

Technical documentation for Eco-design

Product : Built-in Oven

Model : B500 Series



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Part 1. General information

1. Product

- Product name : Built-in Oven
- Model name : B500 Series



2. Explanation of series (or derivation) model of the same product

This technical documentation covers series (or derivation) model [B500 Series] which has same conceptual design and manufacturing drawing and the series (or derivation) model [B500 Series] have same high risk parts and applications exempted under RoHS.

Add up model	Date
WS5D7230G	18/02/2024
WS5D7230S	18/02/2024

3. Manufacturer

- Company name : LG Electronics Inc.
- Address : LG Twin Towers, 128 Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Korea

Part 1. General information

4. Information on technical documentation

- Issued date (DD/MM/YYYY) : 18/02/2025
- Revision Date (DD/MM/YYYY) :
- Revision number (if applicable) :
- Written by : Hanil, Park
- Reviewed by : Im Soo, Cho

Revision No.	Revision summary	Issued date

Part 2. Information relevant for non-destructive disassembly for maintenance purposes and for dismantling, recycling, recovery and disposal at end-of-life

1. Disassembly, assembly and repairing policy

When separating pre-separated parts and materials from the product, they can be separated using only ordinary tools. Designed in consideration of the minimization of the type of fastening to increase fastening to facilitate disassembly and dismantling.

2. How to disassemble/dismantle parts

- Power Cord

REMOVING THE POWER CORD

⚠ WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
- **Replace** all panels and parts before operating.
- **RECONNECT** all grounding devices.
- Failure to do so can result in severe personal injury, death or electric shock.

⚠ CAUTION

- **Be careful** when you work on the electric range handling the sheet metal part.
- Sharp edges may be present and you can cut yourself.

1. Turn off the electrical supply going to the range.
2. Use Phillips screwdriver to remove terminal block cover.



3. Remove 4 ea screw from the terminal block.



2. How to disassemble/dismantle parts

- Top Cover

REMOVING THE TOP COVER

WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
- **Replace** all panels and parts before operating.
- **RECONNECT** all grounding devices.
 - Failure to do so can result in severe personal injury, death or electric shock.

CAUTION

- **Be careful** when you work on the electric range handling the sheet metal part.
 - Sharp edges may be present and you can cut yourself.

1. Turn off the electrical supply going to the range.

2. To remove the top cover, remove 11 ea screw from the top cover.



2. How to disassemble/dismantle parts

- Terminal Block

REMOVING THE TERMINAL BLOCK

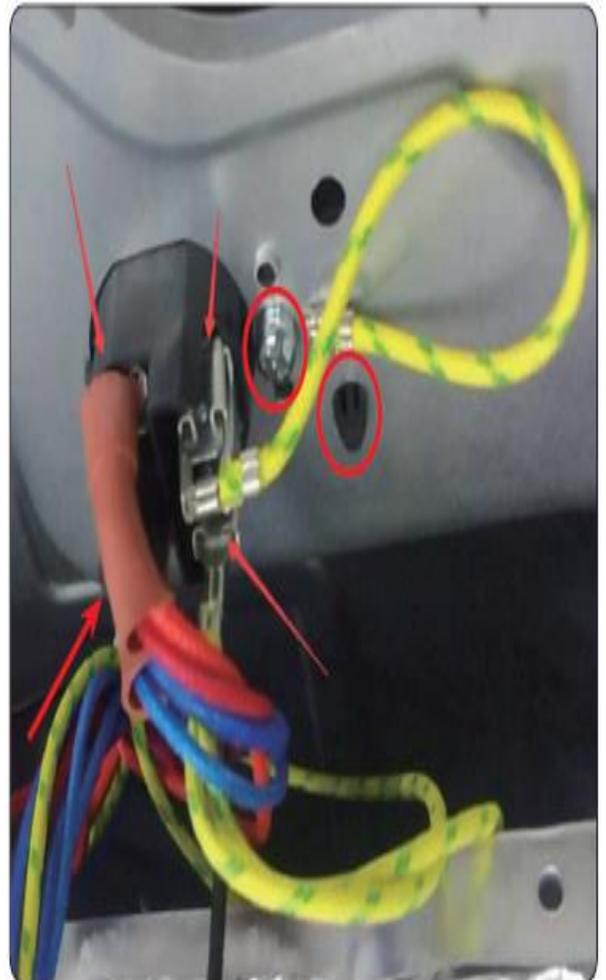
WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
- Replace all panels and parts before operating.
- **RECONNECT** all grounding devices.
 - Failure to do so can result in severe personal injury, death or electric shock.

CAUTION

- Be careful when you work on the electric range handling the sheet metal part.
 - Sharp edges may be present and you can cut yourself.

3. Unplug the relevant wirings like the picture below and remove 1 ea screw.
4. While pressing the hook , pull the overall box gradually out.



1. Turn off the electrical supply going to the range.
2. Remove the top cover.

2. How to disassemble/dismantle parts

- Rear Cover

REMOVING THE REAR COVER

⚠ WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
- Replace all panels and parts before operating.
- **RECONNECT** all grounding devices.
- Failure to do so can result in severe personal injury, death or electric shock.

⚠ CAUTION

- Be careful when you work on the electric range handling the sheet metal part.
- Sharp edges may be present and you can cut yourself.

1. Turn off the electrical supply going to the range.
2. Remove the TOP COVER.
3. To remove the rear cover, remove 7 ea screws from the rear cover.



2. How to disassemble/dismantle parts

- Main PCB

REMOVING THE MAIN PCB

⚠ WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
- **Replace all panels and parts before operating.**
- **RECONNECT** all grounding devices.
- Failure to do so can result in severe personal injury, death or electric shock.

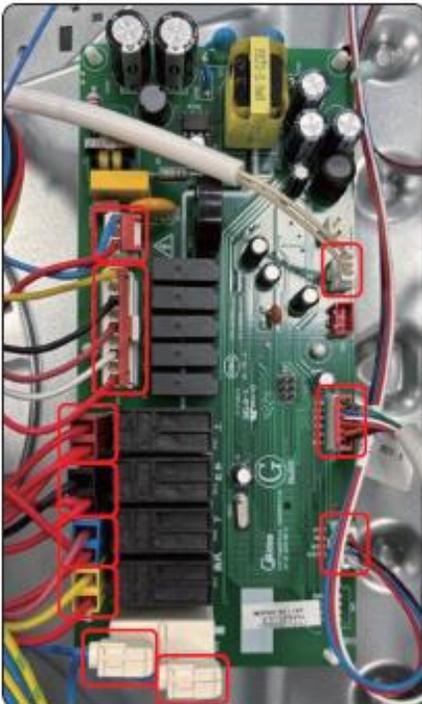
⚠ CAUTION

- **Be careful when you work on the electric range handling the sheet metal part.**
- Sharp edges may be present and you can cut yourself.

4. Pull out the PCB while pulling the 6 hooks.



1. Turn off the electrical supply going to the range.
2. Remove TOP COVER.
3. To remove the Main PCB, disconnect the 11 ea housings.



2. How to disassemble/dismantle parts

- Controller

REMOVING THE CONTROLLER

⚠ WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
- Replace all panels and parts before operating.
- **RECONNECT** all grounding devices.
 - Failure to do so can result in severe personal injury, death or electric shock.

⚠ CAUTION

- Be careful when you work on the electric range handling the sheet metal part.
 - Sharp edges may be present and you can cut yourself.

1. Turn off the electrical supply going to the range.
2. Remove TOP COVER.
3. Remove the control knob (2 ea).



4. Remove 2 screw on the left and right sides.



5. Disconnect the 1 ea housing.



2. How to disassemble/dismantle parts

- Side Panel

REMOVING A SIDE PANEL

⚠ WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
- **Replace all panels and parts before operating.**
- **RECONNECT** all grounding devices.
 - Failure to do so can result in severe personal injury, death or electric shock.

⚠ CAUTION

- **Be careful when you work on the electric range handling the sheet metal part.**
 - Sharp edges may be present and you can cut yourself.

1. Turn off the electrical supply going to the range.
2. Remove TOP COVER.
3. Remove REAR COVER.
4. Remove the 4 screws and repeat on the opposite side.
5. When disassembling the auxiliary panel, remove the left and right center screws.



2. How to disassemble/dismantle parts

- Cooling Motor, Rocking Module & Thermostat

REMOVING THE COOLING MOTOR, ROCKING MODULE AND THERMOSTAT

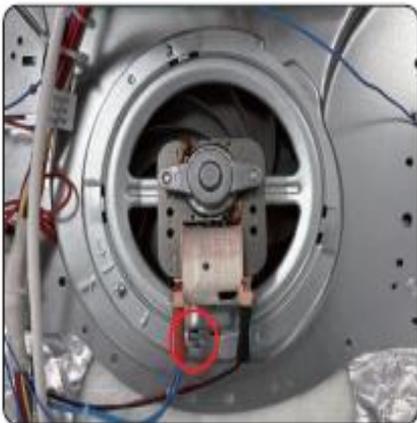
⚠ WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
- **Replace** all panels and parts before operating.
- **RECONNECT** all grounding devices.
- Failure to do so can result in severe personal injury, death or electric shock.

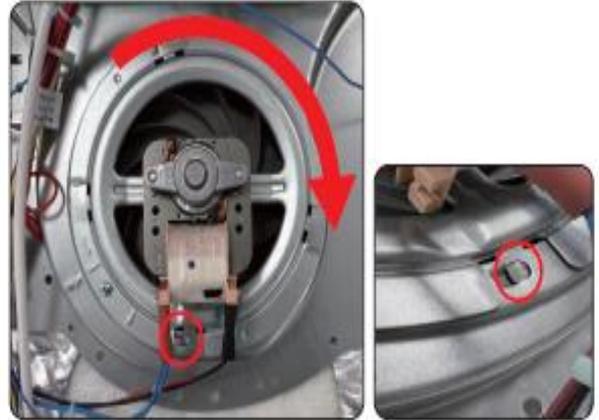
⚠ CAUTION

- **Be careful** when you work on the electric range handling the sheet metal part.
- Sharp edges may be present and you can cut yourself.

1. Turn off the electrical supply going to the range.
2. Remove TOP COVER.
3. Remove the 1 ea screw.



4. To remove the cooling motor, Use screw driver to press the hook and turn it clockwise simultaneously.



5. To remove the thermostat, disconnect housing and remove the 1 ea screw. (Left: Back thermostat (180°C) / Right: Upper thermostat (150°C))



2. How to disassemble/dismantle parts

- Broil Element (Sheath Heater)

REMOVING THE BROIL ELEMENT (SHEATH HEATER)

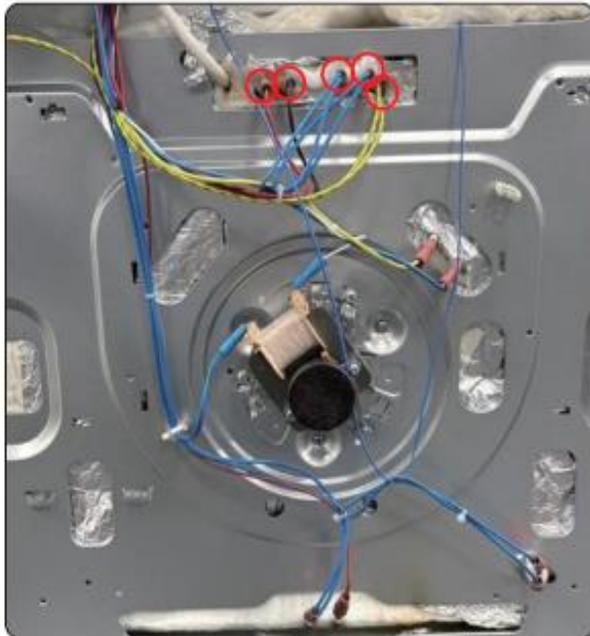
⚠ WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
- **Replace all panels and parts before operating.**
- **RECONNECT** all grounding devices.
 - Failure to do so can result in severe personal injury, death or electric shock.

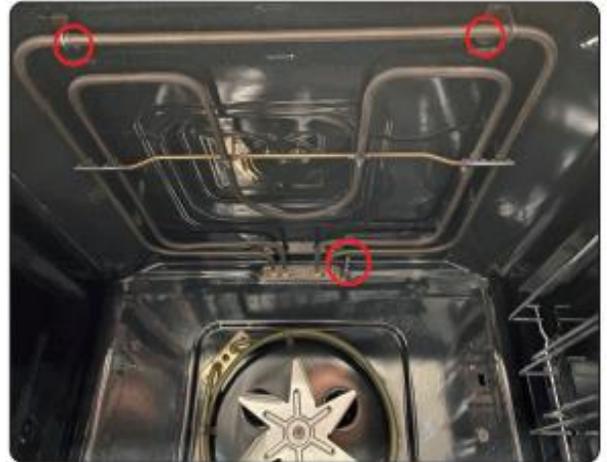
⚠ CAUTION

- **Be careful when you work on the electric range handling the sheet metal part.**
 - Sharp edges may be present and you can cut yourself.

1. Turn off the electrical supply going to the range.
2. Remove the **OVEN DOOR** and remove the accessories from inside the oven.
3. After removing the **REAR COVER** (page 2-3), unplug the 4 ea wires and ground with nut.



4. Remove the 3 ea screws.



2. How to disassemble/dismantle parts

- Bake Element (Sheath Heater)

REMOVING THE BAKE ELEMENT (SHEATH HEATER)

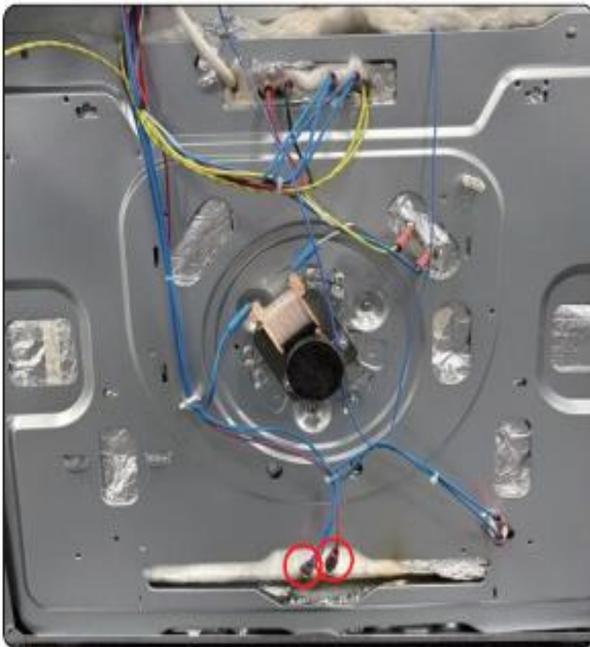
⚠ WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
- Replace all panels and parts before operating.
- **RECONNECT** all grounding devices.
 - Failure to do so can result in severe personal injury, death or electric shock.

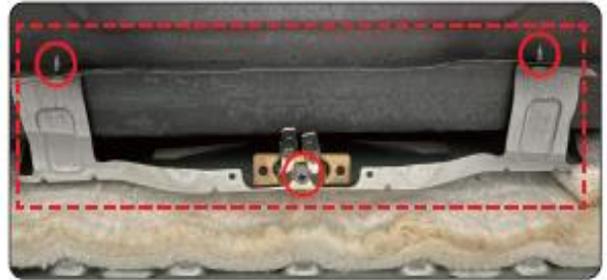
⚠ CAUTION

- Be careful when you work on the electric range handling the sheet metal part.
 - Sharp edges may be present and you can cut yourself.

1. Turn off the electrical supply going to the range.
2. After removing the REAR COVER, unplug the 2 ea wires.



3. Remove the 3 ea screw and pull the element forward.



2. How to disassemble/dismantle parts

- Convection Element, Fan Blade, Fan Motor

REMOVING THE CONVECTION ELEMENT, FAN BLADE AND FAN MOTOR

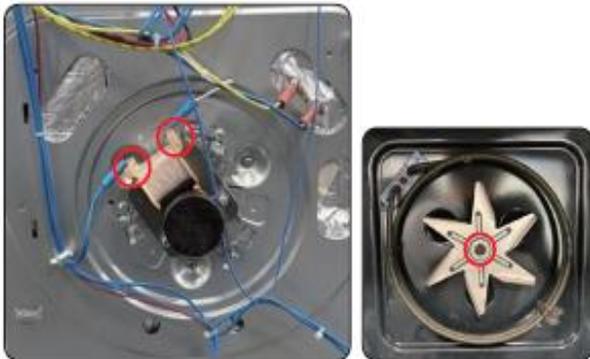
1. Disconnect power and remove oven racks.
2. Remove the DOOR and REAR COVER.
3. Remove the 3 ea fan cover screws and Remove the fan cover by sliding it opposite the two hooks on the right.



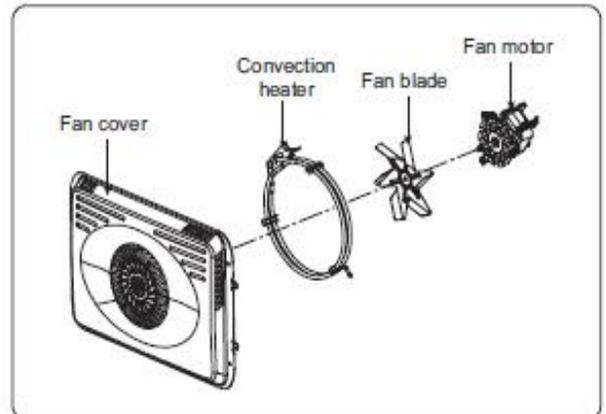
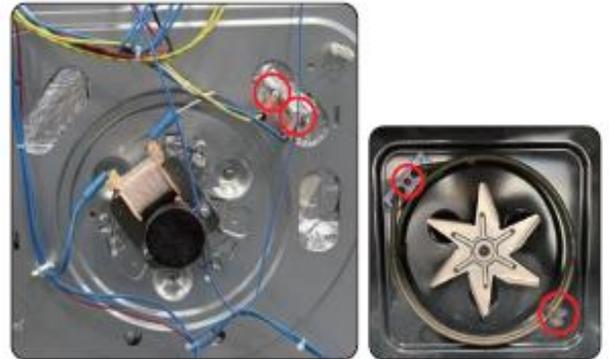
CAUTION

- Be careful not to bend the fan blade
- Failure to do so can result in vibration, noise, and poor convection performance when operating.

4. To remove the convection motor and fan blade.
 - a) Use a spanner or a nut-driver to rotate the nut on the convection motor clockwise.
 - b) Unplug the 2 ea wires and 3 ea bracket screws from the convection motor.



5. To remove the convection heater,
 - a) Unplug the 2 ea wires from the convection heater.
 - b) Remove 1 ea screw and pull out the hook from inside oven.



2. How to disassemble/dismantle parts

- Oven Light, Socket

REMOVING THE OVEN LIGHT & SOCKET

WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
- Replace all panels and parts before operating.
- **RECONNECT** all grounding devices.
 - Failure to do so can result in severe personal injury, death or electric shock.

CAUTION

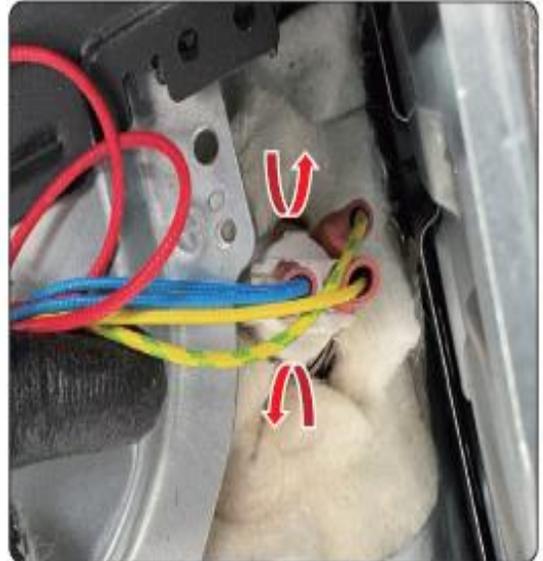
- Be careful when you work on the electric range handling the sheet metal part.
 - Sharp edges may be present and you can cut yourself.

1. Turn off the electrical supply going to the range.
2. Turn the glass bulb cover counterclockwise to remove.
3. Pull the bulb out of the socket.

Glass cover & Bulb



4. Use a screwdriver to press and remove the clip underneath the oven light socket.



2. How to disassemble/dismantle parts

- Motor & Micro Switch

REMOVING THE LOCKER ASSEMBLY (MOTOR & MICRO SWITCH)

⚠ WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
- **Replace** all panels and parts before operating.
- **RECONNECT** all grounding devices.
- Failure to do so can result in severe personal injury, death or electric shock.

⚠ CAUTION

- **Be careful** when you work on the electric range handling the sheet metal part.
- Sharp edges may be present and you can cut yourself.

1. Turn off the electrical supply going to the range.
2. After removing the TOP COVER unplug the 1 ea housing , 1 ea wire and remove the 2 ea screws.



2. How to disassemble/dismantle parts

- Oven Temperature Sensors

REMOVING THE OVEN TEMPERATURE SENSORS

⚠ WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
- **Replace** all panels and parts before operating.
- **RECONNECT** all grounding devices.
- Failure to do so can result in severe personal injury, death or electric shock.

⚠ CAUTION

- **Be careful** when you work on the electric range handling the sheet metal part.
- Sharp edges may be present and you can cut yourself.

4. Remove 1 ea nut and pull out the oven temperature sensor.



1. Turn off the electrical supply going to the range.
2. Remove the DOOR and REAR COVER.
3. Remove 1 ea wire on the Main PCB.



2. How to disassemble/dismantle parts

- Oven Door

REMOVING & REPLACING THE LIFT-OFF OVEN DOOR

CAUTION

- Be careful when removing and lifting the door.
- DO NOT lift the door by the handle. The door is very heavy.

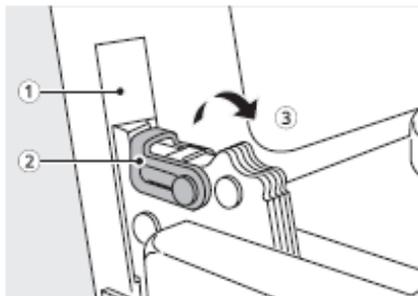
Removing the Oven Door

Step. 1

Fully open the door.

Step. 2

Lift up the hinge lock ② and flip it towards the hinge arm ③ completely.

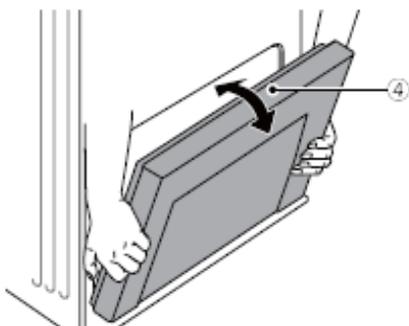


Step. 3

Firmly grasp both sides of the door at the top.

Step. 4

Partially close the door to approximately 70 degrees ④. If the position is correct, the hinge arms will move freely.



Step. 5

Lift and pull the door towards you until the hinge latches are completely loosened.

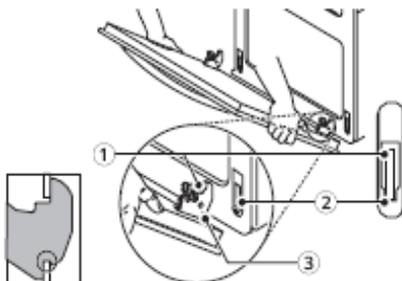
Assembling the Oven Door

Step. 1

Firmly grasp both sides of the door at the top.

Step. 2

Fully insert the hinge arms A into the slots ② until the indentations ① on the hinge arms rest on the bottom edges of the slots.

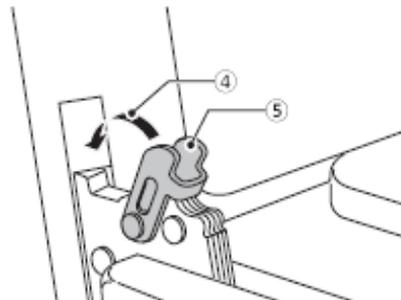


Step. 3

Slowly open the door fully. Make sure that the hinge arms are properly engaged in the slots.

Step. 4

Lift up the hinge lock ⑤ and flip it towards the oven ④ until it clicks into position.



Step. 5

Close the door.

2. How to disassemble/dismantle parts

- Oven Door Cover & Glass

REMOVING AND ASSEMBLING THE OVEN DOOR COVER & GLASS

⚠ WARNING

- **DISCONNECT** power supply cord from the outlet before servicing.
 - **Replace** all panels and parts before operating.
 - **RECONNECT** all grounding devices.
- Failure to do so can result in severe personal injury, death or electric shock.

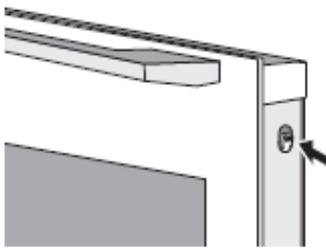
⚠ CAUTION

- **Be careful** when you work on the electric range handling the sheet metal part.
- Sharp edges may be present and you can cut yourself.

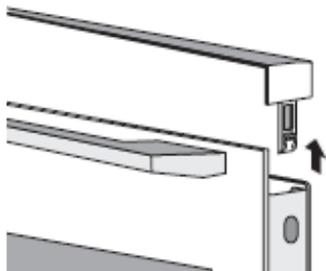
Removing the Door Cover

The plastic inlay in the door cover may become discoloured. Remove the door cover if necessary to carry out a thorough cleaning.

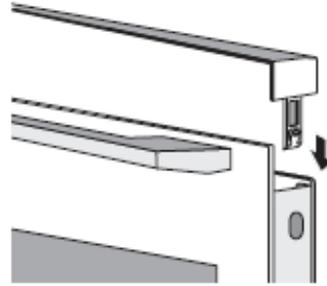
1. Remove the appliance door first before removing the door cover. Press the lockers on both sides of the cover.



2. Remove the cover.



3. After removing the door cover, the rest parts of the appliance door can be easily taken off so that you can go on with the cleaning. When the cleaning of the appliance door has finished, put the cover back in place and press the lockers until they clicks audibly into place.



⚠ CAUTION

- Do not remove the door cover without the appliance door removed beforehand. Damage caused by incorrect operation is not covered under warranty.
- Keep your hands away from the hinges when removing the door cover and inner glass and/or closing the door.

NOTE

- Once the door cover is removed, the inner glass can be easily moved and it can cause damage and/or injury.
- Remove the door cover and inner glass to reduce the overall weight of the appliance door.
- When assembling the inner glass, the black dot should be facing the top toward the inside of the oven.

2. How to disassemble/dismantle parts

- Oven Door Gasket

REMOVING & REPLACING THE OVEN DOOR GASKET

⚠ WARNING

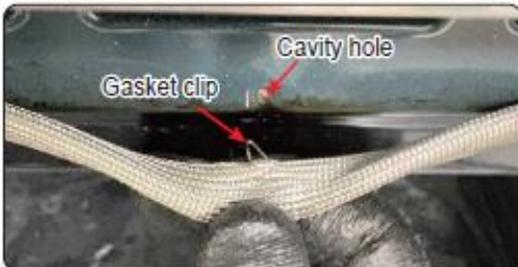
- **DISCONNECT** power supply cord from the outlet before servicing.
- **Replace** all panels and parts before operating.
- **RECONNECT** all grounding devices.
- Failure to do so can result in severe personal injury, death or electric shock.

⚠ CAUTION

- **Be careful** when you work on the electric range handling the sheet metal part.
- Sharp edges may be present and you can cut yourself.

Removing the Oven Door Gasket

1. Open the oven door to its fully down position.
2. Pull the oven door gasket clips out of the cavity holes until all of the clips are removed.



REASSEMBLY NOTE: When you install the new gasket, make sure that all of the clips are seated in their liner holes. Assemble the gasket junction underneath the cavity.

Assembling the Oven Door Gasket

1. Open the oven door to its fully down position.



2. Insert the oven door gasket clips into the holes.



3. Recycle policy information

- Product

Old electrical products can contain hazardous substances so correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.

Your old appliance may contain reusable parts that could be used to repair other products, and other valuable materials that can be recycled to conserve limited resources.

You can take your appliance either to the shop where you purchased the product, or contact your local government waste office for details of your nearest authorised WEEE collection point. For the most up to date information for your country please see www.lg.com/global/recycling