

SAMSUNG

FREESTANDING GAS RANGES

MODELS AND
MODEL CODES: DOP36M96GL*

SERVICE *Manual*

GAS RANGES



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2. Specifications
3. Disassembly and Reassembly
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1. Precaution

1-1 Forward

This SAMSUNG Service Manual, "Freestanding Gas Ranges," provides the technician with information on the operation and service of freestanding self-cleaning gas ranges. It is to be used as a training service manual. For specific information on the model being serviced, refer to the user manual or tech sheet provided with the gas range.

1-2 Safety Precautions

- Repairs of the appliance should be carried out by a licensed technician only. Incorrect repairs may result in dangerous situations. If you need repairs, contact an SAMSUNG Service Center or your dealer.
- If the power cord is defective, it must be replaced by a licensed technician with a UL-listed range cord.
- If the gas supply is damaged or defective, it must be replaced by a licensed technician or gas supplier.
- Electrical leads and cables should not be allowed to touch the oven.
- Rating plate is located on the left side of the opening for the warming drawer or storage drawer.
- The gas and electrical supplies to the appliance should be turned off and/or disconnected when the range is being serviced or repaired.



WARNING

- To avoid risk of death or severe personal injury from electrical shock, disconnect power before working on/ servicing the appliance.
- To avoid risk of death, severe personal injury, or property damage from fire or explosion, turn off the gas supply before working on/servicing the appliance. **IF YOU SMELL GAS:**
 1. **DO NOT** light a match, candle, or cigarette.
 2. **DO NOT** turn on any gas or electric appliances.
 3. **DO NOT** touch any electrical switches.
 4. **DO NOT** use any type of phone in the building.
 5. Clear the room, building, or area of all occupants.
 6. Immediately call the gas supplier from a phone outside of the building. Follow the gas supplier's instructions.
 7. If you cannot reach the gas supplier, call the fire department.
- To avoid risk of death, severe personal injury, or property damage from fire or explosion, do not wear loose-fitting, or hanging garments near an open flame during operation and/or servicing the appliance.
- When the oven operates, the interior parts will be very hot.

SAMSUNG Electronics assumes no responsibility for any repairs made on our products by anyone other than licensed technicians.

1. Precaution

1-3 Important Safety Instructions

Read and follow all instructions before using or servicing the range to prevent death, personal injury, fire, explosion, and/or property damage. This guide does not cover every possible condition that may occur. For further assistance, contact a licensed technician or the manufacturer.

All electrical and gas equipment and their moving parts can be dangerous. Please read the important safety information on the appliance and in this manual. The information must be followed to minimize the risk of death, personal injury, and/or property damage.



This is the safety alert symbol. It alerts you of potential hazards that can kill or injure you or others. The following safety messages explain the potential hazards:



DANGER

Hazardous situation that will result in death and/or serious personal injury.



WARNING

Hazardous situation that could result in death, serious personal injury, and/or property damage.



CAUTION

Hazardous situation that may result in moderate personal injury, and/or property damage.

- Be sure your appliance is properly installed and grounded by a licensed technician.
- Do not repair or replace any part of the appliance unless specifically recommended in the manual. All other servicing should be referred to a licensed technician.
- Always disconnect power to the appliance before servicing by turning off the circuit breaker or removing the fuse.
- Always turn off the main gas supply to this appliance before servicing by closing the gas supply valve to this appliance.
- Always check gas fittings and components for leaks before servicing the appliance. If a leak is detected, shut off the gas supply and notify a licensed technician and/or gas supplier.



WARNING



- INJURIES CAN OCCUR IF THE RANGE TIPS



- INSTALL ANTI-TIP DEVICE PACKED WITH RANGE

- FOLLOW ALL INSTALLATION INSTRUCTIONS

To reduce the risk of tipping the range, the range must be secured by a properly installed anti-tip device. To check if the bracket is installed properly:

- Warming drawer: Grasp the top rear edge of the range and carefully attempt to tilt it forward. Verify that the anti-tip device is engaged.
- Storage drawer: Remove drawer and verify leveling leg is inserted into and fully secured by the anti-tip device.

Refer to the installation manual for proper anti-tip bracket installation.

- Do not step, lean, or sit on the doors of the range. This can cause the range to tip, resulting in burns or serious injuries.



WARNING

• DO NOT TOUCH SURFACE BURNERS, SURFACE BURNER GRATES, OVEN BURNERS, INTERIOR SURFACES OF OVEN, OR WARMING DRAWER HEATING ELEMENT

- Burners, heating element, and surfaces may be hot even though they are dark in color. Interior surfaces of an oven become hot enough to cause burns. During and after use, do not touch or let clothing or other flammable materials contact burners, heating element, grates, or interior surfaces of oven until they have had sufficient time to cool. Other surfaces of the appliance may become hot enough to cause burns. Among these surfaces are oven vent openings and surfaces near these openings, oven doors, and windows of oven doors.



CAUTION

Do not store items of interest to children in cabinets above a range or on the backguard of a range

- Children climbing on the range to reach items could be seriously injured.

1. Precaution

- **Do Not Leave Children Alone** – Children should not be left alone or unattended in the area where the appliance is in use. They should never be allowed to sit or stand on any part of the appliance.
- **Never Use Your Appliance for Warming or Heating the Room.**
- **Storage in or on Appliance**
 - Flammable materials should not be stored in an oven or near surface units. Be sure all packing materials are removed from the appliance before operating it. Keep plastics, clothes, and paper away from parts of the appliance that may become hot.
- **Wear Proper Apparel**
 - Loose-fitting or hanging garments should never be worn while using the appliance.
- **Do Not Use Water on Grease Fires**
 - Turn off the oven to avoid spreading the flame. Smother the fire or flame by closing the door or using baking soda or a dry-chemical or foam-type extinguisher.
- **Use Only Dry Pot Holders**
 - Moist or damp pot holders on hot surfaces may result in burns from steam. Do not let the pot holder touch hot heating elements. Do not use a towel or other bulky cloth.
- **Never Leave Surface Burners Unattended at High Heat Settings**
 - Boilovers could ignite or extinguish the burner flames. Both conditions create an explosion and/or fire hazard.
- **Protective Liners**
 - Do not use aluminum foil to line cooktop surface or oven bottoms, except as suggested in the manual. Improper installation of these liners may result in a risk of electric shock, fire, or burner damage.
- **Glazed Cooking Utensils**
 - Only certain types of glass, glass/ceramic, ceramic, earthenware, or other glazed utensils are suitable for range-top service without breaking due to the sudden change in temperature.
- **Utensil Handles Should Be Turned Inward and Not Extend Over Adjacent Surface Burners**
 - To reduce the risk of burns, ignition of flammable materials, and spillage due to unintentional contact with the utensil, the handle of a utensil should be positioned so that it is turned inward and does not extend over adjacent surface burners.
- **Surface Burner Components**
 - The burners, burner caps, and burner cups should always be cleaned by hand. They are not dishwasher-safe. The orifices should always be checked for dirt and debris whenever the burner cups are cleaned.



WARNING

SURFACES

• DO NOT TOUCH SURFACE BURNERS OR AREAS NEAR BURNERS

- Surface burners may still be hot after they have been turned off. Areas near surface burners may become hot enough to cause burns. During and after use, do not touch or let clothing or other flammable materials contact surface burners or areas near burners until they have had sufficient time to cool. Among these areas are the cooktop, surface burner grates, and surfaces close to the cooktop.



WARNING

To avoid risk of death or personal injury from electrical shock, make sure your range has been properly grounded and always disconnect it from the main power supply before any servicing.

SURFACE BURNERS

- **Use Proper Pan Size**
 - This appliance is equipped with one or more surface burners of different sizes. Select utensils having flat bottoms large enough to cover the surface burner flames. The use of undersized utensils will expose a portion of the surface burner flames to direct contact and may result in ignition of clothing. Proper relationship of utensil to burner will also improve efficiency.

- Be sure you know which control knob operates each surface burner. Make sure you turned on the correct surface burner.

COOKTOP COOKING SURFACES

- **Clean Cooktop With Caution**
 - If a wet sponge or cloth is used to wipe spills on a hot cooking area, be careful to avoid a steam burn. Some cleaners can produce noxious fumes if applied to a hot surface.
- Clean the cooktop surface with a nonabrasive cleaner on painted metal surfaces.

VENTILATING HOODS:

- **Clean Ventilating Hoods Frequently**
 - Grease should not be allowed to accumulate on hood or filter.
- **When flaming foods under the hood, turn the fan on.**

DEEP-FAT FRYERS:

- Use extreme caution when moving the grease kettle or disposing of hot grease.

1. Precaution

SELF-CLEAN OVENS

CAUTION

- BEFORE CLEANING, REMOVE BROILER PAN, OVEN RACKS, AND UTENSILS.
- WIPE EXCESS SPILLS FROM OVEN INTERIOR.
- SEE USER INSTRUCTIONS.

- **Do Not Clean Door Gasket**
 - The door gasket is essential for a good seal. Care should be taken not to rub, damage, or move the gasket.
- **Do Not Use Oven Cleaners**
 - No commercial oven cleaner or oven liner protective coating of any kind should be used in or around any part of the oven.
- **Never keep pet birds in the kitchen**
 - The health of birds is extremely sensitive to the fumes released during an oven self-clean cycle. Fumes may be harmful or fatal to birds. Move birds to a well-ventilated room.

- **Important Instruction**
 - In the event the self-clean mode “F” code goes on or three long beeps sound, the oven is malfunctioning in the self-clean mode. Turn off or disconnect appliance from electrical and gas supplies and have the appliance serviced by a licensed technician.
- **Use Care When Opening Door**
 - Let hot air or steam escape before you remove or replace food in the oven.
- **Do Not Heat Unopened Food Containers**
 - Buildup of pressure may cause container to burst and result in injury.
- **Keep Oven Vent Ducts Unobstructed**
 - The oven vent is located above the left-rear surface unit. This area could become hot during oven use. Never block this vent and never place plastic or heat-sensitive items near the vent.
- **Placement of Oven Racks**
 - Always place oven racks in the desired location while the oven is cool. If a rack must be moved while the oven is hot, do not let the pot holder contact a hot oven burner or oven bottom.

1-4 Model and Serial Number Label and Tech Sheet Locations

These models have Model/Serial Number labels and Tech Sheets located as shown below.

Model and Serial Number Location



2. Specifications

2-1 General Specification

New Appearance Design

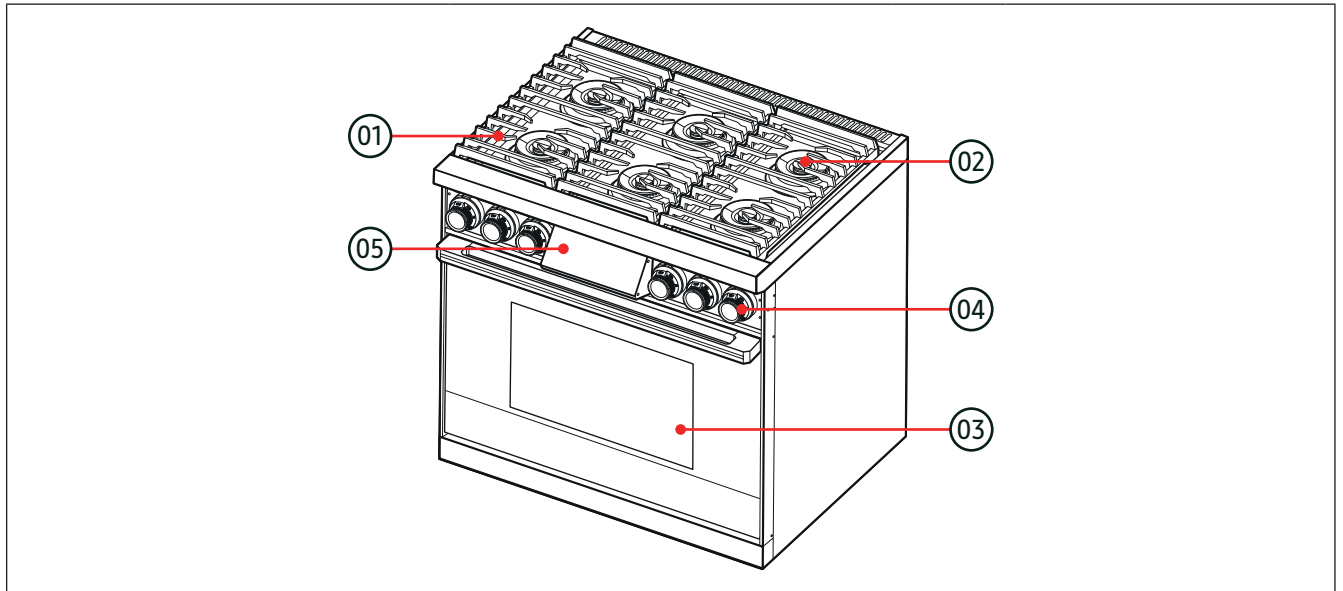
- Knob Lighting
- Wi-Fi
- Bluetooth
- Mechanical Control
- Biggest Capacity
- Self Cleaning System
- Brass Dual Burner (22k BTU)
- Convection Cooking
- Wok Grate
- Gliding Rack



2. Specifications

2-2 Features & Accessories

■ Accessories

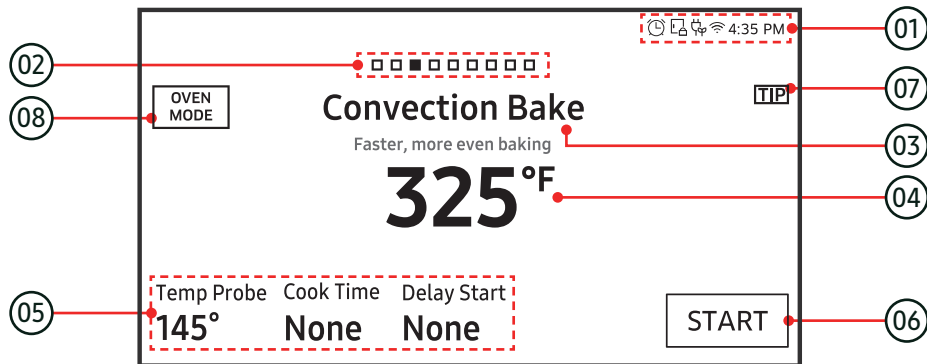


01	Grate	02	Surface burners	03	Removable oven door
04	Surface burner knobs (6 pcs)	05	Control panel		

2. Specifications

Features & Accessories

■ Accessories



01 Indicator area	<ul style="list-style-type: none"> • Timer (🕒) : When the timer is set, the timer indicator is displayed. When more than 2 timers are set, the number of set timer is shown. • Door lock (🔒) : Displayed when the oven door is locked. • Wi-Fi (📶) : Shows Wi-Fi signal strength in 5 steps. When Wi-Fi is disconnected, 📶 is shown. • 12 hour energy saving (🌙) : Displayed when 12 hour energy saving is turned on. • Current time : The current time is displayed.
02 Page indicator	Shows location of current mode.
03 Mode	The current or selected menu is displayed with a mode description.
04 Temperature	The current or selected temperature is displayed. When you tap this area, the temperature adjustment screen is displayed.
05 Information area	<ul style="list-style-type: none"> • Temp Probe : The set temperature of the temperature probe is displayed. When you tap this area, the Temp Probe screen is displayed. • Cook Time : The cooking time is displayed. When you tap this area, the cooking time screen is displayed. • Delay Start : The delay start time is displayed. When you tap this area, the Delay Start screen is displayed.
06 START	Tap to start the oven using the displayed settings.
07 View Summary	When you tap this area, cooking modes of left and right oven are displayed.
08 OVEN MODE	Tap to display mode select menu.




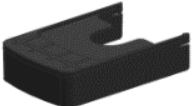




The display in the manual could be different from the actual one.

2. Specifications

Features & Accessories

■ Accessories

Item	Description	Code No.	Quantity
	Ass'y Grate Side (Left/Right)	-	2
	Ass'y Grate Center	-	1
	Ass'y Grate	DG94-01517A	1
	Decoration	DG64-00810A	2
	Ass'y Wire Rack	DG94-02786B	2
	Rack Wire	DG67-00195A	1

2. Specifications

2-3 Functions

■ Mode Selector LCD - Oven Control



<p>01 Indicator area</p>	<ul style="list-style-type: none"> • Timer (🕒) : When the timer is set, the timer indicator is displayed. When more than 2 timers are set, the number of set timer is shown. • Door lock (🔒) : Displayed when the oven door is locked. • Wi-Fi (📶) : Shows Wi-Fi signal strength in 5 steps. When Wi-Fi is disconnected, 📶 is shown. • 12 hour energy saving (🌙) : Displayed when 12 hour energy saving is turned on. • Current time : The current time is displayed.
<p>02 Page indicator</p>	<p>Shows location of current mode.</p>
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<p>04 Temperature</p>	<p>The current or selected temperature is displayed. When you tap this area, the temperature adjustment screen is displayed.</p>
<p>05 Information area</p>	<ul style="list-style-type: none"> • Temp Probe : The set temperature of the temperature probe is displayed. When you tap this area, the Temp Probe screen is displayed. • Cook Time : The cooking time is displayed. When you tap this area, the cooking time screen is displayed. • Delay Start : The delay start time is displayed. When you tap this area, the Delay Start screen is displayed.
<p>06 START</p>	<p>Tap to start the oven using the displayed settings.</p>
<p>07 View Summary</p>	<p>When you tap this area, cooking modes of left and right oven are displayed.</p>
<p>08 OVEN MODE</p>	<p>Tap to display mode select menu.</p>



The display in the manual could be different from the actual one.

2. Specifications

Functions


■ Control Panel - Gas Cooktop

LIGHTING A GAS SURFACE BURNER

Make sure all surface burners are properly installed.

1. Push in and turn the control knob to the LITE position. You will hear a “clicking” sound indicating the electronic ignition system is working properly.
2. After the surface burner lights, turn the control knob to shift it out of the LITE position and turn off the electronic ignition system.
3. Turn the control knob to adjust the flame level.



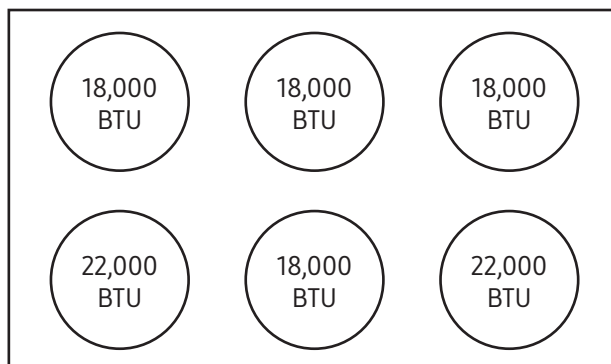
-  If the control knob is left in the Lite position, the electronic ignition system will continue clicking. It is not recommended to operate any surface burner in the Lite position, since all electronic igniters spark at the same time.

GAS SURFACE BURNERS AND CONTROL KNOBS

Your Pro Range cooktop has six gas burners. All cooktop burners are open-port design to provide you easy assembly, accurate and dependable operation. The different burner sizes ensure you have the proper heat source for the desired cooking job.

The four 18,000 BTU dual burners are general-purpose burners that can be used for most cooking. The HI to LO settings provide a wide range of cooking temperatures to meet your cooking needs.

The two 22,000 BTU burners provide maximum output. These burner can also be used as general-purpose burner, but it is designed to provide quick heat to large cookware. The 22,000 BTU burner spreads out the heat with a larger circle of flames. This provides better heat distribution for larger cookware (12 in [30.5 cm]) or larger pots and pans.



Each surface burner has a control knob with settings from HI to LO. They also have a Lite setting that is only used to light the flame. The electronic ignition system sparks when the control knob is in the Lite position. The surface burner indicator next to the control knob shows which burner the knob controls.

2. Specifications

2-4 Table of Specifications

Model	Basic	New
	NX58M9960P*	DOP36M96GL*
Color	*=S,M(Stainless Steel, Matt Black)	*=S,M(Stainless Steel, Matt Black)
Controls		
Control Type – Oven	Mechanical Knob	Mechanical Knob + Display
Control Type – Cooktop	Weighted Knob	Weighted Knob
Display Type	-	7" POP-UP LCD
Display Color	-	-
Back Guard Color	Stainless	Stainless
Cleaning (Variable Cleaning Time)	Self Cleaning (3 hr)	Self Cleaning (2/3/5 hr)
Bake	Lo(150°F, 65°C) - 550d (285°C)	Lo(175°F, 80°C) - 550°F (285°C)
Variable Broil (Low-High)	Low - High	Low – Mid – High
Convection Bake	Lo(150°F, 65°C) - 550°F (285°C)	Lo(175°F, 80°C) - 550°F (285°C)
Convection Roast	Lo(150°F, 65°C) - 550°F (285°C)	Lo(175°F, 80°C) - 550°F (285°C)
Pro Convection	-	Lo(175°F, 80°C) - 550°F (285°C)
Roast	Lo(150°F, 65°C) - 550°F (285°C)	-
Auto Oven Light	Yes	Yes
Manual On/Off Light Switch	Yes	Yes
Healthy Cook	-	Yes(5) Baked potato/Grilled chicken/Salmon steak/ White fish fillet/Roasted vegetables
Clock	-	Yes
Numeric Pad	-	-
Delay Start	-	-
Timer	-	Yes
Keep Warm	Yes	Yes
Pre-set	2 modes (Dehydrate, Bread proof)	2 modes (Dehydrate, Proof)
Cooktop		
Cooktop Type	Stainless Steel	Black Enamel Coating
Numbers of Burners	4	6
Total Power (BTU)	57,000	116,000
Right Front (BTU)	22,000 (Dual)	22,000 (Dual)
Right Rear (BTU)	5,000	18,000 (Dual)
Left Front (BTU)	15,000	22,000 (Dual)
Left Rear (BTU)	15,000	18,000 (Dual)
Center Front (BTU)	-	18,000
Center Rear (BTU)	-	18,000
Sealed Burner	Yes	Yes
Grate	Matt Black Continuous Grate	Matt Black Continuous Grate




2. Specifications

Table of Specifications

Model	Basic	New
	NX58M9960P*	DOP36M96GL*
Oven		
Convection / Element Wattage	Fan True Convection	Fan Convection
Oven Capacity (cu.ft)	5.8	5.4
Broiler	Gas	Gas
Bake Burner (BTU)	18,000	25,000
Broil Burner (BTU)	16,500	18,000
Interior Light (Watts/Location)	2 Incandescent 40W / Back	2 Halogen 40W / Side
# of Oven Racks	3	3
# of Rack Positions	7	5
Rack Finish	Chrome	Chrome
Door		
Door Material	STSS + Glass	STSS + Glass
Removable Oven Door	Yes	Yes
Door Handle	Stainless Steel	Stainless Steel
Number of Glass	3	4
Window Size	W – 25.24", H- 18.31"	W – 34.8", H- 16.5"
Automatic Safety Door Lock	Yes	Yes
Drawer		
Drawer Capacity (cu.ft)	-	-
Type	Kick Panel	Kick Panel
Drawer Heater Performance	-	-
Warm. Drawer Temp. Settings	-	-
Warm. Drawer Handle	-	-
Accessories / Others		
Anti-Tip Device	Yes (Leg Brackets)	Yes (Leg Brackets)
Griddle	1	-
Wok Grate	1	1
Wire Rack	2	1
Split Rack	-	-
Gliding Rack	1	2
Application Dimensions		
Actual Oven Dimensions (W x H x D)	25" x 21 1/8" x 19"	27 2/5" x 16 1/3" x 20 9/10"
Outside Dimensions (W x H x D)	29 13/16" x 36 7/16" x 27"	35 7/8" x 37 1/4" x 29 5/8"
Shipping Dimensions (W x H x D)	32 7/8" x 43 11/16" x 30 1/8"	38 3/4" x 32 7/8" x 49 2/5"
Net Weight (kg)	244.7lb (111kg)	477.3lb (216.5kg)
Gross Weight (kg)	266.8lb (121kg)	539.0lb (244.5kg)

3. Disassembly and Reassembly

3-1 Tool for assembly and disassembly

Item	How to use	Pictures
Screw Driver	Use for assembly and disassembly of all screws	
Tybing Wrench	Use for assembly and disassembly of tubing to the burner cup	
7mm Hexangnal Nut Driver	Use for assembly and disassembly of injector nozzles. [Cooktop / Broil / Bake burner]	

3. Disassembly and Reassembly

3-2 BASIC REPLACEMENT STEP

 **WARNING**

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

 **WARNING**

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

 **CAUTION**

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

Parts	Explanation Photo	Explanation
<p>Step-A COVER BACK</p>		<ol style="list-style-type: none"> 1. Turn off the electrical supply going to the range. 2. Shut off the gas shut-off valve in the gas supply line to the range. 3. Pull the range away from the wall so that you can access the rear panel. 4. Remove 1screw from Cover panel and put in Cover Panel to Cover Back. 5. Remove 13 screws from Cover Back and separate Cover Back from the range.

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

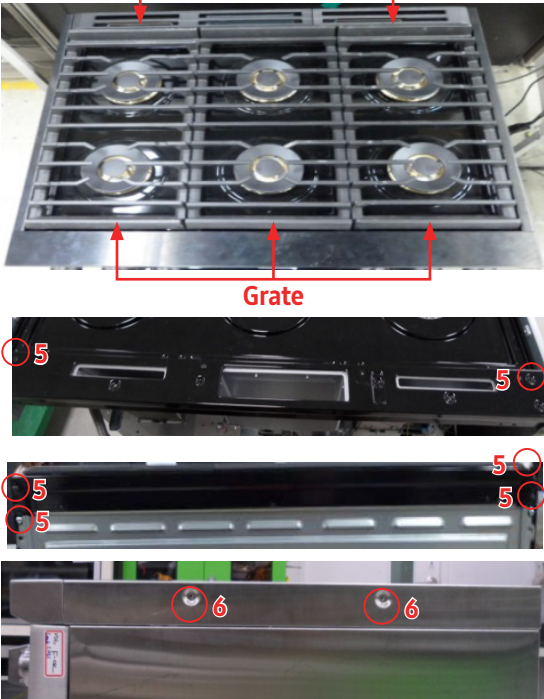
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⚠ CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>Step-B ASS'Y FRAME COOKTOP</p>		<ol style="list-style-type: none"> 1. Turn off the electrical supply going to the range. 2. Shut off the valve in the gas supply line to the range. 3. Lift off 3 Grates and 2 Cover Airs. 4. Lift off 6 burner caps and heads from the burner cups. 5. Remove 6 screws from the rear chassis panel. 6. Remove each 2 screws from chassis panels on the both side.

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

Parts	Explanation Photo	Explanation
<p>Step-B ASS'Y FRAME COOKTOP</p>		<ol style="list-style-type: none"> 7. Pull the side chassis panels backward and remove them with rolling each of them inward. 8. Remove 18 screws from the each 6 burner cups. 9. Lift the frame cooktop. <p>Note Make sure the electrodes are placed under the openings of Cooktop to prevent interference and damage during replacement.</p>

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

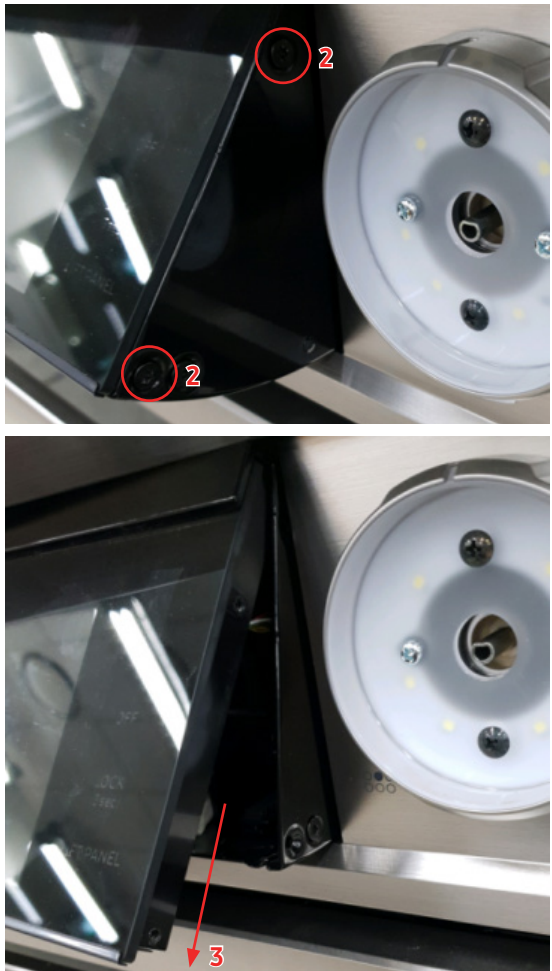
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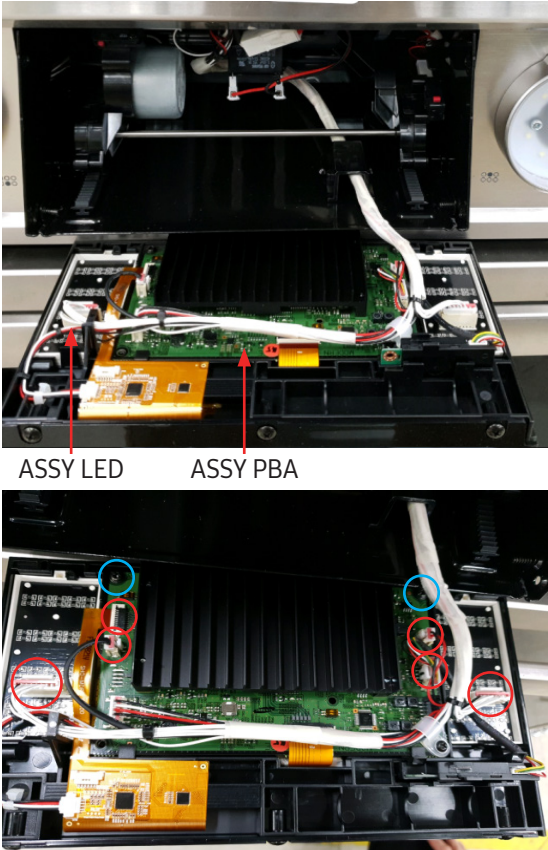
CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>Step C-1 POP-UP DISPLAY</p>		<ol style="list-style-type: none"> 1. Remove knob from Sets. 2. Remove left, right side each 2 screws .

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

Parts	Explanation Photo	Explanation
<p>Step C-1 POP-UP DISPLAY</p>	 <p>ASSY LED ASSY PBA</p>	<ol style="list-style-type: none"> 3. Separate Assy LCD as arrow direction from setst. 4. Replace ASSY PBA as disconnect relating 5 connector wire and 3 screw remove. or ASSY LED can be replaced as disconnect relating connector wire.

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

⚠ CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>Step C-2 CHASSIS PANEL UP</p>		<ol style="list-style-type: none"> 1. Follow the Step B 2. Remove 4 screws from Top chassis panel. 3. Remove 2 connectors before lift Top chassis panel up. 4. Remove left , right screw from bracket cooktop. 5. Use Tubing Wrench for disassembly of tubing to the burner cup And screw 1ea delete. 6. Remove 4 screws(left/right) from Assy LCD to take out.

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.


⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

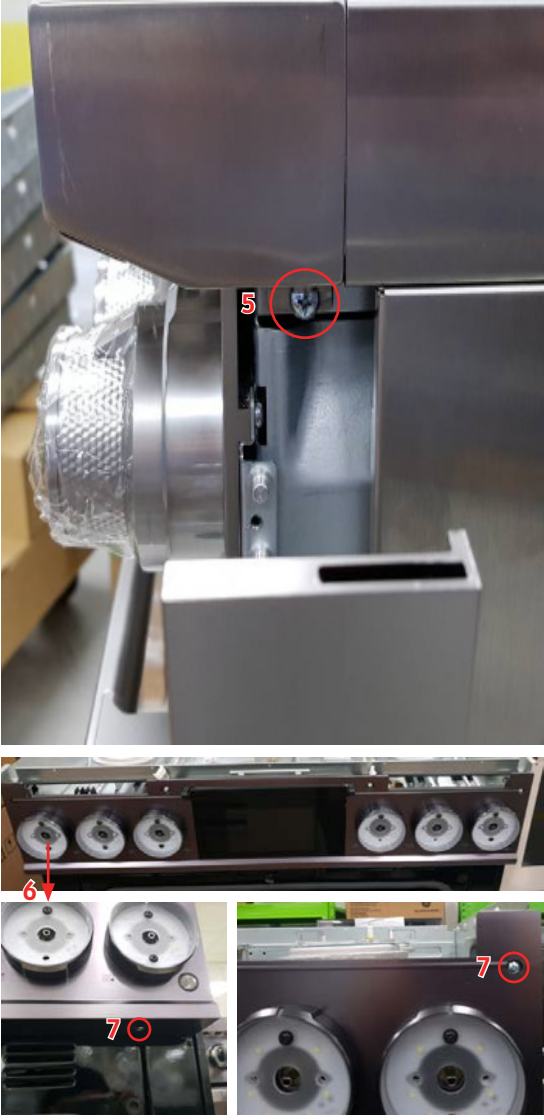
⚠ CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>Step C-3 ASS'Y CONTROL BOX</p>		<ol style="list-style-type: none"> 1. Follow the Step B. 2. Follow the Step C-21~4 3. Remove 2 screws of Trim. 4. Rotating Trim like below picture.

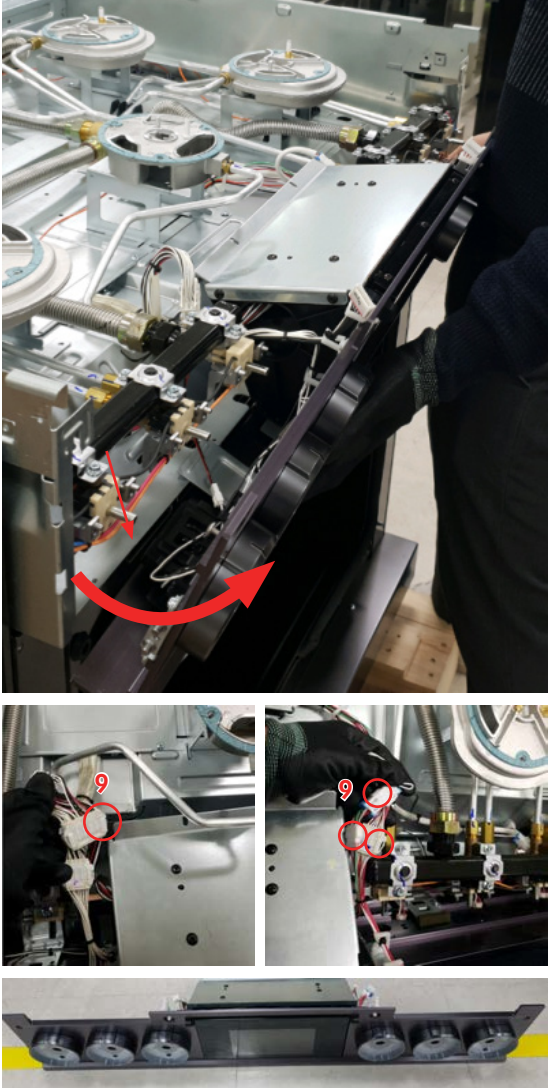
3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

Parts	Explanation Photo	Explanation
<p>Step C-3 ASSY CONTROL BOX</p>		<ol style="list-style-type: none"> 5. Remove each left, right screw of Assy frame front and take out assy frame front. 6. Remove 6knobs. 7. Remove left, right screw below and front of control panel.

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

Parts	Explanation Photo	Explanation
<p>Step C-3 ASS'Y CONTROL BOX</p>		<ol style="list-style-type: none"> 8. Separate Assy Control Arrow direction from cook top. 9. Disconnect left 2 connector and right 3 connector . 10. Assy con box disassembly complete

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

⚠ CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>Step C-3 ASS'Y CONTROL BOX</p>		<ol style="list-style-type: none"> 8. Separate Assy Control Arrow direction from cook top. 9. Disconnect left 2 connector and right 3 connector. 10. Assy con box disassembly complete.

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.


⚠ CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>Step-D ASS'Y DOOR</p>		<ol style="list-style-type: none"> 1. Open the door fully. 2. Pull down the door hinge locks at both side. 3. Disconnect DOOR LED wire.

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

Parts	Explanation Photo	Explanation
<p>Step-D ASS'Y DOOR</p>		<ol style="list-style-type: none"> 4. Grasp both side of the door at the top firmly 5. Close the door until it stops, and close the door with slightly lifting and pivoting on the hinge about 30 degree. 6. PPull the door backward with keep lifting the door. The end of the hinge arm will be shown when it is completely removed. 7. Put the door on flat surface.

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

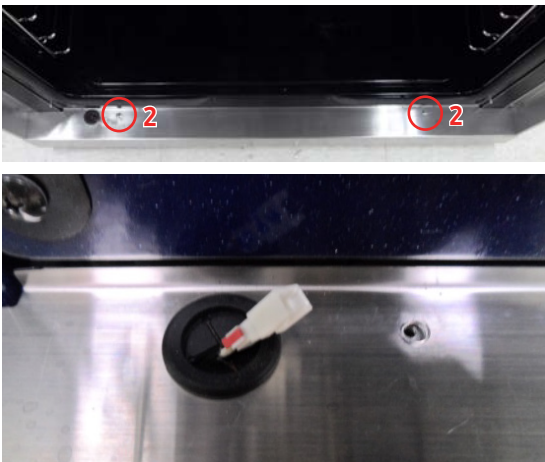
WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>Step E CHASSIS PANEL-BOTTOM</p>		<ol style="list-style-type: none"> 1. Follow the Step D. 2. Remove 2 screws from the top of the bottom chassis. 3. Remove a connector before lift the chassis. 4. Slightly lift the chassis and pull it out.

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

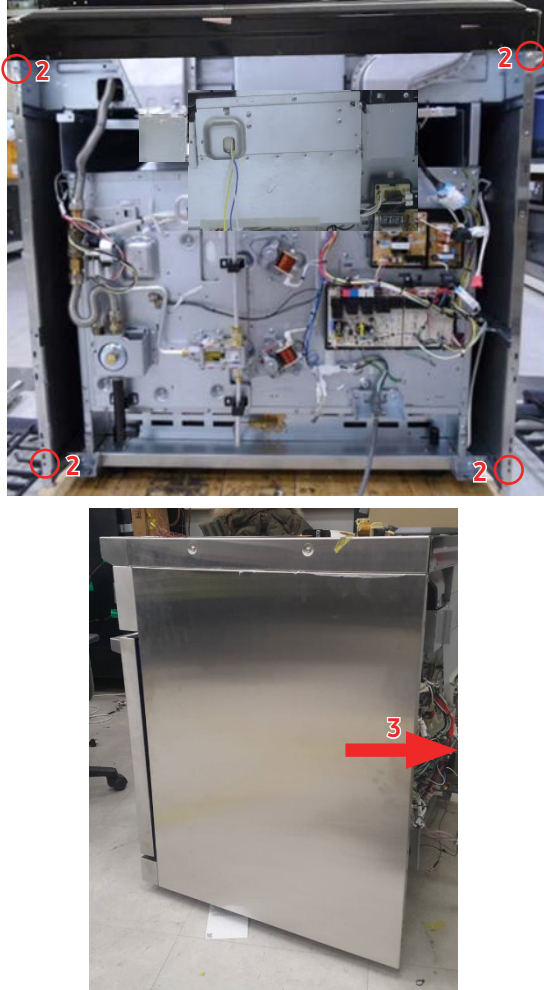
WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>Step-F ASSY DOOR</p>		<ol style="list-style-type: none"> 1. Follow the Step A. 2. Remove each 4 screws from rear side of both Side Panel. 3. Slightly pull out the Side Panel to rear, from the range.

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.


⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

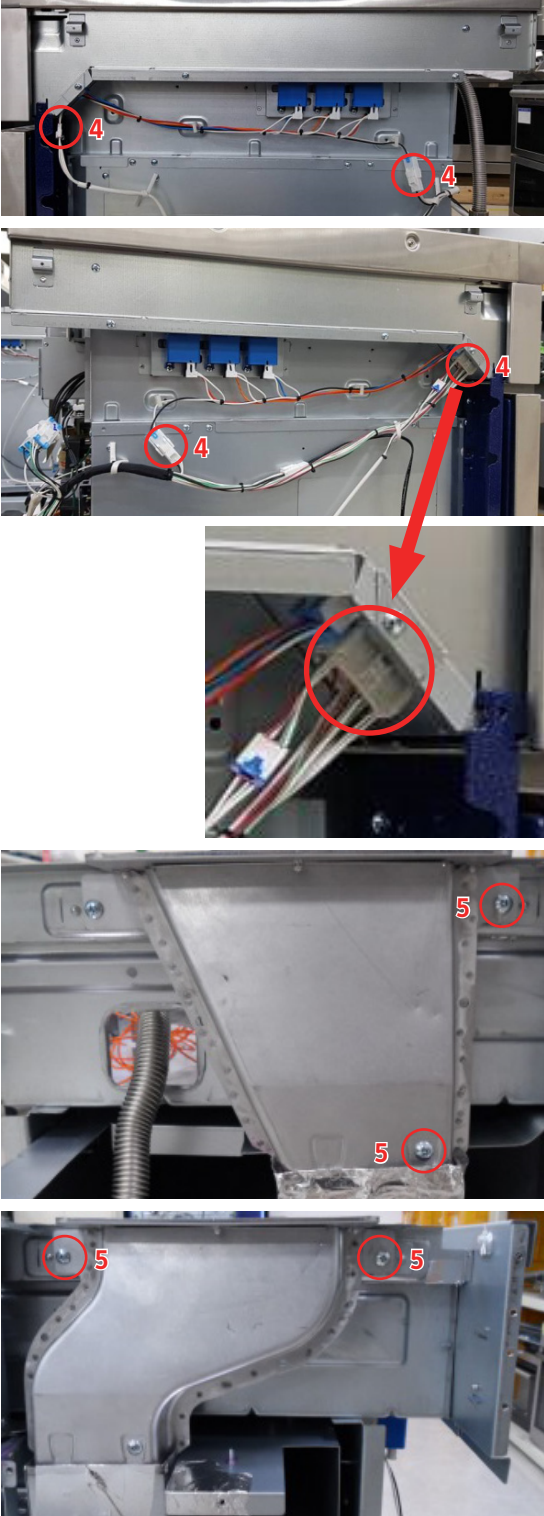
⚠ CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>Step G ASS'Y COOKTOP SUB</p>		<ol style="list-style-type: none"> 1. Follow the Step A, B1~5 and F. 2. Remove each 4 screws from Bracket Cover Bottom on the both side. 3. Remove each 3 screws from Trim Chassis on the both side.

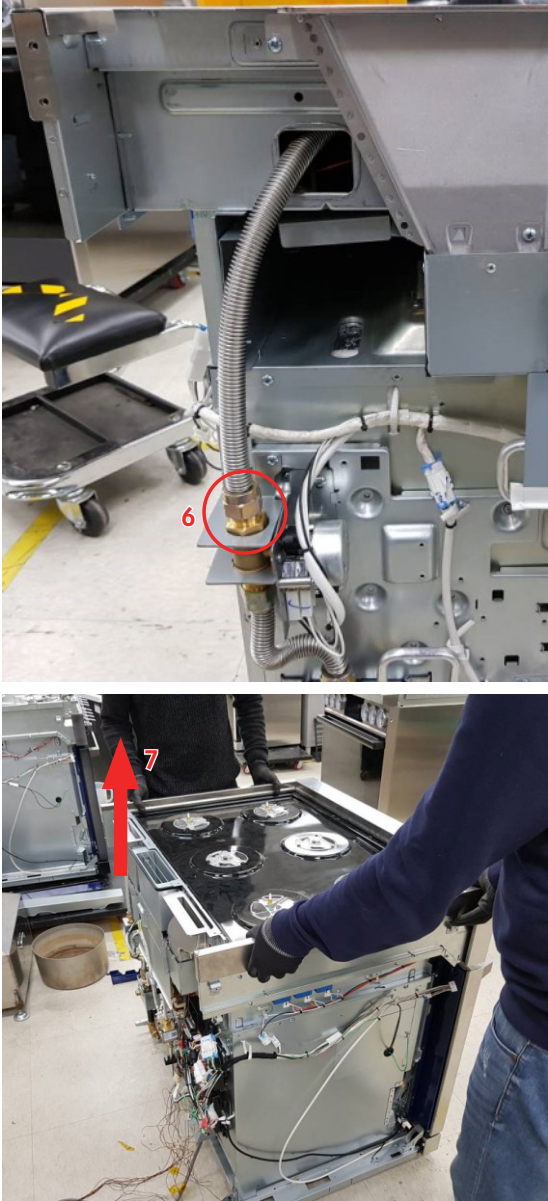
3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

Parts	Explanation Photo	Explanation
<p>Step G ASS'Y COOKTOP SUB</p>		<ol style="list-style-type: none">4. Disconnect 4 housing as picture.5. Remove each 2 screws from left and right on Bracket vents.

3. Disassembly and Reassembly

BASIC REPLACEMENT STEP

Parts	Explanation Photo	Explanation
<p>Step G ASS'Y COOKTOP SUB</p>		<ol style="list-style-type: none"><li>6. Loosen ASS'Y tube-manifold using a tubing wrench<li>7. Remove ASS'Y cooktop sub.

3. Disassembly and Reassembly

3-3 COMPONENT REPLACEMENT STEP

 **WARNING**

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

 **WARNING**

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

 **CAUTION**

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

3. Disassembly and Reassembly

3-4 MAIN PCB

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

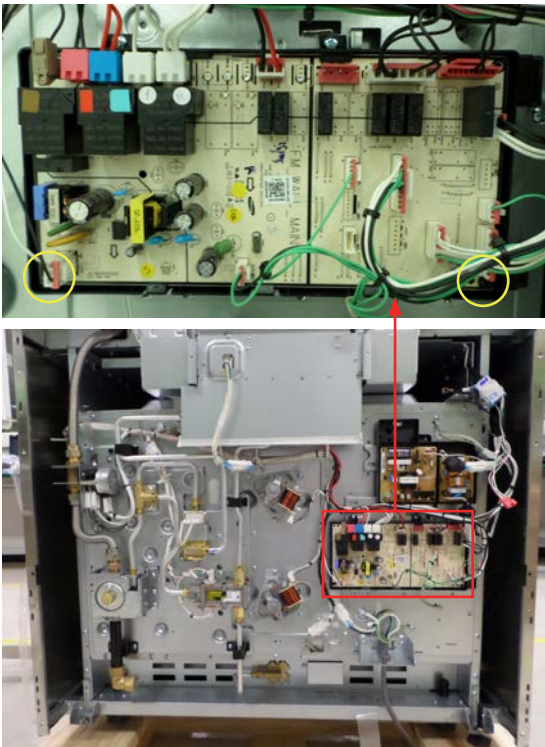
WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
MAIN PCB		<ol style="list-style-type: none"> 1. Follow the Step A 2. Disconnect 15 wire connectors from the Main PCB. 3. Remove 2 screws and replace the MAIN PCB. (Yellow Circle)

3. Disassembly and Reassembly

3-5 SUB PCB

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

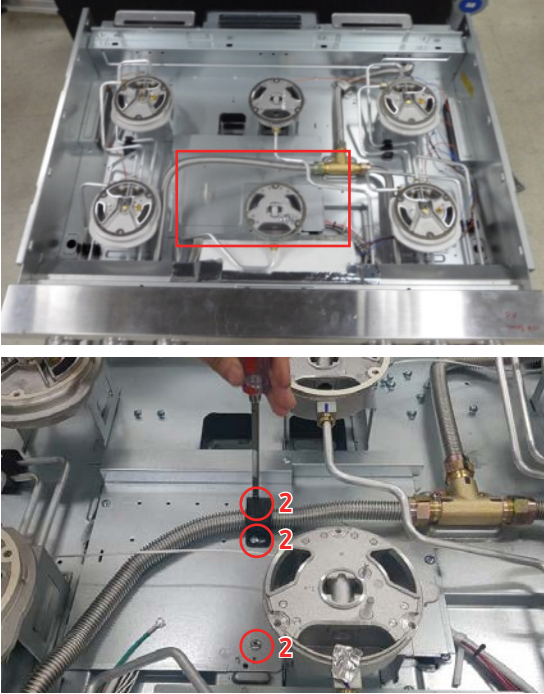
⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

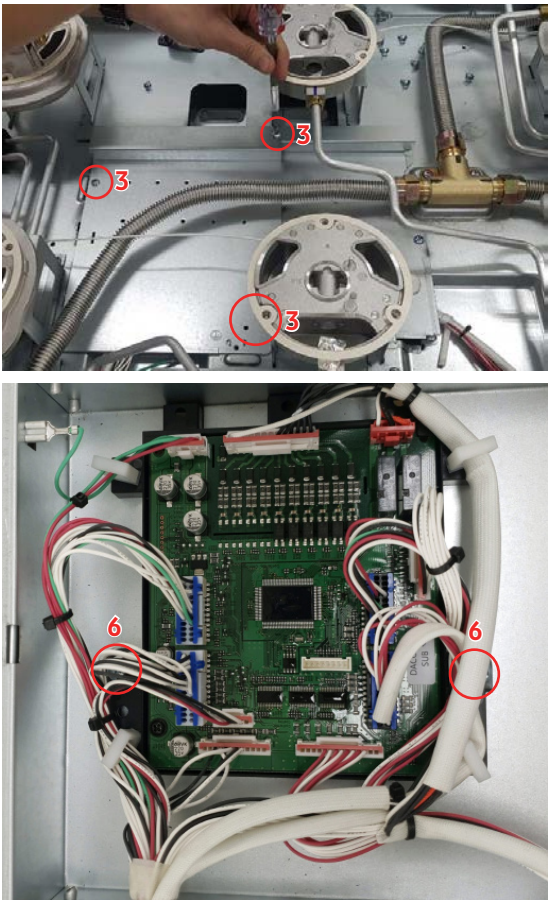
⚠ CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
SUB PCB		<ol style="list-style-type: none"> 1. Follow the Step B. 2. Remove 3screws to disassemble Holder Tube and Earth wire.

3. Disassembly and Reassembly

SUB PCB

Parts	Explanation Photo	Explanation
SUB PCB		<ol style="list-style-type: none"> 3. Remove 3 screws. 4. Remove the Cover PCB. 5. Disconnect 12 wire connectors from the SUB PCB. 6. Remove 2 screws and replace the SUB PCB.

3. Disassembly and Reassembly

3-6 DIMMING BOARD & SMPS

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

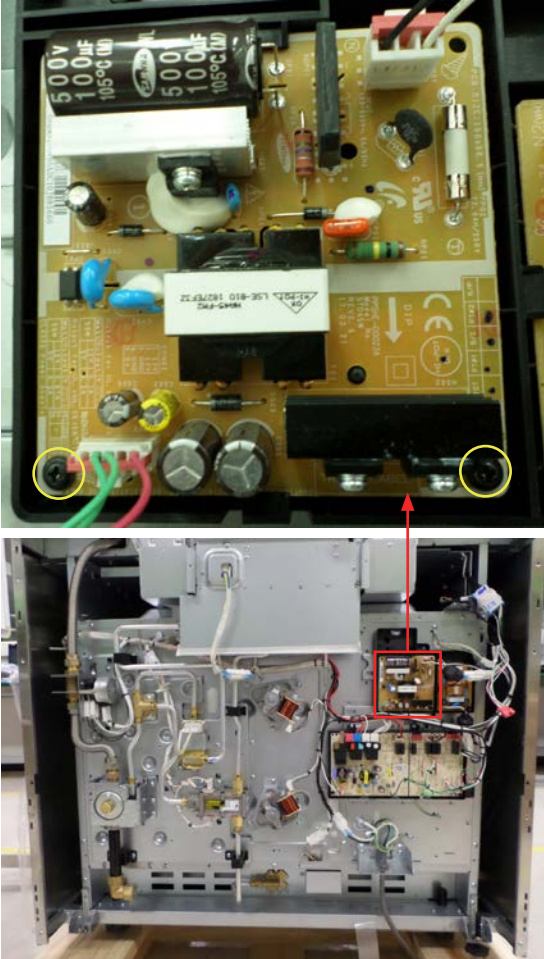
⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

⚠ CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>SMPS</p>		<ol style="list-style-type: none"> 1. Follow the Step A 2. Disconnect 2 wire connectors from the SMPS 3. Remove 2 screws and replace the SMPS. (Yellow Circle)

3. Disassembly and Reassembly

3-7 EMI FILTER

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

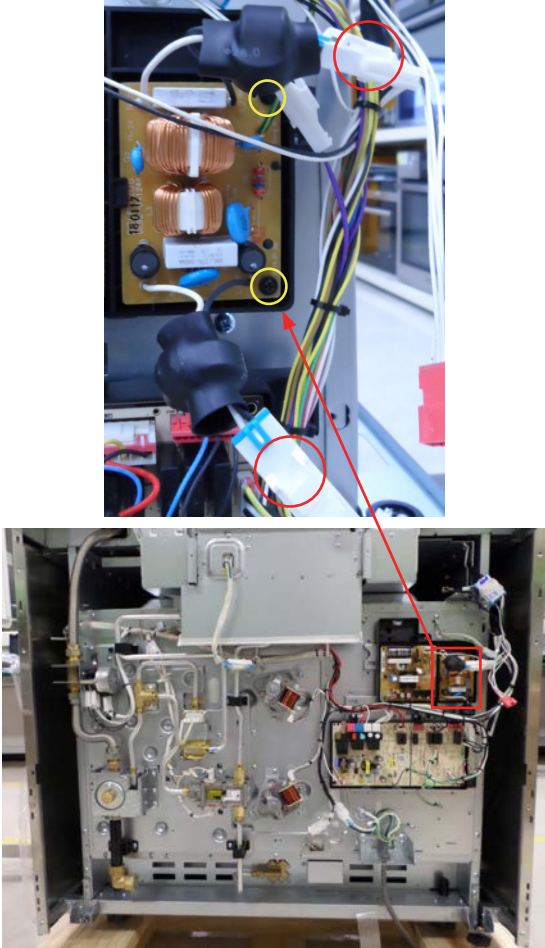
WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
EMI FILTER		<ol style="list-style-type: none"> 1. Follow the Step A 2. Disconnect 2 wire connectors from the EMI Filter. (Red Circle) 3. Remove 2 screws and replace the EMI Filter. (Yellow Circle)

3. Disassembly and Reassembly

3-8 WiFi PCB

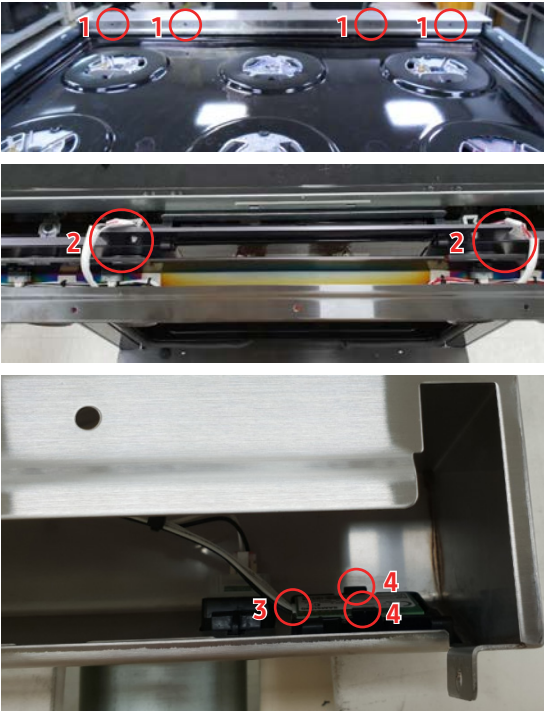
⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

Parts	Explanation Photo	Explanation
WiFi PCB		<ol style="list-style-type: none"> 1. Follow Step C-2 2. Disconnect 2 wire. 3. Disassembly assy Wifi PCB as Hook push. 4. Disconnect connetor from Wifi PCB. 5. WiFi PCB replace from Holder Wifi.

3. Disassembly and Reassembly

3-9 BLUETOOTH PCB

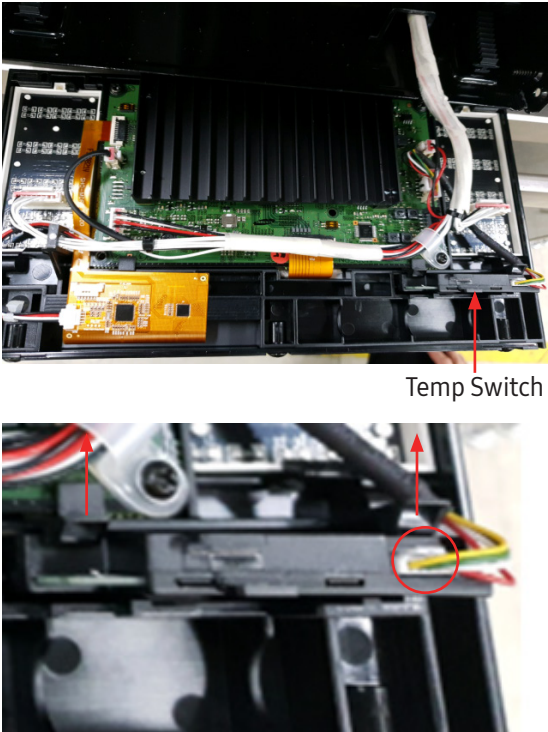
⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

Parts	Explanation Photo	Explanation
<p>BLUETOOTH PCB</p>		<ol style="list-style-type: none"> 1. Follow the Step C-1 – ASSY LCD 2. PUSH 2HOOK AND TAKE OUT BLUETOOTH PCB 3. DISCONNECT CONNECTOR AND REPLACE A NEW BLUETOOTH PCB

3. Disassembly and Reassembly

3-10 SPARK MODULE

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

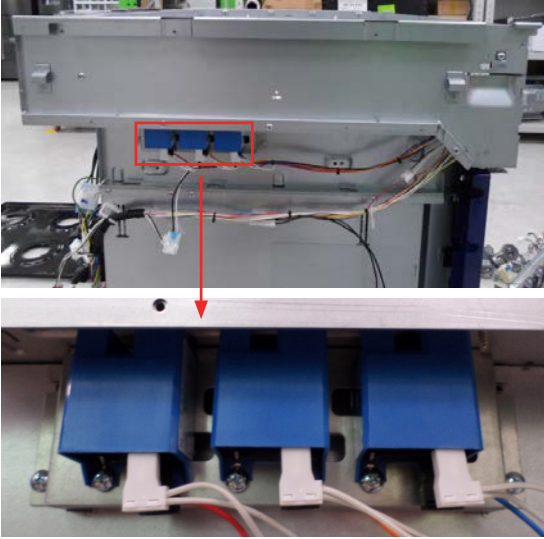
⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

⚠ CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>SPARK MODULE</p>		<ol style="list-style-type: none"> 1. Follow the Step A, F 2. Disconnect 2 wire connectors from the each Spark Module. 3. Remove 2 screws from the Spark Module. 4. Pull the Spark Module down and remove electrode wire from the Top. 5. Replace Spark Module.

3. Disassembly and Reassembly

3-11 KNOB LED PCB

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.


WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.


CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>KNOB LED PCB</p>		<ol style="list-style-type: none"> 1. Remove the assy knob. 2. Remove 4 screws from each holder.

3. Disassembly and Reassembly

KNOB LED PCB

Parts	Explanation Photo	Explanation
<p>KNOB LED PCB</p>		<ol style="list-style-type: none"> 3. Disconnect the connecting wire from holder knob. 4. Remove cover LED as hook area bending. 5. Replace Knob Led PCB.

3. Disassembly and Reassembly

3-12 DUAL ELECTRODE (LF,LR,RF,RR)

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

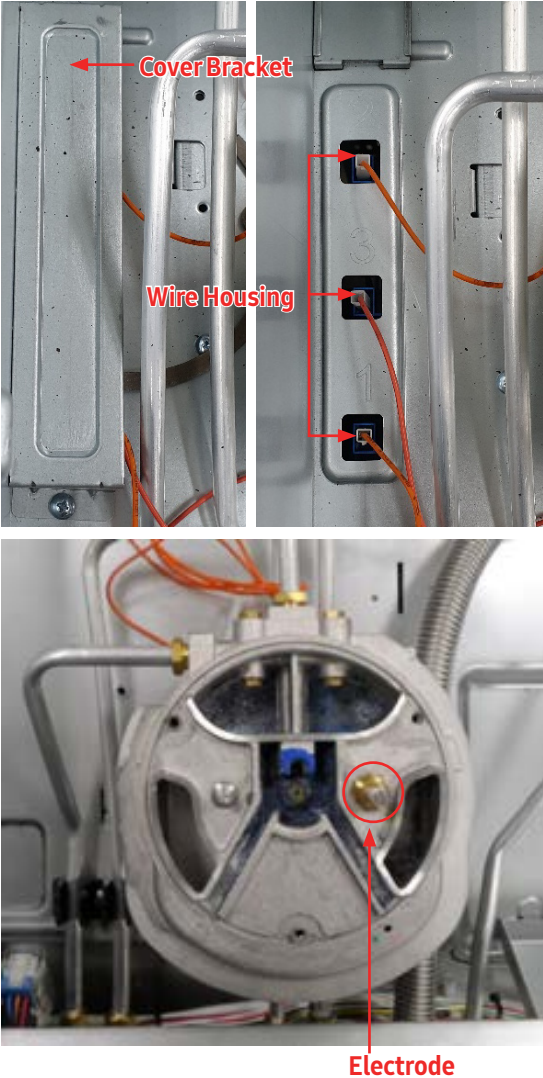
When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

WARNING

If replacing more than one burner cup, do not mix up the gas orifices. Incorrectly sized orifices could result in personal injury, fire, and/or poor cooking results.

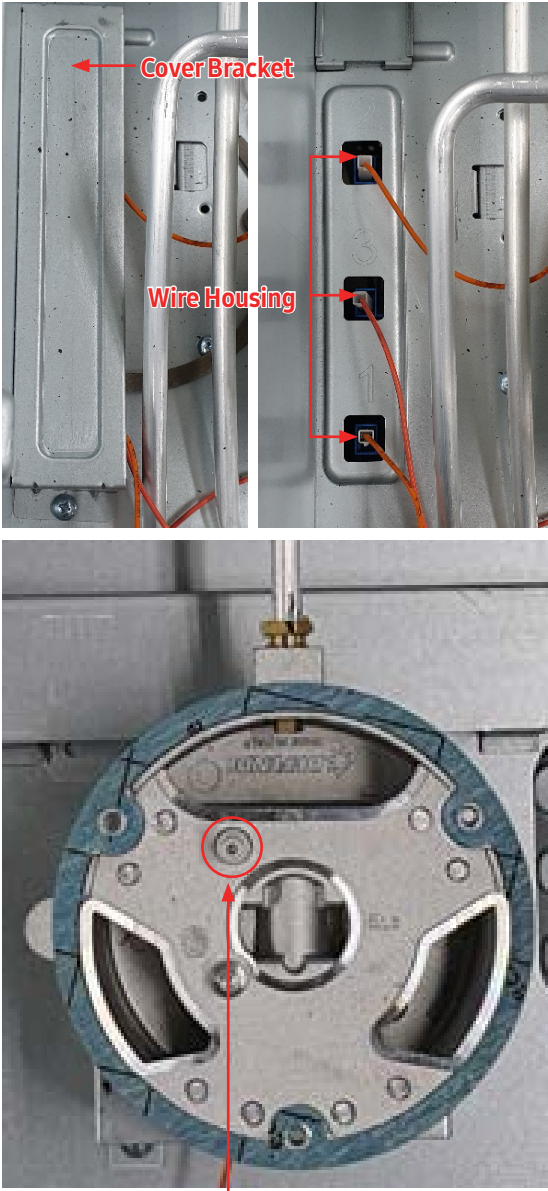
3. Disassembly and Reassembly

DUAL ELECTRODE (LF,LR,RF,RR)

Parts	Explanation Photo	Explanation
<p>DUAL ELECTRODE</p>	 <p>The top photograph shows the internal wiring of the cooktop. A red arrow points to the 'Cover Bracket' on the left side. Another red arrow points to the 'Wire Housing' on the right side, which is connected to three terminals labeled '3', '1', and '2'. The bottom photograph shows the spark module with a red circle around the electrode holder. A red arrow points to the 'Electrode' being pulled out of the holder.</p>	<ol style="list-style-type: none"> 1. Follow the Step A and B 2. Disassemble Cover Bracket from the both sides of the cooktop box 3. Remove the electrode wire housing from spark module. (LF, LR : left side // RF, RR : right side) 4. Loose the electrode holder and pull out the electrode. 5. Replace the electrode. <p>※ Each electrode should be assembled designated spark module</p>

3. Disassembly and Reassembly

DOUBLE-RING ELECTRODE (CR,CF)

Parts	Explanation Photo	Explanation
<p>DUAL ELECTRODE</p>	 <p>The top photograph shows the internal wiring of the cooktop. A red arrow points to a metal 'Cover Bracket' on the left. Another red arrow points to the 'Wire Housing' where orange wires are connected to terminals. The bottom photograph shows the burner cup assembly. A red circle highlights a small circular component, and a red arrow points to it with the label 'Electrode'.</p>	<ol style="list-style-type: none"> 1. Follow the Step A and B 2. Disassemble Cover Bracket from the both sides of the cooktop box 3. Remove the electrode wire from spark module. (CF : left side // CR : right side) 4. Remove the electrode clip from bottom of the burner cup and pull out the electrode. 5. Replace the electrode. <p>※ Each electrode should be assembled designated spark module.</p>

3. Disassembly and Reassembly

3-13 BURNER CUP

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

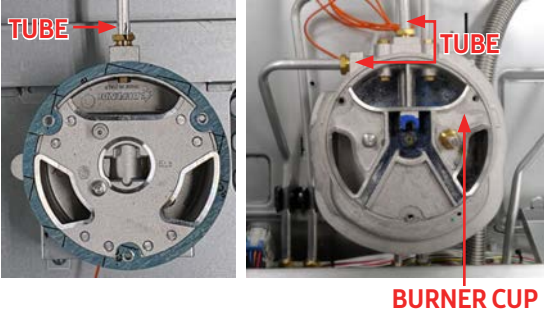

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

WARNING

If replacing more than one burner cup, do not mix up the gas orifices. Incorrectly sized orifices could result in personal injury, fire, and/or poor cooking results.

Parts	Explanation Photo	Explanation
<p>BURNER CUP</p>		<ol style="list-style-type: none"> 1. Follow the Step A and B. 2. Using a tubing wrench on the gas line fitting and a channel lock wrench on the burner cup base, firmly hold the burner cup and loose the tube fitting by using tubing wrench. 3. Loose the 1 screw of the burner bracket from the cooktop box. 4. Loose the 2 screws from the bottom of the burner cup to separate burner cup from a bracket. 5. Remove the electrode. <p> Note The new burner cup must be replaced with the same color marking as the one removed. (18K BTU : No color / 22K BTU : Black Color)</p> <ol style="list-style-type: none"> 6. After replacement, gas leakage must be checked.

3. Disassembly and Reassembly

3-14 GAS ORIFICE NOZZLE

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

WARNING

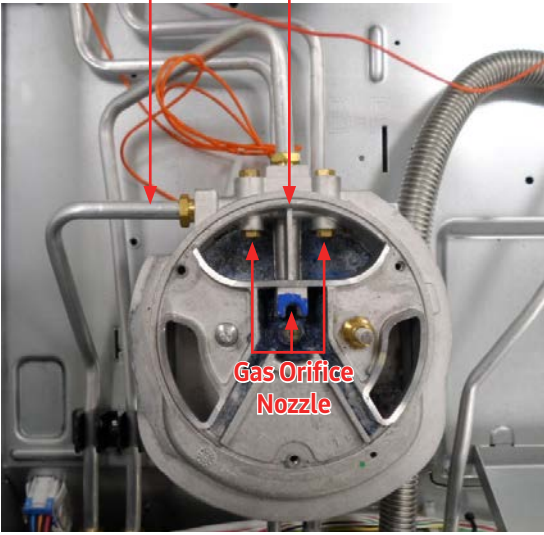
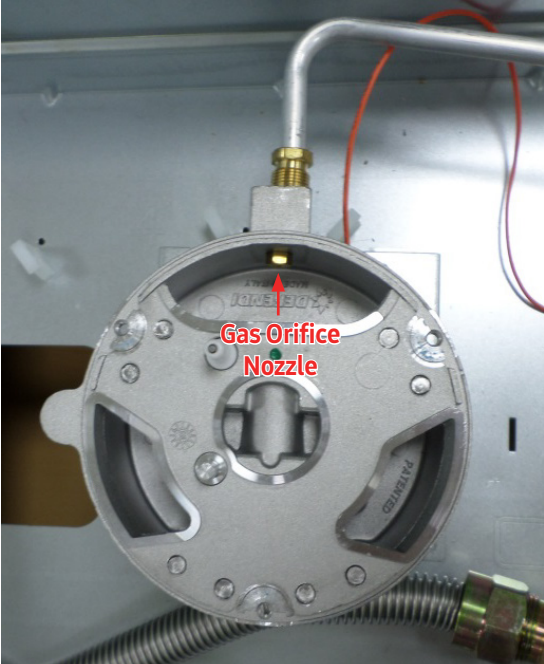
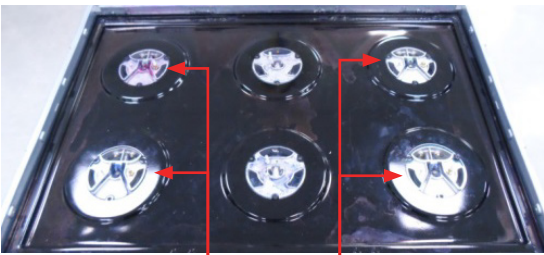
EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

3. Disassembly and Reassembly

Parts	Explanation Photo	Explanation
<p>GAS ORIFICE NOZZLE</p>	 <p>TUBE BURNER CUP</p> <p>Gas Orifice Nozzle</p> <p>Dual Burner Type</p>	
	 <p>Gas Orifice Nozzle</p> <p>Double-ring Burner Type</p>	<ol style="list-style-type: none"> 1. To remove the gas orifice, use 9/32-inch or 7mm socket wrench. * Dual Burner : 3 orifice Double-ring : 1 orifice. 2. Install a new gas orifice to the burner cup. 3. After replacement, clog the replaced orifice and check gas leakage.
	 <p>Dual Burner Location</p>	

3. Disassembly and Reassembly

3-15 SWITCH IGNITION

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

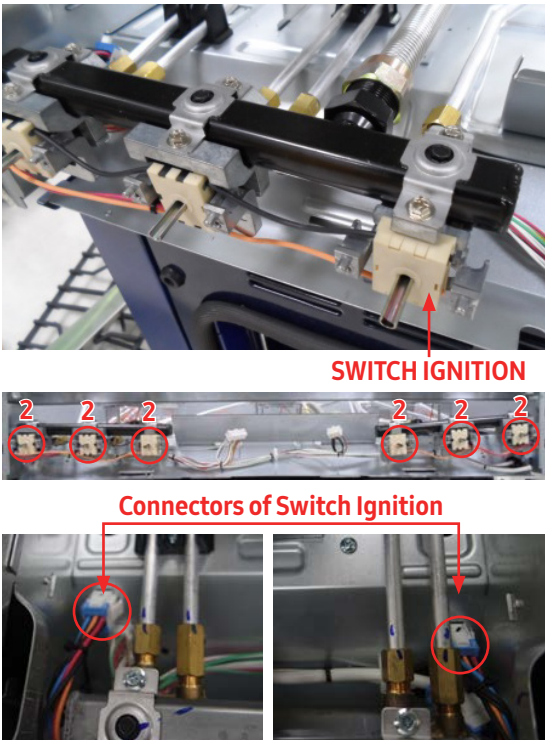
WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>SWITCH IGNITION</p>		<ol style="list-style-type: none"> 1. Follow the Step B and C. 2. Place a finger behind each side of the switch ignition and pull it straight out to release it from the control shaft. Repeat this Step to all switches. 3. Disconnect the wires from the connectors. 4. Bend the Clamp for disconnecting the Wire of Switch Ignition. 5. Replace the Switch Ignition.

3. Disassembly and Reassembly

3-16 VALVE COOKTOP

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

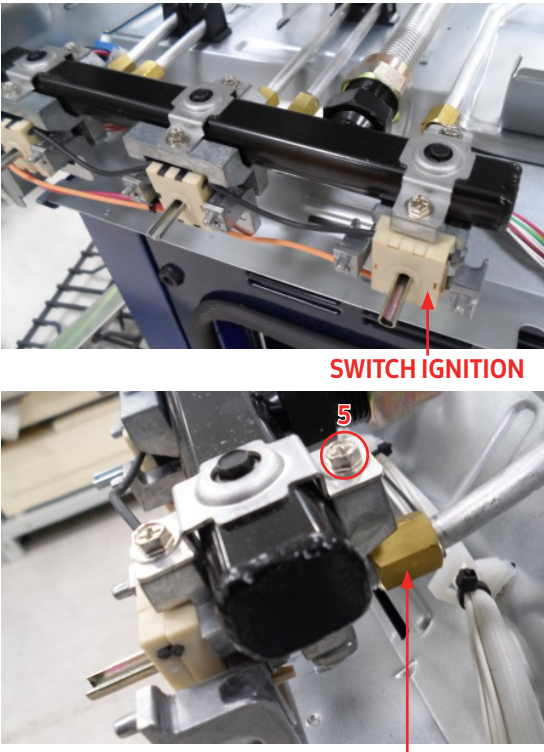

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

⚠ CAUTION

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⚠ WARNING

Check the parts code of the knob and/or Switch Ignition in case of replacement.

Parts	Explanation Photo	Explanation
VALVE COOKTOP		<ol style="list-style-type: none"> 1. Follow the Step B and C. 2. Place a finger behind each side of the switch ignition and pull it straight out to release it from the valve shaft. 3. loose the tube fitting by using tubing wrench, then disconnect the gas lines from the valve cooktop. Do not bend or crimp gas lines during Removal. 4. Remove the Valve bracket followed by loose 2 screw. 5. Remove the center black screw by using ¼" or 6.35mm nut driver. 6. Replace the Valve Cooktop and Check gas leakage. <p>Note  When assembling or disassembling the valve, the screw torque should be adjusted to 1.5N.m.(the screw torque of 1,2 is same)</p>

3. Disassembly and Reassembly

3-17 ASS'Y MOTOR

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

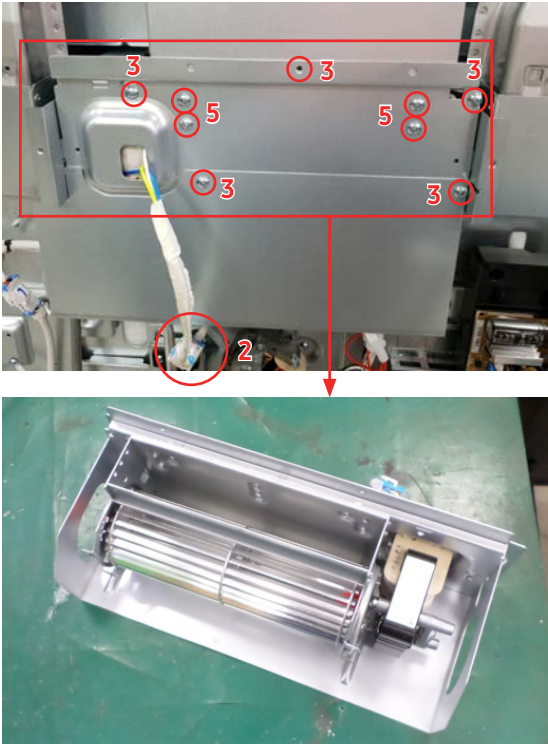
Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

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WARNING

Check the parts code of the knob and/or Switch Ignition in case of replacement.

Parts	Explanation Photo	Explanation
ASS'Y MOTOR		<ol style="list-style-type: none"> 1. Follow the Step A. 2. Disconnect both a terminal housings from the ASS'Y Motor. 3. Remove 5screws from a Bracket Motor. 4. Remove the ASS'Y Motor. 5. Remove each 4 screws of the Bracket Motor.

3. Disassembly and Reassembly

3-18 ASS'Y DOOR LATCH

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

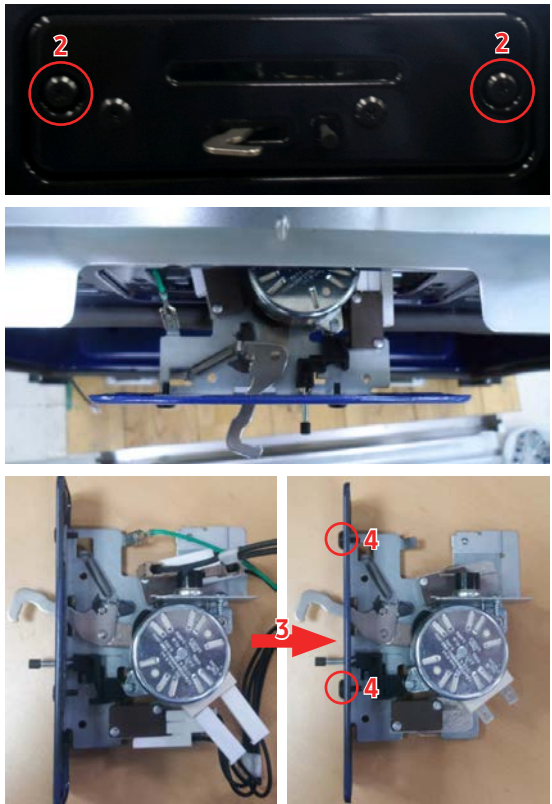
⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

⚠ CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>ASS'Y DOOR LATCH</p>		<ol style="list-style-type: none"> 1. Open the door fully. 2. Remove 2 screws from the Cavity Front. 3. Disconnect wires of the door latch mechanism. 4. Remove 2 screw from the Bracket-Latch. 5. Replace the ASS'Y Bracket Latch. 6. Test the ASS'Y Door Latch to make sure it is latching and unlatching properly.

3. Disassembly and Reassembly

3-19 ASS'Y LAMP

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

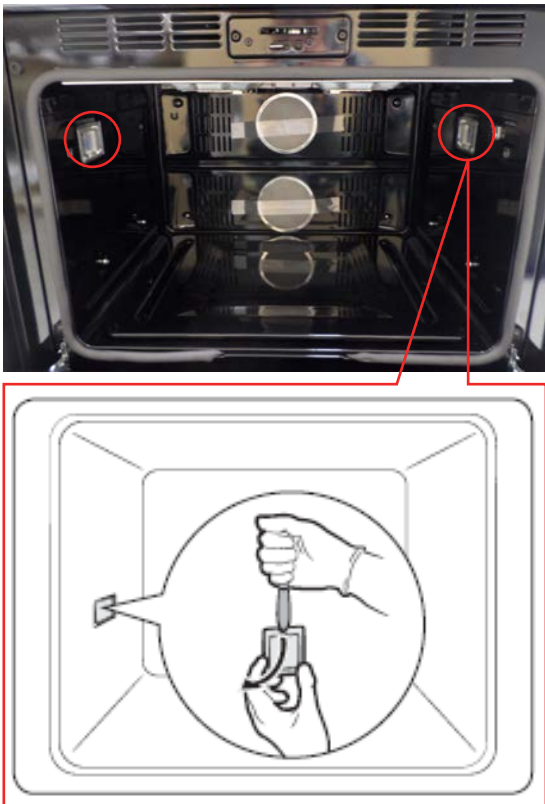
⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

⚠ CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>ASS'Y LAMP</p>		<ol style="list-style-type: none"> 1. Open the oven door and remove the racks from inside the oven. 2. The oven lamp is in both sides of the oven cavity. Hold the lower end of the cover of the lamp with one hand, and use flat-sharp tool such as a table knife to remove the cover. 3. Remove the oven lamp. 4. After replacement, Install Oven light cover.

3. Disassembly and Reassembly

3-20 SENSOR-THERMISTER

 **WARNING**

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

 **WARNING**

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

 **CAUTION**

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

3. Disassembly and Reassembly

SENSOR-THERMISTER

Parts	Explanation Photo	Explanation
<p>SENSOR-THERMISTER</p>	 <p>The first photo shows the interior of an oven with a red circle highlighting the location of the sensor thermistor in the upper left-hand corner. The second photo shows the sensor thermistor component with two screws, with red circles and the number '4' indicating the screws to be removed. The third photo shows a close-up of the wire connector with a red arrow pointing to it and the label 'Connector'.</p>	<ol style="list-style-type: none"> 1. Follow the Step A & D. 2. Remove the side racks from inside the oven. 3. Disconnect connector of the sensor thermistor to the rear of the range. 4. The oven sensor thermistor is in the upper left-hand corner of the oven cavity. Remove 2 screws and carefully pull the sensor wire leads until the wire connectors appear. 5. Reverse the order to install the oven temperature sensor. <p>Note If you can't access the wire connectors from inside the oven, remove the rear cover panel. Mark and disconnect the two wires going to the oven sensor thermistor.</p>

3. Disassembly and Reassembly

3-21 GASKET DOOR

Parts	Explanation Photo	Explanation
<p>GASKET DOOR</p>		<ol style="list-style-type: none"> 1. Open the oven door to its fully down position. 2. Pull the ends of the gasket out of the liner holes. 3. Pull the oven door gasket clips out of the holes until all of the clips are removed. 4. When the service is complete, Insert gasket clips in each mounting hole. Push the ends of gasket in end holes in the bottom of the front oven frame. 5. Close the oven door. <p>REASSEMBLY NOTE</p> <p>When you install the new gasket, make sure that all of the clips are seated in their liner holes, and that the ends of the gasket are pushed fully into their holes. Use the pointed end of a pencil to push the gasket ends into the holes.</p>

3. Disassembly and Reassembly

3-22 GLASS-INNER

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

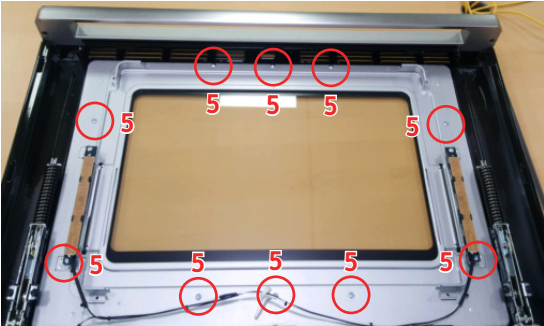
⚠ CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
GLASS-INNER		<ol style="list-style-type: none"> 1. Follow the Step D. 2. Remove 2 screws and pull down ASSY DOOR SUB. 3. Remove ASSY DOOR SUB. 4. Remove 4 screws and brackets and remove GLASS MIDDLE.

3. Disassembly and Reassembly

GLASS-INNER

Parts	Explanation Photo	Explanation
GLASS-INNER		<ol style="list-style-type: none">5. Remove 10 screws and BAFFLE DOOR.6. Remove GLASS-INNER.

3. Disassembly and Reassembly

3-23 ASS'Y POWER CORD

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

3. Disassembly and Reassembly

ASS'Y POWER CORD

Parts	Explanation Photo	Explanation
<p>ASS'Y POWER CORD</p>		<ol style="list-style-type: none"> 1. Turn off the electrical supply going to the range. 2. Remove 2 screws of cover access. 3. Remove 2 screws of bracket and pull it out from the range. 4. Remove a screw of the ground wire. 5. Disconnect the housing of the wire and replace it. 6. Pull on the power cord wire.

3. Disassembly and Reassembly

3-24 BURNER BROIL

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

3. Disassembly and Reassembly

BURNER BROIL

Parts	Explanation Photo	Explanation
<p>BURNER BROIL</p>		<ol style="list-style-type: none"> 1. Follow the Step A&D 2. Remove the Vent Motor. 3. Disconnect the connector of the HSI. 4. Remove 4 screw which assembled with Infrared Burner. 5. Support the burner with one hand and, remove the burner.

3. Disassembly and Reassembly

3-25 HOT SURFACE IGNITOR (HSI) of the BURNER BROIL, NOZZLE BROIL-BURNER, HOLDER BROIL-BURNER

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

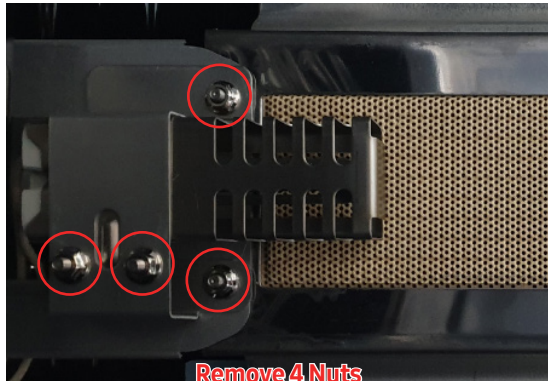

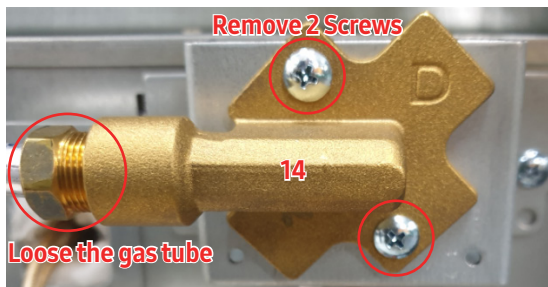
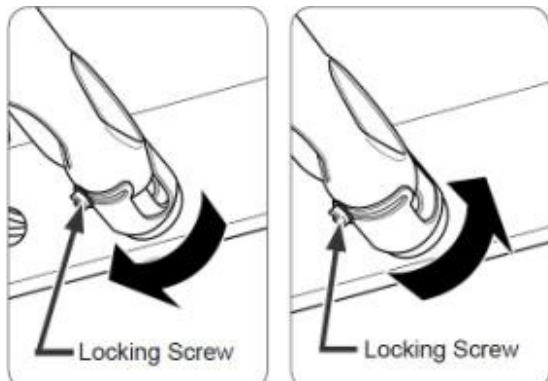

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

3. Disassembly and Reassembly

HOT SURFACE IGNITOR (HSI) of the BURNER BROIL, NOZZLE BROIL-BURNER, HOLDER BROIL-BURNER

Parts	Explanation Photo	Explanation
<p>HOT SURFACE IGNITOR (HSI) of the BURNER BROIL, NOZZLE BROIL-BURNER, HOLDER BROIL-BURNER</p>		
		<p>Continued</p> <p>12. To replace the HSI of the burner broil, remove 4 nuts assembled to HSI</p> <p>13. To replace the nozzle broil-burner, remove the gas nozzle with a 7/16-inch socket wrench.</p>
		<p>14. To remove the holder-broil burner, remove 2 screws supporting the holder-broil burner to the rear of the oven.</p> <p>15. When the service is complete, reverse the order to install burner broil, HSI, Nozzle and Holder broil burner.</p>
	<p>NOTE</p> 	<p> Note The oven burner flames can be adjusted by loosening the locking screw and opening or closing the air shutter at the base of the oven burner.</p>

3. Disassembly and Reassembly

3-26 BURNER BAKE

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

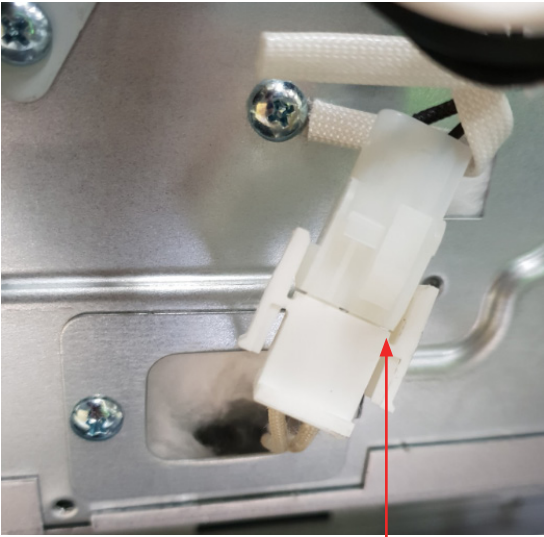
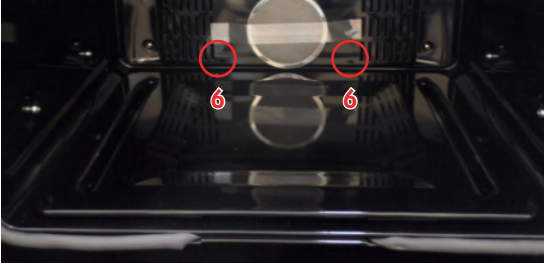

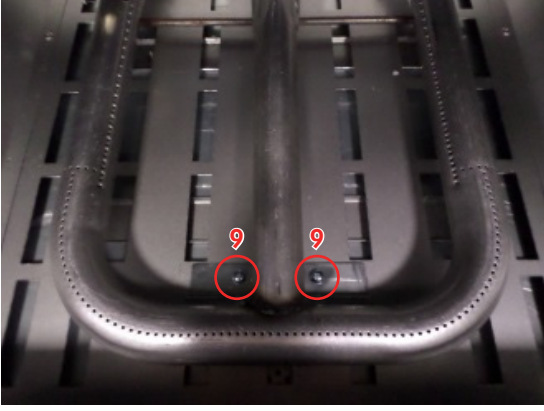
Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

3. Disassembly and Reassembly

BURNER BAKE

Parts	Explanation Photo	Explanation
<p>BURNER BAKE</p>	 <p>Connector</p>	<ol style="list-style-type: none"> 1. Turn off the electrical supply going to the range. 2. Shut off the gas shut-off valve in the gas supply line to the range. 3. Follow step A&D 4. Remove the side racks from inside the oven. 5. Pull on the wires or the connector until the wire connector appears from the back wall of the warming drawer opening. 6. Disconnect the connector of HSI of the burner bake. 7. Remove 2 screws from the back of the cavity floor. lift back to clear the front edge and lift out the cavity floor. 8. Remove 3 screws from the bracket bake-spreader. 9. Lift front the bracket bake-spreader and lift out the bracket-bake spreader. 10. Remove 2 screws from the Burner Bake and lift up the burner bake from the holder-bake burner on the bottom of the drawer.
	 <p>Cavity Floor</p>	
		
		

3. Disassembly and Reassembly

3-27 HOT SURFACE IGNITOR (HSI) of the BURNER BAKE NOZZLE BAKE-BURNER, HOLDER BAKE-BURNER

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

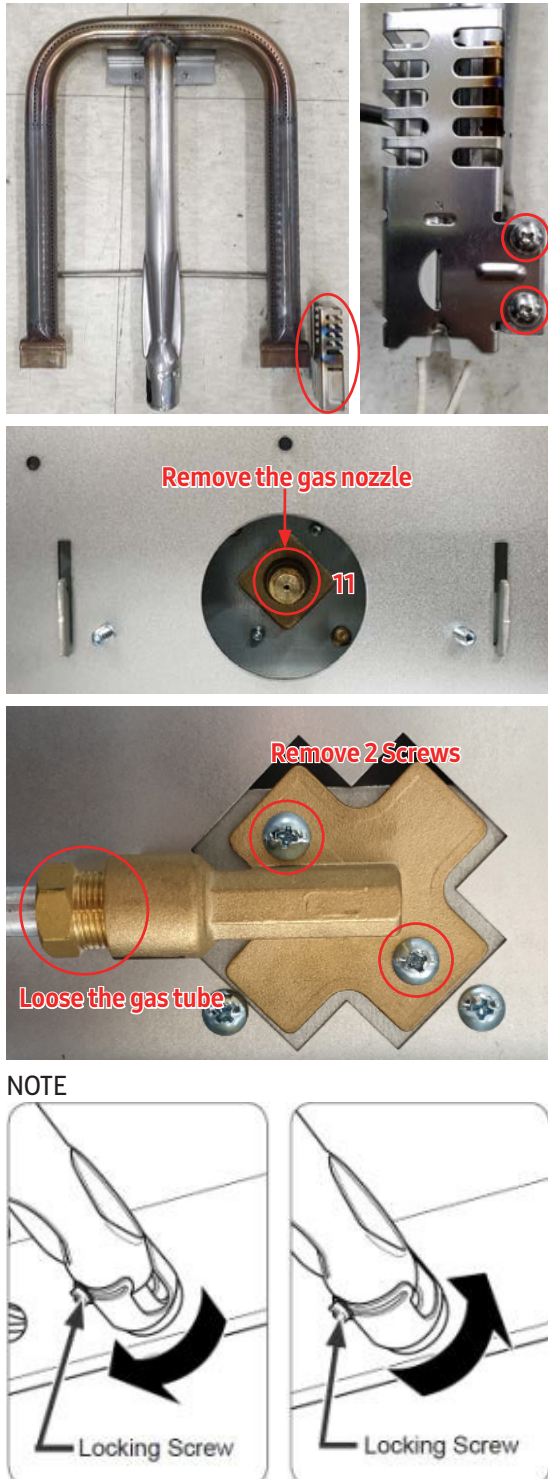

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

3. Disassembly and Reassembly

HOT SURFACE IGNITOR (HSI) of the BURNER BAKE NOZZLE BAKE-BURNER, HOLDER BAKE-BURNER

Parts	Explanation Photo	Explanation
<p>HOT SURFACE IGNITOR (HSI) of the BURNER BAKE NOZZLE BAKE-BURNER, HOLDER BAKE-BURNER</p>	 <p>Remove the gas nozzle</p> <p>11</p> <p>Remove 2 Screws</p> <p>Loose the gas tube</p> <p>NOTE</p> <p>Locking Screw</p> <p>Locking Screw</p>	<ol style="list-style-type: none"> 10. To replace the HSI of the burner bake, remove 2 screws assembled to HSI 11. To replace the nozzle bake-burner, remove the gas orifice with a 9/32-inch socket wrench. 12. To remove the holder-bake burner, loose the gas tube using tubing wrench and remove 2 screws supporting the holder-bake burner to the rear of the oven. 13. When the service is complete, reverse the order to install Burner bake, HSI, Nozzle, Holder bake-burner. <p> Note The oven burner flames can be adjusted by loosening the locking screw and opening or closing the air shutter at the base of the oven burner</p>

3. Disassembly and Reassembly

3-28 MOTOR CONVECTION (Upper / Lower)

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

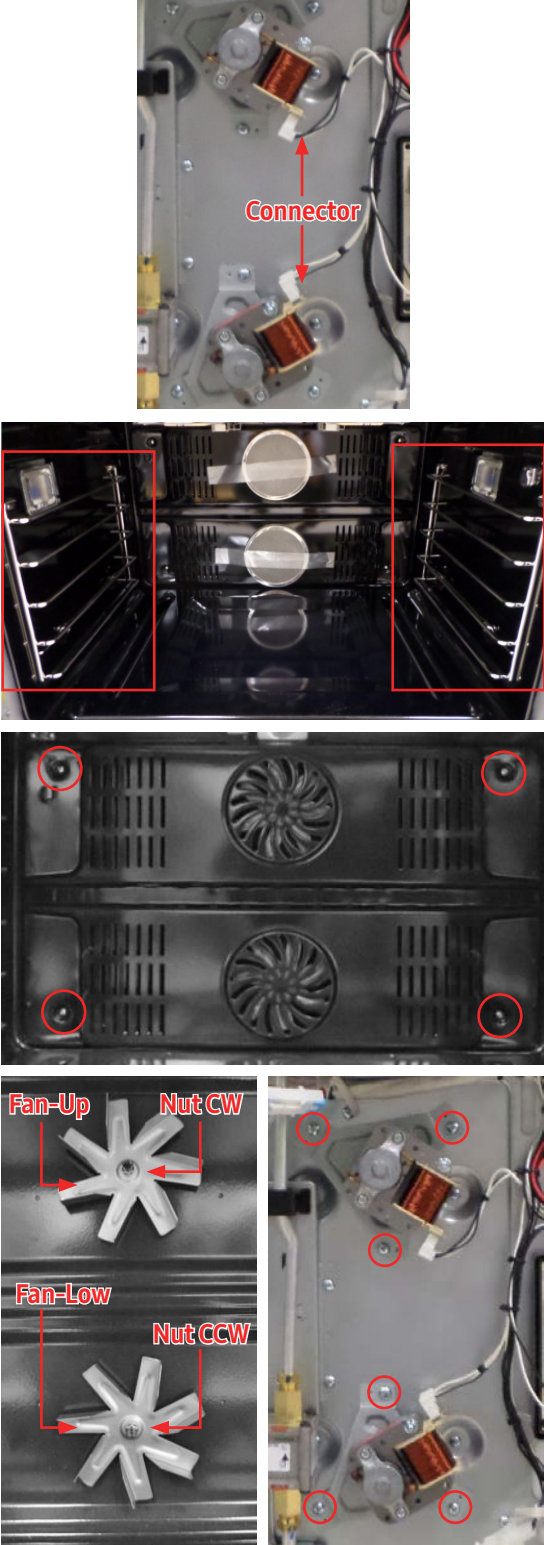

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

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3. Disassembly and Reassembly

MOTOR CONVECTION (Upper / Lower)

Parts	Explanation Photo	Explanation
<p>MOTOR CONVECTION (Upper / Lower)</p>		<ol style="list-style-type: none"> 1. Follow the Step A&D 2. Note, mark, and disconnect wires or connector going to the motor convection 3. Remove the side racks from inside the oven. 4. Remove 2 screws and the interior cover casing from the back wall of the oven cavity. 5. Remove the fan nut, fan blade from the motor convection shaft. (The convection nuts have CCW/CW threads to remove each nut.) 6. Pull the motor convection straight out while rotating the motor convection counterclockwise. 7. When the service is complete, reverse the order to install the motor convection. <p> Note Do not fasten the fan nuts too strong.</p>

3. Disassembly and Reassembly

3-29 ASS'Y VALVE SAFETY (Dual)

WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

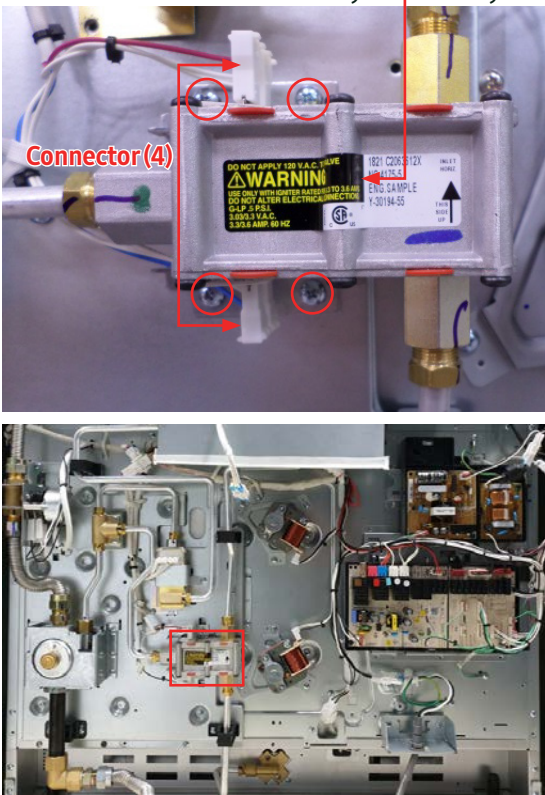

WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

CAUTION

When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>ASS'Y VALVE SAFETY (Dual)</p>		<ol style="list-style-type: none"> 1. Turn off the electrical supply going to the range. 2. Shut off the gas shut-off valve in the gas line to the range. 3. Follow the step A 4. Using a tubing wrench and a channel-lock wrench, disconnect the 3 gas lines from the ASS'Y VALVE SAFETY. Do not bend or crimp gas lines during removal. 5. Remove gas fittings from the ASS'Y VALVE SAFETY. 6. Disconnect 4 wire connector from the ASS'Y Valve Safety. 7. Remove 4 screws from the Ass'y Valve Safety. 8. Replace the Ass'y Valve Safety. <p> WARNING Cross-wiring the wires to the ASS'Y VALVE SAFETY creates an explosion hazard that can result in death, personal injury, and/or property and product damag.</p>

3. Disassembly and Reassembly

3-30 ASS'Y VALVE SAFETY (Single)

⚠ WARNING

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

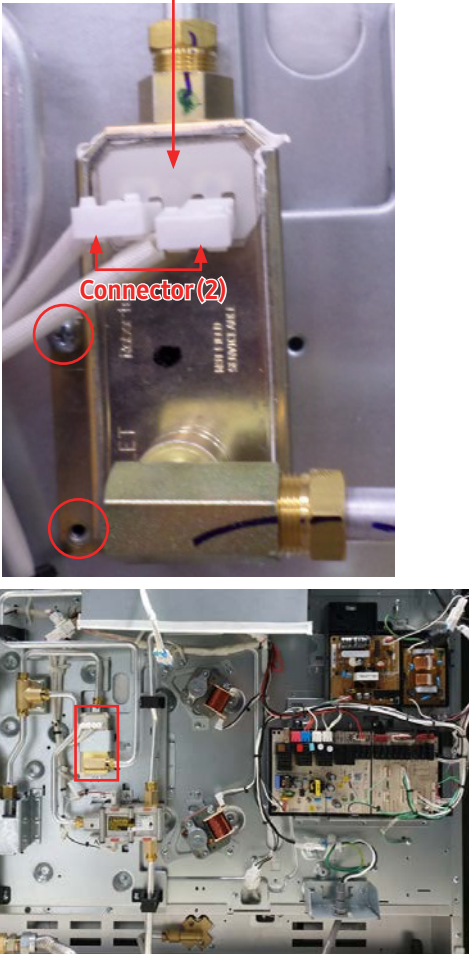
⚠ WARNING

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

Shut off gas supply to the range before servicing. Check all gas lines and fittings for leaks before operating the range. Replace all panels before operating range. Failure to do so can result in death or personal injury from explosion, fire, or asphyxiation.

⚠ CAUTION

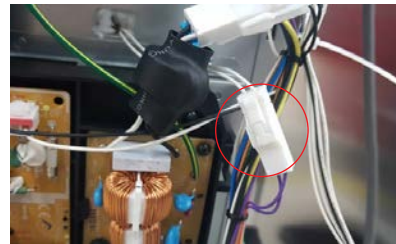
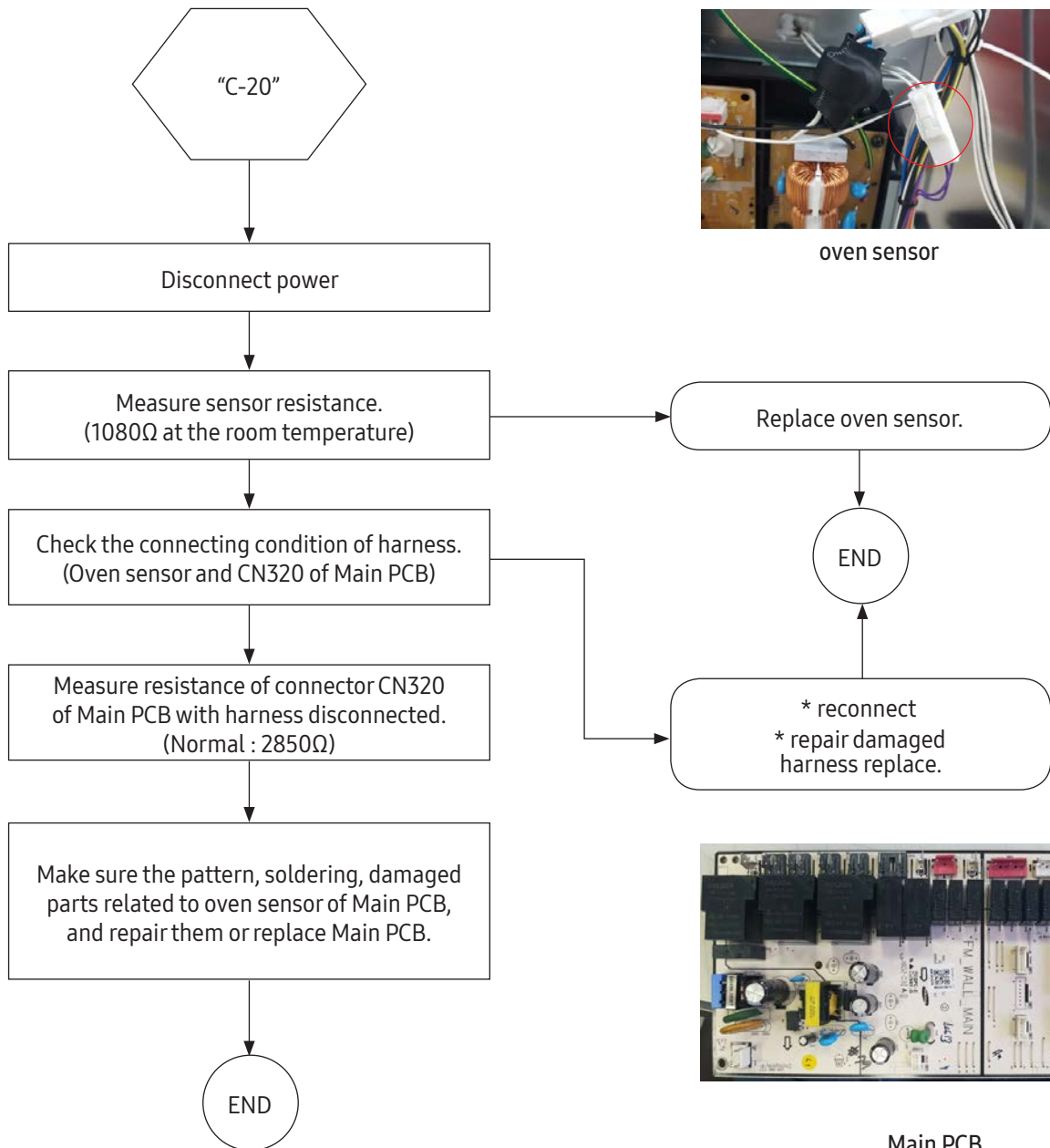
When you work on the gas range, be careful when handling sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
<p>ASS'Y VALVE SAFETY (Single)</p>	<p>Ass'y Valve Safety</p> 	<ol style="list-style-type: none"> 1. Turn off the electrical supply going to the range. 2. Shut off the gas shut-off valve in the gas line to the range. 3. Follow the step A 4. Using a tubing wrench and a channel-lock wrench, disconnect the 2 gas lines from the ASS'Y VALVE SAFETY. Do not bend or crimp gas lines during removal. 5. Remove gas fittings from the ASS'Y VALVE SAFETY. 6. Disconnect 2 wire connector from the ASS'Y Valve Safety. 7. Remove 2 screws from the Ass'y Valve Safety. 8. Replace the Ass'y Valve Safety. <p>⚠ WARNING Cross-wiring the wires to the ASS'Y VALVE SAFETY creates an explosion hazard that can result in death, personal injury, and/or property and product damage.</p>

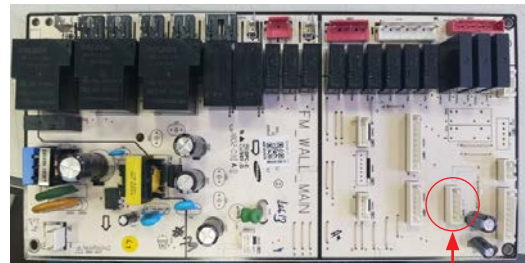
4. Troubleshooting

4-1 Failure Display Codes

Information code	Meaning	Solution
C-20	Oven sensor open (over 2950Ω)	1. Disconnect power. Open the back cover. Disconnect sensor harness from control Measure sensor resistance :1080Ω at the room temperature → If measured resistance is abnormal replace oven sensor.
	Oven sensor short (Under 930Ω)	2. If there is no problem with oven sensor, Please check wire harness terminals for damage. 3. Check resistance of oven sensor connectors on main PCB with wire harness disconnected (Normal:2850Ω)



oven sensor



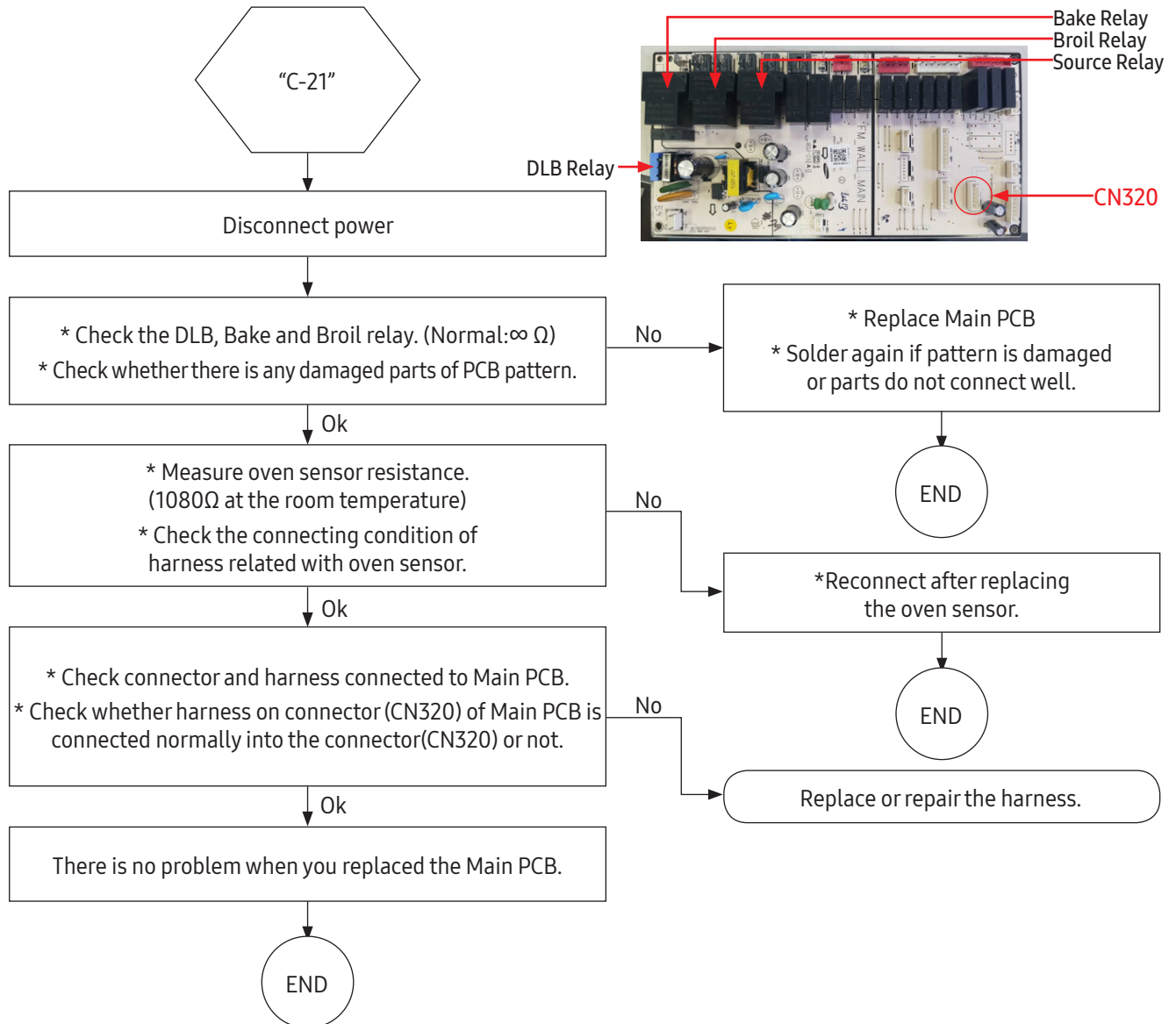
CN320

Main PCB
(PCB MAIN)

4. Troubleshooting

Failure Display Codes

Information code	Meaning	Solution
C-21	Oven internal over heating	<ol style="list-style-type: none"> 1. Disconnect power. Open the back cover. Disconnect sensor harness from control. Measure sensor resistance : 1080Ω at the room temperature → If measured resistance is abnormal replace oven sensor. 2. Check whether DLB of Main PCB, Broil, Bake and Convection heater relay are working normally. 3. Check whether there is any disconnection of harness which is linked with Main PCB. 4. Check the resistance of oven sensor connector on Main PCB with wire harness disconnected. (Normal : 2850Ω)

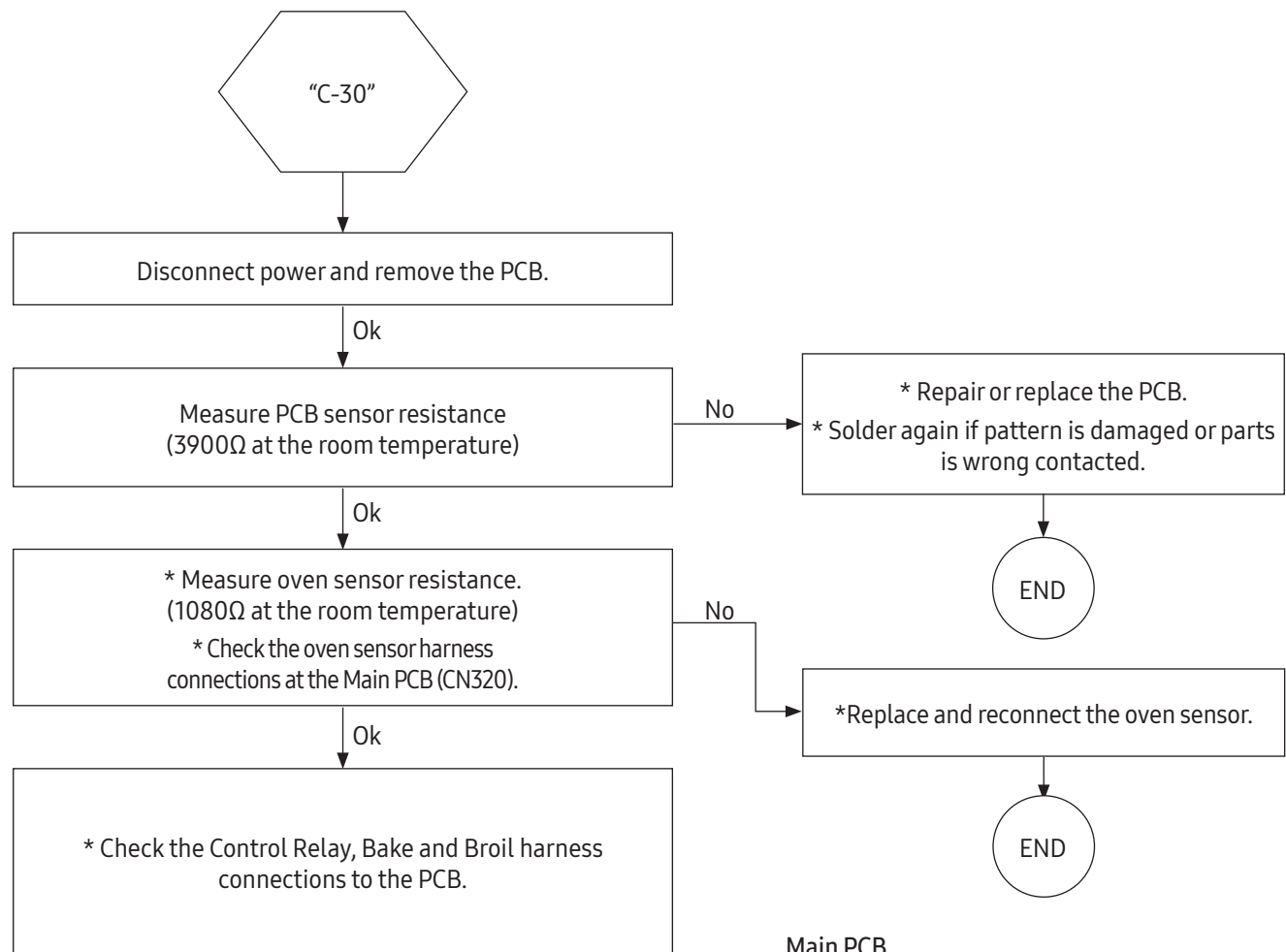


4. Troubleshooting

Failure Display Codes

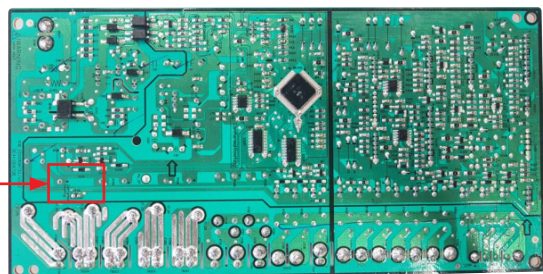
Oven sensor error

Failure code	Cause	Solution
C-30	PCB Sensor Opened	1. Disconnect electrical Power to the range. Remove the back cover. Measure the sensor resistance : 1080Ω at the room temperature → If measured resistance is abnormal replace oven sensor. 2. Replace the Main PCB.
	PCB Sensor Shorted	



Main PCB

PCB sensor (NTC thermistor)

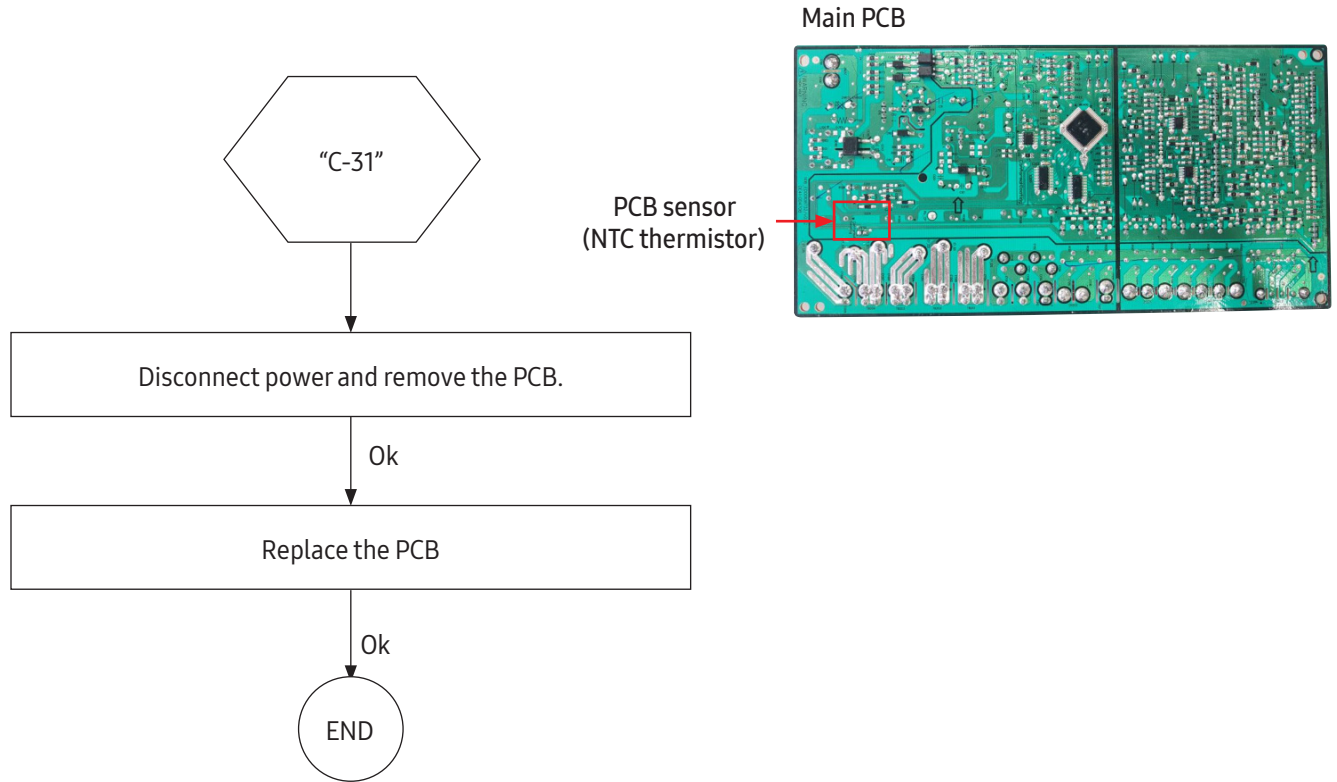


4. Troubleshooting

Failure Display Codes

Safety error

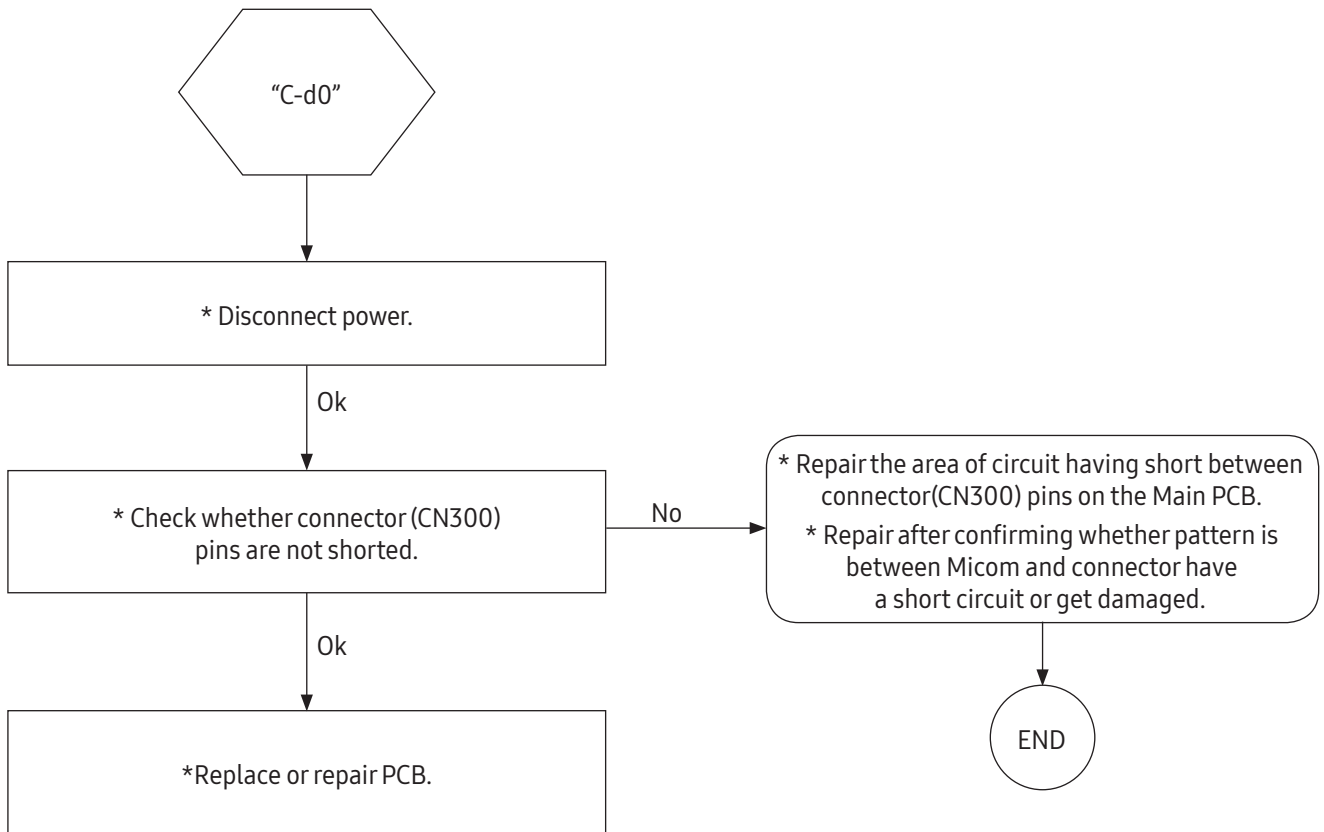
Failure code	CAUSE	Solution
C-31	PCB sensor temperature high	<ol style="list-style-type: none"> 1. Disconnect power. Open the back cover. Disconnect the two harness connectors to the oven temperature sensor resistance : 1080Ω at the room temperature → If measured resistance is abnormal replace oven sensor 2. Replace the PCB



4. Troubleshooting

Failure Display Codes

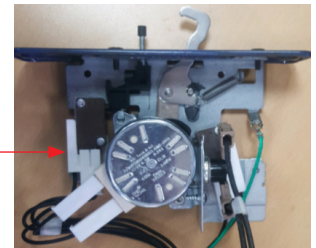
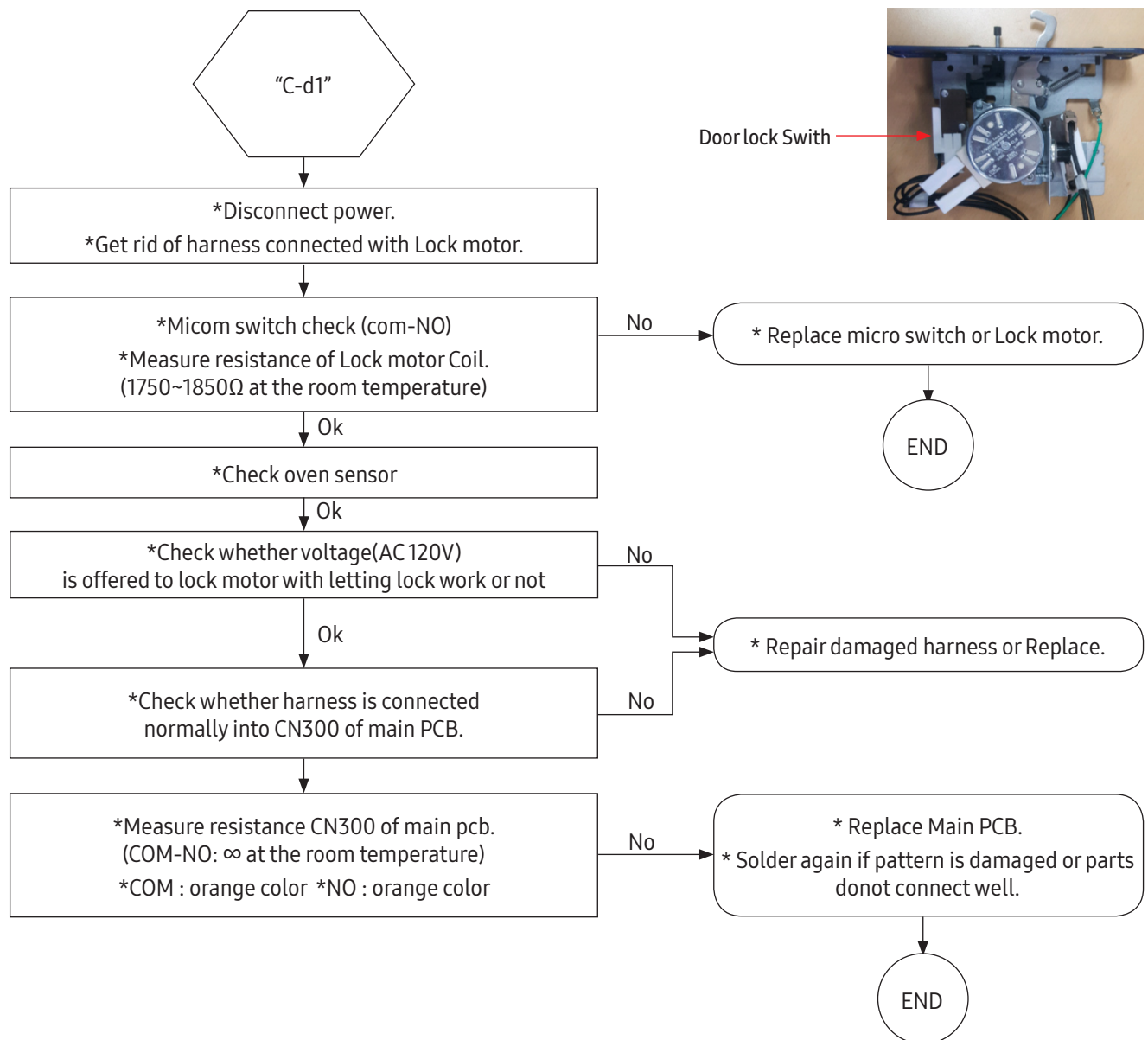
Information code	Meaning	Solution
C-d0	Short key	<ol style="list-style-type: none"> 1. Check whether wire harness has been inserted into connector of Main PCB or Sub PCB. 2. Check whether between Main PCB and connector or Sub PCB and connector have a short circuit . 3. If there is not a problem occurred with connector on Main PCB and Sub PCB, replace the PCB



4. Troubleshooting

Failure Display Codes

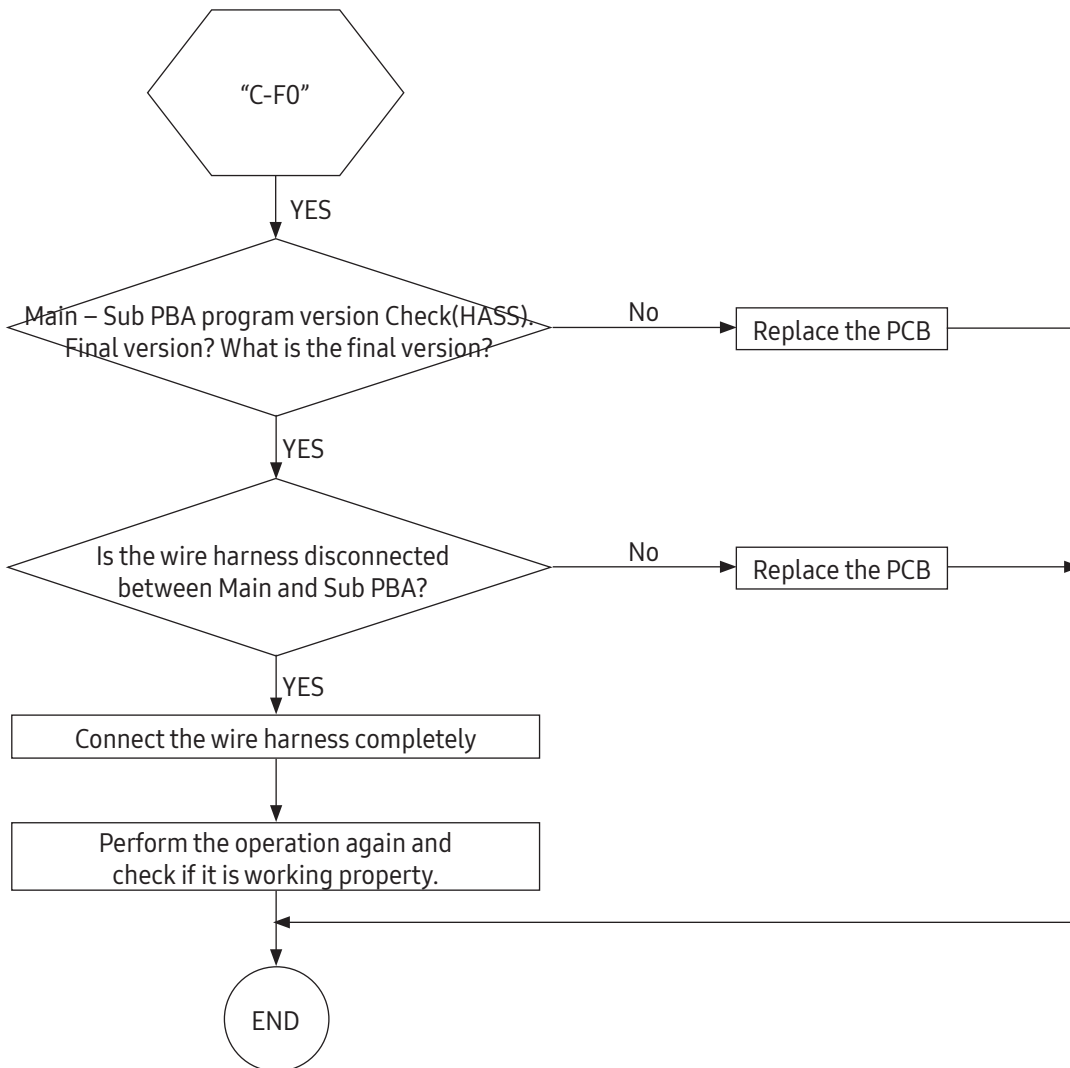
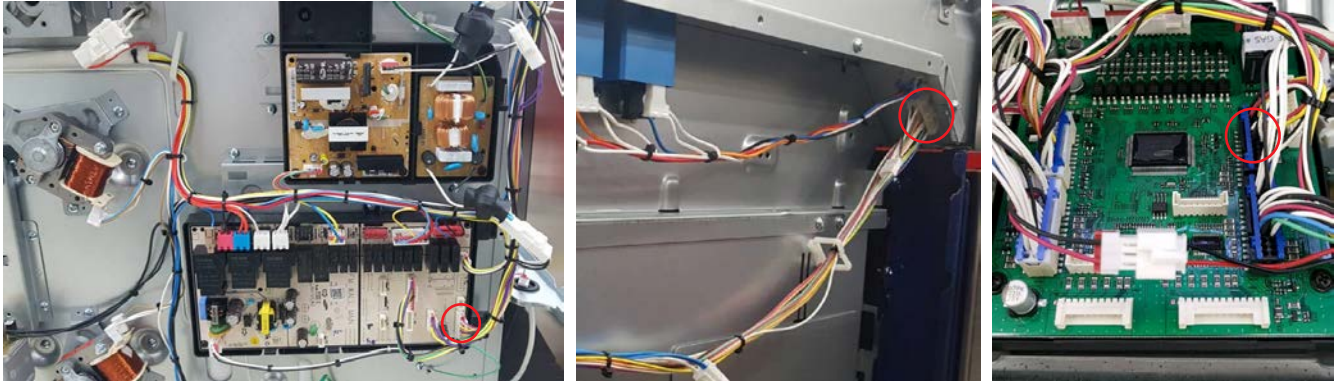
Information code	Meaning	Solution
C-d1	Door locking information	<ol style="list-style-type: none"> 1. Disconnect power. Open the back cover. Check whether harness has been connected with door lock switch and motor. 2. Confirm whether resistance value of door lock motor is normal. 3. With operating door lockout, measure a voltage of connector on harness which is linked with door lock motor. (Normal Voltage : AC 120V) 4. Check whether door locking switch is working.



4. Troubleshooting

Failure Display Codes

Information code	Meaning	Solution
C-F0	Main ↔ SUB communication information	<ol style="list-style-type: none"> 1. Check the versions of PBA program 2. Check wire harness. (Main PCB : CN470 , SUB : CNS200)



4. Troubleshooting

4-2 Error Trouble Shooting

SYMPTOM	DIAGNOSIS	REMEDY												
Oven not operating (No power, No display(LED))	<ul style="list-style-type: none"> * Measure the input voltage at the plug. (120VAC) * Measure the input voltage at SMPS, NOISE FILTER PCB. 	<ul style="list-style-type: none"> * Check the circuit breaker or fuse for the range circuit. * Make sure all wires are connected to the PCBs. 												
	<ul style="list-style-type: none"> * Measure the voltage at the CN100 connector on the Main PCB. (L1~N:120VAC) 	<ul style="list-style-type: none"> * Repair or replace the loose or disconnected harness. 												
	<ul style="list-style-type: none"> * Make sure that the bake, broil, and source control relays on the Main PCB are working normally. * Make sure the harness connections at the Main PCB terminals have not come loose or disconnected. 	<ul style="list-style-type: none"> * Replace the Main PCB if a relay has been damaged; relay is not working properly; or if the PCB has a crack in it. * Tighten or reconnect the PCB harness connections. * After confirming the harness has been connected properly to the PCB, take the following action: <ul style="list-style-type: none"> - Repair or replace the harness. - Replace the PCB. 												
	<ul style="list-style-type: none"> * Measure the resistance between both ends of the oven temperature sensor. (normal : 1080 ohms) * Make sure the harness connections at the PCB connector have not come loose or disconnected 	<ul style="list-style-type: none"> * Replace the oven temperature sensor. * Repair or replace the harness. * If problem still exists after confirming the oven temperature sensor and harness are working and connected properly, replace the PCB. 												
Oven temperature rises too slowly.	<ul style="list-style-type: none"> * Make sure the harness connections at the PCB terminals have not come loose or disconnected. 	<ul style="list-style-type: none"> * Repair or replace the harness. 												
	<ul style="list-style-type: none"> * Make sure the broil and bake burners have been adjusted properly. * Make sure the oven burner orifices are sized properly for the type of gas being used. 	<ul style="list-style-type: none"> * Open or close the air shutter at the base of the burners to optimize the flame pattern. * Replace with properly sized orifices: <table border="1"> <thead> <tr> <th>Burner</th> <th>NG</th> <th>LP</th> </tr> <tr> <th>Orifice</th> <th>mm</th> <th>mm</th> </tr> </thead> <tbody> <tr> <td>Broil</td> <td>1.35*2</td> <td>0.79*2</td> </tr> <tr> <td>Bake</td> <td>2.34</td> <td>1.40</td> </tr> </tbody> </table> 	Burner	NG	LP	Orifice	mm	mm	Broil	1.35*2	0.79*2	Bake	2.34	1.40
	Burner	NG	LP											
Orifice	mm	mm												
Broil	1.35*2	0.79*2												
Bake	2.34	1.40												
<ul style="list-style-type: none"> * Make sure that the bake, broil and source control relays on the PCB are working normally. 	<ul style="list-style-type: none"> * Repair or replace the faulty relay. * Make sure all harness connections are properly connected. * Replace the PCB. 													



4. Troubleshooting

Error Trouble Shooting

SYMPTOM	DIAGNOSIS	REMEDY											
Oven temperature rises too fast.	* The oven temperature exceeds 400°F (202°C) within 10 minutes of room temperature operation.	* Repair or replace the faulty broil or bake relay.											
	* Make sure the harness is wired correctly and does not have a short circuit in it.	* Repair or replace the harness.											
	* Make sure the oven burner orifices are sized properly for the type of gas being used.	* Replace with properly sized orifices: <table border="1"> <thead> <tr> <th>Burner</th> <th>NG</th> <th>LP</th> </tr> </thead> <tbody> <tr> <td>Orifice</td> <td>mm</td> <td>mm</td> </tr> <tr> <td>Broil</td> <td>1.35*2</td> <td>0.79*2</td> </tr> <tr> <td>Bake</td> <td>2.34</td> <td>1.40</td> </tr> </tbody> </table> * Replace the PCB.	Burner	NG	LP	Orifice	mm	mm	Broil	1.35*2	0.79*2	Bake	2.34
Burner	NG	LP											
Orifice	mm	mm											
Broil	1.35*2	0.79*2											
Bake	2.34	1.40											
Oven lamp is not working.	* Make sure the door lamp switch's LED is not turned on.	* Check Lamp switch whether it turn on or not.											
	* Check for a burned out bulb.	* Replace with a 40 watt appliance bulb.											
	* Check the harness connections, the oven lamp relay, and the source control relay.	* Repair or replace loose or disconnected harness. * Replace any malfunctioning relays.											
	* Measure the resistance across the light ballast/socket terminals. (Normal : infinite)	* Replace the light ballast/socket. * Replace the PCB.											
Convection fan is not rotating.	* Check the harness and harness connector on the PCB and at the terminals at each convection motor.	* Reconnect a loose or disconnected harness or replace a damaged harness.											
	* Check the convection fan relay and the connector on the Main PCB.	* Replace the malfunctioning relay. * Replace the Main PCB.											
	* Measure the resistance across the fan motor terminals.	* Replace the burned out fan motor.											
The oven smells and/or smokes when it is initially started.	* This is normal.	* The insulation around the oven will give off a slight odor until the adhesive has cured. This should go away after the first couple of oven uses. * The oven is designed to burn off dirt and/or foreign substances. * If the oven is dirty, run a self-cleaning cycle. (See the "User Manual".) A ventilation system should be used while the oven is self cleaning.											
The LED display is dim or not visible	* Check the control box harness and connectors on the Sub PCB and dimming PBA. * LED display is inferior.	* Reconnect securely or replace a damaged control box harness. * Replace the PCB assembly. (Sub and/or dimming PBA)											
The buzzer does not beep when Lamp switch on or cooking start.	* Check to see if the buzzer wire connected well. * The buzzer does not work on the dimming PCB.	* Check buzzer wire, connect. If wire damaged, replace Wire Harness. * Replace the dimming PCB.											

4. Troubleshooting

Error Trouble Shooting

SYMPTOM	DIAGNOSIS	REMEDY
None of the cooktop burners will light.	* There is no electrical power to the range.	* Plug in the power cord and/or reset the circuit breaker for the range.
	* The gas supply valve to the range is closed.	* Open the gas supply valve.
	* Check the terminals on the spark module for voltage.	* Replace the faulty spark module.
	* Check for crimped or broken gas line between the pressure gas regulator and the surface burner control manifold.	* Replace the damaged gas line.
	* Gas pressure regulator switch is closed.	* Replace the gas pressure regulator.
One cooktop burner does not light.	* Check the harness connections at the spark module.	* Reconnect loose connection or replace damaged harness.
	* Check the spark module.	* Disconnect the spark module terminal for the nonworking burner. If no voltage is measured, replace the spark module.
	* Check the electrode for that burner.	* Disconnect the electrode and check whether electrode wire or tip is broken. Replace the faulty electrode.
	* Check for a dirty surface burner orifice.	* Clean and/or replace the surface burner orifice.  Note Replacement of orifice should always be the same size as the removed one.
	* Check for crimped or broken gas lines.	* Replace damaged gas lines.
	* Faulty surface burner control.	* Each surface burner control is an integral part of the surface burner control manifold. Replace the manifold.
All surface burners will light, but don't stay lit.	* Check for crimped gas line between the pressure gas regulator and the surface burner control manifold.	* Replace the damaged gas line.
	* Faulty gas pressure regulator.	* Replace the gas pressure regulator.
Oven cooktop burner lights, but doesn't stay lit.	* Check for a dirty surface burner orifice.	* Clean and/or replace the surface burner orifice.  Note Replacement of orifice should always be the same size as the removed one.
	* Check for a crimped gas line.	* Replace the crimped gas line.
	* Faulty surface burner control.	* Each surface burner control is an integral part of the surface burner control manifold. Replace the manifold.
Cooktop burner flames are soft blue or have yellow tips.	* This is normal.	* Soft blue flames are normal flames for NG operation. * Soft blue flames with yellow tips are normal flames for LP operation.

4. Troubleshooting

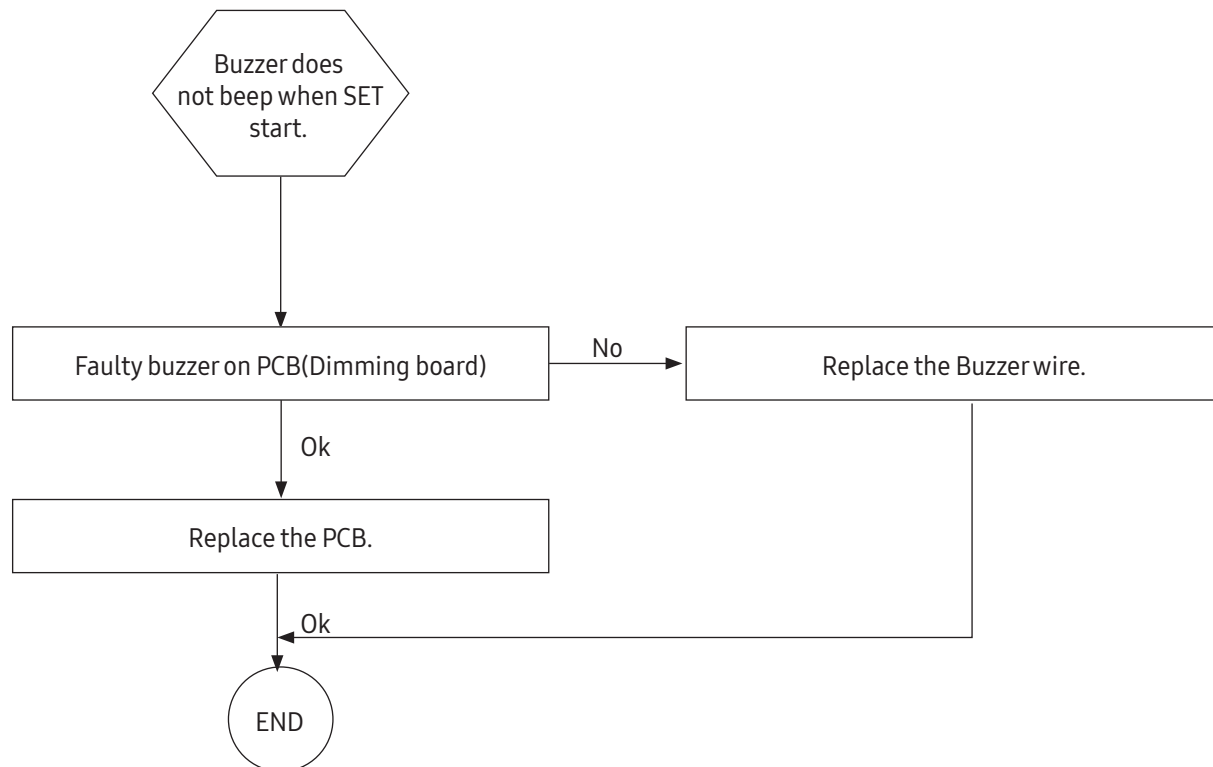
Error Trouble Shooting

SYMPTOM	DIAGNOSIS	REMEDY		
Cooktop burner flames are mostly yellow.	* Check for proper sized orifices:	* Replace any wrong sized orifices.		
			NG	LP
	LF		1.40 / 1.40 / 0.85	0.78 / 0.78 / 0.46
	LR		1.27 / 1.27 / 0.70	0.74 / 0.74 / 0.46
	RF	1.40 / 1.40 / 0.85	0.78 / 0.78 / 0.46	
	RR	1.27 / 1.27 / 0.70	0.74 / 0.74 / 0.46	
	CF	1.92	1.12	
	CR	1.92	1.12	
	* Check for crimped or cracked gas line between the pressure gas regulator and the surface burner control manifold.	* Replace the damaged gas line.		
	* Faulty gas pressure regulator.	* Replace the gas pressure regulator.		

4. Troubleshooting

4-3 Control parts

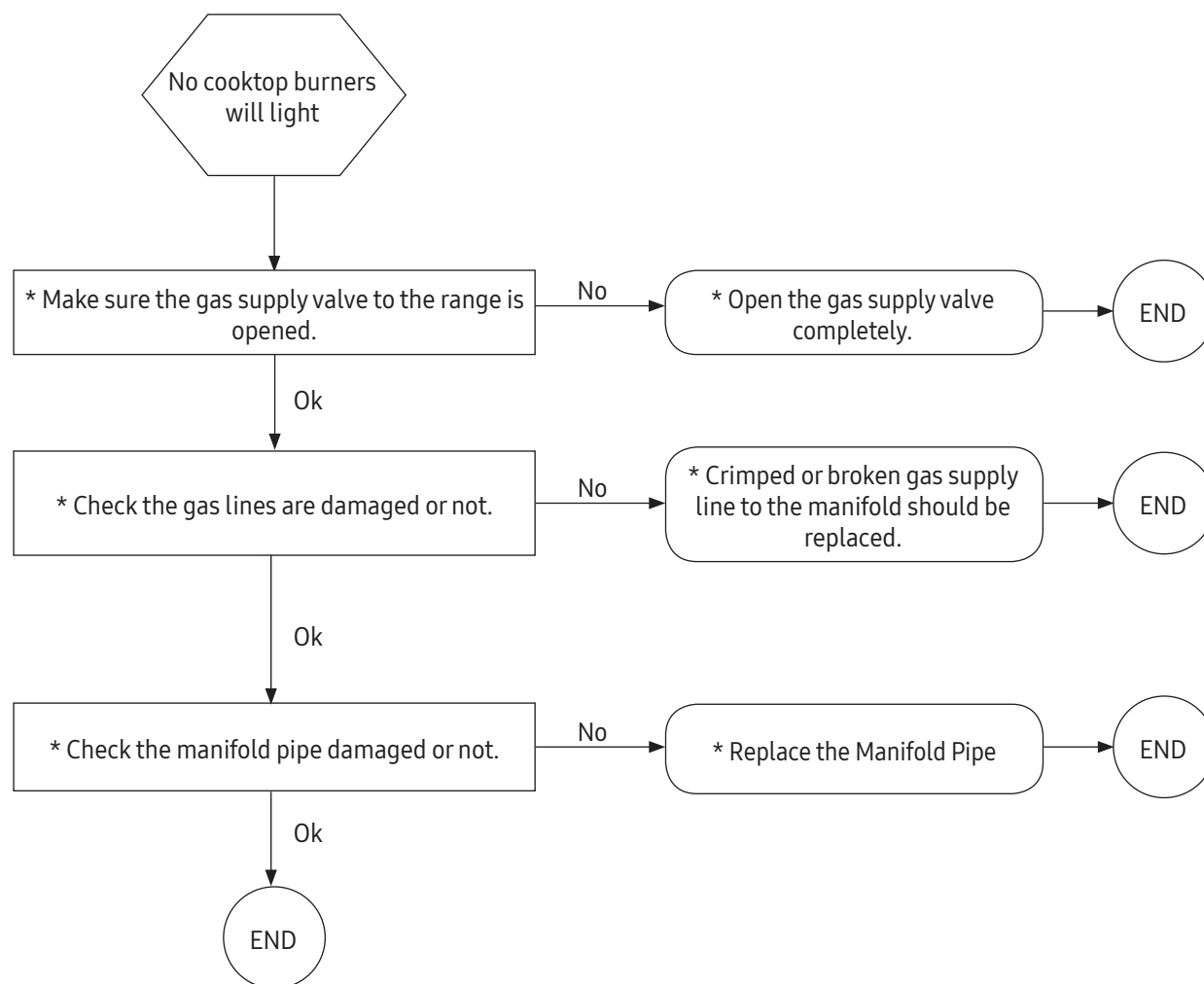
- Buzzer does not beep when Lamp switch turn on or Cooking start



4. Troubleshooting

4-4 Cooktop parts

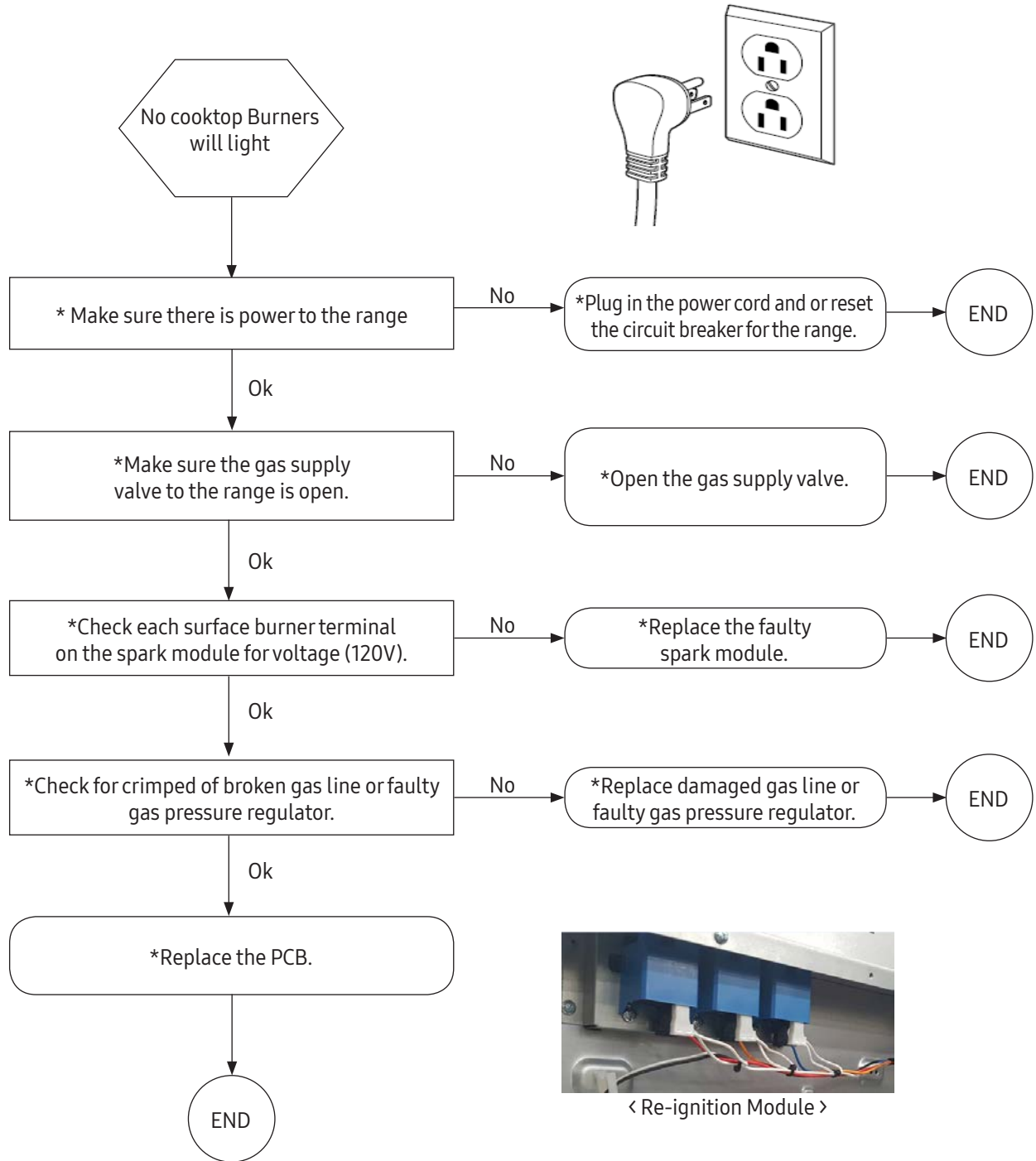
■ Cooktop burner not lighted [Gas malfunction]



4. Troubleshooting

Cooktop parts

■ Cooktop burners not lighted [Electric malfunction]

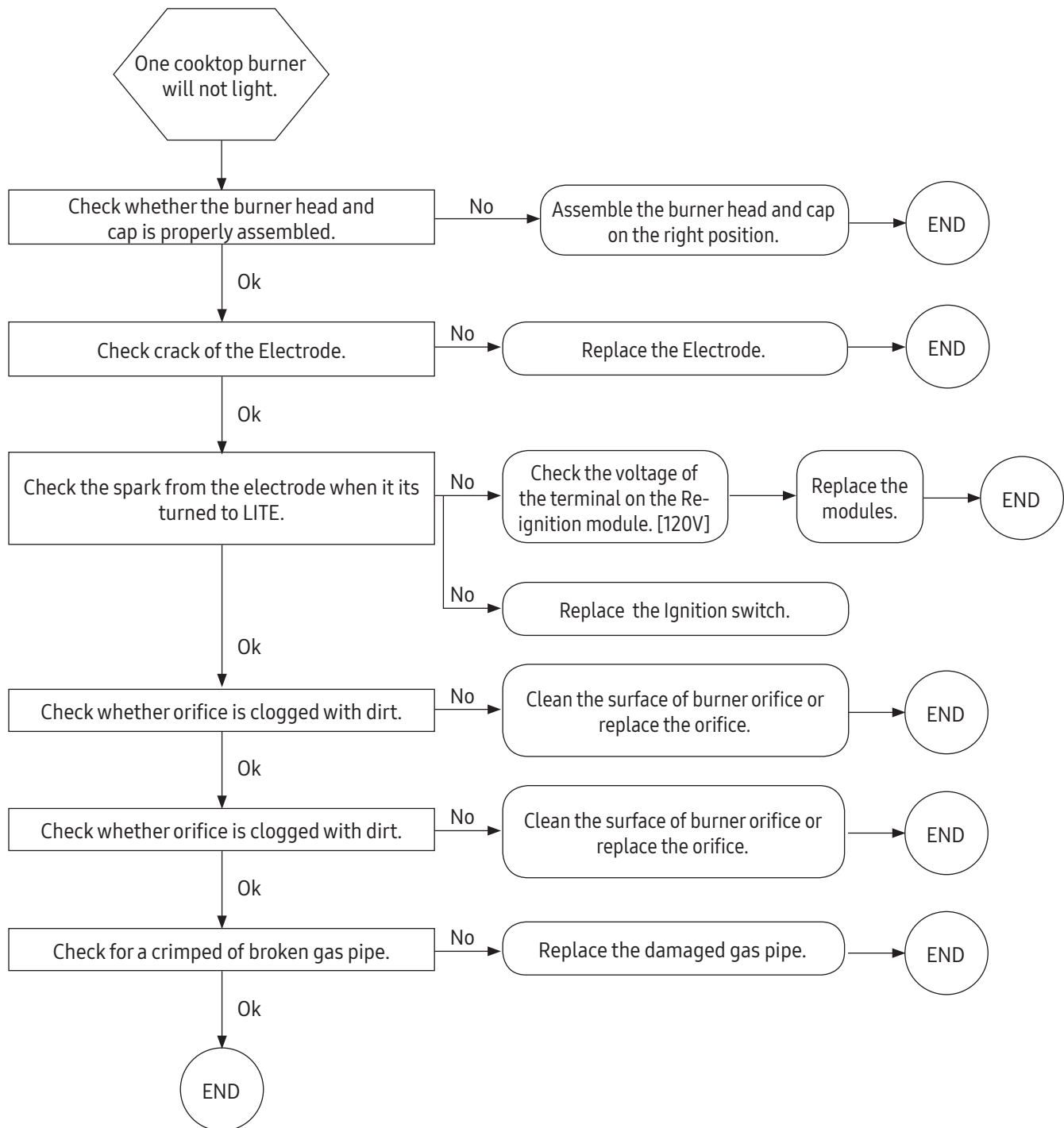


< Re-ignition Module >

4. Troubleshooting

Cooktop parts

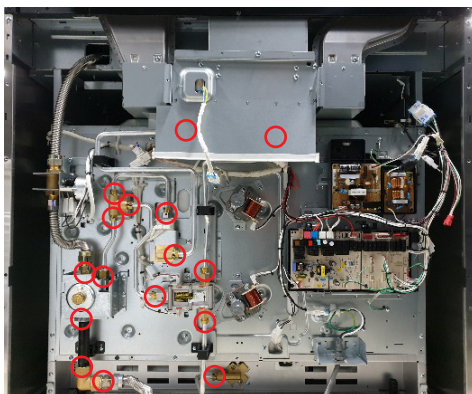
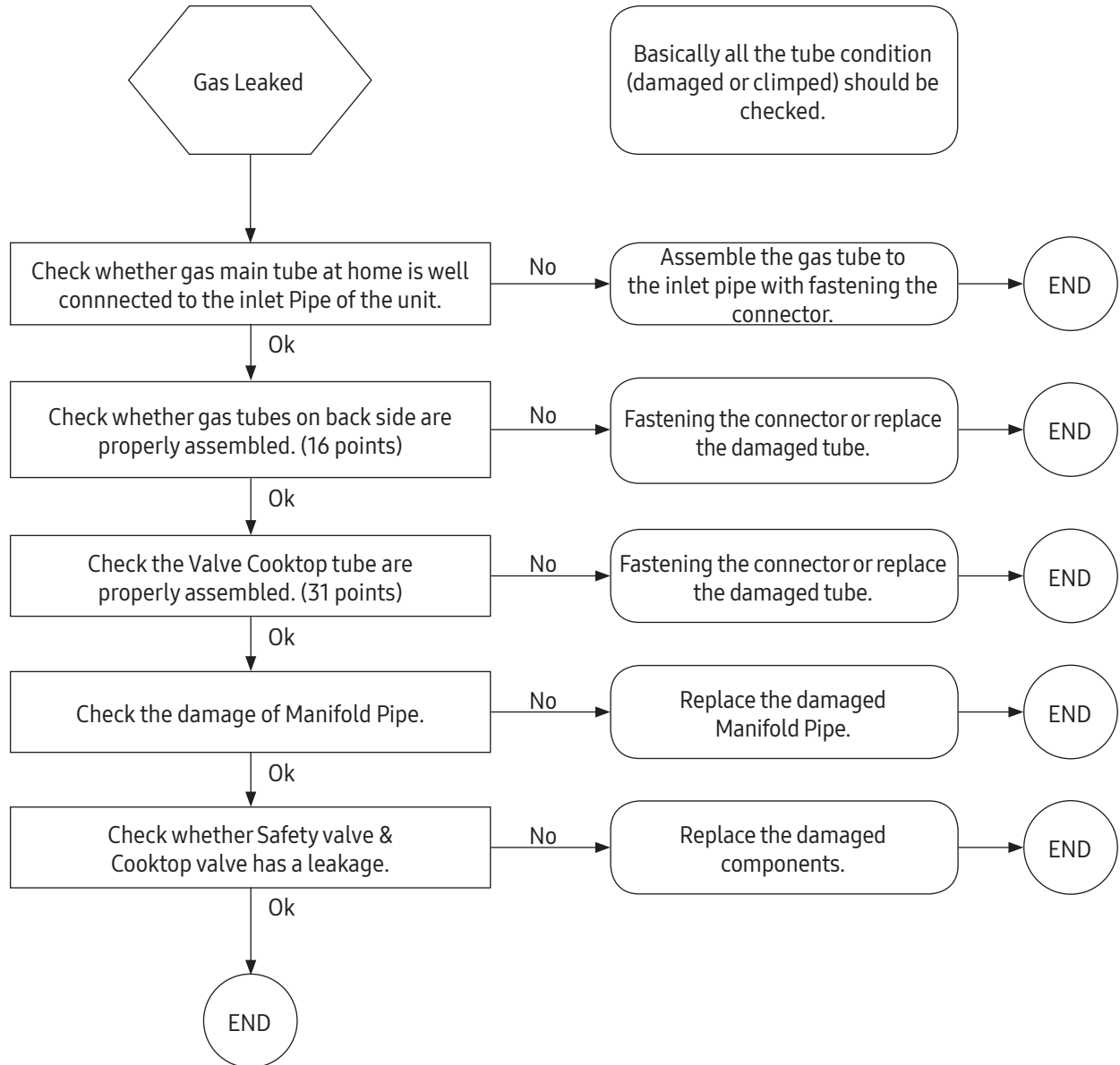
■ One cooktop burner not lighted [Electric malfunction / User error]



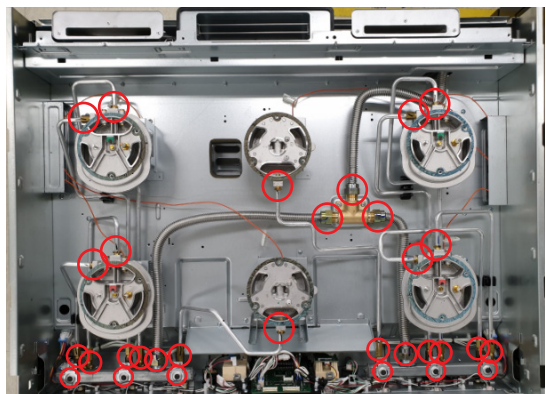
4. Troubleshooting

Cooktop / Oven parts

■ Gas Leaked



Back Side (16 Points)

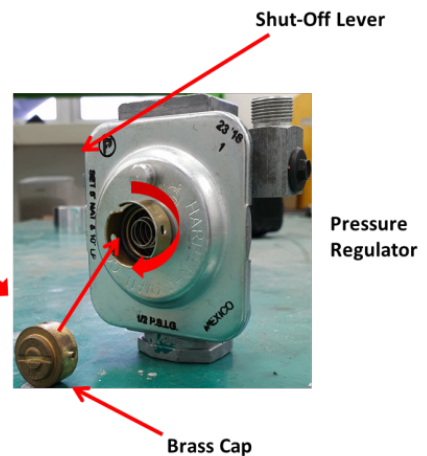
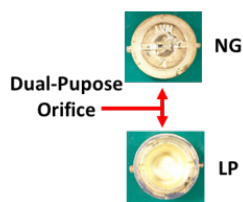
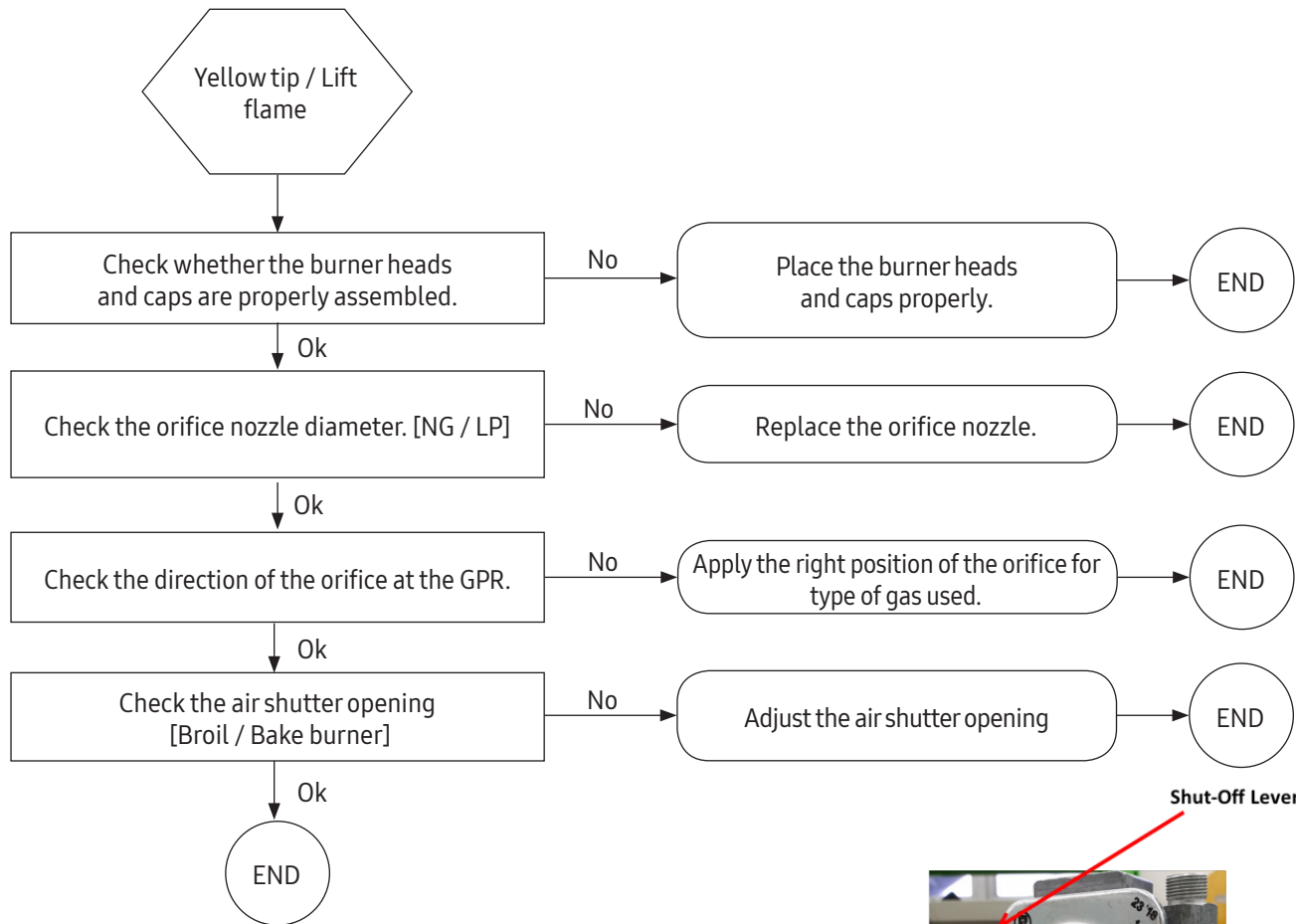


Valve Cooktop (31 Points)

4. Troubleshooting

Cooktop / Oven parts

■ The flame looks abnormal. [Yellow tip / Lift flame]

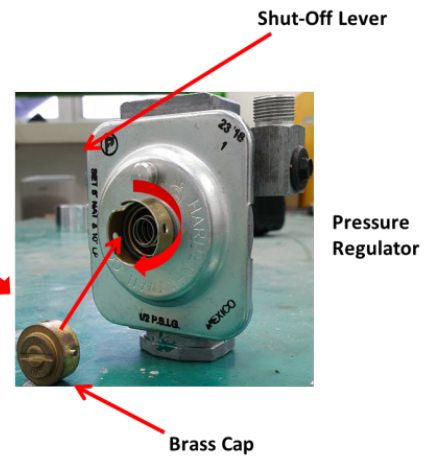
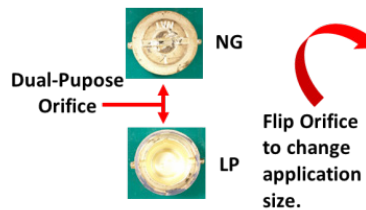
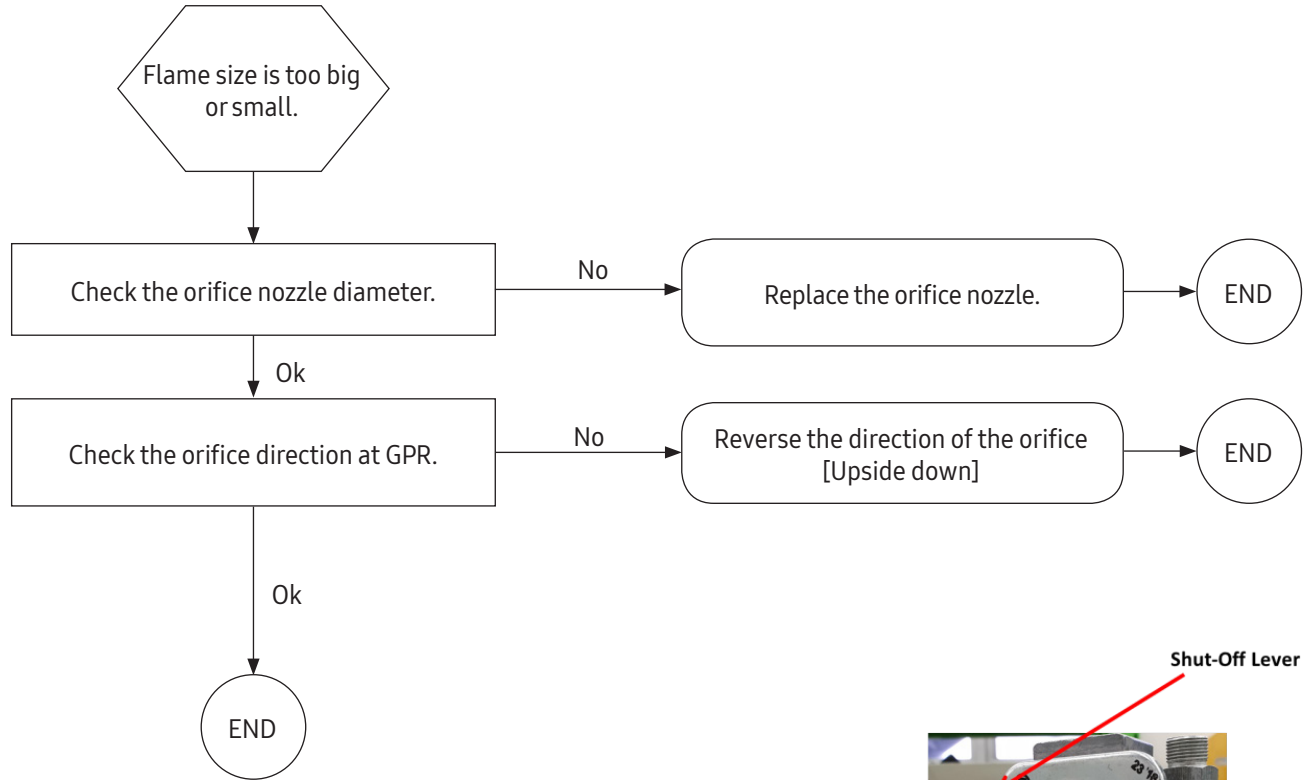


BURNER ORIFICE SIZES AND OUTPUT RATINGS (LP Gas [Propane] 10 in WCP)			BURNER ORIFICE SIZES AND OUTPUT RATINGS (Natural Gas 5 in WCP)		
Burner Location	BTU Rate	Orifice Size [mm]	Burner Location	BTU Rate	Orifice Size [mm]
RF	16,500	In : 0.46 / Out : 0.78 (2 pcs)	RF	22,000	In : 0.85 / Out : 1.40 (2 pcs)
LF	16,500	In : 0.46 / Out : 0.78 (2 pcs)	LF	22,000	In : 0.85 / Out : 1.40 (2 pcs)
RR	14,500	In : 0.46 / Out : 0.74 (2 pcs)	RR	18,000	In : 0.70 / Out : 1.27 (2 pcs)
LR	14,500	In : 0.46 / Out : 0.74 (2 pcs)	LR	18,000	In : 0.70 / Out : 1.27 (2 pcs)
CF	14,500	1.12	CF	18,000	1.92
CR	14,500	1.12	CR	18,000	1.92
BROIL	14,500	0.79(2pcs)	BROIL	18,000	1.35(2pcs)
BAKE	23,000	1.4	BAKE	25,000	2.34

4. Troubleshooting

Cooktop parts

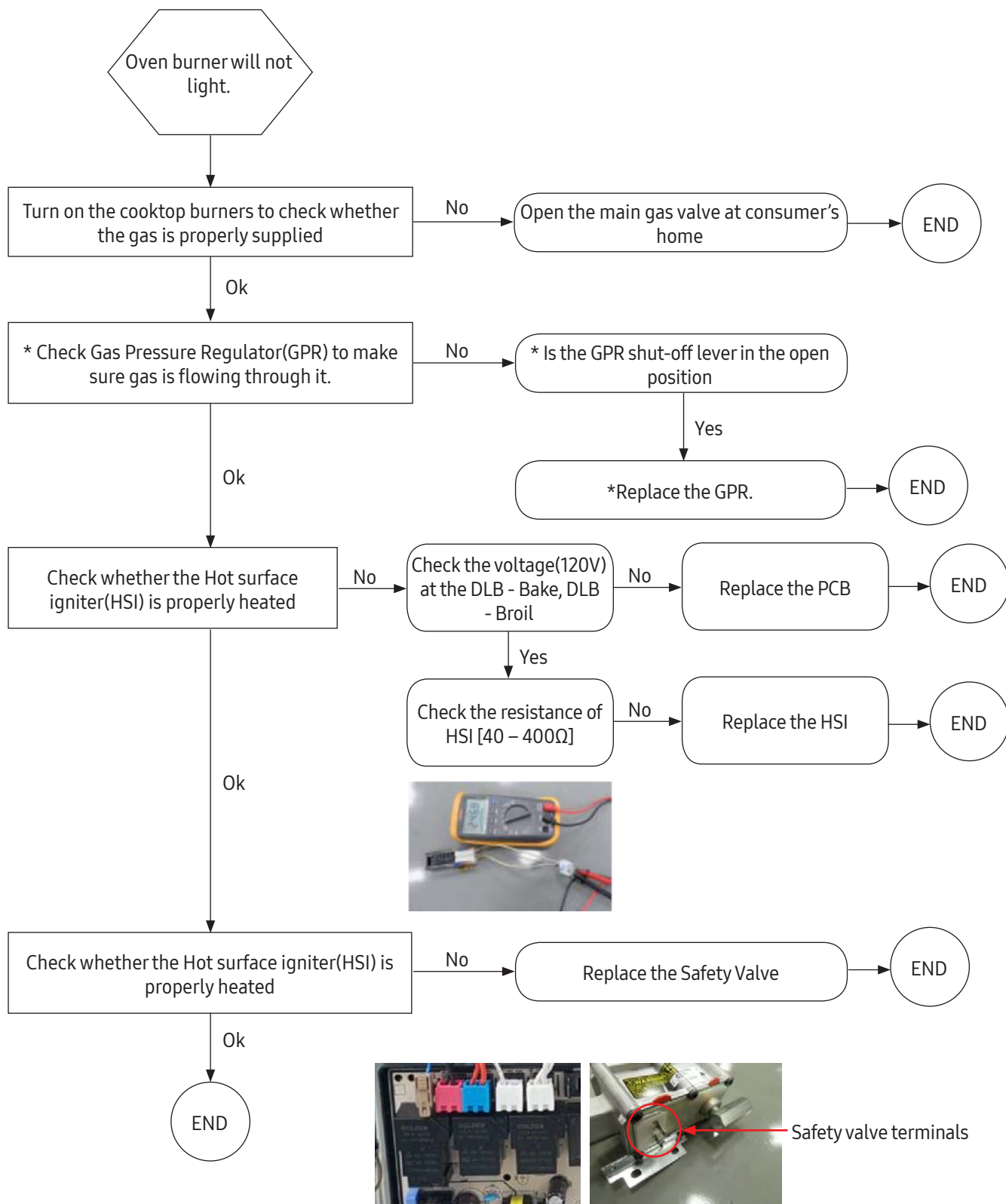
■ Flame size is too big or too small



4. Troubleshooting

4-5 Oven parts

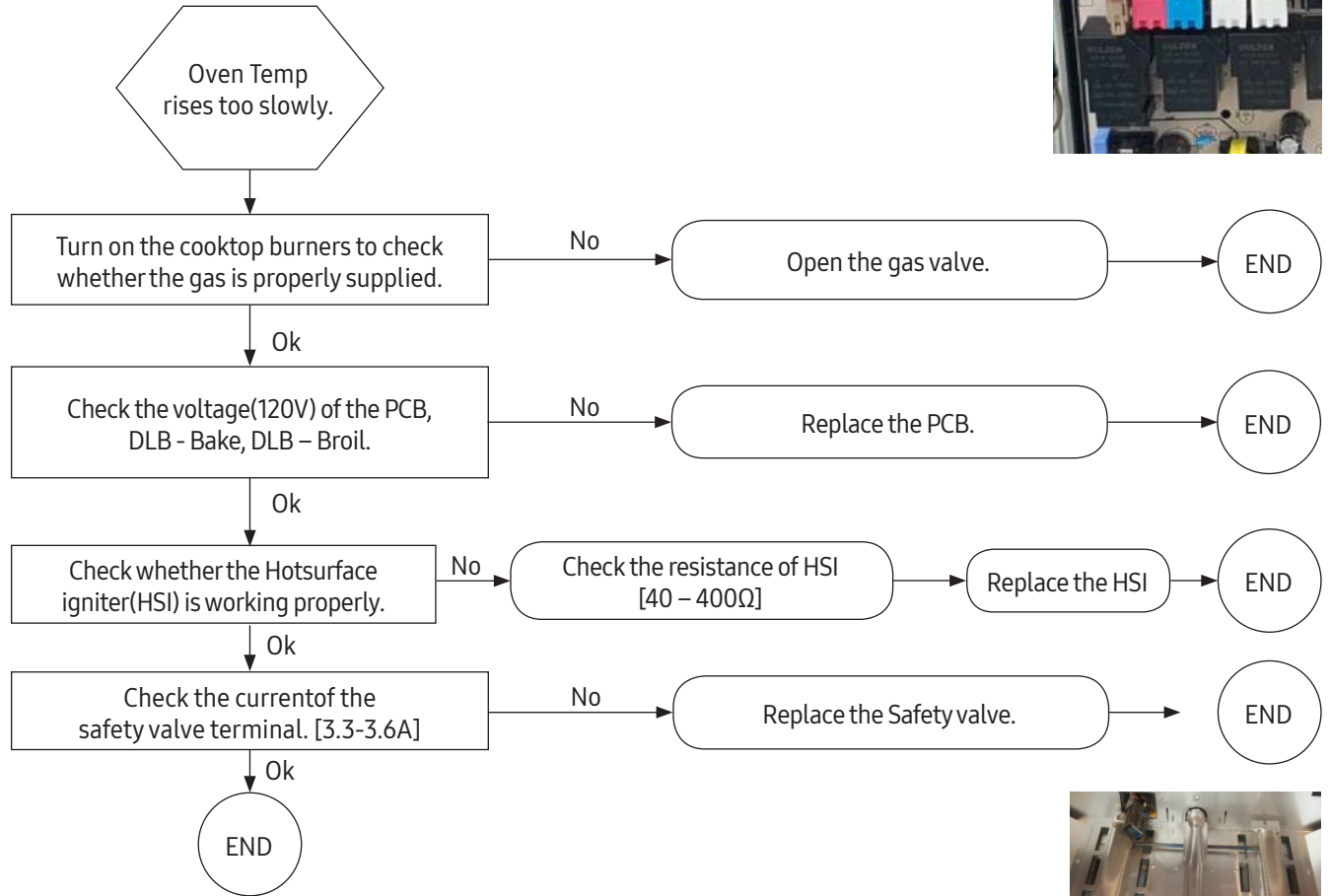
■ Oven burner will not light [Broil / Bake burner]



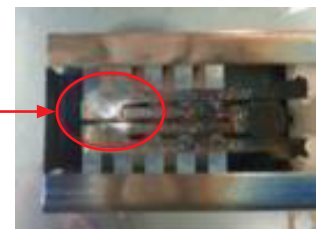
4. Troubleshooting

Oven parts

■ Oven temperature rises too slowly [Electric malfunction]



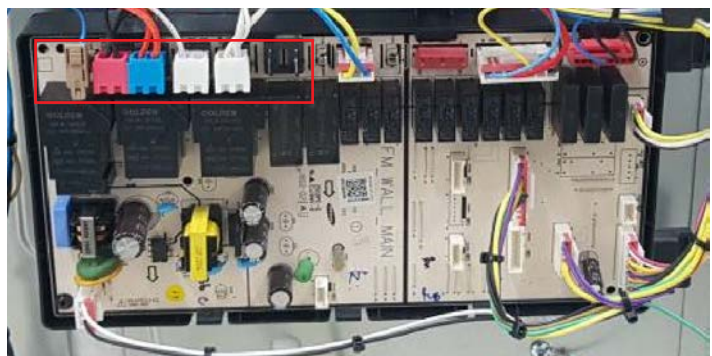
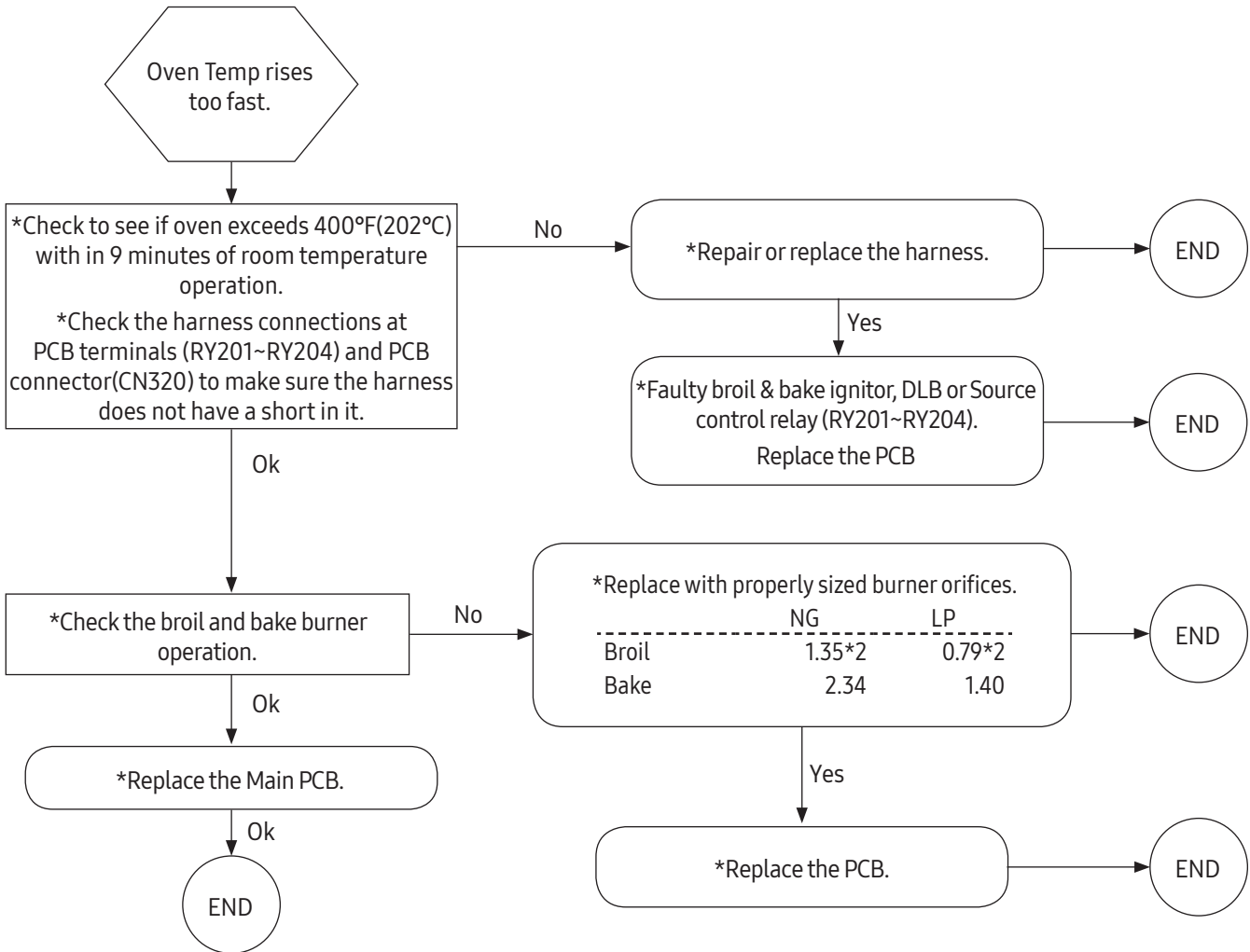
HSI crack



4. Troubleshooting

Oven parts

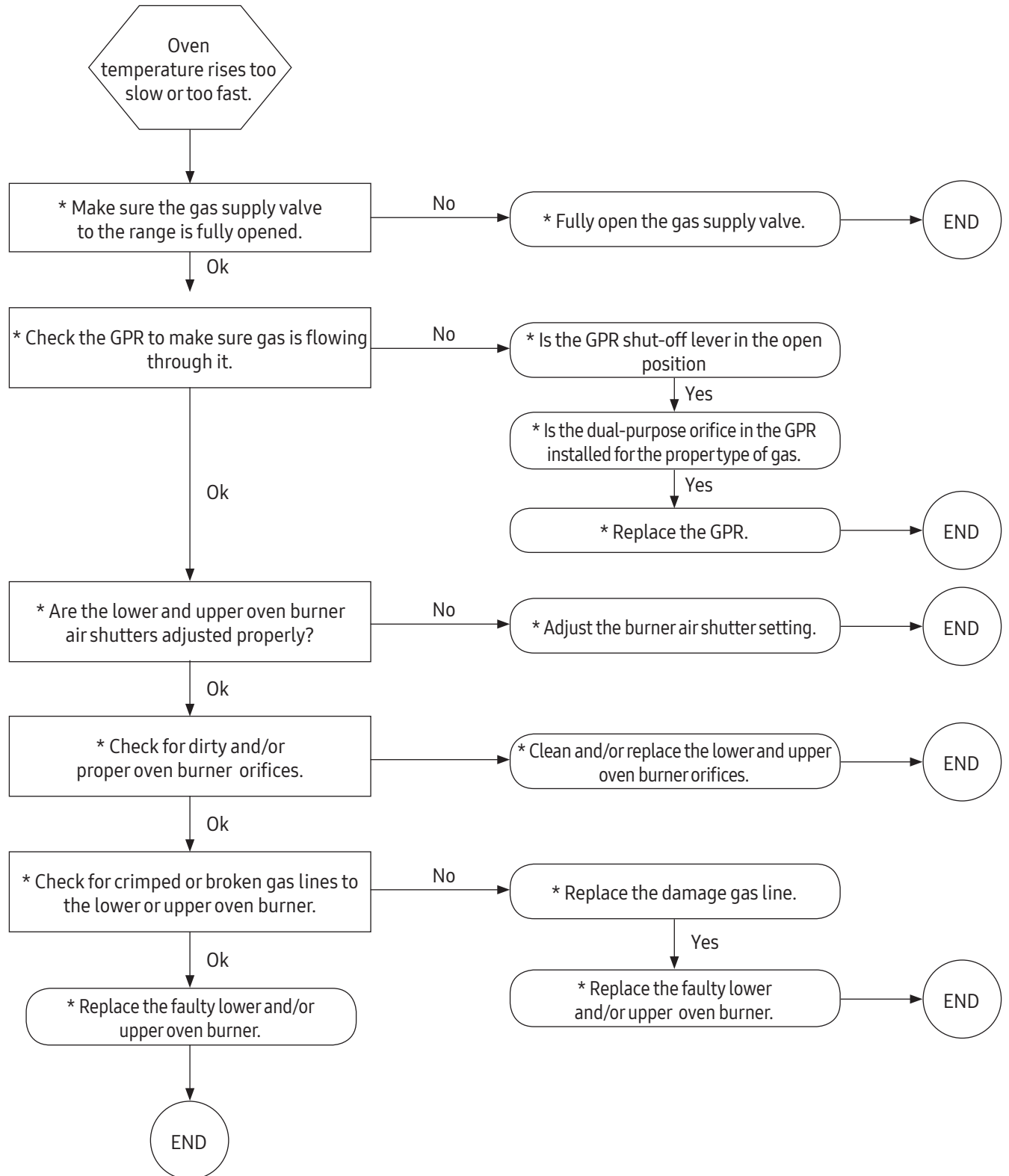
■ Oven temperature rises too fast. [Electric malfunction]



4. Troubleshooting

Oven parts

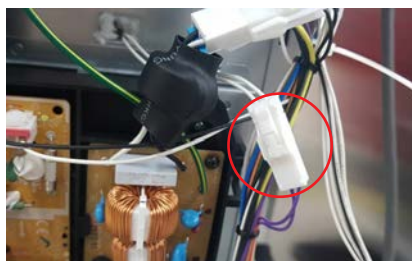
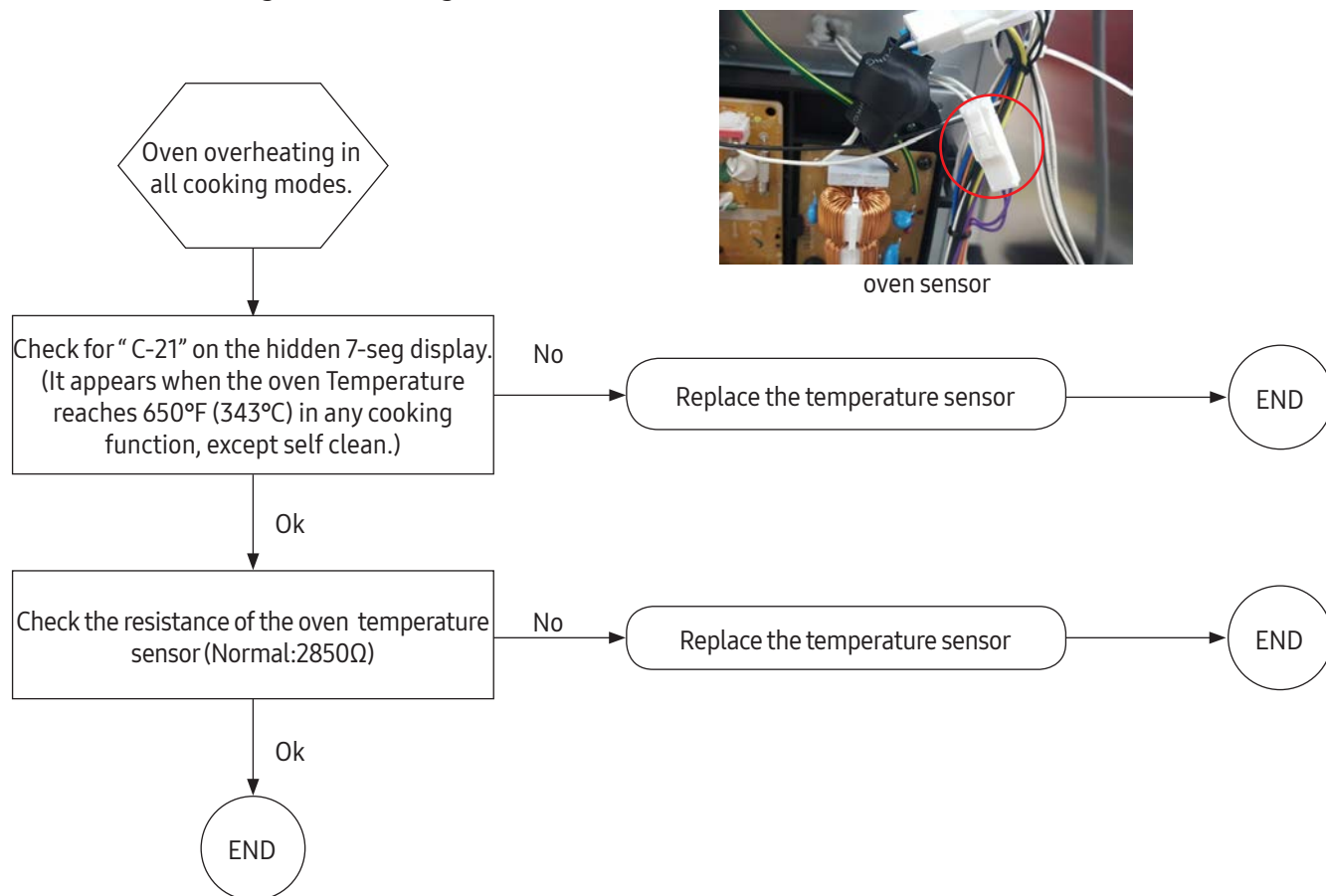
■ Oven temperature rises too slow or too fast [Gas malfunction]



4. Troubleshooting

Oven parts

■ Oven overheating in all cooking modes

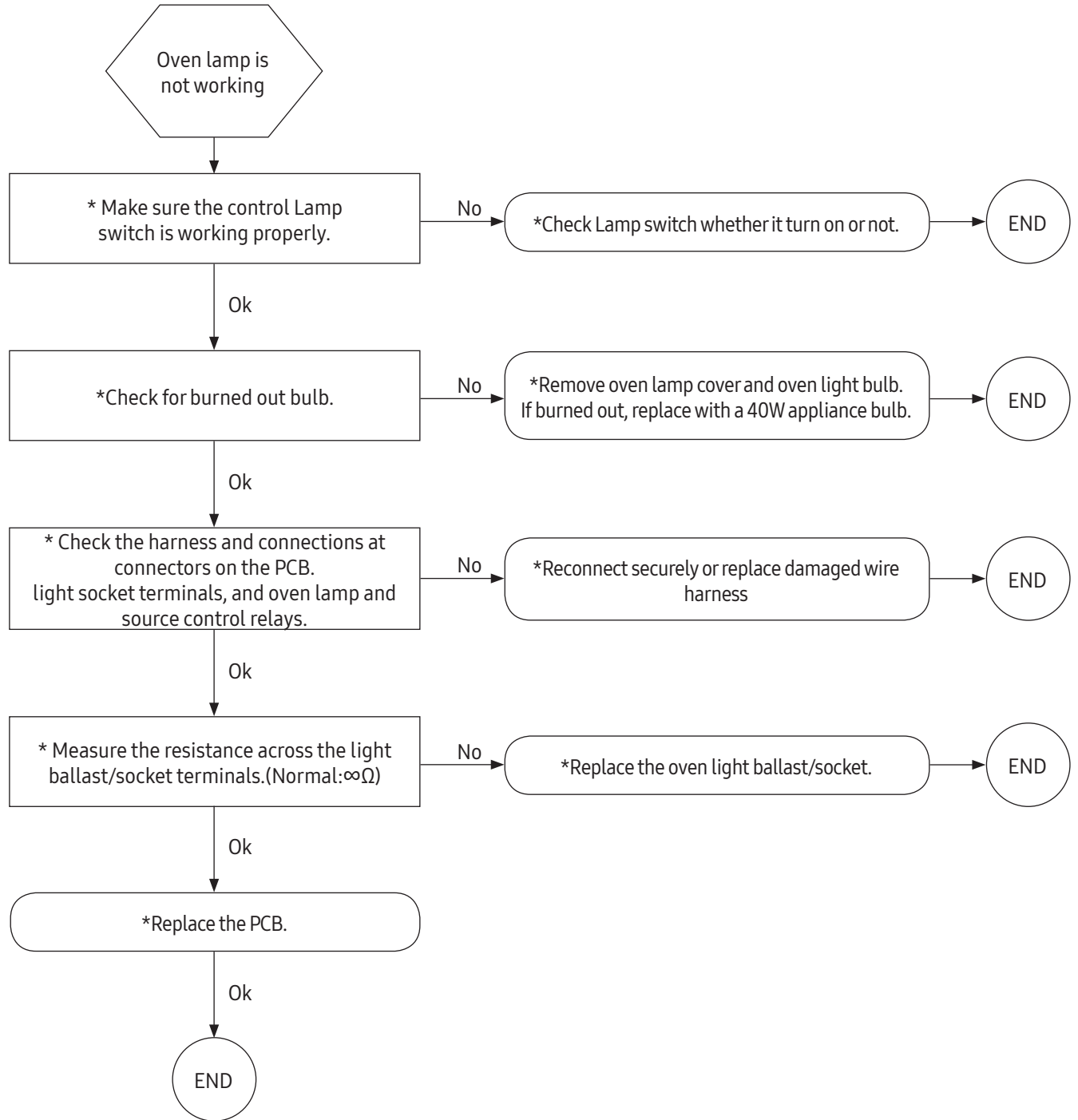


oven sensor

4. Troubleshooting

Oven parts

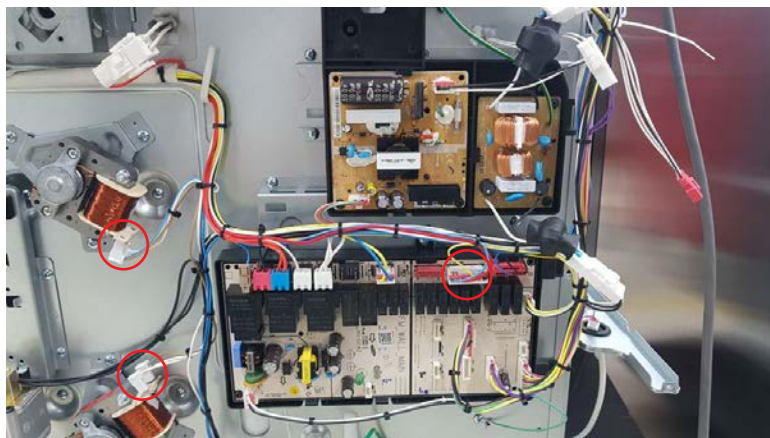
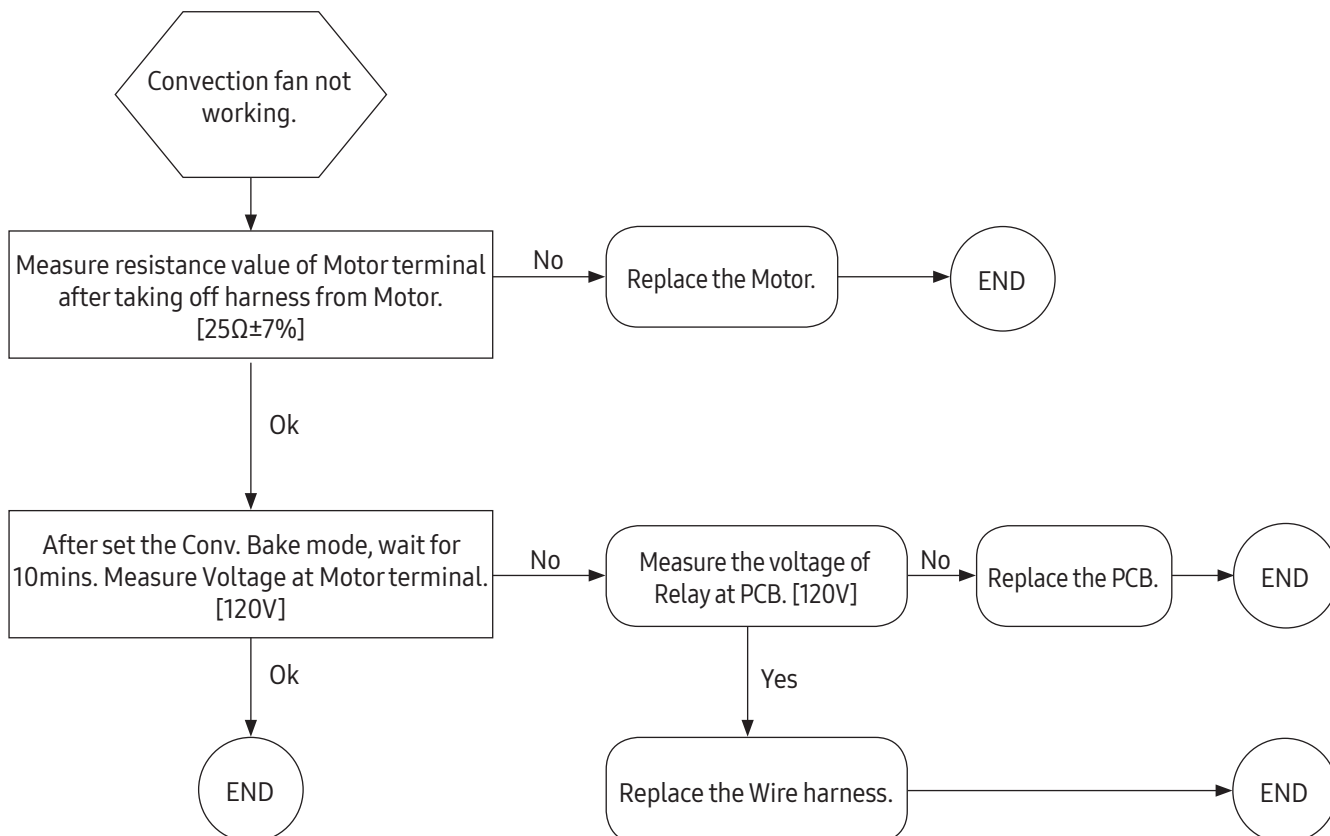
■ Oven lamp not working



4. Troubleshooting

Oven parts

■ Convection fan not working



4. Troubleshooting

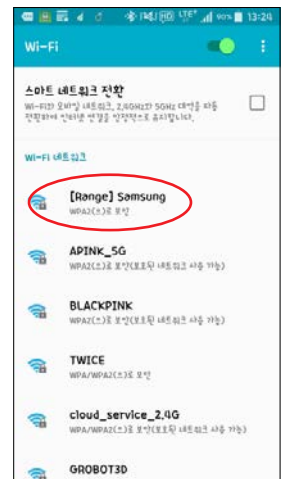
Oven parts

■ Wi-Fi Connection is not working



Step.1

- Check whether “Wi-Fi” and “Smart Control” LED is on.
 - If Wi-Fi is off, Settings>Connections> turn Wi-Fi on and connect Home AP.
 - use “SmartThings” app, try “Easy Connection” again. (5Ghz AP NOT support.)
 - ※ This Range support “SmartThings” App.(NOT Smart Home App)
 - If Smart Control LED is off, turn Smart Control on(Settings → Connections → Smart Control)
 - If LED is now on, check SmartThings App’s connection/control.
 - If home network is ok but SmartThings app is not connect, follow to Step 2.
 - If home network have problem, contact home network service center.



Step.2

- Check communication Wi-Fi module and cable in LCD.
- Wifi function have to display. 📶
- A)
 - Turn Smart Control on(Settings Connections Smart Control).
 - You can check Wi-Fi list in your smart phone.
 - If “ [Range] Samsung ” is shown, then WiFi module and cable no problem.
 - If NOT show “ [Range] Samsung ”, see B
- B)
 - Remove the Wi-Fi module for the procedure.
 - Check input voltage on Wi-Fi module. (12V)
 - If input Voltage is ok, replace Wi-Fi module.
 - If input Voltage have problem, Check to connector of Wire and LCD PCB.



WiFi module

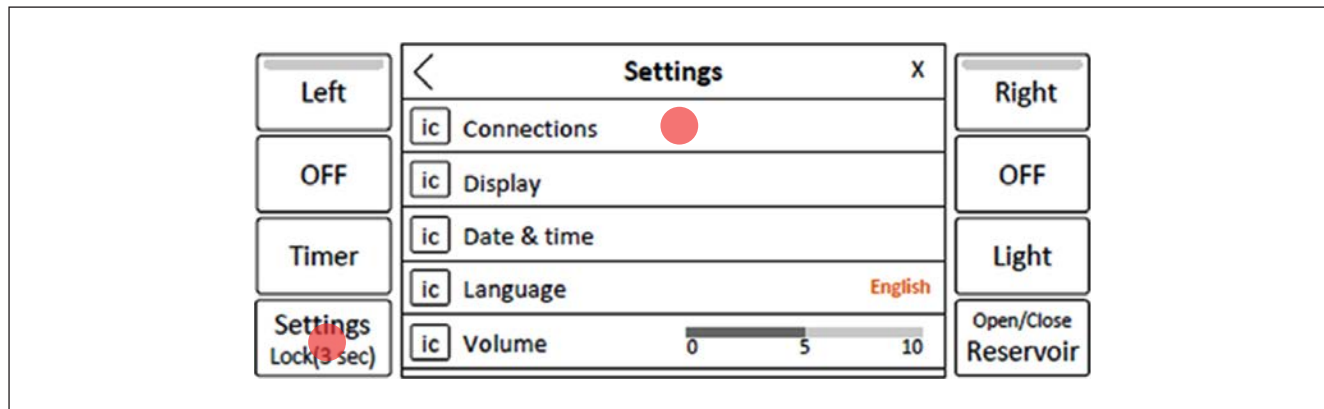


4. Troubleshooting

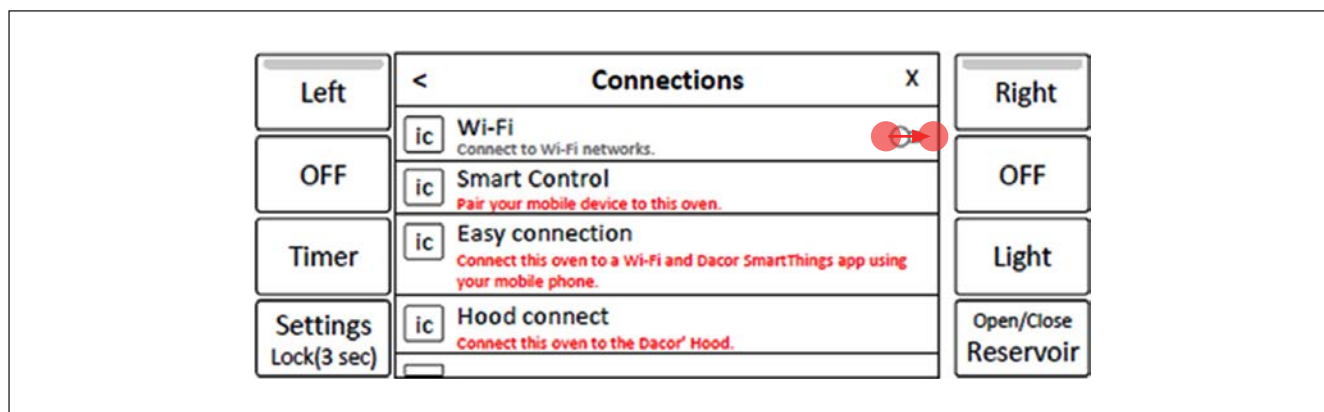
Oven parts

■ How to Wi-Fi on.

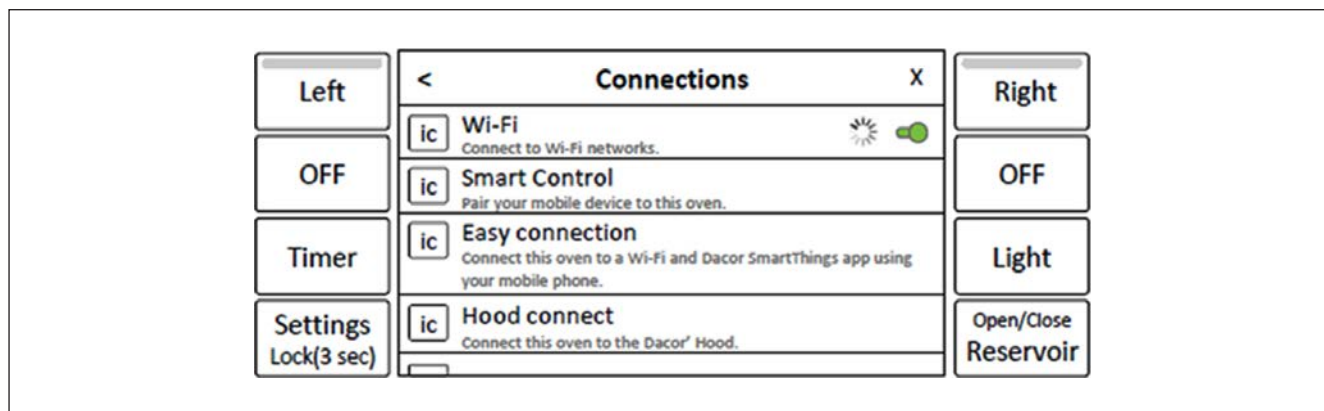
[Setting]



Tap
or
Tap & drag



Tap
or
Tap & drag

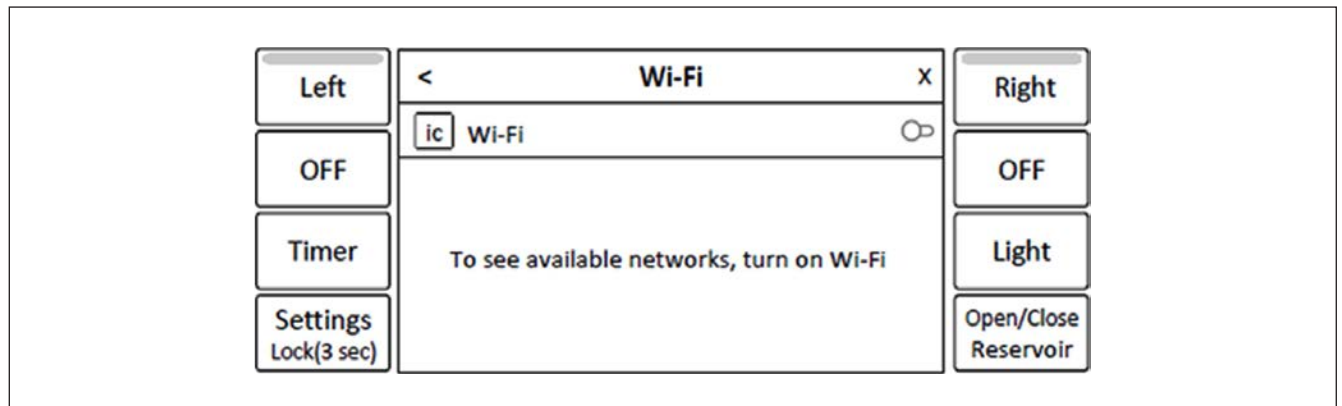
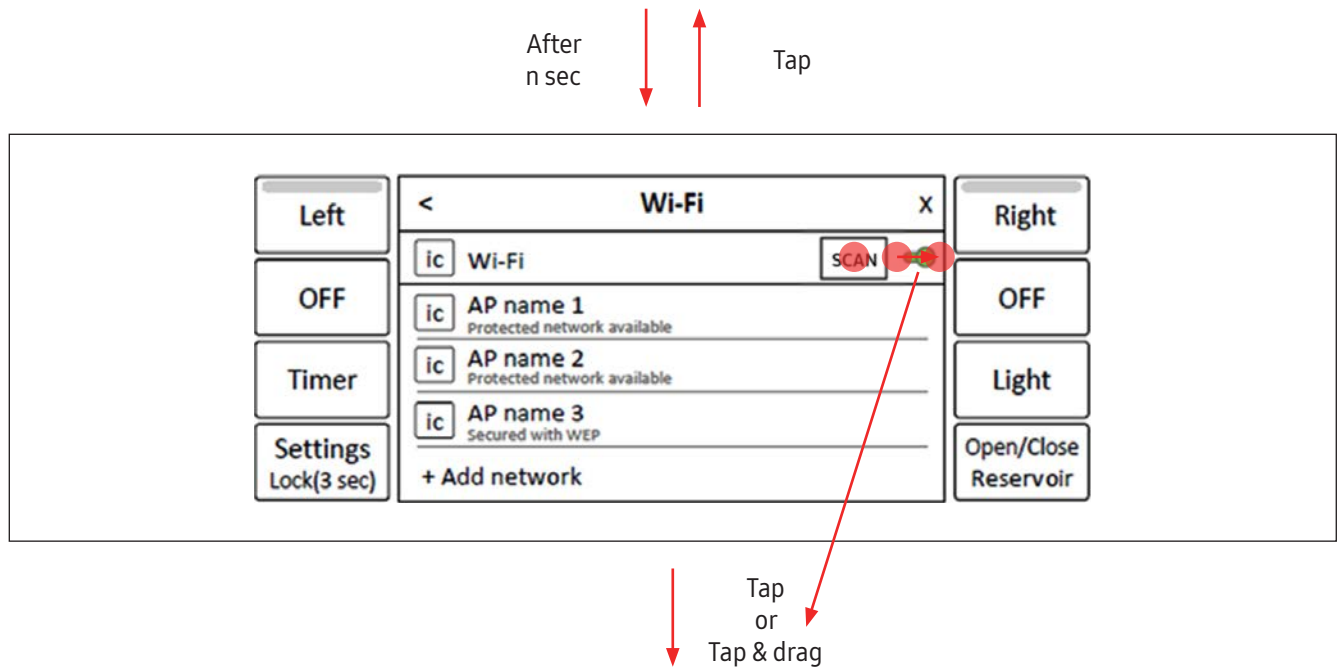
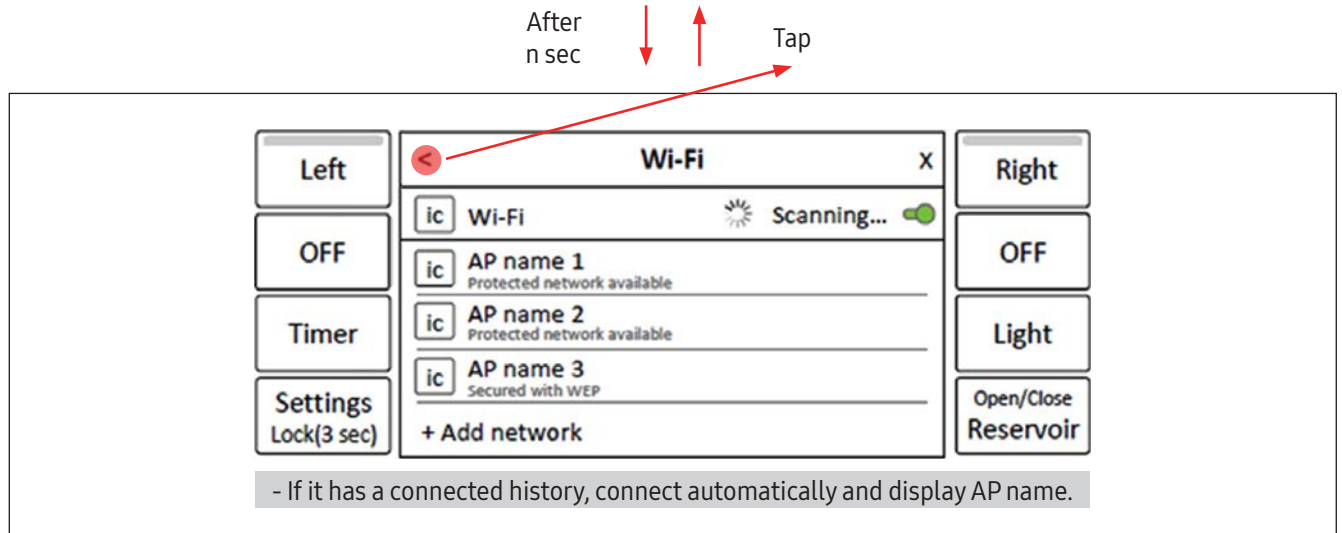


After
n sec ↓ ↑ Tap

4. Troubleshooting

Oven parts

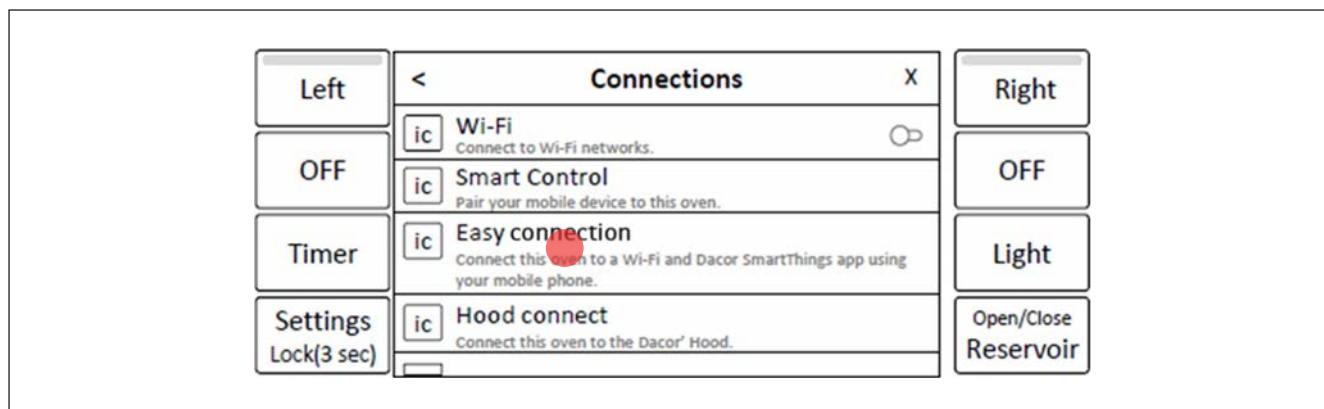
■ How to Wi-Fi on.



4. Troubleshooting

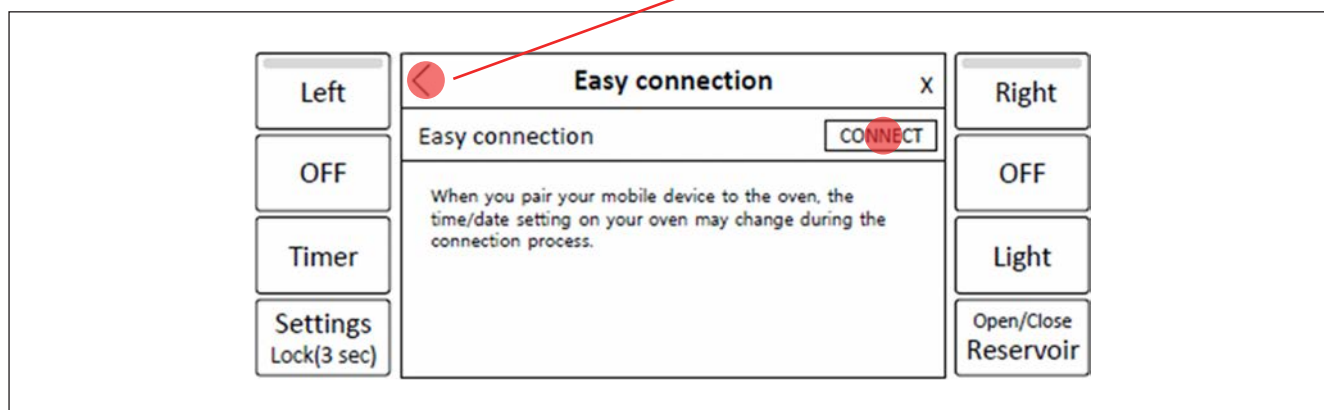
Oven parts

■ How to Easy Connection.



Tap

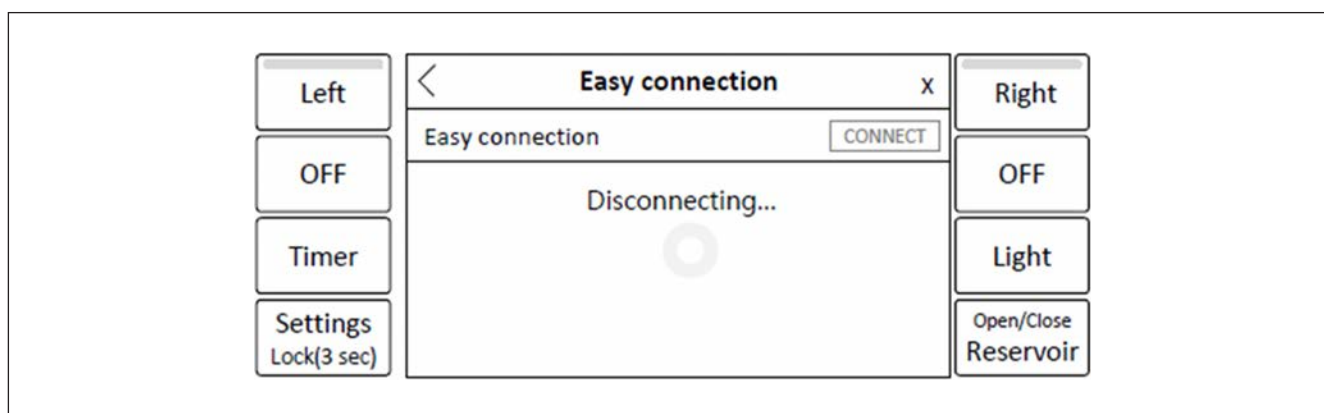
Two red arrows point down to the 'Easy connection' option, and a red arrow points up from it. A red arrow also points from the 'Easy connection' option to the 'CONNECT' button in the next screenshot.



Tap

Two red arrows point down to the 'CONNECT' button, and a red arrow points up from it.

After n sec



Tap

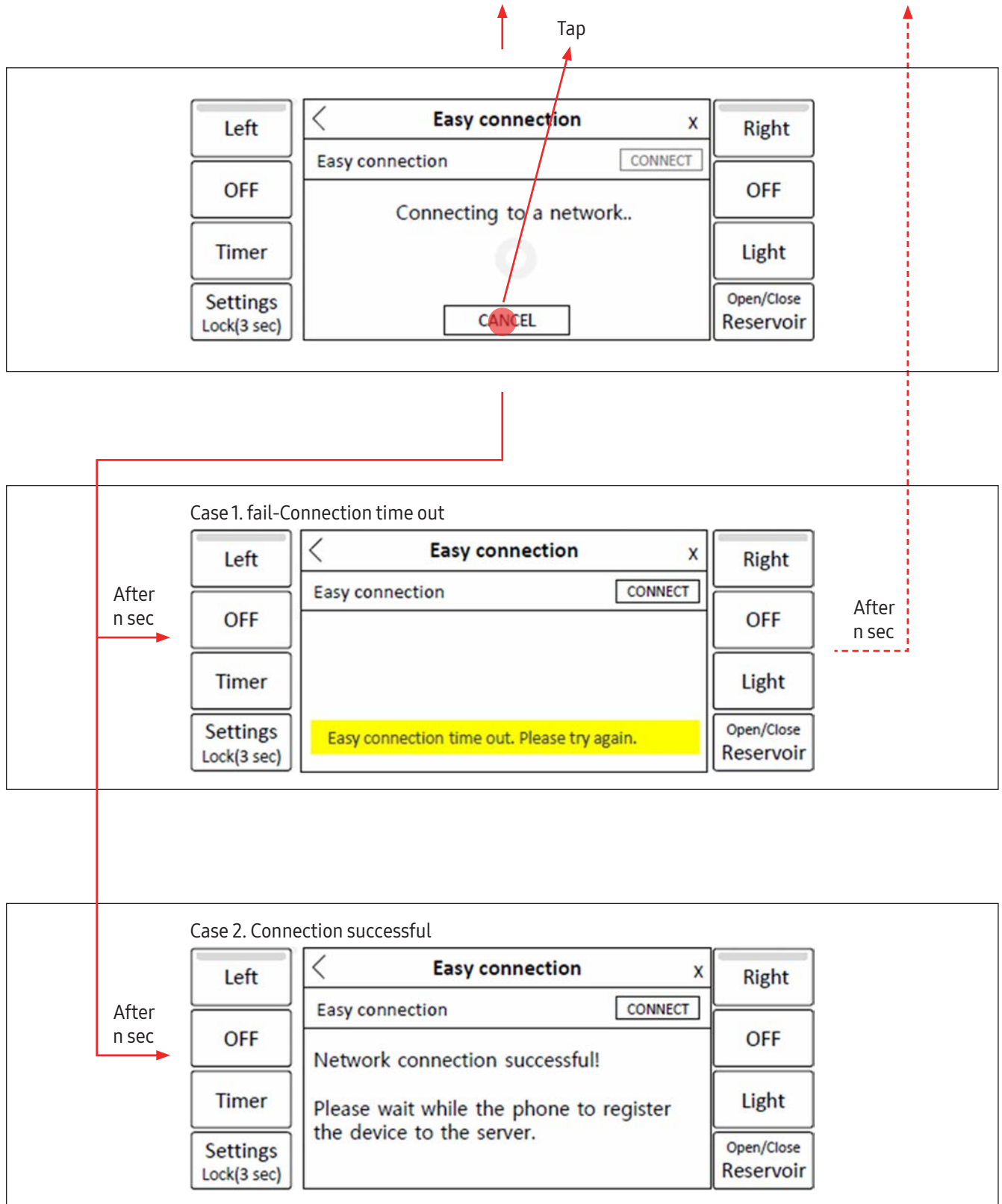
Two red arrows point down to the 'CONNECT' button, and a red arrow points up from it.

After n sec

4. Troubleshooting

Oven parts

■ How to Easy Connection.

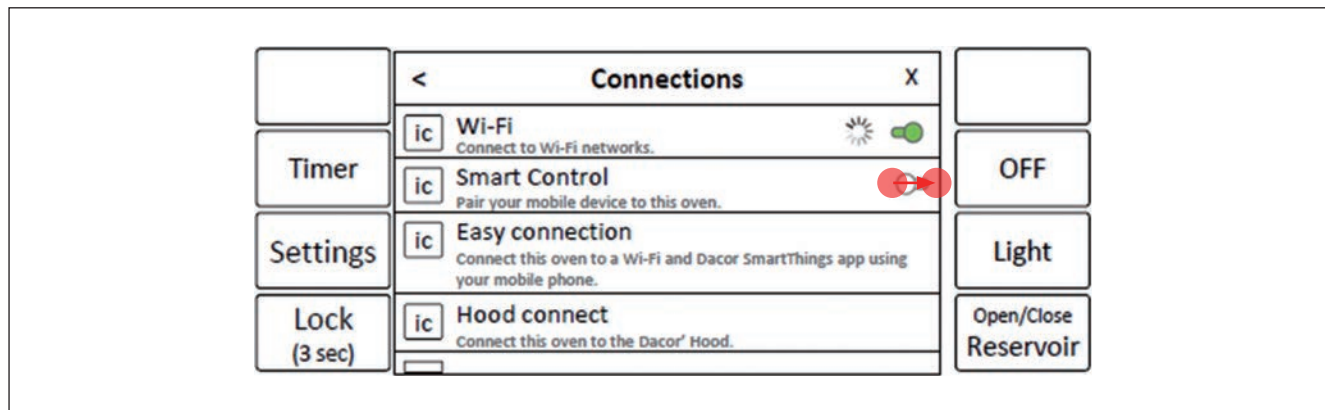


4. Troubleshooting

Oven parts

■ How to Smart Control on.

[Setting]

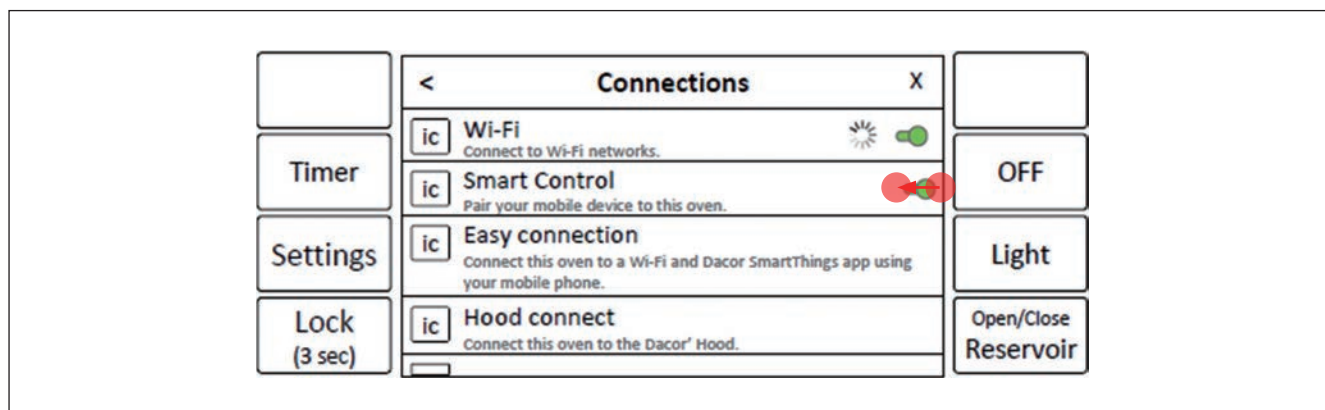


Tap
or
Tap & drag

↓

↑

Tap
or
Tap & drag

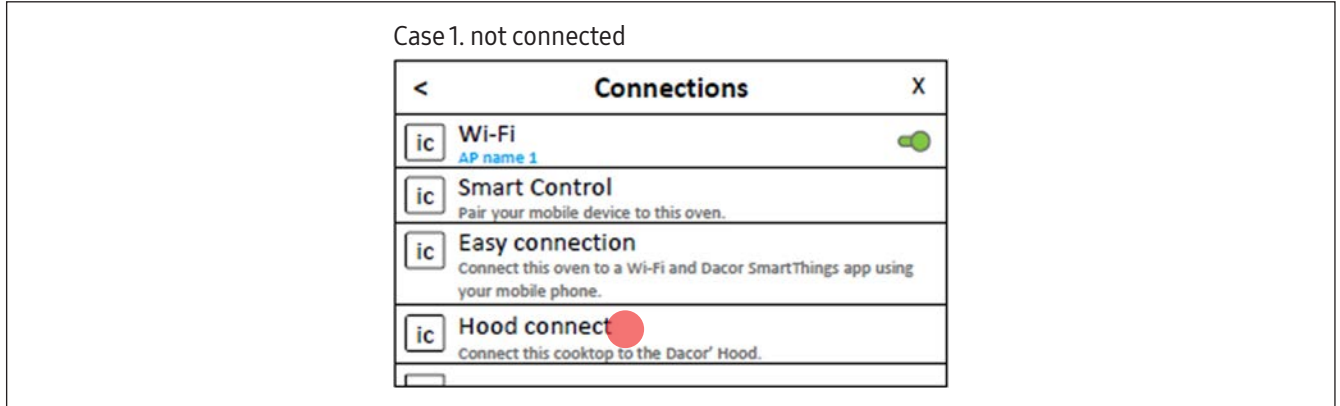


Open SmartThings App And follow the App's instruction.

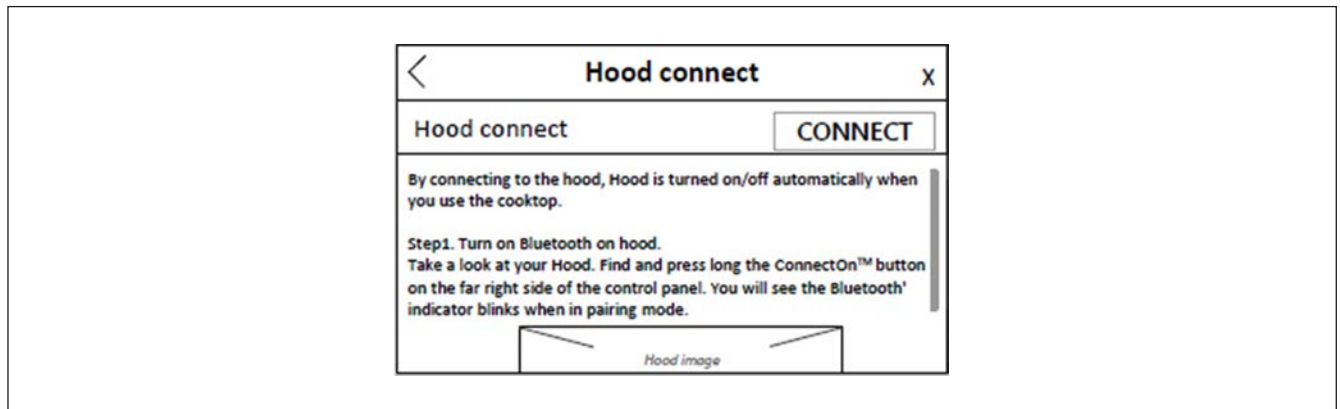
4. Troubleshooting

Oven parts

■ Bluetooth(Hood) Connection is not working



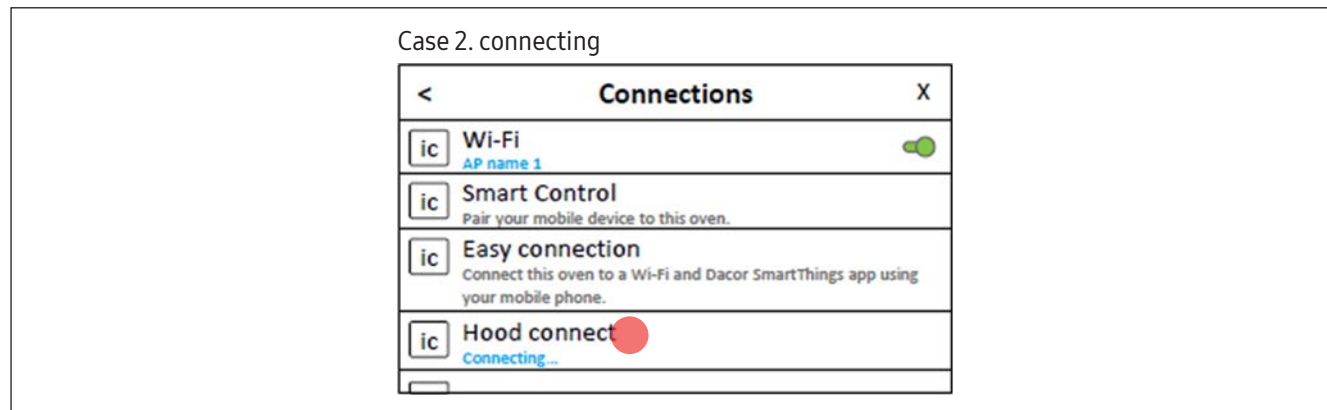
Tap



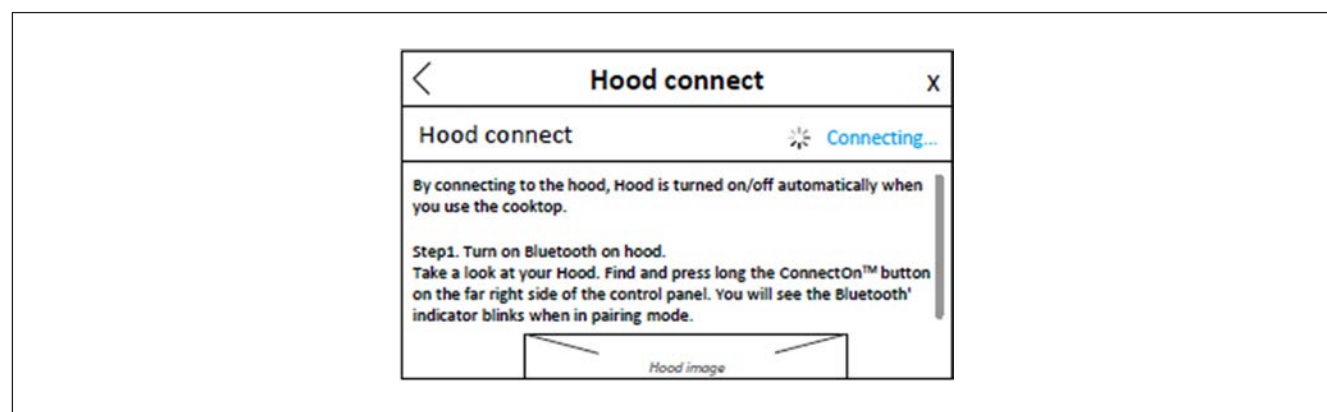
4. Troubleshooting

Oven parts

■ Bluetooth(Hood) Connection is not working



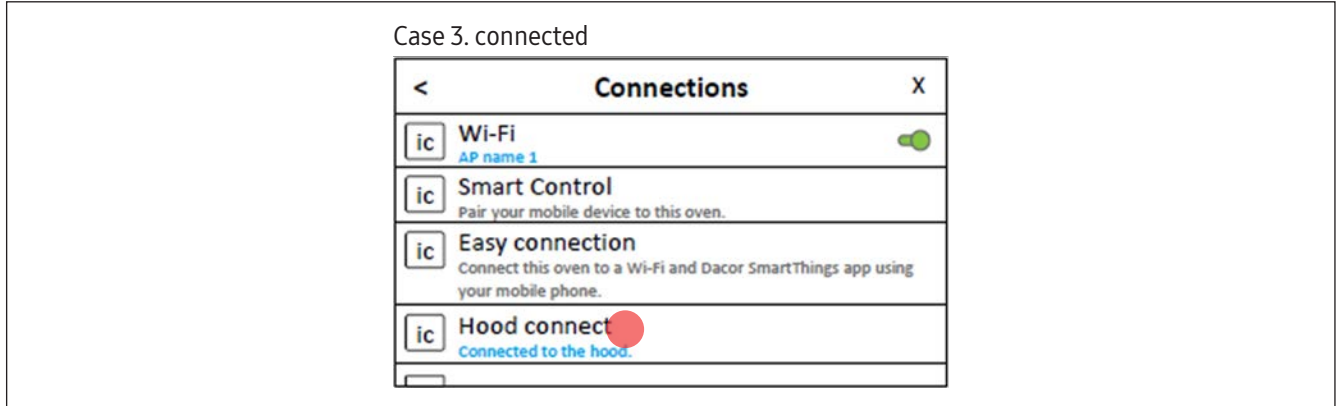
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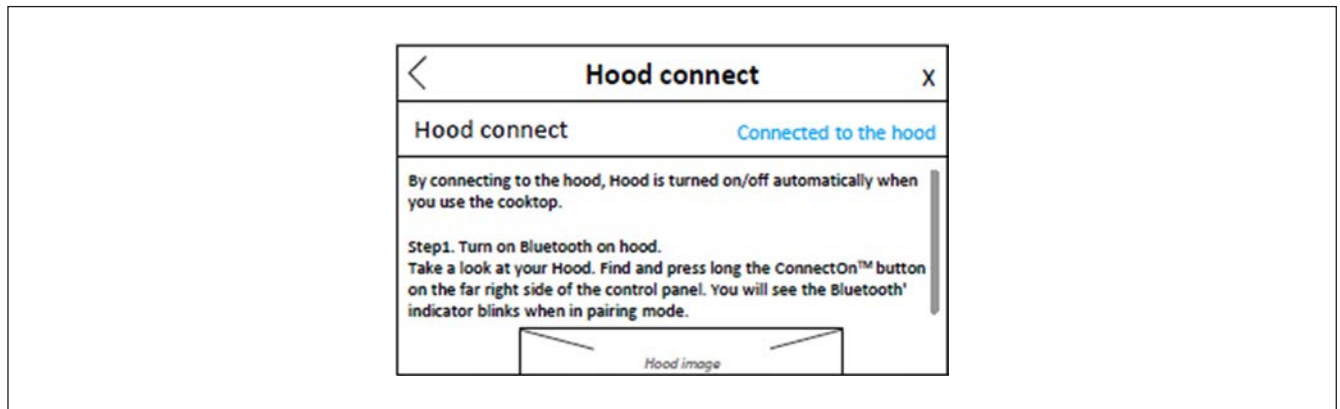
4. Troubleshooting

Oven parts

■ Bluetooth(Hood) Connection is not working



Tap



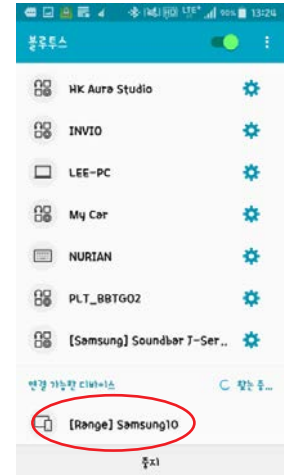
4. Troubleshooting

Oven parts

■ Bluetooth(Hood) Connection is not working

Step.1

- Check whether Hood connection is ok.
 - If Hood disconnected, try Bluetooth(B/T) pairing again.
 - If Hood still disconnected, try Hood reset.
 - If Hood still disconnected, Check Bluetooth working(Step. 2).



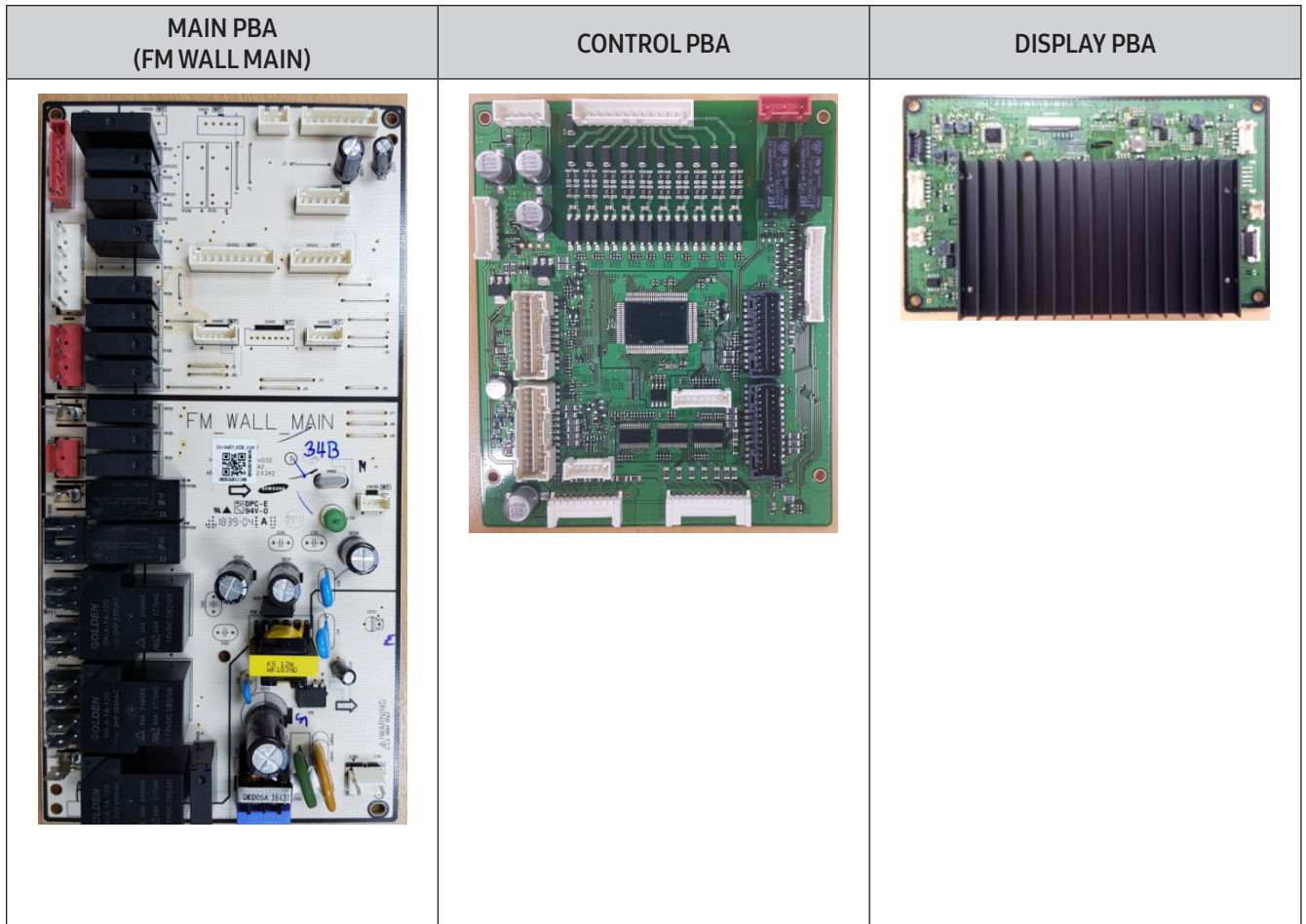
Step.2

- Check communication between B/T module and Sub PCB.
 - A) Press Settings. select "Hood connect" and turn on.
 - You can check B/T list in your smart phone.
 - "[Range] Samsung10" then Range's B/T function is ok. If NOT, see below B)
 - B) Remove the B/T module for the procedure.
 - Check input voltage on B/T module. (5V)
 - If input Voltage is ok, replace B/T module.
 - If input Voltage have problem, Check to connector of Wire and Sub PCB (CNS202)B.



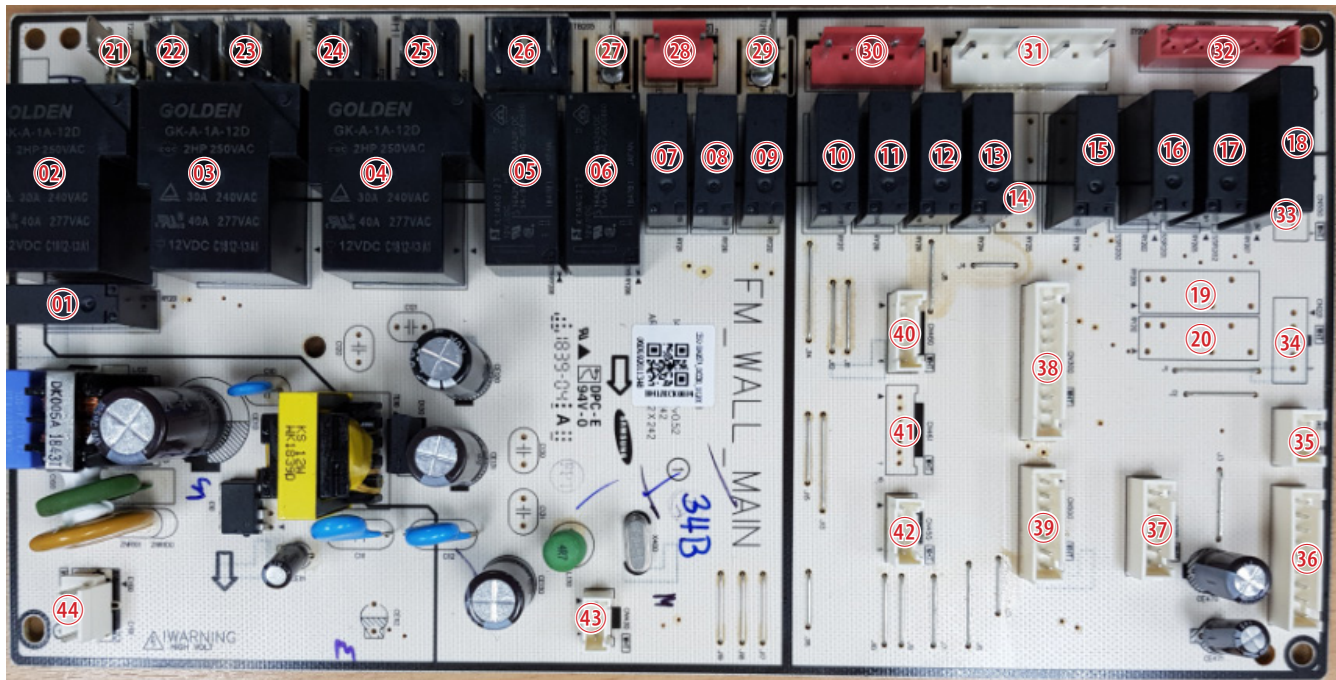
5. PCB Diagrams

5-1 Picture of PCB MAIN and PCB SUB



5. PCB Diagrams

5-2 Explanation of Main PCB parts



NO.	PART NO.	PART NAME	FUNCTION AND RULE
1	RY201	Relay Source Relay	This is relay which control source of DLB, Bake, Broil, (Conv. heater, Steam heater) relay.
2	RY204	Bake-Heater Relay	"Broil relay(RY203), Bake relay(RY204), convection relay(RY206) turned ON/OFF by mi-com signal after DLB relay is has been engaged. (Broil relay : reversing position of the Brown wire will not cause a problem) (Bake relay : reversing position of the Blue wire will not cause a problem)
3	RY203	Broil-Heater Relay	
4	RY200	DLB Relay	Circuit is designed to have broil relay or convection relay working after DLB relay is working by Double line break. (reversing position of the Red wire will not cause a problem)
5	RY208	Steam-HeaterRelay	Not used (Not Inserted)
6	RY206	Convection Heater Relay	Not used (Not Inserted)
7	RY211	Cooling Motor (Lower) Relay	This is relay to control Cooling Motor which is in lower cavity.
8	RY210	Cooling Motor (Upper) Relay	This is relay to control Cooling Motor which is in upper cavity.
9	RY213	Pyro-free Pump1 Relay	Not used (Not Inserted)
10	RY217	Conv. Fan (Lower) Relay	This is relay which is connected with Lower Convection Fan.
11	RY218	Water Pump Relay	Not used (Not Inserted)
12	RY219	Drain Pump Relay	Not used (Not Inserted)
13	RY214	Conv. Fan (Upper) Relay	This is relay which is connected with Upper Convection Fan.
14	RY215	-	Not used (Not Inserted)

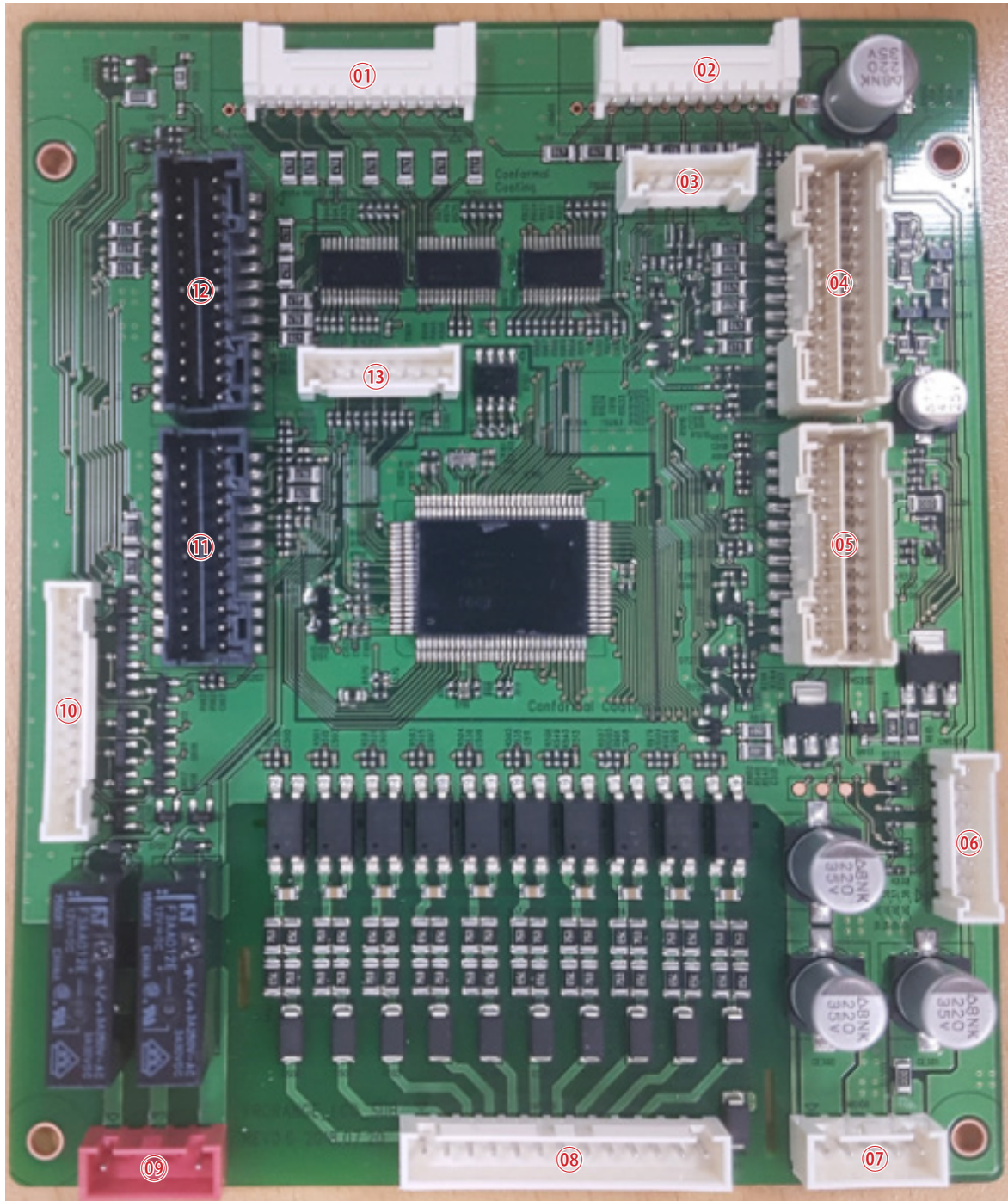
5. PCB Diagrams

Explanation of Main PCB parts

NO.	PART NO.	PART NAME	FUNCTION AND RULE
15	RY216	Door Lock Motor Relay	This is relay which is connected with Door Lock Motor.
16	RY202	Water Tank Motor-CW Relay	Not used (Not Inserted)
17	RY205	Water Tank Motor-CCW Relay	Not used (Not Inserted)
18	SSR202	Door Lamp	This is relay which is connected with Door Lamp.
19	RY209	-	Not used (Not Inserted)
20	RY212	-	Not used (Not Inserted)
21	T208	Bake Terminal	This is terminal to connect harness with Bake relay.
22	TB204	Bake Broil Common Terminal	This is terminal to common connect bake and broil heater.
23	TB203	Broil Terminal	This is terminal to connect harness with Broil relay.
24	TB201	DLB Terminal	This is terminal to connect harness with DLB relay.
25	TB202		
26	TB205	Common Terminal	Not used (Not Inserted)
27	T210	Convection Heater	Not used (Not Inserted)
28	CN202	Cooling Motor	This is connector which is connected with Cooling Motor (Upper, Lower).
29	T212	Pyro-free Pump1	Not used (Not Inserted)
30	CN204	Relay Connector	CONV FAN L, WATER PUMP, DRAIN PUMP
31	CN203	Relay Connector	CONV FAN U, DOOR LOCK, AC120V_LINE
32	CN200	Relay Connector	WATER TANK MOTOR-CW, WATER TANK MOTOR-CCW, DOOR LAMP, LIVE
33	CN550	Lockout Valve	Not Used (Not Inserted)
34	CN201	Door LED Relay Connector	Not Used (Not Inserted)
35	CN340	Steam Temp sensing	This connector which is connected with SET GND.
36	CN470	Sub Communication Connector	This is connector which is connected with Sub PCB to communicate.
37	CN320	Oven Sensing Connector	This connector which is connected with oven sensor (Broil temp sensor, Meat probe sensor).
38	CN300	Door Lock, Divider, Cooling Fan TCO	This is connector which is connected with Door plunger switch and Door lock switch, divider switch and Cooling Fan TCO.
39	CN500	Water & Steam Sensing Connector	Not Used (Not Inserted)
40	CN460	Cooktop UART1	This connector is for connecting SET GND.
41	CN461	Cooktop UART2	Not Used (Not Inserted)
42	CN450	HASS Connector	This connector is for HASS
43	CN430	Micom Writing Connector	This is connector for writing Micom and connect with SET GND.
44	CN100	Power Connector	This is to supply power with SMPS.

5. PCB Diagrams

5-3 Explanation of PRORANGE SUB



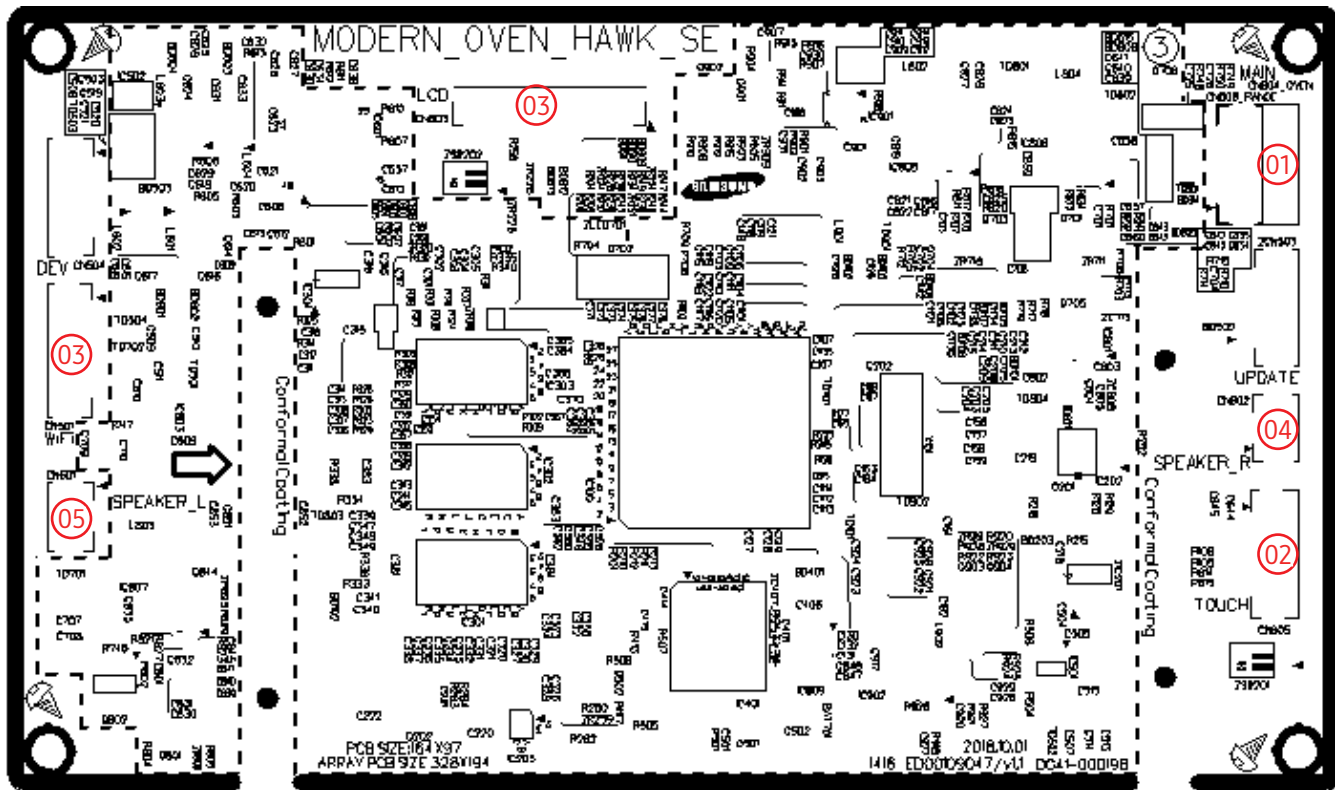
5. PCB Diagrams

Explanation of PRORANGE SUB

NO.	PART NO.	PART NAME	FUNCTION AND RULE
1	CN906	Shower light Connector	This is connector for Shower-light.
2	CN905	Shower light Connector	This is connector for Shower-light.
3	CNS602	LCD Communication Connector	Not Used (Not Inserted)
4	CNS601	HASS, Buzzer, Knob, Wi-Fi Communication	This is connector for HASS, Buzzer, Knob light and communicate with Wi-Fi Module.
5	CNS202	Bluetooth, Door LED, Main Communication, Rotary SW	This is connector for Door LED, Rotary switch and communicate with Bluetooth, Main PBA.
6	CNS230	Dimming Communication	Not Used (Not Inserted)
7	CNS100	Power input Connector	This is connector for Power from SMPS PBA.
8	CNP500	Knob Sensing	This is connector for Sensing Knob.
9	CNP700	Pop up display Motor	Not Used (Not Inserted)
10	CNS600	Key Backlight Connector	Not Used (Not Inserted)
11	CNS203	Switches, Temp knob	This is connector for Bluetooth SW, Pop up SW, Valve SW, Lamp SW, Reservoir SW and Temp Knob.
12	CNS200	Display Communication, Knob light	This is connector for lighting knob and communicate with PMOLED Display Module.
13	CNS180	JTAG connector	Not inserted (This is for development engineer.)

5. PCB Diagrams

5-4 Explanation of PMOLED DISPLAY



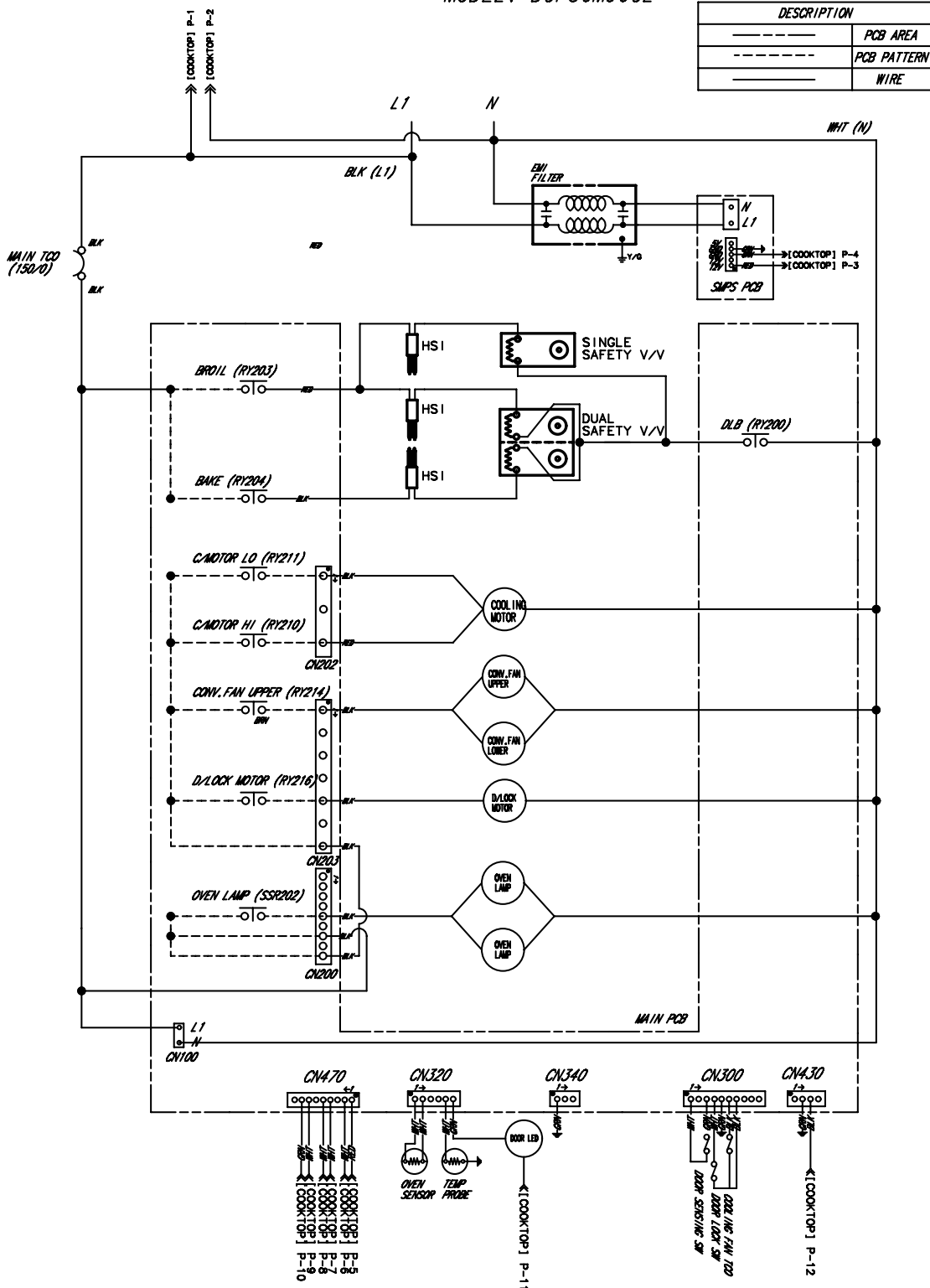
NO.	PART NO.	PART NAME	FUNCTION AND RULE
1	CN606	Sub Board Connector	This is connected with sub board.
2	CN605	Touch Connector	This is connected with touch panel.
3	CN603	LCD Connector	This is connected with 7.0" LCD.
4	CN601	Speaker Connector	This is connected with speaker.
5	CN602		
6	CN501	Wi-Fi Connector	This is connected with Wi-Fi module.

5. PCB Diagrams

5-5 Wire diagram of Main PCB and PCB SUB

- NOTE**
 1) CIRCUIT SHOWN WITH ALL CONTROLS SET TO OFF
 2) OVEN DOOR OPENED AND UNLOCKED

SCHEMATIC DIAGRAM
 MODEL : DOP36M96GL *

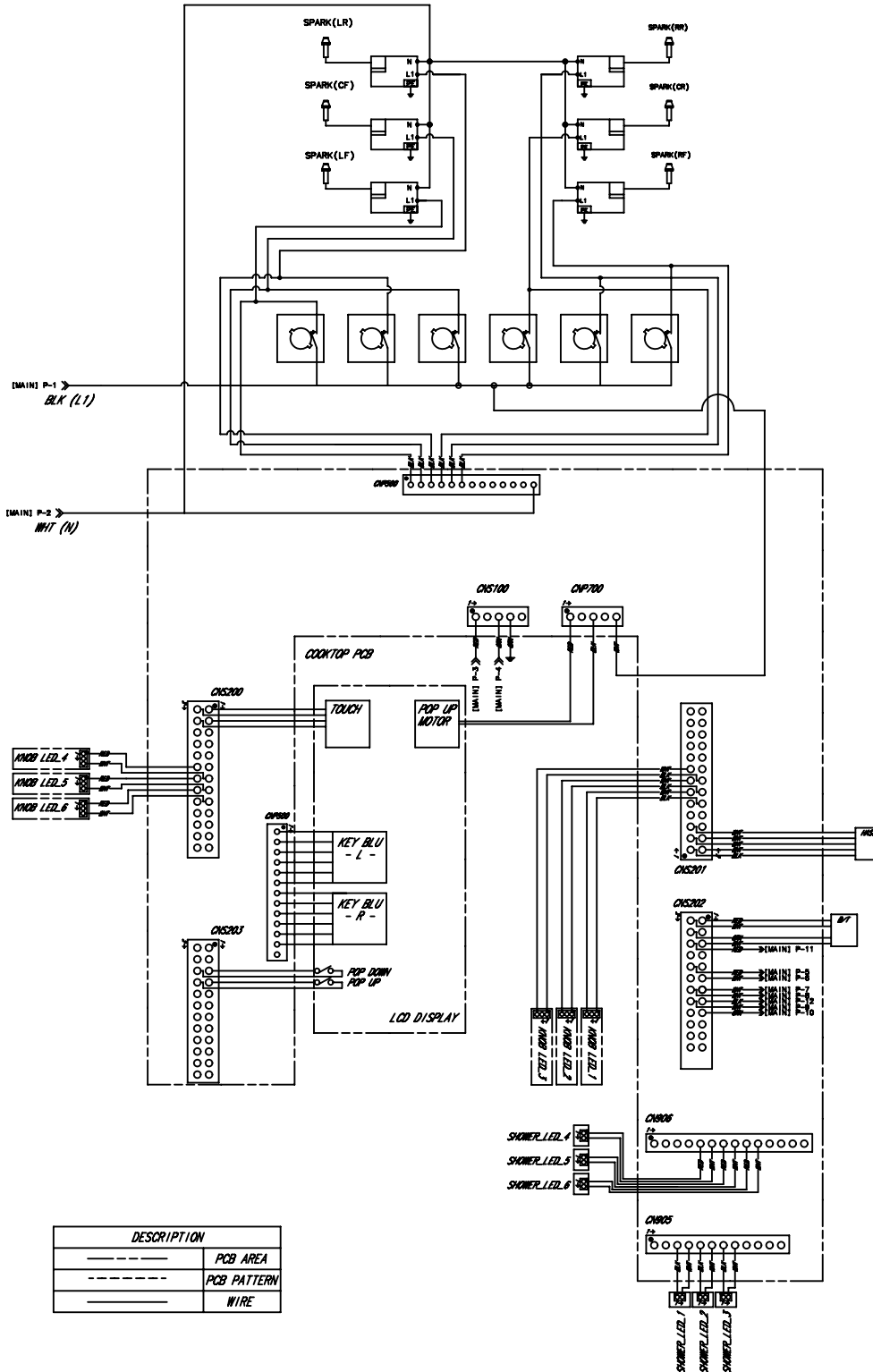


5. PCB Diagrams

Wire diagram of Main PCB and PCB SUB

NOTE
 1) CIRCUIT SHOWN WITH ALL CONTROLS SET TO OFF
 2) OVEN DOOR OPENED AND UNLOCKED

SCHEMATIC DIAGRAM
 MODEL: DOP36M96GL*



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