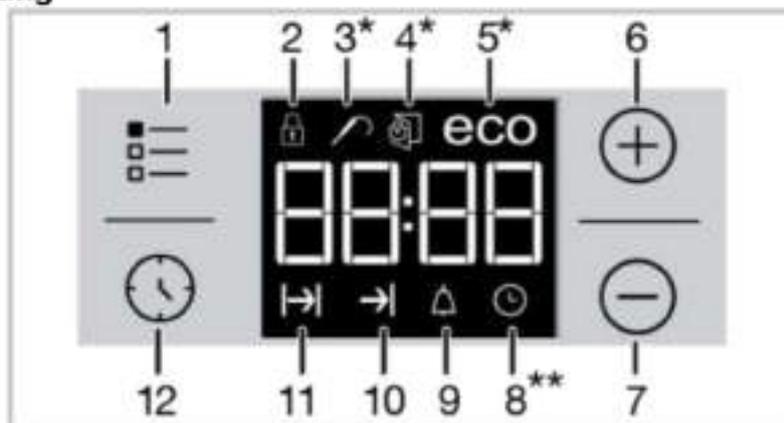
5. OPERATION OF THE APPLIANCE

Plug the power cord and turn on the fuse of the appliance. You shall set the language before setting the clock.

NOTE: Clock setting must be done before using the oven. The oven cannot be operated until the clock is set.

5.1 First Use

5.1.1 Time Setting



- 1 Adjustment button
- 2 Child lock symbol
- 3 Meat Probe symbol
- 4 Door Lock symbol
- 5 Economy cooking symbol
- 6 Plus button
- 7 Minus button
- 8 Time symbol
- 9 Alarm symbol
- 10 Cooking end time symbol
- 11 Cooking time symbol
- 12 Cycle button

* (This feature is optional. It may not exist on your product.)

** Depending on the product model, its location on the display may vary.

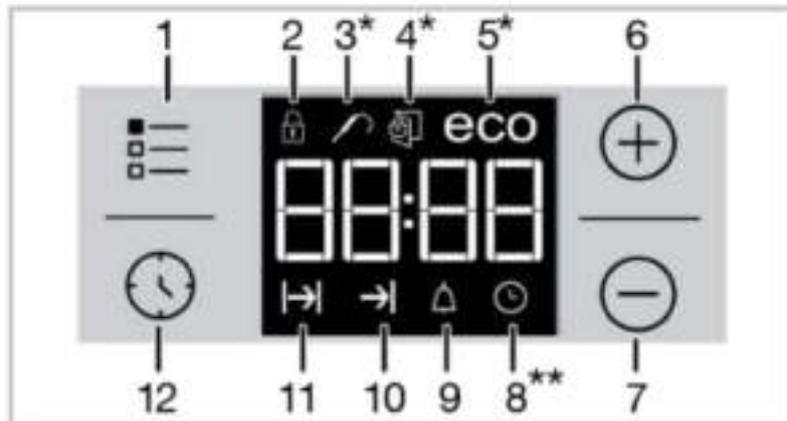
i The corresponding symbols on the watch flash while making any adjustments.

Set the time of day with the **+/-** keys once the oven is first powered up. Confirm the setting by touching the **⌚** symbol

i If the first time is not set, the clock will start moving from 12:00 and the **⌚** symbol will appear on the screen. The symbol will disappear when the time is set.

- i** In the event of a power outage, the time of day settings are cancelled. Re-adjustment is required.

5.1.2 Changing the time of day



- 1 Adjustment button
 - 2 Child lock symbol
 - 3 Meat Probe symbol
 - 4 Door Lock symbol
 - 5 Economy cooking symbol
 - 6 Plus button
 - 7 Minus button
 - 8 Time symbol
 - 9 Alarm symbol
 - 10 Cooking end time symbol
 - 11 Cooking time symbol
 - 12 Cycle button
- * (This feature is optional. It may not exist on your product.)
- ** Depending on the product model, its location on the display may vary.

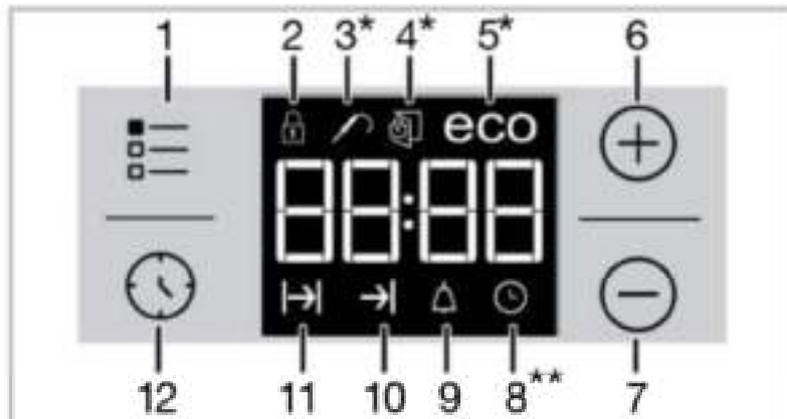
On your oven; to change the time of day that you have previously set,

1. Tap  until the  symbol appears on the screen.
2. **+** Set the time of day with the **/=** keys.
3. The time set is activated after a short while.

5.1.3 Brightness Setting

Setting the screen brightness

(This feature is optional. It may not exist on your product.)

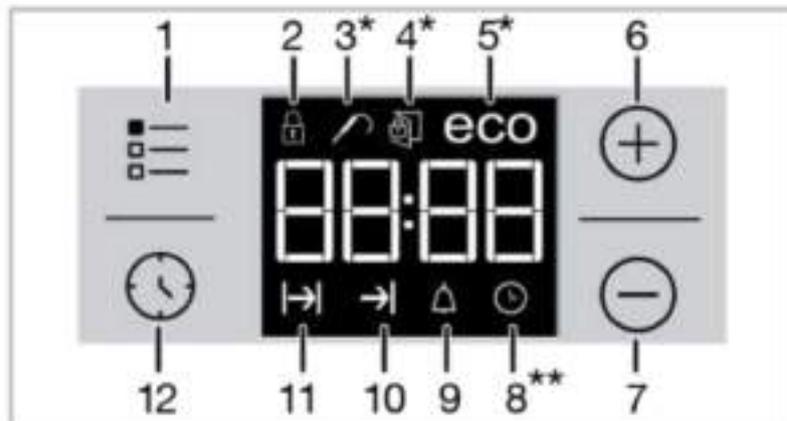


- 1 Adjustment button
 - 2 Child lock symbol
 - 3 Meat Probe symbol
 - 4 Door Lock symbol
 - 5 Economy cooking symbol
 - 6 Plus button
 - 7 Minus button
 - 8 Time symbol
 - 9 Alarm symbol
 - 10 Cooking end time symbol
 - 11 Cooking time symbol
 - 12 Cycle button
- * (This feature is optional. It may not exist on your product.)
- ** Depending on the product model, its location on the display may vary.

Set the time of day with the **+/=** keys once the oven is first powered up. Confirm the setting by touching the  symbol

- i** If the first time is not set, the clock will start moving from **12:00** and the  symbol will appear on the screen. The symbol will disappear when the time is set.

5.1.4 Using the Oven Clock and Setting the Cooking Time



- 1 Adjustment button
 - 2 Child lock symbol
 - 3 Meat Probe symbol
 - 4 Door Lock symbol
 - 5 Economy cooking symbol
 - 6 Plus button
 - 7 Minus button
 - 8 Time symbol
 - 9 Alarm symbol
 - 10 Cooking end time symbol
 - 11 Cooking time symbol
 - 12 Cycle button
- * (This feature is optional. It may not exist on your product.)
- ** Depending on the product model, its location on the display may vary.

Cooking by indicating the cooking time;

You may set time cooking time on the clock and ensure that the oven is turned off when the time expires.

1. Select the operating function for cooking.
2. Tap until the appears on the display for the cooking time.
3. **+** Set the cooking time with the keys.
 - » After setting the cooking time, the will appear on the display continuously.
4. Put your food in the oven and set the temperature using the temperature button. Cooking will start.
 - » When the cooking starts, the cooking time starts to count down on the display. In some models, when the cooking starts, the cooking time starts to count down on the display and all parts of the time zone symbol flash. The set cooking time is divided into 4 equal parts and when the time for each part is over, that part symbol goes out. Thus, you can easily understand the ratio of remaining cooking time to total cooking time.

To set the cooking end time to a later time;
After setting the cooking time on the clock, you can set the cooking end time to a later hour.

This set time must be greater than 1 minute.

1. Select the operating function for cooking.
2. Tap  until the  symbol appears on the display for the cooking time.
3. **+** Set the cooking time with the  keys.
 - » After setting the cooking time, the  symbol will appear on the display continuously.
4. Touch  until the  symbol appears on the display for the cooking end time.
5. **+** Set the cooking end time with the  keys.
 - » After setting the cooking end time, the  symbol and  symbol will appear constantly on the display. As soon as cooking starts, the  symbol disappears.
6. Put your food in the oven and set the temperature with the temperature button. Cooking will start.

NOTE: The oven time calculates the time to start cooking by subtracting the cooking time from the cooking end time you set. When the cooking start time comes, the selected function is activated and the oven heats up to the set temperature. It maintains this temperature until the end of the cooking time.

» When the cooking starts, the cooking time starts to count down on the display.  In some models, when the cooking starts, the cooking time starts to count down on the display and all parts of the time zone symbol flash. The set cooking time is divided into 4 equal parts and when the time for each part is over, that part symbol goes out. Thus, you can easily understand the ratio of remaining cooking time to total cooking time.

7. After the cooking process is completed, "**End**" appears on the display and the clock sounds audible warning.
8. The audible alarm sounds for two minutes. Press any key to stop the warning. The audible warning stops and the pre-set temperature appears on the display.

 If any key is pressed at the end of the audible warning, the oven will start operating again. To prevent the oven from operating again at the end of the warning, turn off the oven by turning the function button to the "**0**" (off) position.

5.1.5 Activating the child lock

By using the child lock feature, you can prevent the product from operating beyond your control.

1. Tap  until the  symbol appears on the screen.
 - » "**OFF**" appears on the display.
2. Activate child lock by pressing the **+** key
 - » After the child lock is set, "**On**" appears on the screen and the  symbol remains lit. When the function selection button is in the **0** position, the  symbol appears on the display. When the function selection button is turned, "**STOP**" text appears on the display. The product does not perform cooking.

 When the child lock is active, digital clock keys cannot be used and the product does not perform cooking. The child lock will not be cancelled in case of power failure.

5.1.6 Deactivating the child lock

1. Tap  until the  symbol appears on the screen.
» "On" appears on the screen.
2. Disable child lock by touching the  key.
» "OFF" text appears on the display after child lock is disabled.

5.1.7 Setting the Alarm Clock

You can also use the timer of the product for any warning or reminder other than cooking program.

The alarm clock has no effect on the oven operating functions. Used for warning purposes. For example, you can use the alarm clock when you want to turn the food in the oven at a certain time. As soon as the time you set has expired, the clock gives you an audible warning.

1. Tap  until the  symbol appears on the screen.
 The maximum alarm time may be 23 hours 59 minutes.
2.  Set the alarm time with the  keys.
 The function and the temperature buttons must be in 0 position (stand-by) for the setting of alarm tone, the time of day, the screen brightness.

After setting the alarm time, the  symbol remains lit and the alarm time appears on the screen.

3. After the alarm time is completed, the  symbol starts flashing and gives you an audible warning.

Turning off the alarm

1. The audible alarm sounds for two minutes. Press any key to stop the warning.
» The audible warning stops and the time of day appears on the screen.

If you want to cancel the alarm;

1. Touch  until the  symbol appears on the screen to reset the alarm time.
2. Touch the  key until it shows "00:00".

 The alarm duration is displayed on the screen. If the alarm time and cooking time are set at the same time, the shorter time is displayed on the screen.

Changing the alarm tone

1. Touch the  key until "b-1" or "b-2" or "b-3" appears on the screen.
2.  Set the desired tone with the  keys.
3. Touch the  key for confirmation, or the set timer is activated shortly without touching a key.

Changing the time of day

On your oven; to change the time of day that you have previously set,

1. Tap  until the  symbol appears on the screen.
2.  Set the time of day with the  keys.
3. The time set is activated after a short while.

Setting the screen brightness

(This feature is optional. It may not exist on your product.)

1. For screen brightness setting, touch  until **d-01** or **d-02** or **d-03** appears on the screen.
2. **+** Set the desired brightness with the **/=** keys.
 - » The brightness set becomes active after a while.

5.1.8 Economy mode

By setting the cooking time in the oven, you can save energy by using the economic mode while cooking.

This mode completes the cooking of your food using the temperature contained within the oven after shutting down the heaters before the cooking time is over.

Setting the economy mode

1. Tap  until the **eco** symbol appears on the screen.
 - » **"OFF"** appears on the display.
2. Enable the economy mode by touching the **+** key.
 - » Once the economy mode is set, **"On"** appears on the screen and the eco symbol remains lit.

Disabling the economy mode

1. Tap  until the **eco** symbol appears on the screen.
 - » **"On"** appears on the screen.
2. Disable the economy mode by touching the **=** key.
 - » Once the economy mode is deactivated, **"Off"** appears on the display and the eco symbol disappears.

 In the economy fan operation mode (if your product is equipped with it), the oven lamp would not light in order to save energy.

Cooking times chart

 The stated values were determined in the laboratory. Values suitable for you may differ from these values.

5.1.9 Operating Functions

The order of the operating modes shown here may differ from the arrangement on your appliance.

Oven light



The oven is not heated. Only the oven lamp lights up. Possibly, the external cooling fan would also run in order to keep the compartments from getting heated.

Upper and lower heating



Upper and lower heaters are on. The food is cooked simultaneously from top and bottom. It is applicable for instance for cooking cake, patty or cakes or stew in moulds or containers. Cook using a single tray.

Lower heating



Only lower heating is on. It is suitable for pizza and foods that need browning on the bottom.

This function should also be used for easy steam cleaning.



Fan assisted lower/upper heating



Upper and lower heaters and the fan (on the rear wall) are on. The hot air is distributed equally and rapidly throughout the oven with the fan. Cook with a single tray.

Turbo cooking



Fan heating (on the rear wall) works.

The hot air is distributed equally and rapidly throughout the oven with the fan.

Preheating is not required in most cases. It is suitable for cooking your food on different rack levels. It is suitable for multi-tray cooking.

This function should also be used for easy steam cleaning.



Economy mode fan



In order to save energy, you can use this function instead of using "Turbo cooking" in the range of 160-220°C. But; cooking time will be slightly longer.

Cooking times for the use of this function are given in the "Economy Mode Fan" table.

Large grill



The large grill on the oven ceiling works. It is suitable for grilling large amounts of meat.

- Place the large or medium sized portions on the correct rack position under the grill heater to grill.
- Turn the food upside down halfway through the cooking process.

Fan assisted small grill



The grill effect is not as strong as the normal grill.

- To grill, place small or medium portions in the correct rack position under the grill heater.
- Turn the food upside down halfway through the cooking process.

Pyrolysis



It is used for self-cleaning of the oven at high temperature. Read the explanations in the maintenance and cleaning section for this function.

6. ACCESSORIES / LABELS USED ON THE APPLIANCE

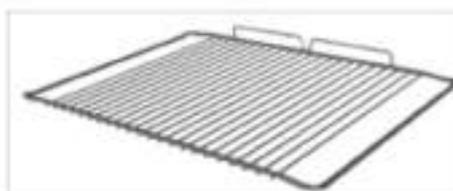
6.1 By-Products / Accessories

Standard Tray



It is used for pastries, frozen foods and frying large pieces.

Wire Grill

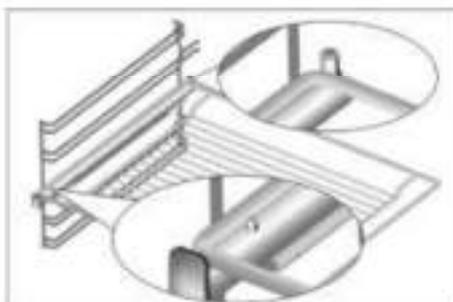


It is used for frying or placing the food to be baked, fried and stewed on the desired shelf.

Proper placement of the wire grill and tray on the telescopic shelves (This feature is optional. It may not exist on your product.)

Thanks to telescopic shelves, trays or a wire grill can be easily installed and removed.

When using trays and wire grills with the telescopic shelf, care should be taken that the pins, behind the telescopic shelf, rest against the edges of the grill and the tray.



6.2 Labels Used on the Appliance and Their Explanations

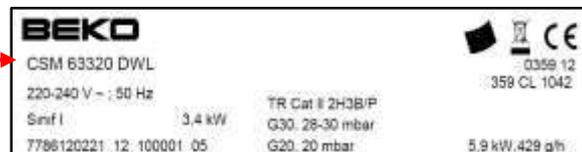
6.2.1 Rating Plate

The rating plate of the appliance indicates the gas information on the appliance.



Location of the rating plate:

The rating plate can be seen when the door or the lower cover of the appliance is opened or it is located at the rear wall of the appliance depending on the product type.



6.2.2 Barcode Label

The barcode label of the appliance indicates the country of origin, brand and model of the appliance produced and consists of lines and spaces determined as per international rules.



Location of the barcode label:

It is affixed on the cardboard on the packaging of the appliance.

6.2.3 Energy Label

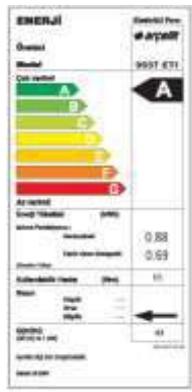
The energy label of the appliance indicates the energy class and the volume of the appliance.



ENERJİ		Elektrikli Fırın	
Üretici	arçelik		brand
Model	9657 ETI		Model no.
Çok verimli	A		Energy class
Az verimli			
Enerji Tüketimi (kWh)			
Isıtma Fonksiyonu :			
Geleneksel	0.88		Energy consumption in static and/or forced convection function
Fanlı Hava Dolaplı	0.69		
(Standart Yüze)			
Kullanılabilir Hacim (litre)	65		Useful volume (l)
Boyut			
Küçük	---		
Orta	---		volume
Büyük	←		
Gürültü (dB (A) re 1 pW)	43		noise
285 4407 33 AB			
Ayrıntılı bilgi ürün broşüründe.			
Standart EN 50384			

Location of the energy label:

The energy label is provided with the literature of the product.



7. GENERAL OPERATION PRINCIPLE

The electronic control circuit (Module) used in Grundig electronically-controlled ovens offers features such as the control of the oven functions, displaying the time of the day in digital format, displaying the cooking time, timer (setting count down time, giving an audible warning when the count down finishes), etc.

Oven consists of the following components and features.

- The clock where symbols and figures are displayed.
- Ease of operation with easy to use menu and touch keys
- Functions of the oven vary as per the oven specifications.
- Individual cleaning (pyro) option (Pyro, Eco Pyro) (in models with Pyro)
- Max. operation of 6 hours (against forgetting to turn off)
- Cooling fan control as per the temperature inside the oven (between $120^{\circ}\text{C}\pm 20^{\circ}\text{C}$ (1st stage) and $300^{\circ}\text{C}\pm 20^{\circ}\text{C}$ (2nd stage, available in Pyro ovens only)).
- The temperature inside the oven can be set between 40°C and 280°C
- Timer (warning time) can be set between 1 minute and 23 hours 59 minutes.
- Cooking time can be set between 1 minute and 5 hours 59 minutes.
- Selecting the end of cooking time
- An audible alarm can be given
- Screen Brightness can be adjusted
- The volume can be adjusted.
- 15W H class cooling motor (38W in Pyro models)
- 1100/2200W grill resistance
- Turbo resistance of 1800W
- Upper oven resistance of 1100W
- Lower oven resistance of 1200W
- 22W Fan Motor
- Chicken roasting function (works in the grill function) (Optional)

Oven is protected with bi-metal thermal breakers against any improper operation. Bi-metal thermal breaker is located on the rear left and upper side of the oven frame for ovens other than the pyro type ovens and the operating temperature is 250°C . It breaks the phase conductor from the supply when the temperature inside the oven reaches a temperature of $350\text{-}400^{\circ}\text{C}^{**}$.

***Caution!!!!** When the oven thermal breaker trips, it means that something went wrong with the oven (e.g. Oven temperature sensor failure). Before replacing it with a new one, the situation that caused the error should be found and resolved.

Cooling fan is enabled as per the temperature inside the oven (between $120^{\circ}\text{C}\pm 20^{\circ}\text{C}$ (1st stage) and $300^{\circ}\text{C}\pm 20^{\circ}\text{C}$ (2nd stage, available in Pyro ovens only) and continues until the interior temperature of the frame drops to approximately 160°C . Even if the oven is turned off after cooking, the cooling motor shall continue to run for a while in order to remove the heat on the control circuit.

Since the LED panel can easily be damaged, attention should be paid to the following warnings about the Grundig Display board while servicing.

Correct Grip



Please hold it from the LCM corners using antistatic gloves as shown in the figure above.

The LCD Panel should be held by its edges.

The temperature of the storage area shall be 0°C-35°C.
Humidity shall be 40-60%RH.



OK



NG

The connector on the LED should not be pulled from the cable section.

7.1 Operation Mode

- Normal Operation Mode
- Quick Heating

8. OPERATING MODES, ERROR CODES AND DESCRIPTIONS

Er01 -> Communication Error = There are breaks in communication between Mainboard and Display. Replacing the communication cable in between would resolve this problem. If this does not resolve the problem, both the motherboard and the display board should be replaced.

Er02 -> Switch Error to set the Cooking Modes Are = There are breaks in the cable between the switch and display. Replacing the cable in between would resolve this problem. If the error repeats, the display board and the switch should be replaced completely.

Er03 -> Thermostat Error to set the Temperature = There is a problem with the cable between display and the thermostat where the temperature is set. The cable should be replaced. If this does not resolve the problem, both the display board and the thermostat module where the temperature is set at should be replaced.

Er04 -> PT500 Fault = Temperature sensor PT500 should be replaced. If the error reoccurs, all cables connected to the motherboard and PT500 should be replaced.

Er05 -> Door Lock Fault = Door lock module should be replaced. If this does not resolve the problem, both the motherboard and all cables that trigger the door lock in between should be replaced.

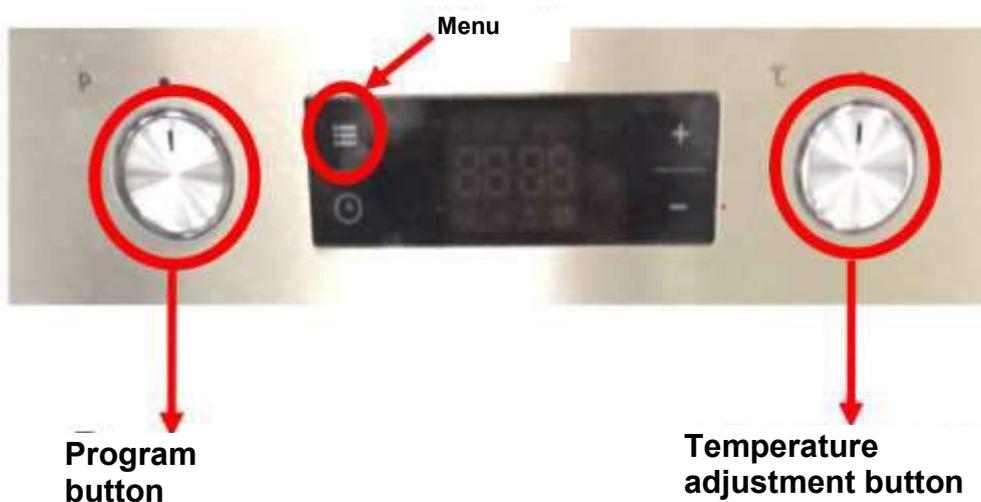
Er06 -> Meat Probe Open Circuit Error = Meat Probe board and communication cable should be replaced. If this does not resolve the problem also replace the socket.

Er07 -> Meat Probe Short Circuit Error = Meat Probe board and communication cable should be replaced. If this does not resolve the problem also replace the socket.

Er08 -> Meat Probe Communication Error = Meat Probe motherboard communication error. The cable in between should be replaced. If this does not resolve the problem, both the motherboard and the meat probe board should be replaced.

8.1.1 Service mode

Within 30 seconds after powering the oven up, the program knob on the left should be set to any position and the temperature adjustment knob on the right should be set to the max position. Then, the Menu button (1) on the display should be pressed until one of the b-01, b-02, b-03 appears on the display. Once one of b-01, b-02, b-03; b-01 is displayed when you press the + button on the right of the display. After this, the service mode is entered. If b-1 is displayed on the screen, the service menu shall be entered automatically.



8.1.2 Normal operation mode

It is the oven mode in which the oven functions operate normally and the cooking can be performed. When the oven is plugged in for the first time, it starts operating in this mode. The following functions are running in normal operating mode.

Static
Static + fan
Multi (3D)-mechanical multi
Pizza
Grill+fan
Grill
Small grill
Bottom heater
* Functions vary by product model.

The functions may vary from product to product, in general, the functions of the oven work as follows:

- Static Cooking: Lower and Upper Heaters operate.
- Static + Fan: Lower heater, upper heater and fan motor start.
- Cooking with Fan: Turbo heater and fan motor operate.
- Pizza (Turbo Heater+Lower Heater) : Lower heater, turbo heater and fan motor operate.
- Grill + Fan: Upper heater, Grill and Fan motor operate.
- Grill: Upper heater, Grill and chicken roasting motor* operate.
- Small Grill: Grill and chicken roasting motor* operate.
- Economy Mode Fan: The energy consumption algorithm runs.
- Lower Heater: Lower Heater operates.
- Low Temperature: The low temperature cooking algorithm runs.
- Keeping warm: Lower and Upper Heaters operate.
- Thawing (Defrost): Fan motor starts
- 3D Upper and lower resistance work in series with each other in parallel with the turbo resistance.

* Chicken roasting motor is optional. It is connected in parallel to the grill resistance on non-pyro ovens.

8.1.3 Quick Heating

The fast heating function can be selected with every cooking function. In models without the turbo heater, unlike the heater combination in the selected position in the fast heating function, the turbo heater, the lower heater and the fan motor run to enable the oven to reach the desired temperature faster. In models without the turbo heater, the lower heater, grill heater (internal) and fan motor run to allow the oven to reach the desired temperature faster. When the oven reaches the desired temperature, the heaters will work in the selected heater combination.

The cooking time includes the fast heating time. If the selected cooking time is less than the time to reach the desired temperature in the desired function, the oven will only preheat.

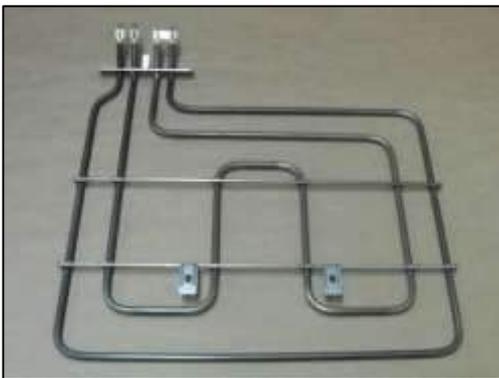
9. COMPONENTS LIST / OPERATING PRINCIPLES OF THE COMPONENTS

9.1 Technical Specifications of the Components

Components	Power
Lower resistance	1200 W
Turbo resistance	1800 W
Upper resistance / static	1100 W
Grill resistance	2200 W
Grill + upper resistance (1100+1100)	2200 W
Turbo motor	22-26 W
Light	15-25 W
PCM	4 W

9.2 Operating Principles of the Components

Grill Resistance



This resistance is operated with the control button and used for grilling in electric ovens. It is controlled with a switch and thermostat under the control button.

Oven resistance



This resistance is controlled by the switch under the control button and used for cooking in the oven in the desired temperature thanks to the thermostat in the electric ovens. It is placed between the chassis and the lower sheet of the base on the lower section of the oven chassis

Terminal



This is the connection element where mains cord and the cables inside the oven are connected. Cables routed to the components inside the oven are distributed from the terminal.

Turbo Motor



Operates on its own in the defrost position for turbo and multifunction ovens. When it is operated together with the turbo resistance, it ensures that the heat of the turbo resistance is evenly distributed inside the oven thanks to the fan.

Oven light



This is controlled by a switch connected to the control button or a by a special button and illuminates inside the oven chassis. Lights may be square or round.

Thermal breaker



This is controlled by a switch connected to the control button or a by a special button and illuminates inside the oven chassis. Lights may be square or round. **NOTE:**When the oven thermal breaker trips, it means that something went wrong with the oven. Before replacing it with a new one, the situation that caused the error should be found and resolved.

Turbo Resistance



It is the resistance (heating element) placed on the back wall on the oven frame in turbo and multifunctional ovens. Air is sucked with the suction holes on this surface and blown from the air holes on the rear wall next to the suction holes. Heated air passes through the lower and upper surfaces of the trays and performs the cooking operation. The heating element and the fan are controlled by the oven heater control button available on the control panel.

Bi-Metal



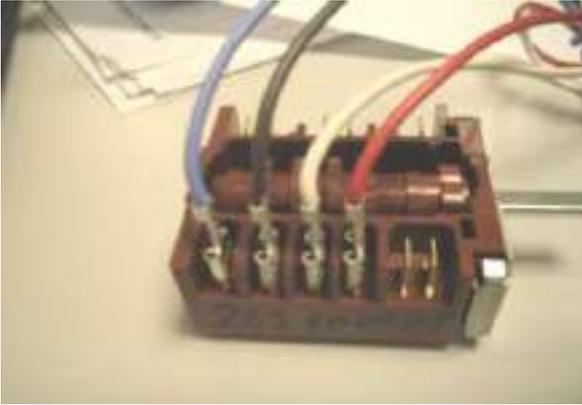
Oven is protected with bi-metal thermal breakers against any improper operation. Bi-metal thermal breaker is placed on the rear left and upper side of the oven chassis for ovens other than the pyro type ovens. It breaks the phase conductor from the supply when the temperature inside the oven reaches a temperature of 350-400°C**.

Warning Lamps



Oven is protected with bi-metal thermal breakers against any improper operation. Bi-metal thermal breaker is placed on the rear left and upper side of the oven chassis for ovens other than the pyro type ovens. It breaks the phase conductor from the supply when the temperature inside the oven reaches a temperature of 350-400°C**.

Switch



Allows operation of components inside the oven such as resistance, hotplate, oven light, fan motor, chicken roasting motor, etc. as desired in electric, turbo and multifunctional ovens. It is connected to the control knobs and operated by their movement.

There are switches in various positions. An electrical thermostat is connected behind the switch in turbo and electric ovens. This does not apply for multifunctional ovens.

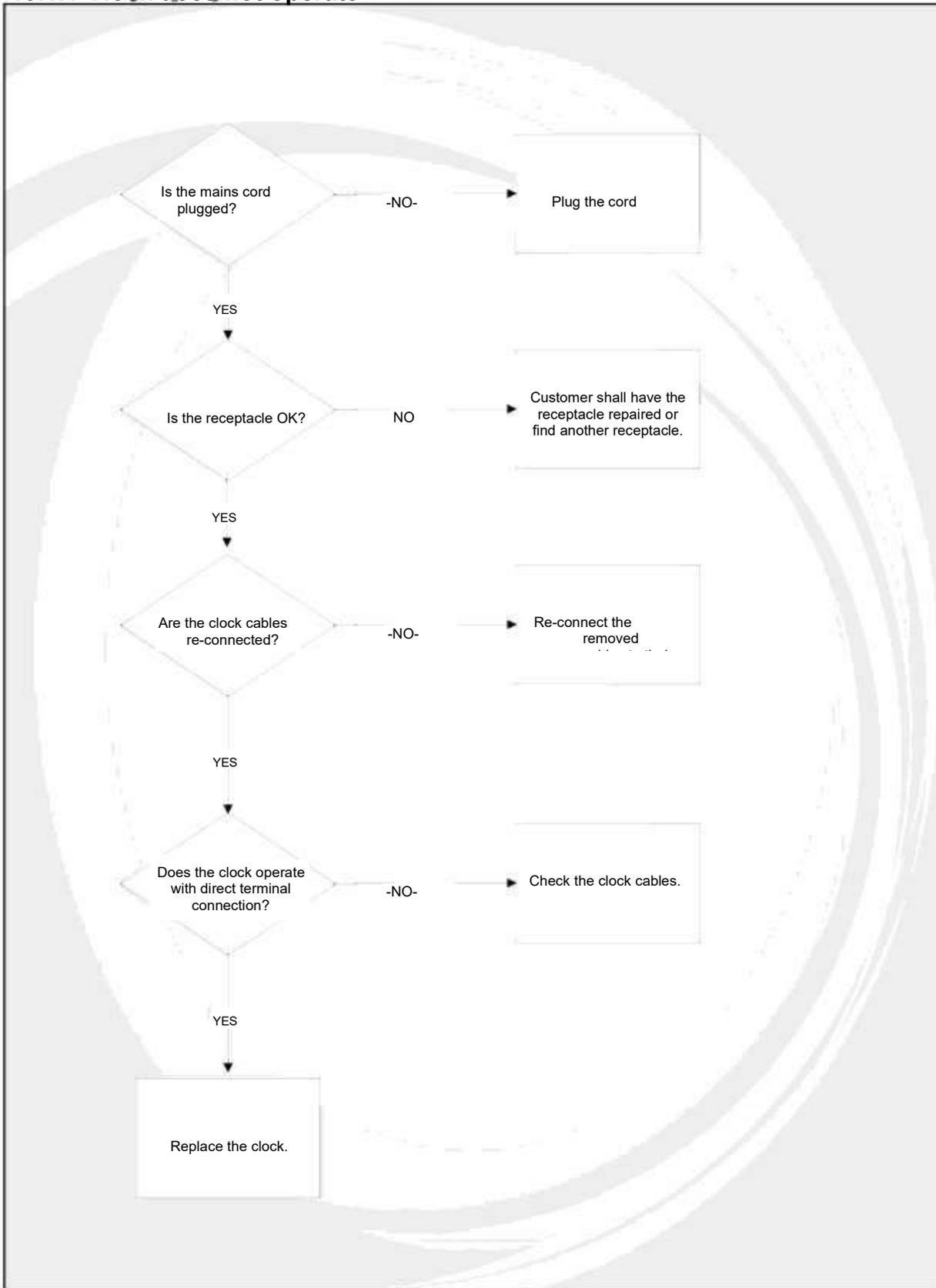
It has been developed to circulate the phase or neutral between the specified stages and the contacts. It short-circuits or open-circuits one or more contacts in every position. Contact currents are 16A.

The switch determines the operating order of the resistances.

10 . FAILURE FLOW CHARTS / TROUBLESHOOTING CHARTS

10.1. Clock Failures

10.1.1 Clock does not operate

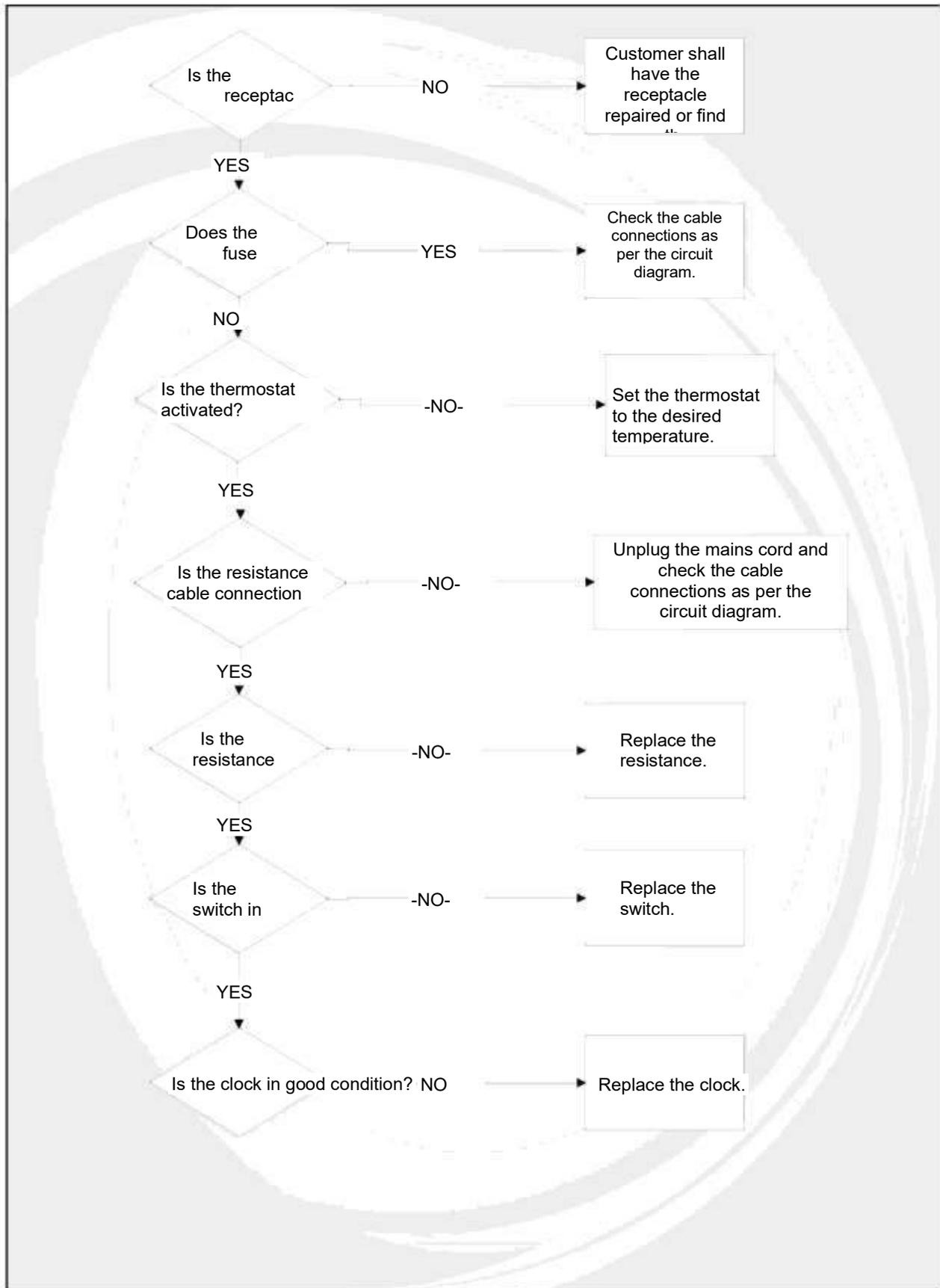


10.1.2 Clock operates, but does not provide control when the thermostat is active



10.2. Resistance Failures

10.2.1 Resistance does not operate, oven does not cook



10.3 Light Failures

10.3.1 Oven operates, but the oven light does not illuminate

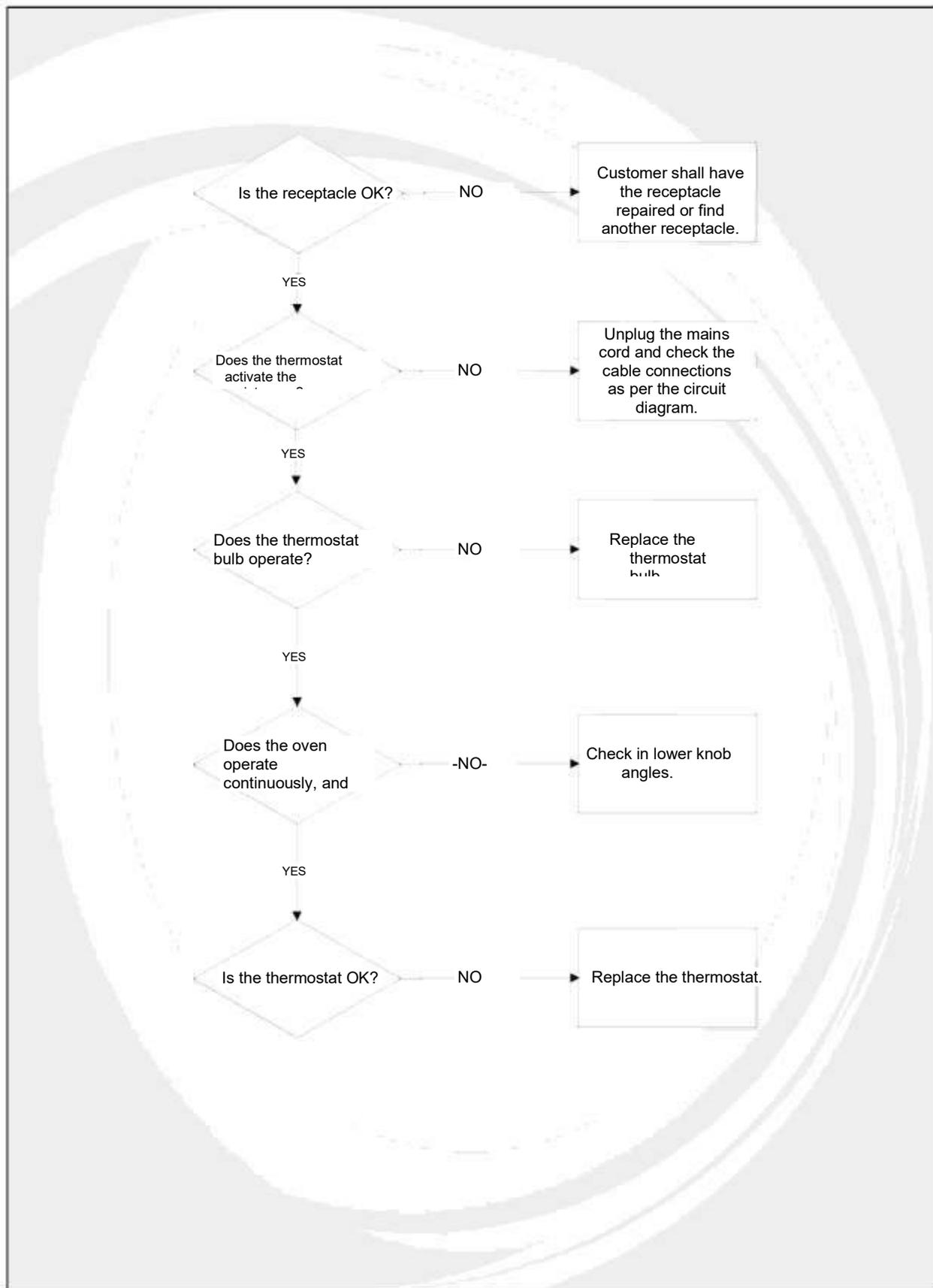


10.3.2 Oven does not operate, and the oven light does not illuminate



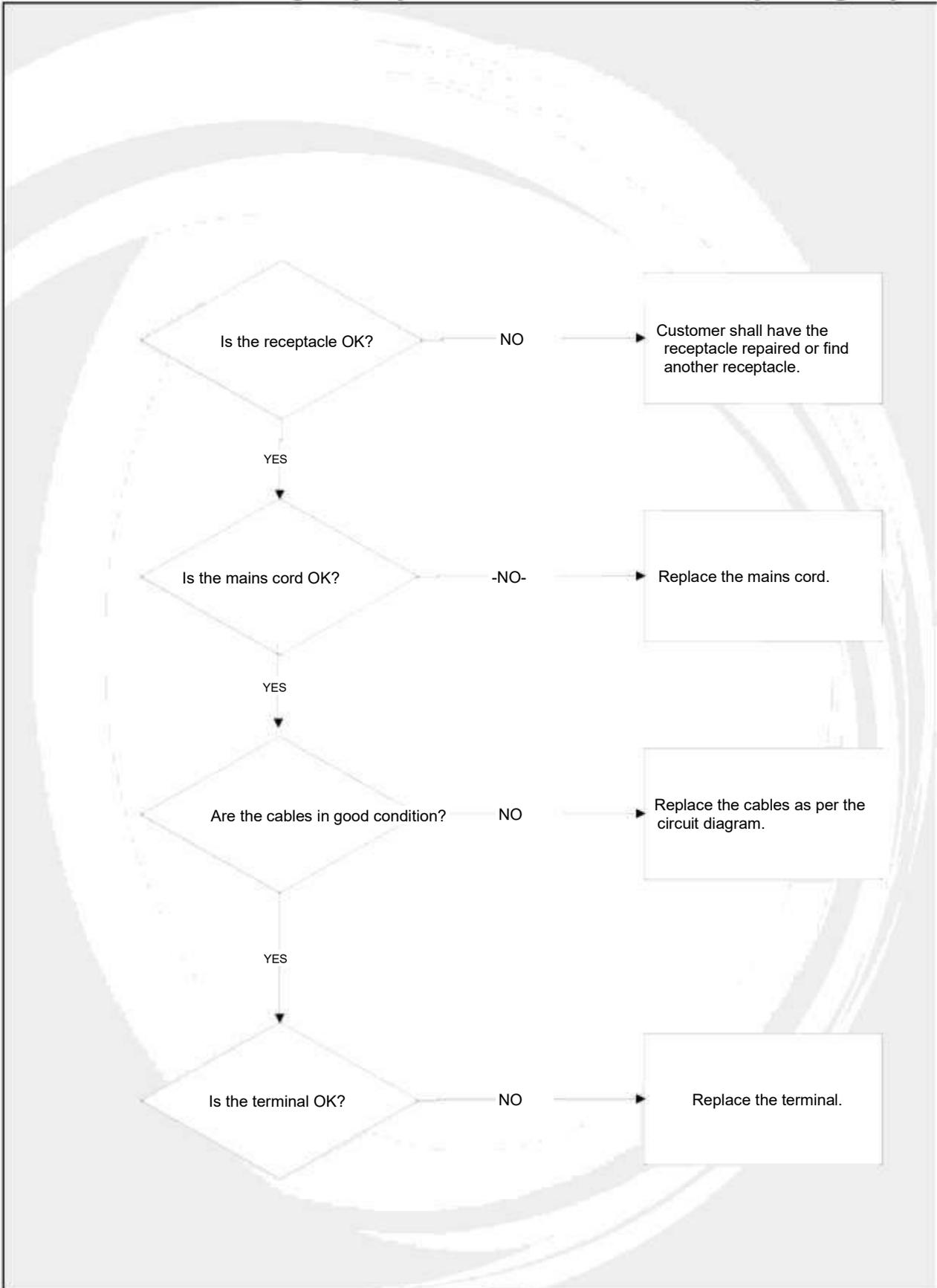
10.4 Thermostat Failures

10.4.1 Oven operates continuously, the thermostat does not break the circuit

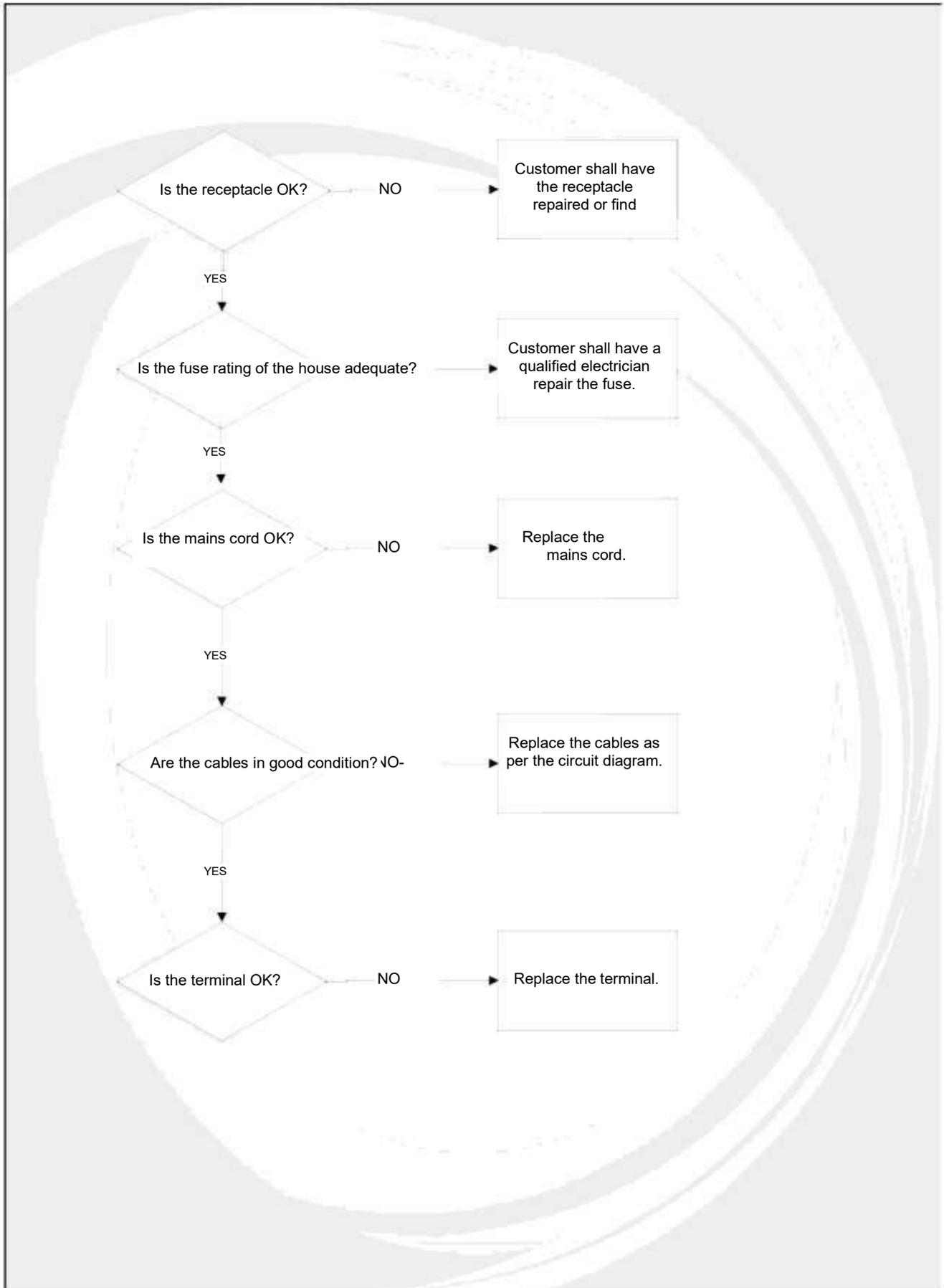


10.5 Connector Malfunctions

10.5.1 Terminal does not receive power or the power is not distributed to the oven from the terminal



10.5.2 Fuse blows when the oven is plugged



11. Measurements To Be Performed for Fault Finding on Components

Components (For 60x60 models)	Power
Lower resistance	1200 W
Turbo resistance	1800 W
Upper resistance / static	1100 W
Grill resistance	2200 W
Grill + upper resistance (1100+1100)	2200 W
Turbo motor	22-26 W
Light	15-25 W

The current and power drawn by the components on the appliance are measured with a multimeter.



Example of a turbo resistance measurement:



Set the multimeter to resistance measurement position to measure the resistance of the turbo resistance. A resistance value shall be displayed on the multimeter if the resistance is OK. If not no value shall be displayed.



If no value is displayed on the multimeter display, this indicates that the resistance is faulty. Remove the wires of the resistance. Touch the probes of the measurement device to the terminals of the resistance.



The fact that a value is displayed on the multimeter display indicates that the resistance is operational.



12. EQUIPMENT TO BE USED FOR ASSEMBLY / DISASSEMBLY OF THE COMPONENTS

Power Screwdriver



2" allen bit



Needle Nose Pliers



Pliers



Socket Wrench (6"/9")



NOTE: The disassembly of the components are described below. Assemble the components in the reverse order of the disassembling process.

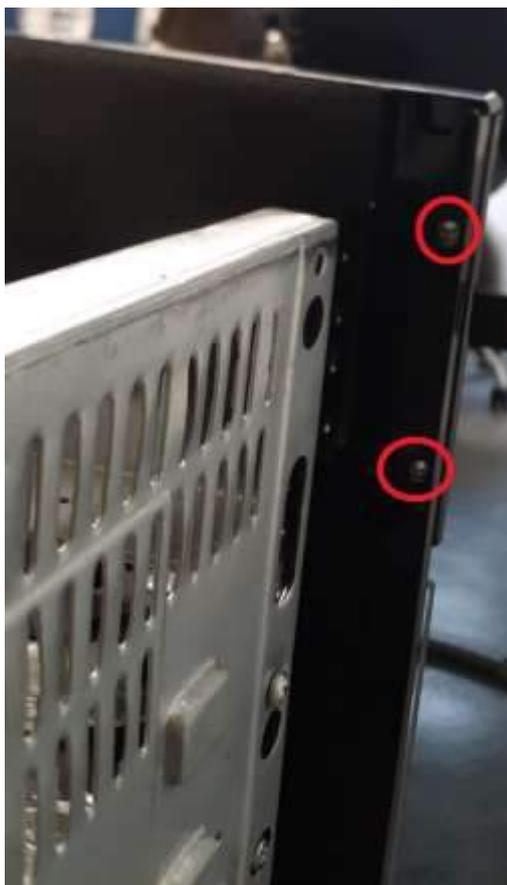
13. ASSEMBLY / DISASSEMBLY OF THE COMPONENTS

13.1 Removal of the Panel

You shall remove the upper wall first before removing the panel. Remove the connection screws of the upper wall with a phillips screwdriver.



The panel is attached to the front profiles with screws. Remove the screws.



Remove the 2 buttons on the panel by pulling them towards you.



Remove the screws that secure the buttons.



To remove the switch from the panel, turn it counterclockwise. Replace the panel with a new one.



13.2 Removal of the switch and thermostat

Remove the cables that connect the switch and thermostat to the board.



To replace the board in the thermostat, remove the 2 screws and replace the board.

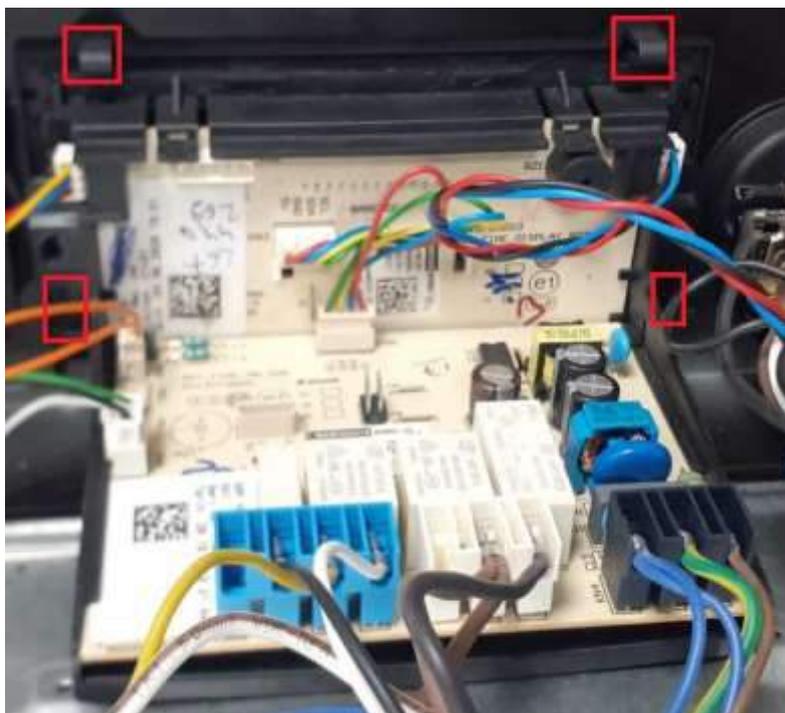


To replace the switch, remove the cables on it, attach the new switch by connecting the cables following the way the cables were removed.



13.5 Replacement of the clock display board and motherboard

Clock display board and clock protection plastic is located at the rear of the panel. Clock protection plastic is connected to the panel with tabs as shown in the figure. Complete the replacement by removing the socket.

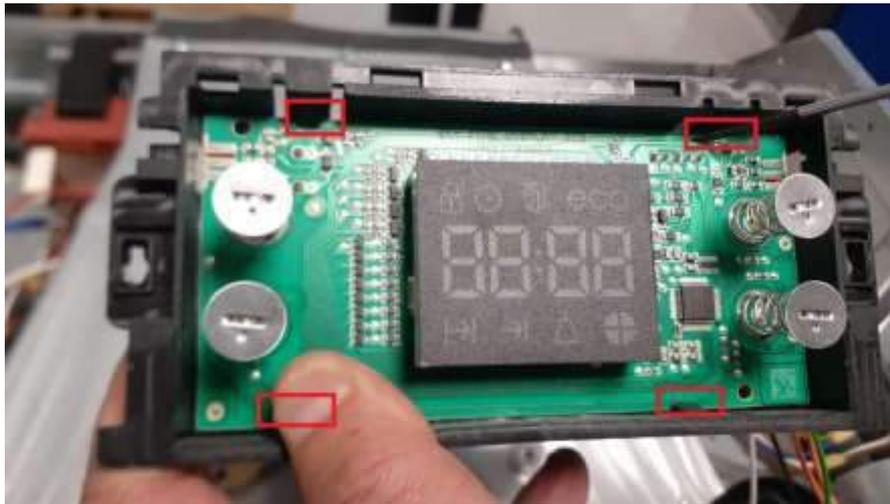
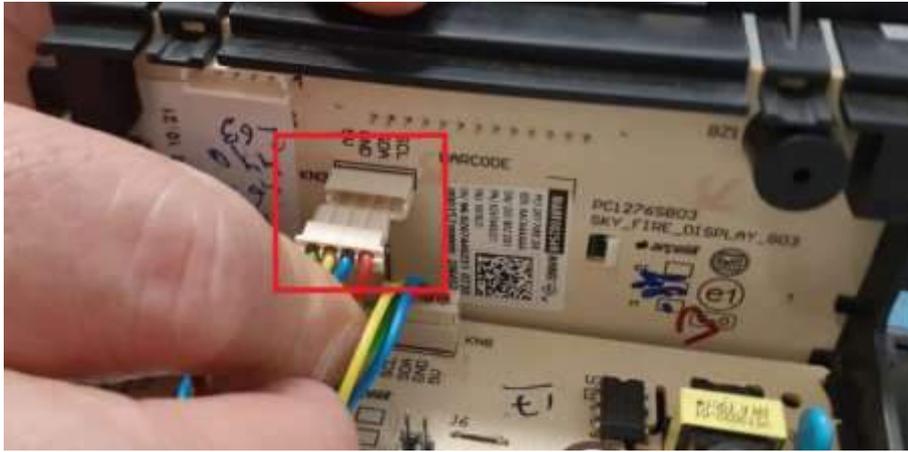


To replace the motherboard, remove the the cables connected to the board by pulling them out. Remove the board by pressing down on the notches shown in the picture to separate the board from the plastic where it is fixed at, complete the replacement.



13.5 Replacement of the display board

Remove the cables connected to the board. Remove the display board by pressing down on the notches on the front side, replace it with a new one.



13.6 Replacement of the front door

Open the front door.



Open it by pressing the tabs on the front door hinge at the left- and right-hand sides as shown in the figure.



Set the front door to its half-open position.



Pull the released door upwards to take it out of the left and right hinges. Perform the replacement.



Note: When attaching the door, do not forget to close the clips on the hinge socket, otherwise the door will not close.

12.6 Installation of the front door

To reattach the removed door, place the door by engaging it to the hinge seats. Then, in the reverse order of removal process, rotate the tabs on the hinge upwards. The door shall be secured to the oven.

Note: The door shall not be closed if the tabs of the hinge are not closed properly.

13.7 Replacing the front door hinge



Remove 2 screws each on the sides of the hinges using a screwdriver after removing the front door.



Remove the hinge released after removing the screws by pulling it out of the hinge seat and replace it with a new one.

13.8 Removal of the glass

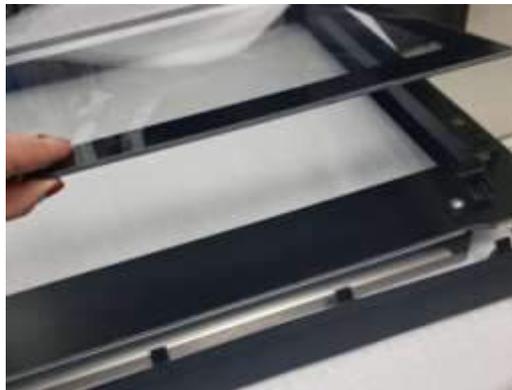
Release the front door as described in the “replacement of the front door” first.



Remove the upper decoration of the door by pulling it towards yourself.



You may replace the glasses after removing the upper decoration.



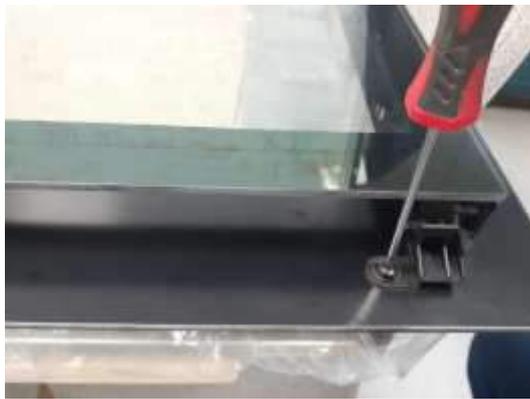
The upper decoration of the front door may be removed as shown in the figure above and may be re-installed when the glasses are replaced.

NOTE: The LOW-E inscription on the upper right corner of the glass is on the upper right corner as shown in the figure. The glass shall be installed so that the LOW-E inscription shall be on the upper right corner as before.

13.10 Replacement of the handle

To do this, first remove the front door.

Remove the 2 screws that secure the handle under the decoration and perform the replacement.



13.11 Replacement of the Upper Wall



Remove the screws securing the upper wall to the oven frame with a screwdriver. Remove the upper wall by lifting it upwards.



13.12 Replacement of the the Bi-metal Thermostat

There are 2 pieces of bi-metal on the upper part of the oven.

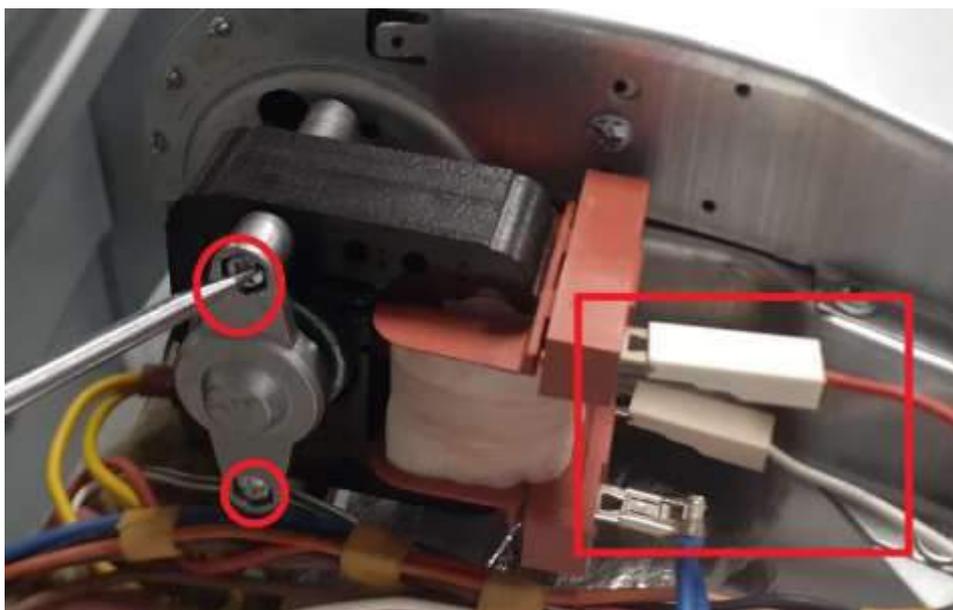


To remove the bi-metal parts, remove the screws and cables which they are connected to, and replace them. It is important that the cables are installed the same way.



13.13 Replacement of the cooling motor

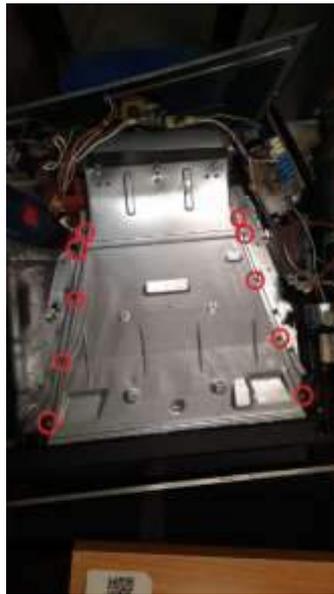
To remove the cooling (ventilation) motor on the frame, remove the cables connected to the motor. Complete the replacement by removing the screws that secure the motor.



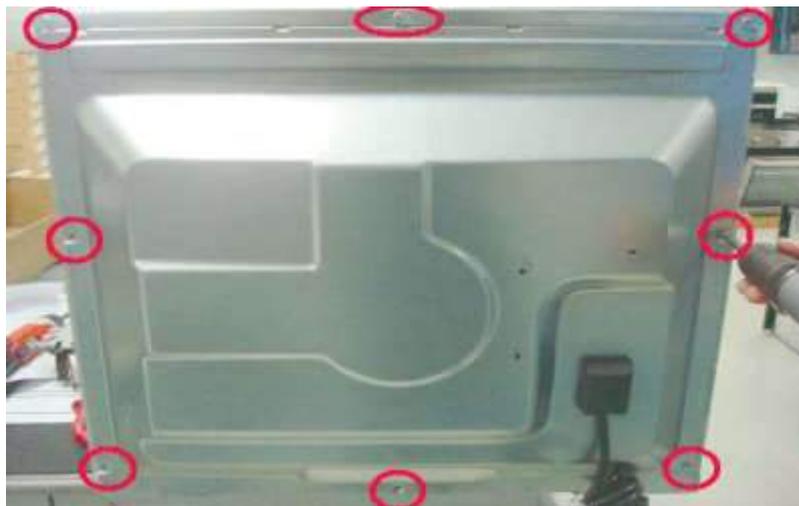
13.14 Replacement of the ventilation plate

You shall remove the upper wall of the oven first for this procedure.

Remove the screws that secure the plate to the frame, complete the replacement.



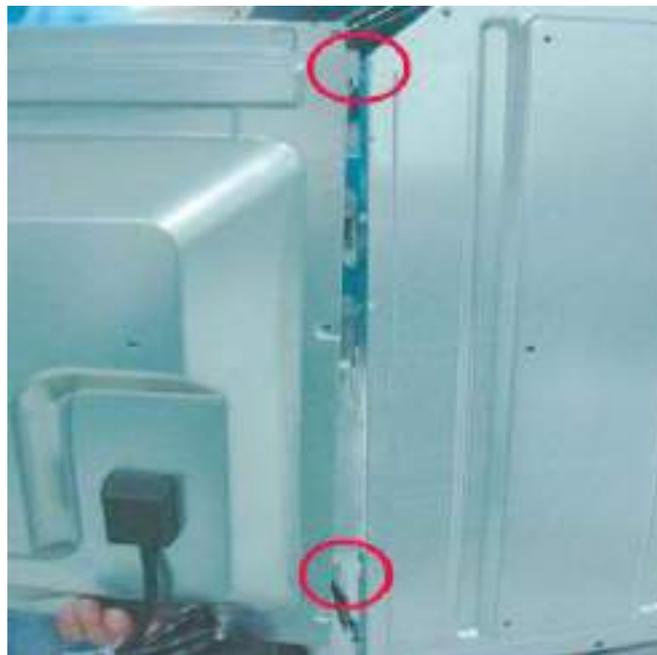
13.16 Removal of the rear wall



Remove the screws that fasten the rear wall to the oven.



The rear wall of the oven shall be opened sideways.



Remove the cover that is opened sideways by pulling it out from the notches marked in the figure.

13.17 Removal of the side decorations



To remove the side decorations on the right and left of the oven, first remove the side walls. Then remove 3 screws on each of the profiles. Replace the profiles with new ones by removing them from the tabs.

13.18 Replacement of the base lower plate



Remove a total of 10 screws located on the bottom plate of the oven base, on the sides and bottom.



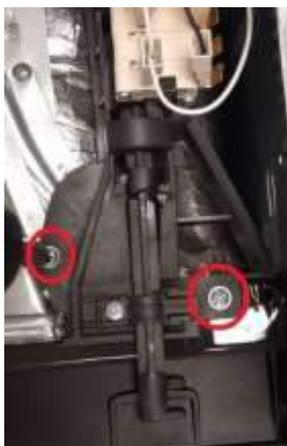
Remove it from the sections of the base lower plate that pass through to the frame as shown in the photo.



13.19 Replacement of the switch

It is necessary to remove the upper wall first to remove the switch.

Remove 2 screws the switch is connected to



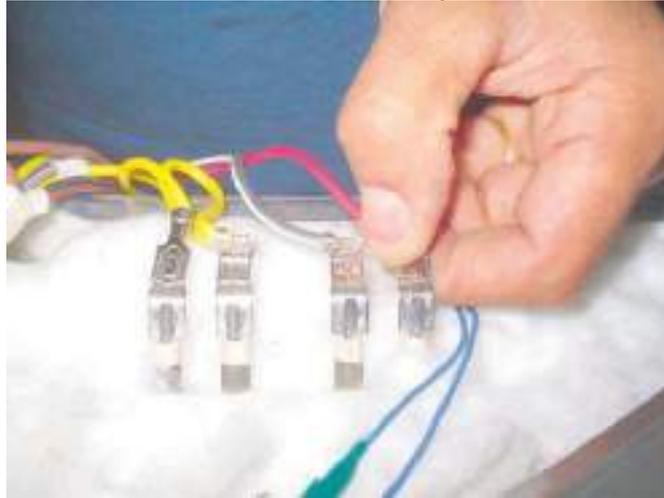
Then replace the switch by releasing it from the notch that secures the switch to the side wall.



NOTE: It is important to reattach the cables which the door switch is connected to, as they were removed.

13.21 Replacement of the grill resistance

Remove the upper and rear wall of the oven first for this procedure. Then;



Remove the electric cables of the resistance respectively.



Remove the 2 screws that connect the grill resistance to the oven frame using a screwdriver.



Open the front door and remove the 2 screws that connect the grill resistance to the frame wall.



Remove the remaining grill resistance from the front (from inside the frame). Then insert the terminals of the new resistance according to the circuit diagram and close the rear wall.

13.22 Replacement of the oven resistances

Remove the rear walls of the oven first for this procedure. Then;



Remove the electric cables of the lower resistance respectively.



Remove the connection screws of the resistance with a screwdriver.



Remove the connection screws of the resistance with a screwdriver.



Remove the lower resistance of the oven, which has a sliding mechanism, by pulling it towards you.

13.23 Replacement of the turbo resistance

Remove the upper and rear walls of the oven first for this procedure. Then;



Remove the electric cables of the turbo resistance respectively.



Remove fan protection sheet by removing the two screws.



Release the turbo resistance by removing the 2 screws that connect the turbo resistance to the chassis.



Take the turbo resistance out of the oven. Then, install the terminals of the new resistance and Disconnect the cables of the turbo resistor one by one. Install according to the wiring diagram and close the back wall.

13.24 Replacement of the oven frame gasket

Open the front door of the oven first to remove the gasket. Remove the gasket engaged to the frame with notches from specified points and replace it with a new one.



13.25 Replacement of the turbo motor

Remove the upper and rear walls of the oven and the fan protection sheet first for this procedure. Then;



Remove the electric cables of the turbo motor respectively.



Remove the nut of the turbo fan with a pliers and remove the fan.



Replace the turbo motor by removing the screws that connect the turbo motor to the frame. Then, install the terminals of the new turbo motor as per the circuit diagram and close the rear wall.

13.28 Replacement of the PT 500

To do this, first remove the rear wall.

Disconnect the cable the PT500 is connected to from its socket.



Remove the screw that secures it to the rear frame. Replace it by pulling the PT500 out from the inside of the oven.



13.26 Replacement of the terminal

Remove the rear wall first for this procedure. Then;



Open the terminal cover.

Remove the screws on the right and left (marked in the picture) inside the box connecting the terminal to the rear wall using a screwdriver. Remove the cables of the terminal inside the rear wall.



Remove the terminal from the wall and replace it with a new one, and perform the electrical connection as per the circuit diagram.

13.28 Replacement of the oven lamp



To replace the light only in the receptacle+light+glass assembly inside the oven, remove the glass by rotating it.



Replace the light inside the oven with a new one.



To replace the oven lamp together with receptacle+lamp+glass assembly, remove the socket on the upper side of the oven by releasing it from its tabs and rotating it.

14. EXPANDED IMAGES

You may access the expanded images of the product from the e-library or manusoft.

15. SERVICE PARTS LIST

You may access the service parts list of the product from the e-library or manusoft.

Envelope IV