

SAMSUNG

SLIDE IN GAS RANGES

MODELS AND
MODEL CODES: NY58J9850WS

SERVICE *Manual*

GAS RANGES



CONTENTS

1. Precaution
2. Specifications
3. Disassembly and Reassembly
4. Troubleshooting
5. PCB Diagrams
6. Wiring Diagram
7. Schematic Diagrams
8. Reference

• Contents

1. Precaution	4
1-1 Forward	4
1-2 Safety Precautions	4
1-3 Important Safety Instructions	5
1-4 Model and Serial Number Label and Tech Sheet Locations	7
2. Specifications	8
2-1 Oven Features	8
2-2 Control Panel - Oven	9
2-3 Control Panel - Gas Cooktop	10
2-4 Table of Specifications	11
2-5 Accessories	14
3. Disassembly and Reassembly	15
3-1 COVER MOTOR CONVECTION	16
3-2 ASSY CONTROL BOX	17
3-3 ASSY FRAME COOKTOP	18
3-4 SIDE PANEL	19
3-5 ASSY BURNER BOX	20
3-6 ASSY PCB ASSEMBLY	22
3-7 ASSY DISPLAY, ROTARY SWITCH	23
3-8 ELECTRODE	24
3-9 BURNER CUP	26
3-10 GAS ORIFICE NOZZLE	28
3-11 VALVE COOKTOP	30
3-12 SWITCH IGNITION	32
3-13 ASSY MOTOR , TCO	34
3-14 ASSY DOOR LATCH	36
3-15 ASSY PROBE	38
3-16 SWITCH-DOOR PLUNGER	40
3-17 ASSY LAMP	41
3-18 SENSOR-THERMISTOR	42
3-19 GASKET-DOOR	43
3-20 OVEN DOOR (UPPER)	44
3-21 HANDLE-DOOR, GLASS INNER (UPPER)	46
3-22 OVEN DOOR (FULL DOOR)	48
3-23 GLASS INNER (FULL DOOR)	50
3-24 HEATER BROIL	52
3-25 HEATER BROIL	53
3-26 WARMING DRAWER	54
3-27 HEATER WARMING DRAWER	55
3-28 MOTOR CONVECTION	56
3-29 HEATER CONVECTION	57
3-30 REGULATOR	58

• Contents

4. Troubleshooting	.59
4-1 Failure Display Codes	.59
4-2 Control parts	.69
4-3 Oven parts	.77
4-4 Warming drawer parts	.79
5. PCB Diagrams	.80
5-1 Figure of PCB and Membrane	.80
5-2 Explanation of Membrane Keypad	.81
5-3 Explanation of NY58J9850WS Main PCB parts	.82
5-4 Explanation of NY58J9850WS Display PCB parts	.84
6. Wiring Diagram	.85
6-1 Wiring Diagram	.85
7. Schematic Diagrams	.87
7-1 Schematic Diagram (Main PCB)	.87
7-2 Schematic Diagram (ASSY Display PCB)	.88
8. Reference	.89
8-1 Checkpoints before service request	.89
8-2 Oven sensor resistance (Temperature vs Sensor resistance)	.91

1. Precautions

1-1 Forward

This SAMSUNG Service Manual, "Slide In Gas Ranges," provides the technician with information on the operation and service of the slide in 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 a 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 authorized service technicians.

1. Precautions

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.

1. Precautions



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.

- **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.



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.
- **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.
- 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. Precautions

SELF-CLEAN OVENS



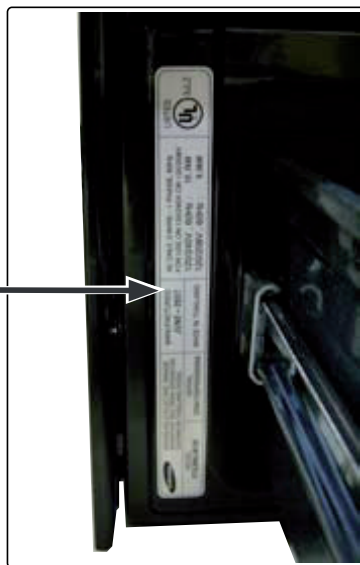
CAUTION

- **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.

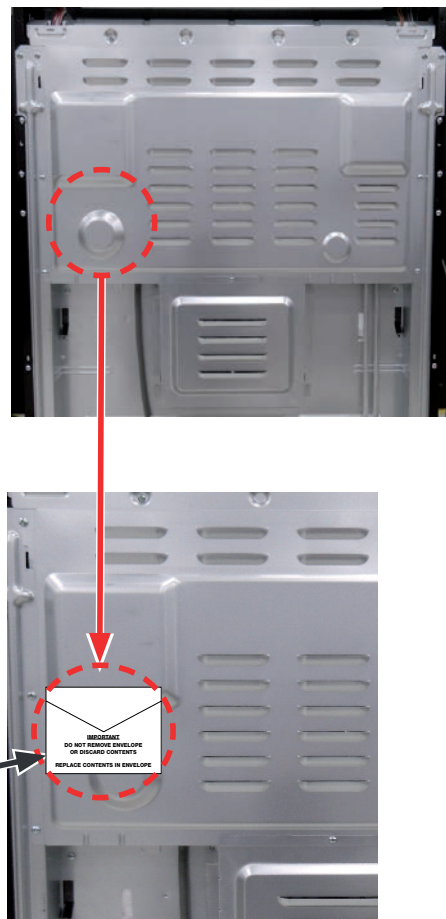
1-4 Model and Serial Number Label and Tech Sheet Locations

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

Model and Serial Number Location



Tech Sheet Location



2. Specifications

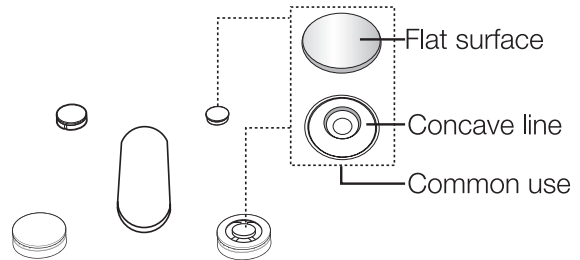
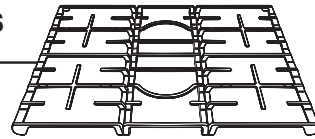
2-1 Oven Features

MODEL NY58J9850WS COMPONENTS

Heavy duty, continuous cast grates

- *Left burner grate
- *Center burner grate
- *Right burner grate

Note : The left and right grates can be used interchangeably.



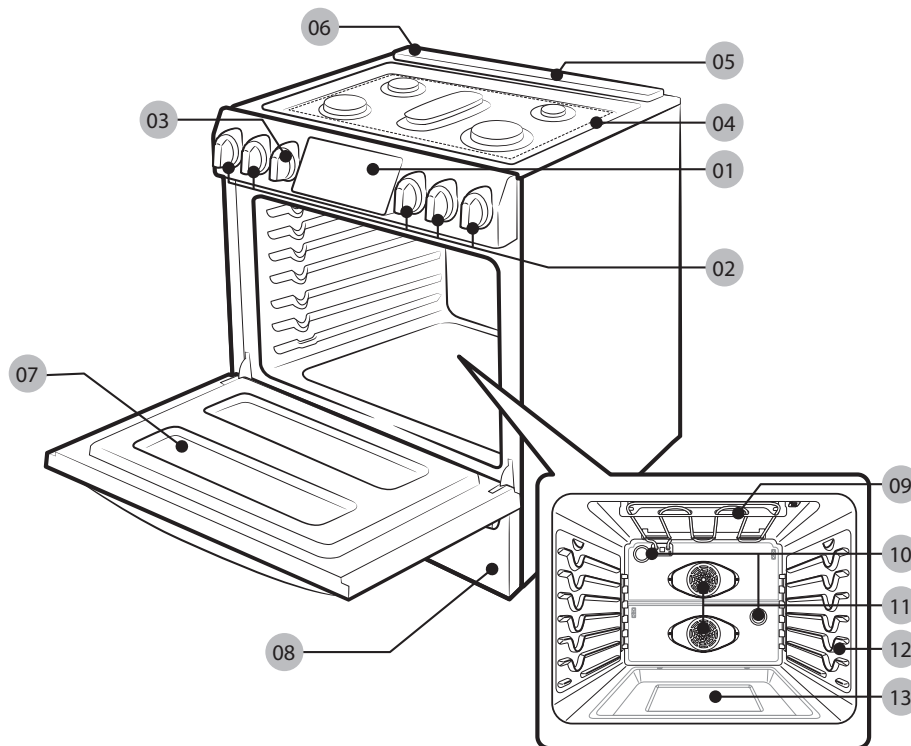
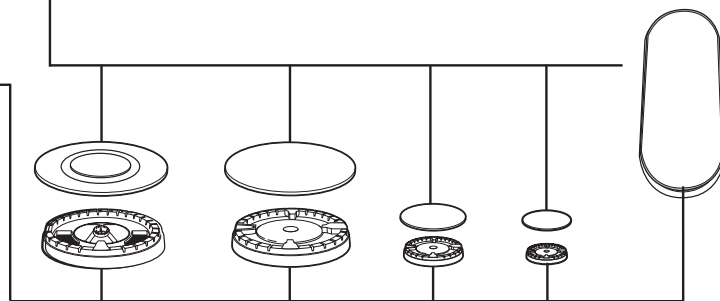
* COOKTOP BURNER CAPS

COOKTOP BURNERS COOKTOP BURNER HEADS (5)

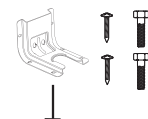
Cooktop burner cups (5)
(not shown under burners)

ELECTRODES (5)

(not shown under burners)



- ① Touch display
- ② Surface burner knobs (5pcs)
- ③ Warming drawer knob (1pc)
- ④ surface burners
- ⑤ Cover Air (Oven vent)
- ⑥ Cooling vent
- ⑦ Removable dual oven door
- ⑧ Warming drawer
- ⑨ Broil heater
- ⑩ Oven light (2 location) *
- ⑪ Convection fan/ Convection heater
- ⑫ Oven rack system
- ⑬ Bake heater

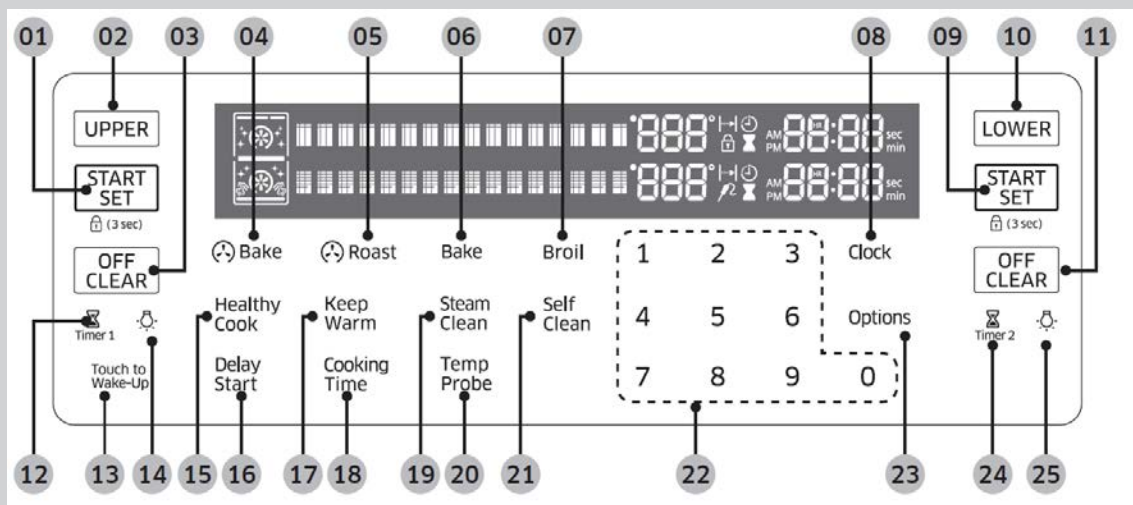


ADJUSTABLE LEVELING LEGS (4)
(not shown)
ANTI-TIP BRACKET KIT (1)

If you need an accessory marked with a *, you can buy it from the Samsung contact center. (1-800-726-7864).

2. Specifications

2-2 Control Panel - Oven



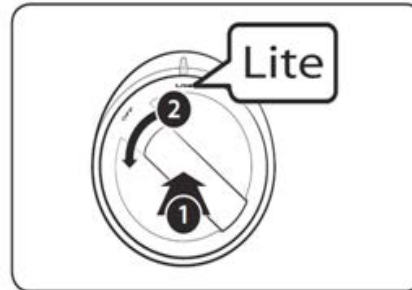
- 01 START/SET (Lock)** : Start a function or set the time. Lock the control panel and the door to prevent accidents.
- 02 UPPER** : Select the upper cooking cavity.
- 03 OFF/CLEAR** : Cancel the current operation but not the timer.
- 04 Convection Bake** : Activate convection baking for large amounts of food on multiple racks.
- 05 Convection Roast** : Activate convection roasting for large cuts of meat.
- 06 Bake** : Bake food evenly using the lower oven burner.
- 07 Broil** : Broil food using the upper oven burner only.
- 08 Clock** : Set the clock time.
- 09 START/SET (Lock)** : Start a function or set the time. Lock the control panel and the door to prevent accidents.
- 10 LOWER** : Select the lower cooking cavity.
- 11 OFF/CLEAR** : Cancel the current operation but not the timer.
- 12 Timer1** : Activate or deactivate the timer (upper).

- 13 Touch to Wake-Up** : Activate the control panel display.
- 14 Oven Light** : Turn on/off the upper oven light.
- 15 Healthy Cook** : Bring up the Healthy Cook recipes that are specially designed for different food types.
- 16 Delay Start** : Set the oven to start at a certain time.
- 17 Keep Warm** : Keep cooked food warm at lower temperatures between 150 °F and 200 °F (66 °C and 93 °C).
- 18 Cooking Time** : Set the cooking time.
- 19 Steam Clean** : Press to select the steam cleaning function of the single oven.
- 20 Temp Probe** : Activate the temperature probe mode.
- 21 Self-Clean** : Burn off food residues at very high temperatures.
- 22 Numbers** : Use to set the time, temperature, or preset.
- 23 Options** : Display the user 9 options available.
- 24 Timer2** : Activate or deactivate the timer. (Lower)
- 25 Oven Light** : Turn on/off the lower oven light.

2. Specifications

2-3 Control Panel - Gas Cooktop

LIGHTING A GAS SURFACE BURNER



Make sure all surface burners are positioned and assembled properly.

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 adjust the power setting of the surface burner and turn off the electronic ignition system.

☒ If the control knob is left in the Lite position, the electronic ignition system will continue to click and spark. 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 gas range cooktop has five gas burners. All cooktop burners are open-port design to provide you the proper heat source for the desired cooking job.

The 5,000 BTU burner provides precise cooking easy assembly, and accurate and dependable operation. The different burner sizes ensure you have cooking performance for delicate foods and foods that require low heat for long cooking times. The 5,000 BTU burner allows the LO setting to be used for a very low simmer setting.

The 9,500 BTU and 15,000 BTU round 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 22,000 BTU burner provides maximum output. These burners can also be used as general-purpose burners, but they are designed to provide quick heat to large cookware.

The 22,000 BTU burner spreads out the heat with a larger circle of flames.

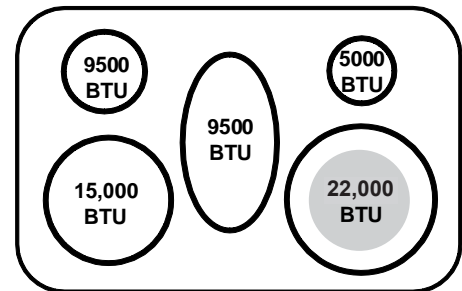
This provides better heat distribution for larger cookware (12 in [30.5 cm]) or larger pots and pans.

The 9,500 BTU center oval burner can also be used for large pots and pans, but is designed to be used with the center burner grate and/or the center griddle accessory. The oval burner also spreads out the heat more evenly over the large center cooking area.

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

Items	Slide In	Dual Fuel
	NX58H9950WS	NY58J9850WS
Colour	Stainless Steel	Stainless Steel
Controls		
Control Type - Oven	Glass Touch	Glass Touch
Control Type - Cooktop	Weighted Knob	Weighted Knob
Display Type	VFD	VFD
Display Color	Ice Blue	Ice Blue
BackGuard Color	Stainless	Stainless
Cleaning (Variable Cleaning Time)	Self cleaning (2/3/5 hr)	Self cleaning (2/3/5 hr)
Bake	150°F (65°C) - 550°F (285°C)	150°F (65°C) - 550°F (285°C)
Variable Broil (Low-High)	Low 460°F(230°C) High 570°F(300°C)	Low 460°F(230°C) High 570°F(300°C)
Convection Bake	175°F (80°C) - 550°F (285°C)	175°F (80°C) - 550°F (285°C)
Convection Roast	175°F (80°C) - 550°F (285°C)	175°F (80°C) - 550°F (285°C)
Auto Oven Light	Yes	Yes
Manual On/Off Light Switch	Yes	Yes
Favorite Cook	Yes	Yes
Clock	12HR / 24HR	12HR / 24HR
Numeric Pad	0~9	0~9
Delay Start	Yes	Yes
Timer	Yes	Yes
Keep Warm	Yes	Yes
Child Lock	Yes	Yes
Healthy Cook(Pre-set)	6 (Dehydrate, Baked potato, Grilled chicken, Salmon stake, White fish fillet, Bread proof)	6 (Baked potato, Grilled chicken, Salmon stake, White fish fillet, Dehydrate, Bread proof)

2. Specifications

Table of Specifications

Items	Slide in	Dual Fuel
	NX58H9950WS	NY58J9850WS
Cooktop		
Cooktop Type	Stainless steel	Stainless steel
Number of Burners	5	5
Total Power (BTU)	58000	61,000
Right Front (BTU)	19,000 (Dual)	22,000 (Dual)
Right Rear(BTU)	5,000	5,000
Left Front(BTU)	15,000	15,000
Left Rear(BTU)	9,500	9,500
Center(BTU)	9,500	9,500
Center Oval	Yes	Yes
Sealed Burner	Yes	Yes
Grate	Matte Black continuous grate	Matte Black continuous grate
Oven		
Convection/Element Wattage	Fan True convection	Fan True convection
Oven Capacity (cu.ft)	5.8	5.8 (2.4/ 3.3)
Broiler	Gas	Electric
Bake Burner	18,000	3000W
Broil Burner	16,500	4200W
Interior Light (Watts / Location)	1 Incandescent 40W / Back	2 Incandescent 40W / Back
# of Oven Racks	3	3
# of Rack Positions	7	7
Rack Finish	Chrome	Chrome
Door		
Door Material	STSS + Glass	STSS + Glass
Door Handle	Stainless Steel	Stainless Steel
Number of Glass	3	3
Window Size	W – 25.24", H- 18.31"	W – 25.24", H- 18.31"
Automatic Safety Door Lock	Yes	Yes
Removable Oven Door	Yes	Yes

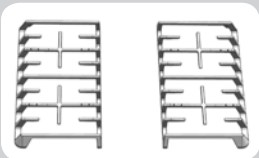








2. Specifications

Table of Specifications

Items	Slide in	Dual Fuel
	NX58H9950WS	NY58J9850WS
Drawer		
Drawer capacity (cu.ft)	0.7	0.7
Type	Warmer	Warmer
Drawer Heater Performance	600W	600W
Warm. Drawer Temp. Settings	Low-Mid-High	Low-Mid-High
Warm. Drawer Handle	Handle	Handle
Accessories/Others		
Anti-Tip Device	Yes (Leg Brackets)	Yes (Leg Brackets)
Griddle	1	1
Wok Grate	1	1
Wire Rack	2	2
Split Rack	0	1
Gliding Rack	1	0
Application Dimensions		
Actual Oven Dimensions (WxHxD)	25" x 21 1/8" x 19"	25" x 21 1/8" x 19"
Outside Dimensions (WxHxD)	29 13/16" x 36 3/16" x 26 3/8"	29 15/16" x 36 3/16" x 26 7/16"
Shipping Dimensions (WxHxD)	32 7/8" x 43 11/16" x 30 1/8"	33 1/16" x 41 3/4" x 30 5/16"
Net Weight (Kg)	105.5kg	110kg
Gross Weight (Kg)	116kg	120kg





2. Specifications

2-5 Accessories

Item	Description	Code No.	Quantity
	Assy-Grate Side Coating	DG94-00937A	2
	Assy-Grate Center Coating	DG94-00938A	1
	Plate Griddle	DG61-00563A	1
	Assy-Partition	DG94-00484A	1
	Assy Grate	DG94-00939A	1
	Rack Flat	DG94-00908A	1
	Assy-Split Rack	DG94-00634A	1
	Recessed Rack	DG75-01056A	1
	Sensor Probe	DG32-00013A	1

3. Disassembly and Reassembly

■ Tool for assembly and disassembly

Item	How to use	Pictures
Screw driver(+)	Use for assembly and disassembly of all screws.	
Tubing Wrench	Use for assembly and disassembly of tubing to the cup.	
7mm Vox Driver	Use for assembly and disassembly of injector nozzles. [cooktop]	
9mm Vox Driver	Use for assembly and disassembly of injector nozzles. [Convection Fan]	

3. Disassembly and Reassembly

3-1 COVER MOTOR CONVECTION

WARNING

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

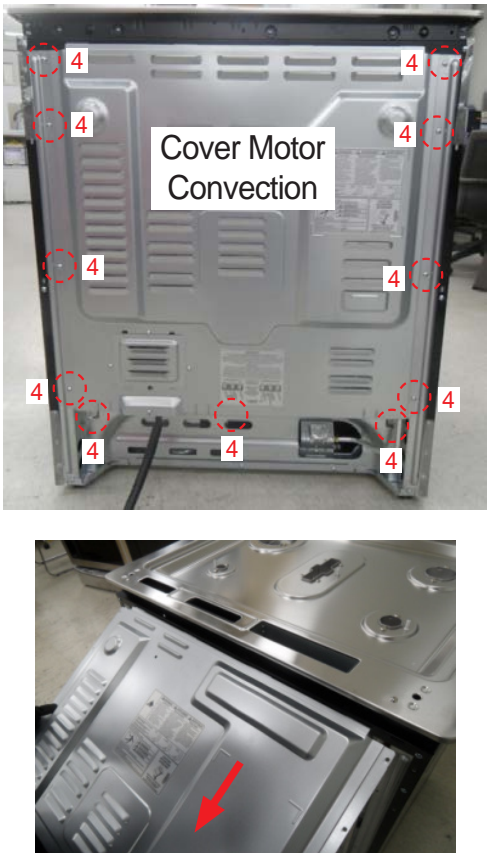
WARNING

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.

Explanation Photo	Explanation
	<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 11 screws from Cover Motor Convection and separate Cover Motor Convection from the range.

3. Disassembly and Reassembly

3-2 ASSY CONTROL BOX



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



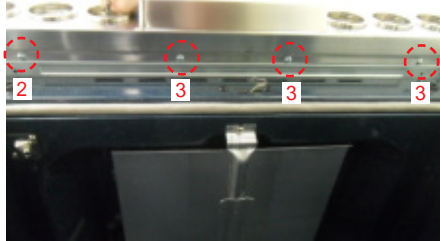

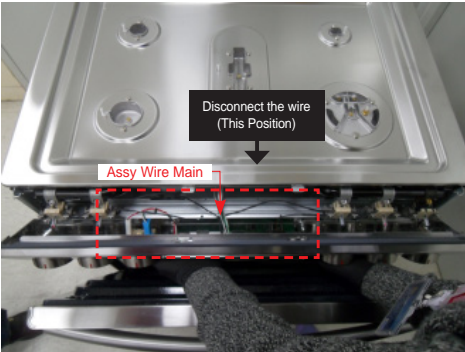
EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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.

Explanation Photo	Explanation
    	<ol style="list-style-type: none"> 1. Remove 6 Knobs from the Assy Control Box. 2. Remove 2 screws from the each 5 Holder Knobs except for Holder Knob Warmer. (Total 10 pcs) 3. Open the Door and Remove 4 screws from the bottom of Assy Control Box. 4. Lift the Assy Control Box slightly to separate from the range. (Assy Wire Main is still connected to the Assy Display of Assy Control Box) 5. Disconnect 3 wire connectors from the Assy Display(PCB). 6. Remove the Assy Control Box from the range.

3. Disassembly and Reassembly

3-3 ASSY FRAME 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.


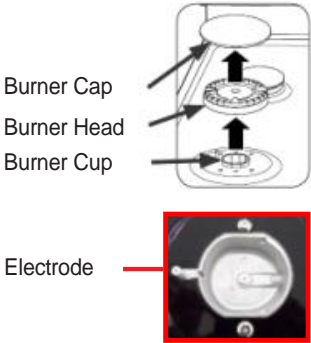


WARNING

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

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.

Explanation Photo	Explanation
  	<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 a Cover Air. 4. Lift off 5 burner caps and heads from the burner cups. 5. Remove screws from the each 5 burner cups and pull out all knob dials. 6. Remove 2 screws from the rear of the Frame Cooktop. 7. Push the Burner cups down to the Frame Cooktop. 8. Remove the Frame Cooktop. <p> Make sure the electrodes are placed under the openings of Cooktop to prevent interference and damage during replacement.</p>

3. Disassembly and Reassembly

3-4 SIDE PANEL



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

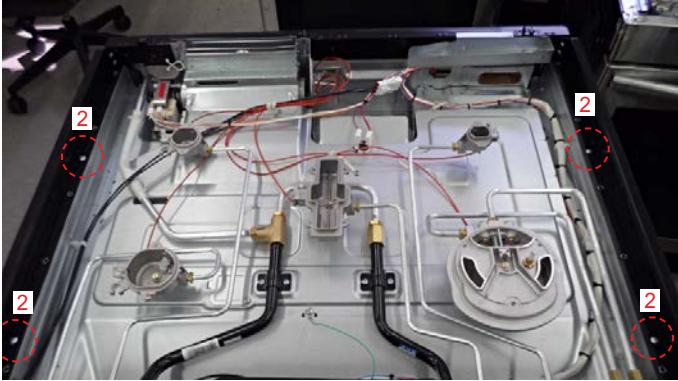
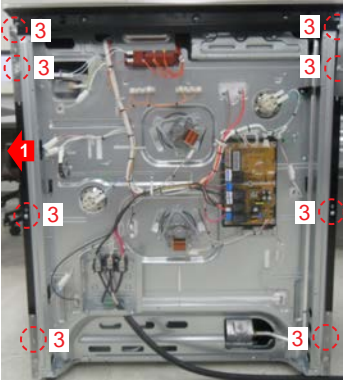
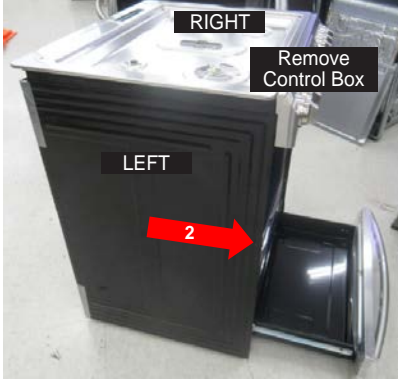
EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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.

Explanation Photo	Explanation
  	<ol style="list-style-type: none"> 1. Follow the steps in 3-1, 3-2, and 3-3. 2. Remove 2 screws from each side of Assy Burner Box. 3. Remove 4 screws from each Side Panel. 4. Remove the Door and open the Drawer. 5. Slightly pull out the Side Panel from the range.

3. Disassembly and Reassembly

3-5 ASSY BURNER BOX



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.



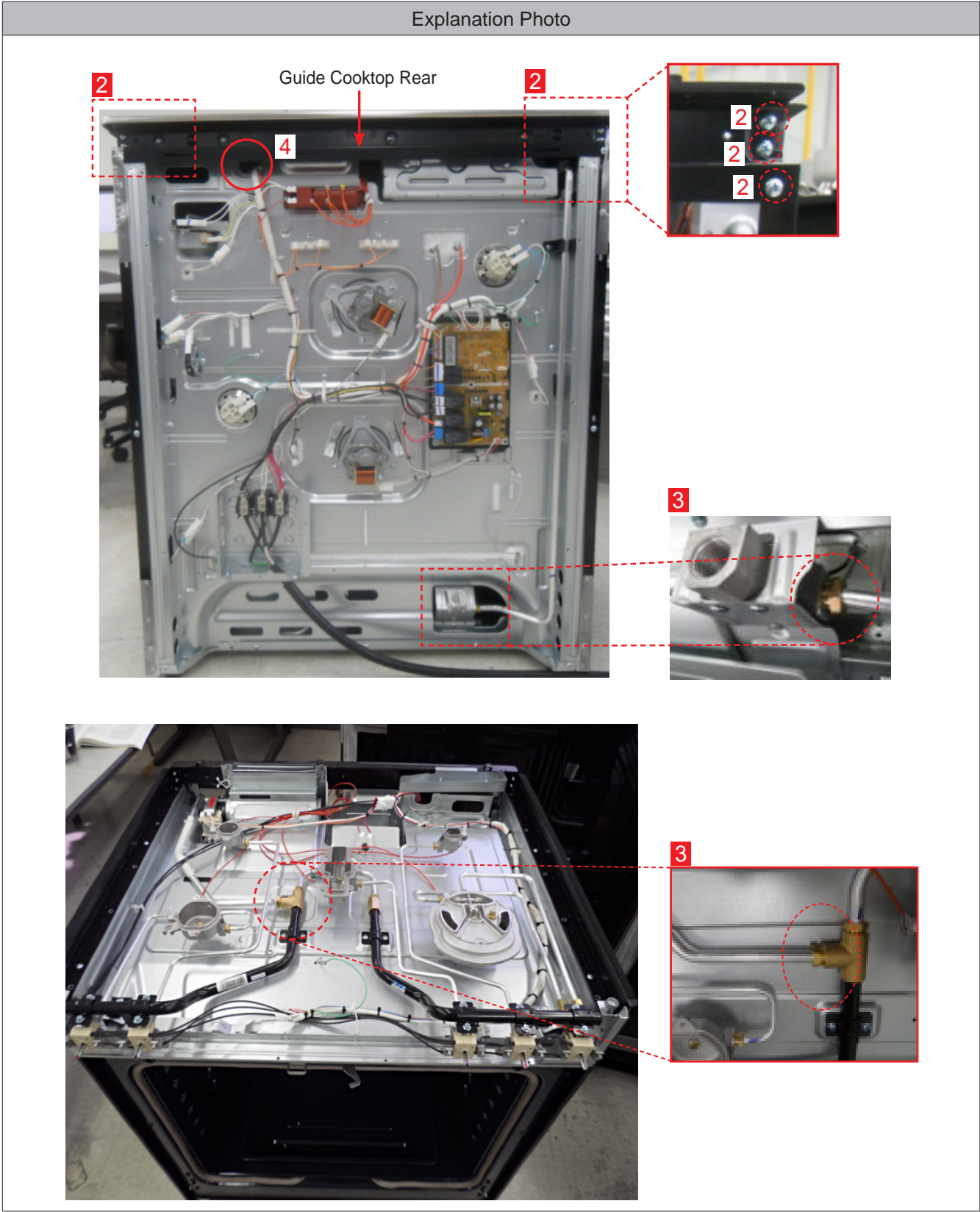
CAUTION

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.

Explanation

1. Follow the steps in 3-1, 3-2, and 3-3.
2. Remove the Assy Motor (p 29) and 6 screws from a Guide Cooktop Rear.
3. Remove the Assy tube-manifold using a tubing wrench.
4. Remove 1 screw from a Cover Rear.
5. Remove 6 screws from a Assy Burner Box.
6. Remove the 2 screws from the Cover Vent and Bracket Vent.
7. Remove 1 ground screw and Disconnect wires connected to a the Assy Burner Box and arrange the wire.
8. Remove the Assy Burner Box.

3. Disassembly and Reassembly



3. Disassembly and Reassembly

3-6 ASSY PCB ASSEMBLY

WARNING

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

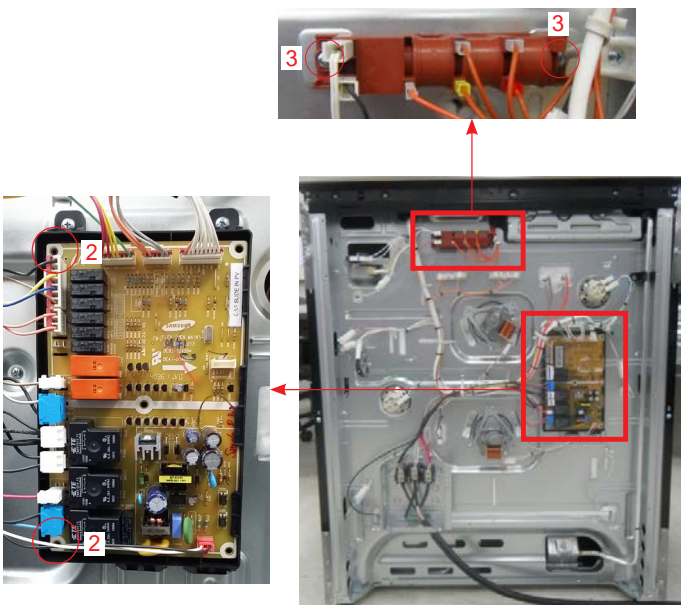
WARNING

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.

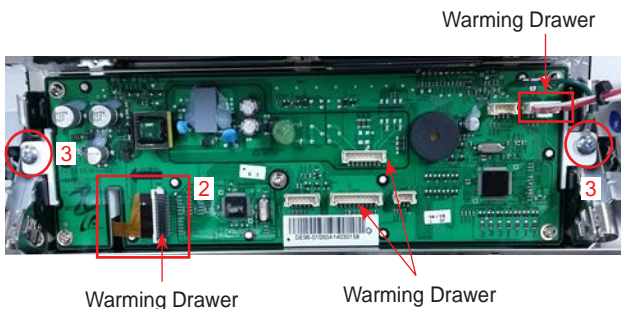
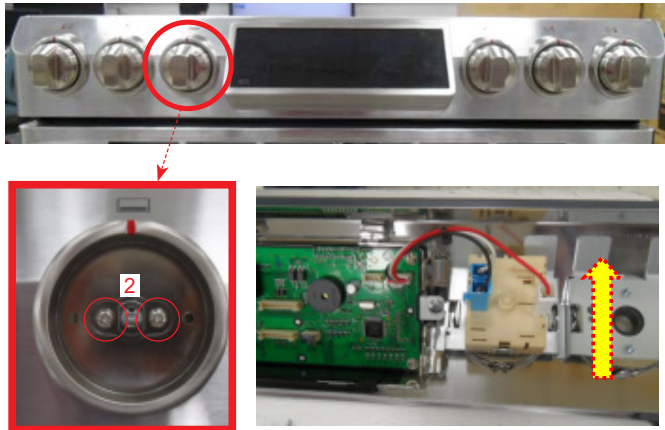
CAUTION

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	Explanation Photo
PCB ASSEMBLY	<ol style="list-style-type: none"> Follow the step on 3-1. Disconnect 10 wire connectors from the Main PCB. Remove 2 screws of PCB assembly and replace the PCB. 	

3. Disassembly and Reassembly

3-7 ASSY DISPLAY, ROTARY SWITCH

Parts	Explanation	Explanation Photo
ASSY DISPLAY	<ol style="list-style-type: none"> 1. Follow the steps on 3-2. 2. Bend the Tail Holder of the Assy Display(PCB). 3. Remove 2 screws from the Assy Display. 4. Replace the Assy Display. 	 <p>Warming Drawer</p> <p>Warming Drawer</p> <p>Warming Drawer</p>
ROTARY SWITCH	<ol style="list-style-type: none"> 1. Follow the steps in 3-1 and 3-2. 2. Remove 2 screws from the Holder Knob Warmer. 3. Pull out the Rotary Switch and replace it. 	 <p>Warming Drawer</p>

3. Disassembly and Reassembly

3-8 ELECTRODE



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.


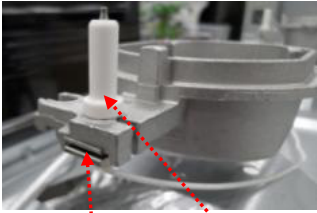

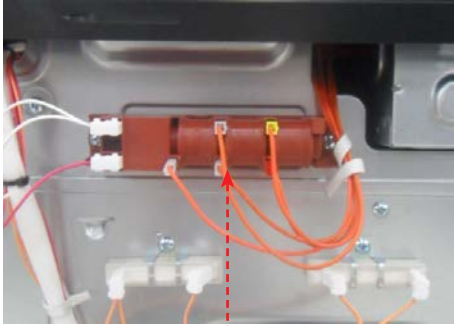


CAUTION

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

3-8 ELECTRODE

Parts	Explanation	Explanation Photo
ELECTRODE	<ol style="list-style-type: none"> 1. Follow the steps on 3-1 and 3-3. 2. Disconnect the wire connectors from the terminal on the Spark module. 3. To remove the Electrode from the cup, squeeze the two outside edges of the clip under the electrode together while pulling to remove the locking clip. Slide the electrode and the wire from the cup. In case of Dual Burner, Rotate Electrode and pull it up. 	 <p>Gas Orifice Burner Cup Tube</p>  <p>Bracket Spring Electrode Electrode</p>  <p>Holder & Spring ETC</p>  <p>Wire Housing</p>

3. Disassembly and Reassembly

3-9 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.


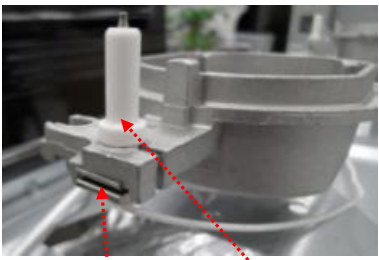
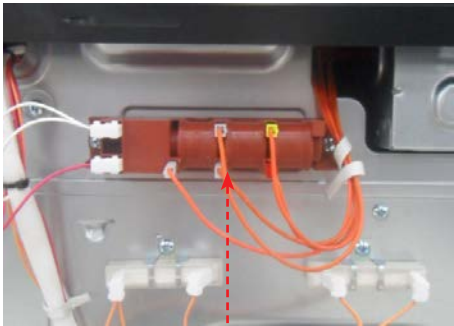


CAUTION

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

3-9 BURNER CUP

Parts	Explanation	Explanation Photo
BURNER CUP	<ol style="list-style-type: none"> Follow the steps on 3-1 and 3-3. Using a tubing wrench on the gas line fitting and a channel lock wrench on the burner cup base, firmly hold the cup base in place while disconnecting the gas line. Remove a Electrode(p 25) The burner cup can be removed. Replace it. <input checked="" type="checkbox"/> The new burner cup must be replaced with the same size as the one removed. After replacement, You must check gas leakage 	 <p> Burner Cup Tube </p>
		 <p> Bracket Spring Electrode Electrode </p>
		 <p>Wire Housing</p>

3. Disassembly and Reassembly

3-10 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.

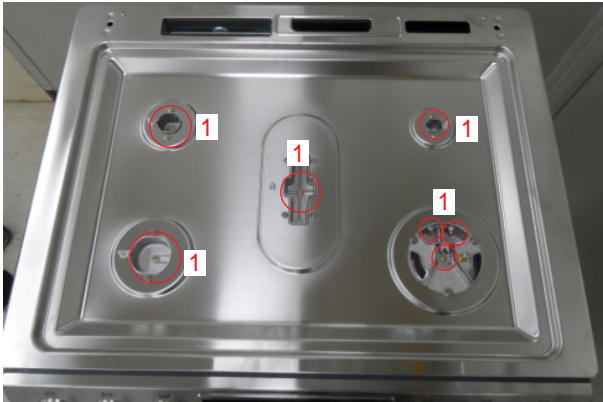



CAUTION

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

3-10 GAS ORIFICE NOZZLE

Parts	Explanation	Explanation Photo
GAS ORIFICE NOZZLE	<ol style="list-style-type: none">1. To remove the gas orifice, place the burner cup in a vise and remove the orifice with a 9/32-inch socket wrench. In case of the Dual Burner, it has 3 Orifice nozzles.2. Install a new gas orifice to the burner cup.	  <p>Gas Orifice Nozzle Burner Cup Tube</p>

3. Disassembly and Reassembly

3-11 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

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.

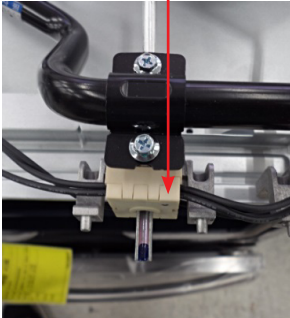

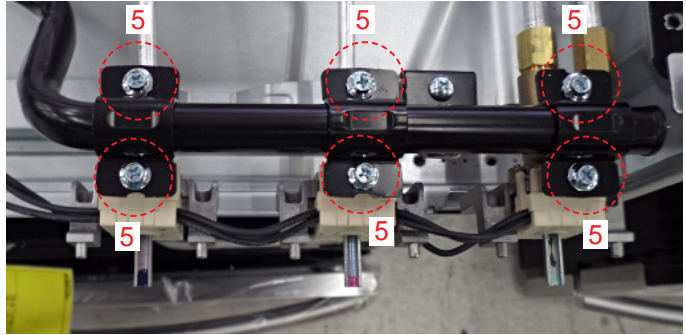


CAUTION

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

3. Disassembly and Reassembly

3-11 VALVE COOKTOP

Parts	Explanation	Explanation Photo
VALVE COOKTOP	<ol style="list-style-type: none"> Follow the steps 3-2 and 3-3. Open or remove a Door. Place a finger behind each side of the switch ignition and pull it straight out to release it from the control shaft. Using a tubing wrench and a channel lock wrench, disconnect the gas lines from the valve cooktop. Do not bend or crimp gas lines during Removal. Remove the Valve Cooktop followed by removal of 2 screws on the valve cooktop. Replace the Valve Cooktop and Check gas leakage. <p>✍ When assembling or disassembling the valve, the screw torque should be adjusted to 1.5N.m.</p>	<div> <p>Switch Ignition</p>  </div> <div> <p>Adaptor</p>  </div> 

3. Disassembly and Reassembly

3-12 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.

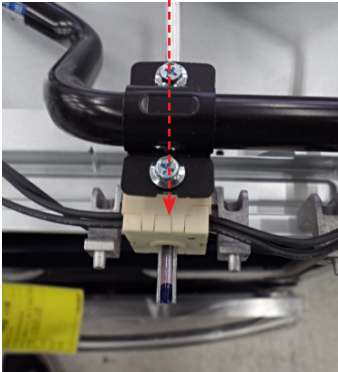
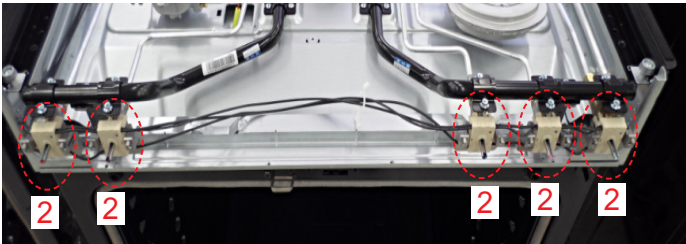
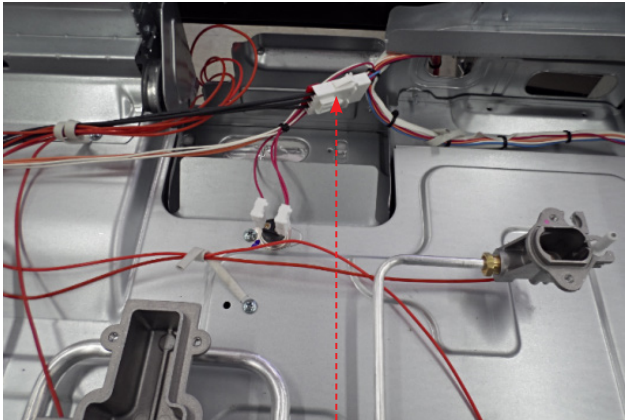


CAUTION

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

3. Disassembly and Reassembly

3-12 SWITCH IGNITION

Parts	Explanation	Explanation Photo
SWITCH IGNITION	<ol style="list-style-type: none">1. Follow the steps on 3-1, 3-2, and 3-3.2. 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 on the Cover Rear.4. Bend the Clamp to disconnect the Switch Ignition Wire.5. Replace the Switch Ignition.	<p>Switch Ignition</p>    <p>Connector of Switch Ignition</p>

3. Disassembly and Reassembly

3-13 ASSY MOTOR , TCO



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.


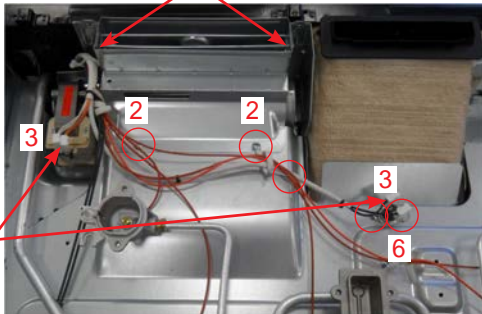




CAUTION

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

3. Disassembly and Reassembly

3-13 ASSY MOTOR , TCO

Parts	Explanation	Explanation Photo
ASSY MOTOR and TCO	<ol style="list-style-type: none"> Follow the steps on 3-1 and 3-3. Remove 2 screws from the Guide Cooktop Rear and a Bracket Motor Front. Disconnect 2 terminal housings from the Assy Motor and the TCO. Remove the Assy Motor and unbend the hook of the Bracket Motor Rear. Remove 2 screws from the Bracket Motor Front and the Bracket Motor Rear. Remove 2 screws from the TCO, then replace the TCO. 	 <p>Hooks of Bracket Motor Rear</p>  <p>Housing</p>  

3. Disassembly and Reassembly

3-14 ASSY 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.


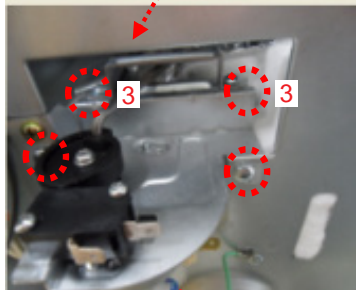
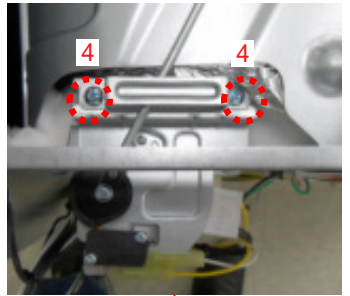
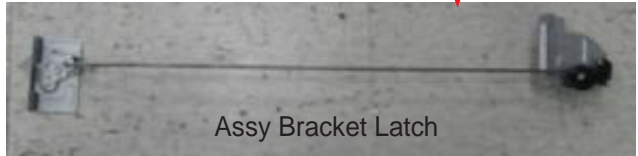


CAUTION

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.

3. Disassembly and Reassembly

3-14 ASSY DOOR LATCH

Parts	Explanation	Explanation Photo
ASSY DOOR LATCH	<ol style="list-style-type: none"> Follow steps on 3-5. Remove 2 screws from the Cavity Front. Remove 2 screws from the Bracket-Latch sub to the rear of the range. Disconnect wires from the door latch to the rear of the range and remove it. Remove 2 screws holding the Assy bracket-latch rear to the rear of the range. Replace the Assy Bracket Latch. Test the Assy Door Latch to make sure it is latching and unlatching properly. 	<div> <p>Cavity Front</p>  </div> <div> <p>Bracket-Latch Rear</p>  </div> <div> <p>Bracket-Latch Rear</p>  </div> <div> <p>Assy Bracket Latch</p>  </div>

3. Disassembly and Reassembly

3-15 ASSY PROBE



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.

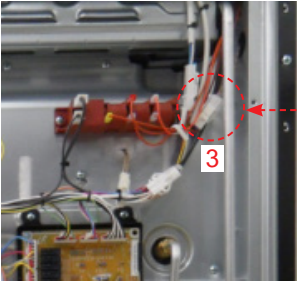
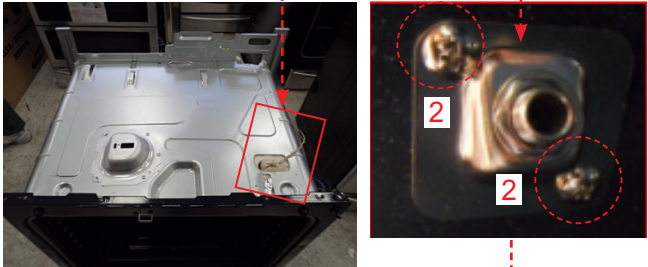



CAUTION

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

3-15 ASSY PROBE

Parts	Explanation	Explanation Photo
ASSY PROBE	<ol style="list-style-type: none">1. Follow steps on 3-4. (removal of the left side panel).2. To replace the Assy Probe, remove 2 screws from the Assy Probe.3. Disconnect the Assy Probe connector.4. Replace the Assy Probe.	<div><p>Connector of Assy Probe</p></div> <div><p>Assy Probe</p></div> <div></div>

3. Disassembly and Reassembly

3-16 SWITCH-DOOR PLUNGER

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	Explanation Photo
SWITCH-DOOR PLUNGER	<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. Open the oven door. 4. Carefully pull out the switch door plunger switch from the upper right corner of the cavity front. Gently grasp the plunger with pliers and work from side to side while pulling. Pull out far enough to expose the wires. 5. Note the location and mark the wires; then disconnect the wire to the switch door plunger. 6. Replace with the switch-door plunger, reconnect the wires in their original positions, and reinstall switch in the oven frame. 	 <p>Switch Door Plunger</p> 

3. Disassembly and Reassembly

3-17 ASSY 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

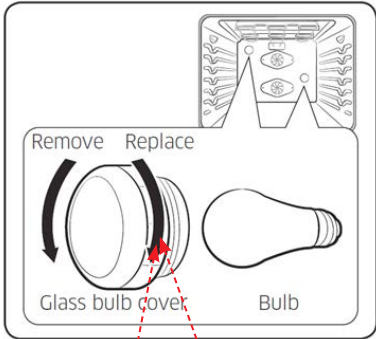
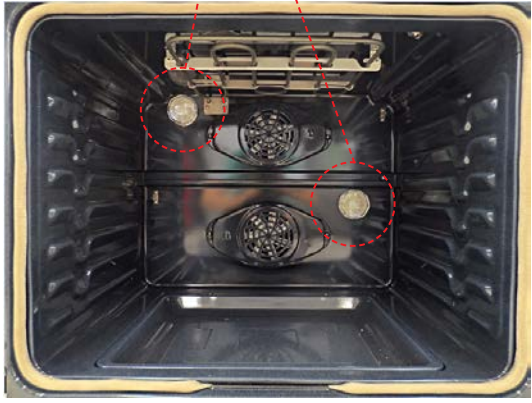
EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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	Explanation Photo
ASSY LAMP	<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 the upper right-hand corner of the oven cavity. Turn oven lamp cover counterclockwise to loosen and remove the cover. 3. Remove the oven light bulb. 4. After replacement, Install Oven light cover by turning clockwise. 	 

3. Disassembly and Reassembly

3-18 SENSOR-THERMISTOR



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

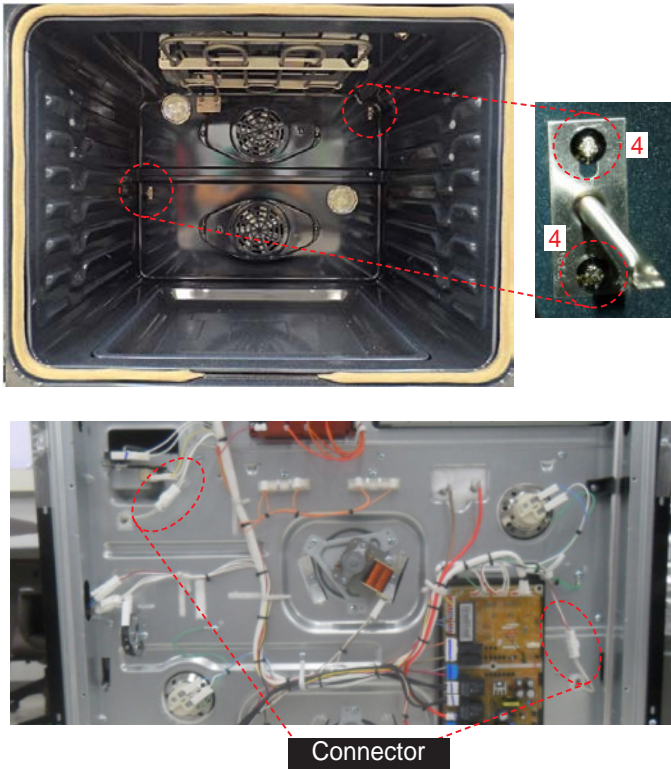
EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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.



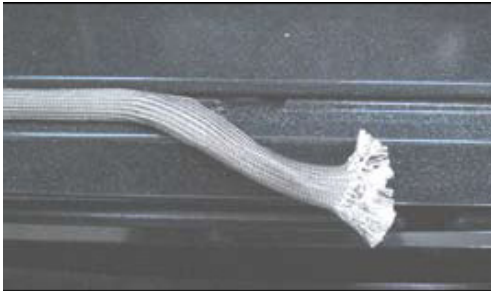

CAUTION

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	Explanation Photo
Sensor-Thermistor	<ol style="list-style-type: none"> Follow steps on 3-1. Open the oven door and remove the racks from inside the oven. Disconnect connector of the sensor thermistor to the rear of the range. 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. Reverse the order to install the oven temperature sensor. <p>⚠ 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

3-19 GASKET-DOOR

Parts	Explanation	Explanation Photo
GASKET DOOR	<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>☑ 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

3-20 OVEN DOOR (UPPER)

WARNING


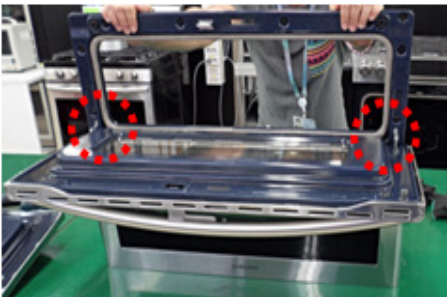

Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

WARNING

The door is very heavy. Be careful when removing door. Do not lift door by the door handle.






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	Explanation Photo
Oven Door (Upper)	<p>To remove Oven Door (Upper)</p> <ol style="list-style-type: none"> 1. Fully open the door with pressing the lever. 2. Pull the hinge locks downward 3. Firmly grasp both side of the door at the top. 4. Close door to the door removal position, which is approximately 5 degrees. Lift door up and out until the hinge arm are clear of the slot. 	  

3. Disassembly and Reassembly

3-20 OVEN DOOR (UPPER)

Parts	Explanation	Explanation Photo
Oven Door (Upper)	<p>To replace door (UPPER)</p> <ol style="list-style-type: none"> 1. Firmly grasp both sides of the door at the top position. 2. Fully open the door. <p>☞ Note. If the door will not fully open, it means that the indentation is not seated correctly in the bottom edge of the slot. Push the hinge locks up to the locked position.)</p> <ol style="list-style-type: none"> 3. Close the oven door. 	    

3. Disassembly and Reassembly

3-21 HANDLE-DOOR, GLASS INNER (UPPER)

WARNING

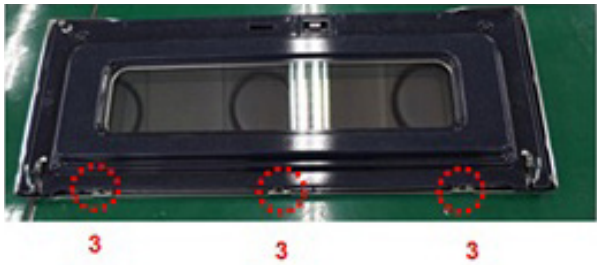


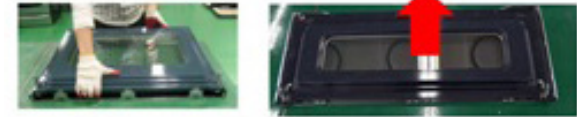


Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

WARNING

The door is very heavy. Be careful when removing door. Do not lift door by the door handle.

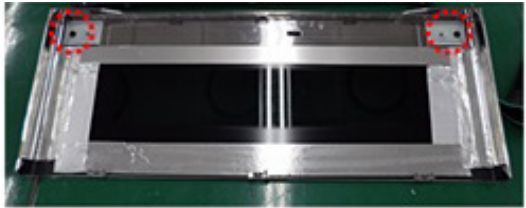






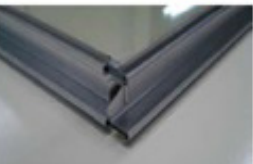
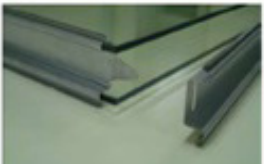
CAUTION

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	Explanation Photo
HANDLE-DOOR, GLASS INNER (UPPER)	<p>To remove the HANDLE DOOR and GLASS INNER (Prepare Step)</p> <ol style="list-style-type: none"> 1. Remove the oven door from the range. 2. Place the oven door on a padded work surface with the front glass facing down. 3. Remove 3 bottom screws from the door. 4. Remove 2 Handle-screws from the door. 5. Lift the door rear assembly off the front assembly and set it aside 6. Remove 2 spacers and 2 screws. 	     

3. Disassembly and Reassembly

3-21 HANDLE-DOOR, GLASS INNER (UPPER)

Parts	Explanation	Explanation Photo
HANDLE-DOOR, GLASS INNER (UPPER)		
	<p>To remove Handle-Door</p> <p>7. Remove 2 screws to remove Handle-Door.</p> <p>To remove Glass-Inner</p> <ol style="list-style-type: none"> 1. Remove 4 screws to remove the Glass inner sub. 2. Remove 6 screws to remove the Assy Hinge Up. 3. Remove 7 screws or remove Baffle-Door. 4. Remove 8 screws to remove Baffle-Door and take out the Glass-Inner assembly. 5. Unfold 2 flanges of Cover-Frame Inner Glass to taking out Glass-Inner. 	  <p>Back side of this point</p>     <p>Glass-Inner assembly</p>  

3. Disassembly and Reassembly

3-22 OVEN DOOR (FULL DOOR)



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

The door is very heavy. Be careful when removing door. Do not lift door by the door handle.






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	Explanation Photo
OVEN DOOR (FULL DOOR)	<p>To remove Oven Door</p> <ol style="list-style-type: none"> 1. Fully open the door. 2. Pull the hinge locks downward. 3. Firmly grasp both side of the door at the top. 4. Close door to the door removal position, which is approximately 5 degrees. Lift door up and out until the hinge arm are clear of the slot. 	 

3. Disassembly and Reassembly

Parts	Explanation	Explanation Photo
OVEN DOOR (FULL DOOR)	<p>To replace door</p> <ol style="list-style-type: none"> 1. Firmly grasp both sides of the door at the top position. 2. Fully open the door. (If the door will not fully open, it means that the indentation is not seated correctly in the bottom edge of the slot. Push the hinge locks up to the locked position.) 3. Close the oven door. 	  

3. Disassembly and Reassembly

3-23 GLASS INNER (FULL DOOR)



WARNING

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



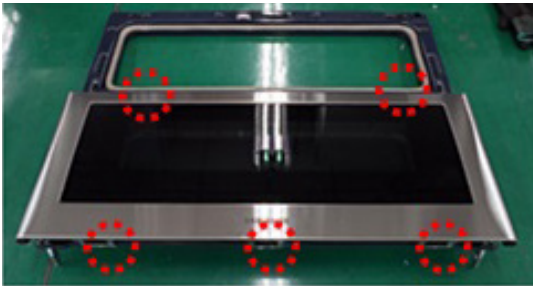

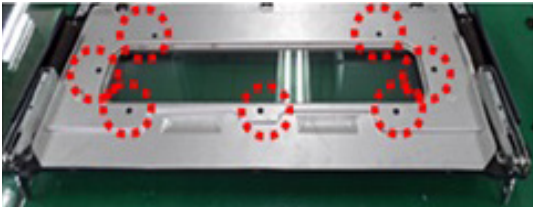
WARNING

The door is very heavy. Be careful when removing door. Do not lift door by the door handle.

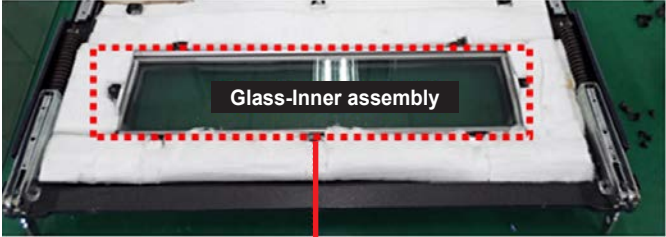
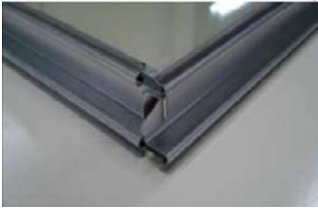
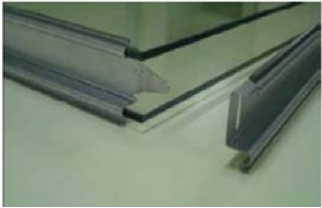


CAUTION

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	Explanation Photo
GLASS INNER (FULL DOOR)	<ol style="list-style-type: none"> 1. Remove the UPPER OVEN DOOR. (Follow the 17. Oven Door Upper) 2. Remove 5 screws to remove the CHASSIS DOOR LOW. 3. Remove 4 screws to remove the GLASS INNER SUB. 4. Remove the 7 screws to remove the BAFFLE DOOR LOW. 	  

3. Disassembly and Reassembly

Parts	Explanation	Explanation Photo
GLASS INNER (FULL DOOR)	<div>4. Take out the Glass-Inner assembly.</div> <div>5. Unfold 2 flanges of Cover-Frame Inner Glass to taking out Glass-Inner.</div>	<div></div> <div></div> <div></div>

3. Disassembly and Reassembly

3-24 HEATER 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

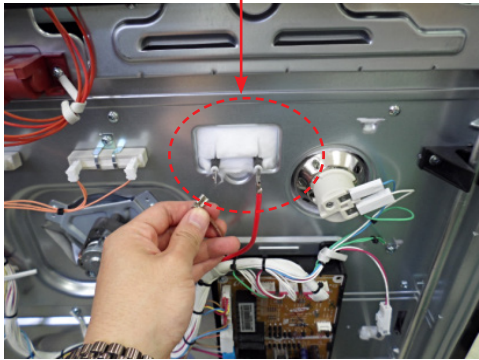
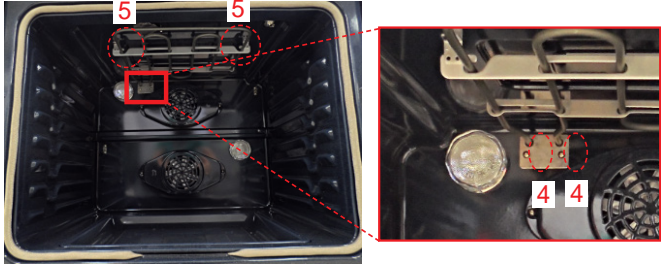
EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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.

Parts	Explanation	Explanation Photo
HEATER BROIL	<ol style="list-style-type: none"> Follow step on 3-1. Open the oven door and remove the racks from inside the oven. Disconnect the wires of the HEATER BROIL. Remove 2 screws of the HEATER BROIL from back side of the cavity. Support the HEATER BROIL with one hand, remove 2 screw of the bracket HEATER BROIL. Pull the HEATER BROIL. Replace the HEATER BROIL. 	<p>Heater Connector</p>  

3. Disassembly and Reassembly

3-25 HEATER 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



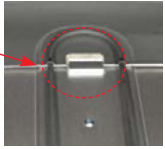
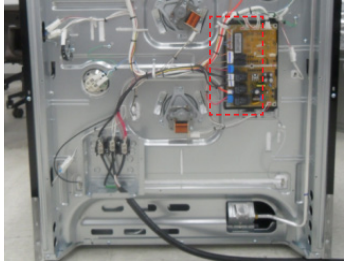
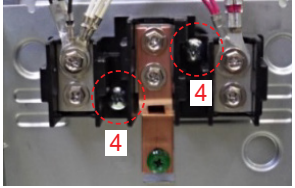


EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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.

Parts	Explanation	Explanation Photo
HEATER BROIL	<ol style="list-style-type: none"> Follow step on 3-1. Open the oven door and remove the racks from inside the oven. Remove 2 screws of the CAVITY FLOOR and Remove the CAVITY FLOOR. Remove 2 screws of the TERMINAL BLOCK from back side. Disconnect the wires of the HEATER BAKE and remove 2 screws. Pull the HEATER BAKE. Replace the HEATER BROIL and Check the Hook (Fig.1) 	      

Heater Connector

3. Disassembly and Reassembly

3-26 WARMING DRAWER

WARNING

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


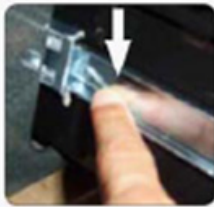


WARNING

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	Explanation Photo
WARMING DRAWER	<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. Open the warming drawer to the fully opened position. 4. Locate glide lever on each side of drawer. Push down on the left glide lever and pull up on the right glide lever while pulling the drawer the rest of the way out. 5. Place the ends of the drawer side rails into the ends of the drawer glide rails. Push in the drawer to close the drawer and snap the glide lever into place. 	   

3. Disassembly and Reassembly

3-27 HEATER WARMING DRAWER



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

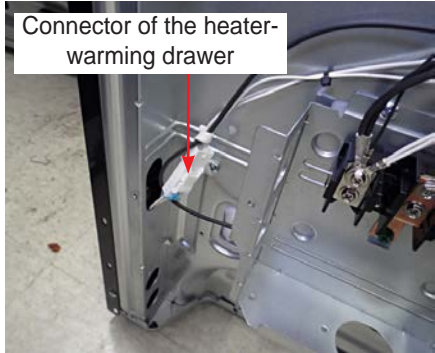
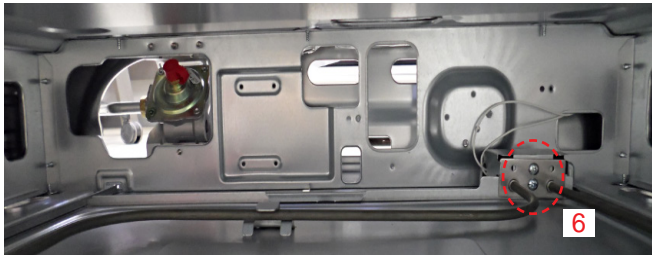
EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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	Explanation Photo
HEATER WARMING DRAWER	<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 on 3-1. 4. Remove the warming drawer. (See, 24. Warming Drawer) 5. Disconnect the connector from the back side of the oven. 6. Remove 2 screws of the heater-warming drawer from the back wall of the warming drawer opening. 7. Reverse the order to install and connect the new heater warming drawer. 	 <p>Connector of the heater-warming drawer</p>  <p>6</p>

3. Disassembly and Reassembly

3-28 MOTOR CONVECTION

WARNING

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


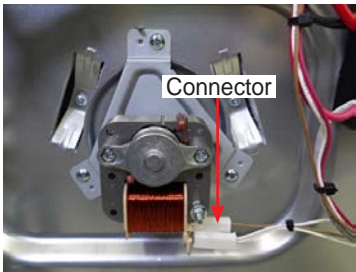
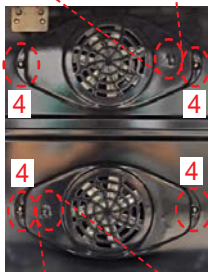
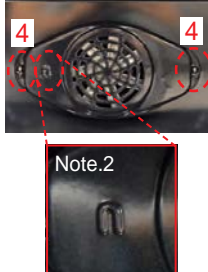
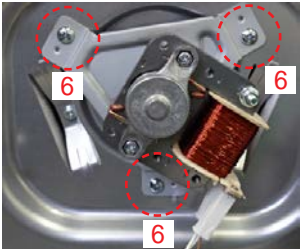
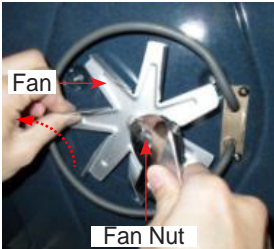
WARNING

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	Explanation Photo
MOTOR CONVECTION	<ol style="list-style-type: none"> Follow the step on 3-1. Note, mark, and disconnect wires or connector going to the motor convection Open the oven door and remove the racks from inside the oven. Remove 2 screws and the interior cover casing from the back wall of the oven cavity. Remove the fan nut, fan blade from the motor convection shaft. (The convection nuts have CCW/CW threads to remove each nut.) Remove 3 screws from the bracket of the back main to the rear of the range. Pull the motor convection straight out When the service is complete, reverse the order to install the motor convection. <p> Note. 1 Do not fasten the fan nuts too strong.</p> <p>Note. 2 When you install the upper cover casing, please refer to the picture</p>	     <p>Note.2</p> <p>Connector</p> <p>Fan</p> <p>Fan Nut</p>

3. Disassembly and Reassembly

3-29 HEATER CONVECTION



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	Explanation Photo
HEATER CONVECTION	<ol style="list-style-type: none"> Follow the step on 3-1. To remove heater convection, disconnect wires or connector going to the heater-convection Remove 2 screws supporting the heater-convection to the rear of the oven. Remove 1 screw holding the bracket-convection heater of the rear of the oven. Pull out the heater convection. Reverse the order to install the heater convection. 	<p>Connector of the Heater Convection</p> <p>Bracket Convection Heater</p>

3. Disassembly and Reassembly

3-30 REGULATOR



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

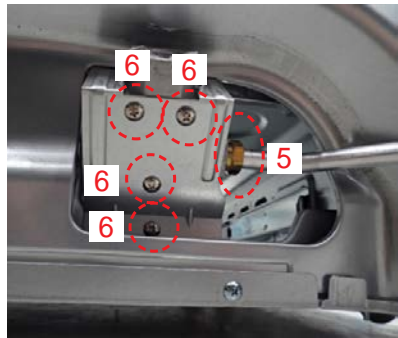

EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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	Explanation Photo
ASSY VALVE SAFETY	<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. Remove the Warming Drawer from the Range. (See, 24. Warming Drawer) 4. Using a tubing wrench and a channel-lock wrench, disconnect the gas line from the the Regulator. Do not bend or crimp gas lines during removal. 5. Remove gas fittings from the Regulator 6. Remove 4 screws and the Regulator from the back wall of the warming drawer opening. 7. Install the new Regulator from the back wall of the warming drawer with 4 screws. 8. Reconnect gas lines to the Regulator. 	 

4. Troubleshooting

4-1 Failure Display Codes

There are two kinds of error codes. One denotes an oven temperature sensor error and the other denotes a safety error. Possible error codes during use can be checked before service.

1. Touch Clock pad.
2. Touch the number pads 1,2,3 and 4. Make sure the Timer and Warming Drawer are both turned OFF.
3. Touch the Start/Set pad.
4. Touch the 'Clock' and the 'Touch to Wake-Up' pads at the same time for 2 seconds. Error codes are displayed.
5. Press the 0 number pad, to display the latest 5 error codes.
If the power is interrupted and the oven turns off, the stored error codes are deleted.
6. Press the Off/Clear pad to return to normal display mode.

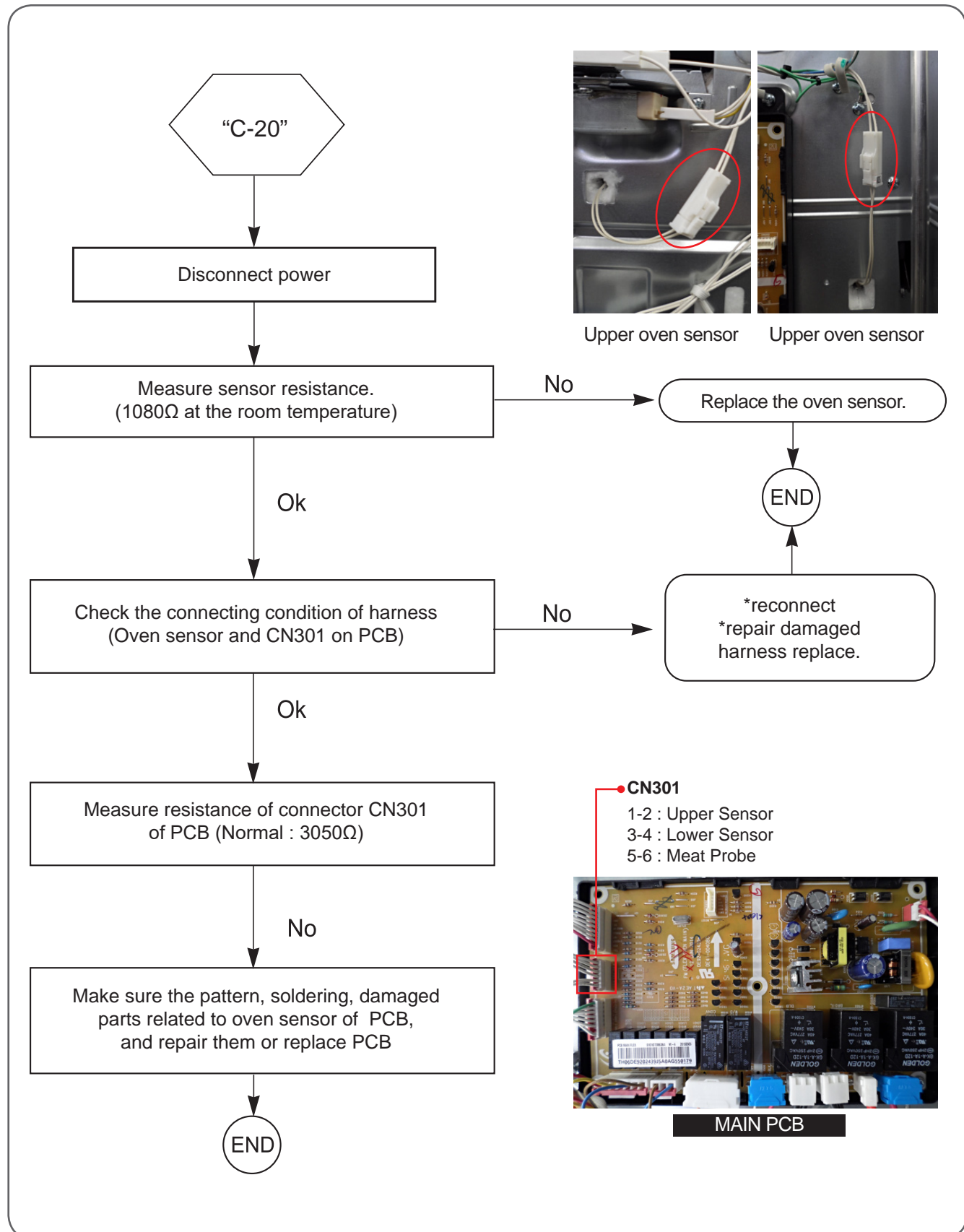


Oven sensor error

FAILURE CODE	CAUSE	SOLUTION
C-21	Oven Sensor Opened (Over 2950Ω)	1. Disconnect electrical Power to the range. Remove the upper rear cover panel. Measure the sensor resistance:1080Ω at the room temperature → If there are any problems, replace the oven temperature sensor. 2. If there is not any problem with oven temperature sensor, Please check whether there is a damaged terminal or wire on harness.
C-22	Oven Sensor Shorted (Under 930Ω)	3. Disconnect the oven sensor connector from the PCB. Check resistance of oven sensor connector on PCB. (Normal : 2850Ω)

4. Troubleshooting

Failure Display Codes



4. Troubleshooting

Failure Display Codes

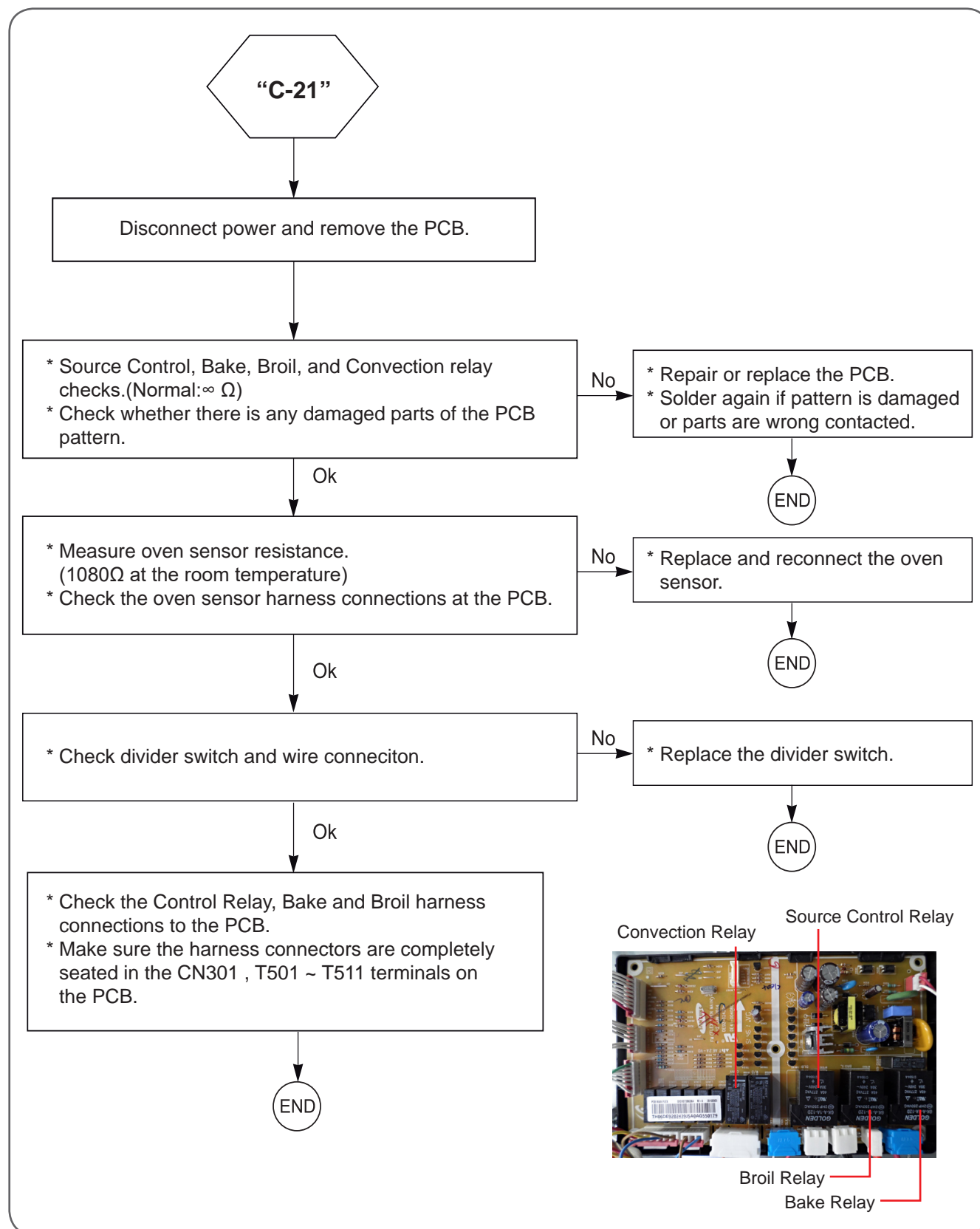
Safety Error

FAILURE CODE	CAUSE	SOLUTION
C-21	<p>Oven overheating error. (Temperature dose not reach 650°F[343℃] in any cooking function, except Self Clean)</p> <p>※ Self Clean : 870°F[466℃]</p>	<ol style="list-style-type: none"> 1. Disconnect power. Open the rear cover. Disconnect the two harness connectors to the oven temperature sensor resistance:1080Ω at the room temperature → If there are any problems, replace oven temperature sensor. 2. Make sure all harness connections are properly connected and securely fastened to the PCB. 3. Check the divider switch whether normally operate. 4. Check the resistance of oven temperature sensor connector on PCB. (Normal : 2850Ω)

4. Troubleshooting

Failure Display Codes

Safety error



4. Troubleshooting

Failure Display Codes

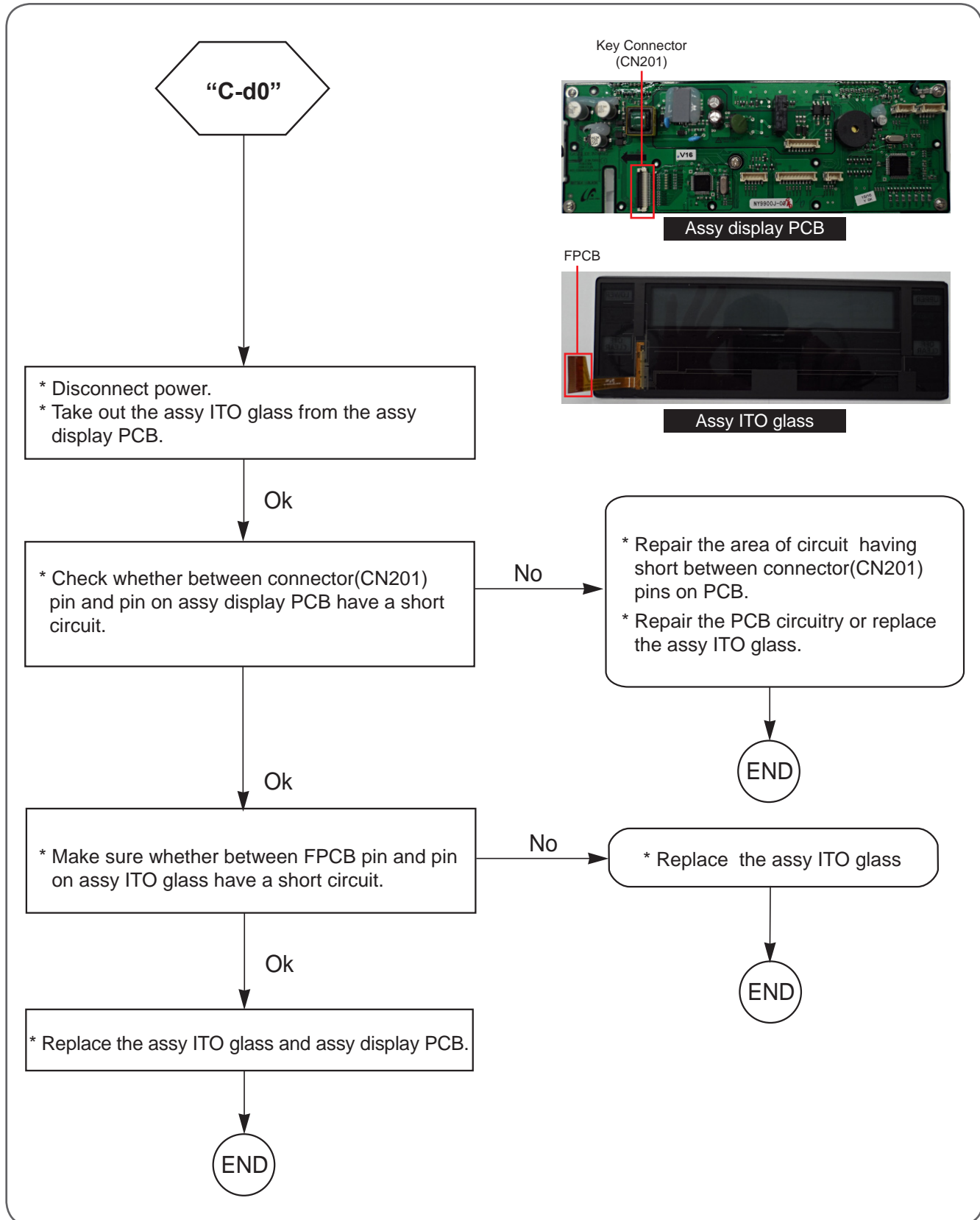
Safety Error

FAILURE CODE	CAUSE	SOLUTION
C-d0	Shorted Key (Key pad is pressed for 1 minutes.)	<ol style="list-style-type: none"> 1. Check the assy ITO glass FPCB to make sure it is properly connected with PCB. 2. Disconnect the assy ITO glass FPCB . Check the FPCB and PCB for short circuits. 3. If there is no problem with connector on main PCB and membrane harness, replace the PCB.
C-d1	Door locking error (Door lock in wrong position after 1 minute.)	<ol style="list-style-type: none"> 1. Disconnect electrical power to the range. Remove the rear cover panel. Make sure the wiring harness is properly connected to the motorized door lock assembly. 2. Check motorized door lock assembly for proper operating resistance. 3. With operating door lockout, measure the voltage of connector on harness which is linked with door lock motor. (Normal : Voltage : AC 120V) 4. Check the door locking switch to make sure it is working properly.

4. Troubleshooting

Failure Display Codes

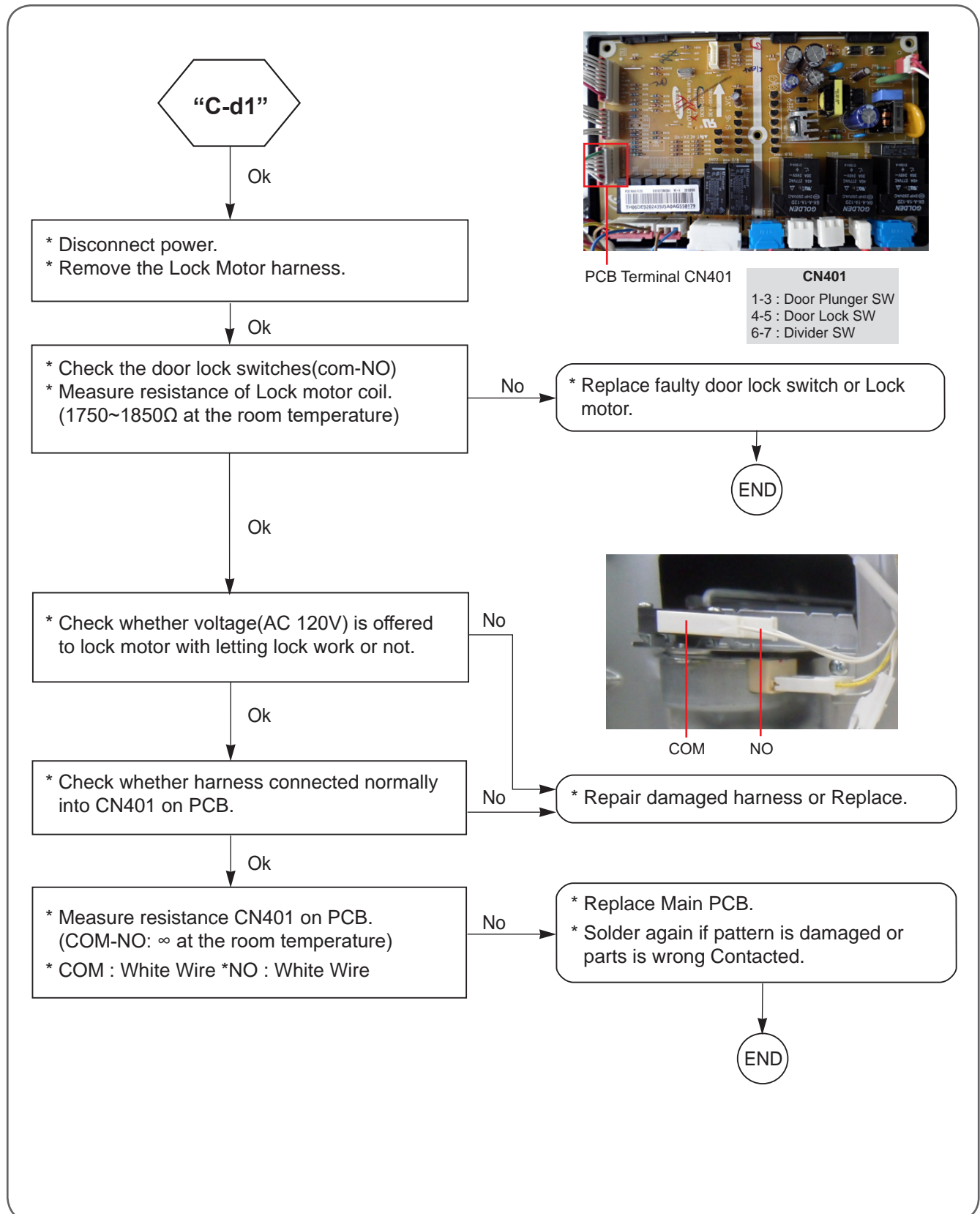
Safety error



4. Troubleshooting

Failure Display Codes

Safety error



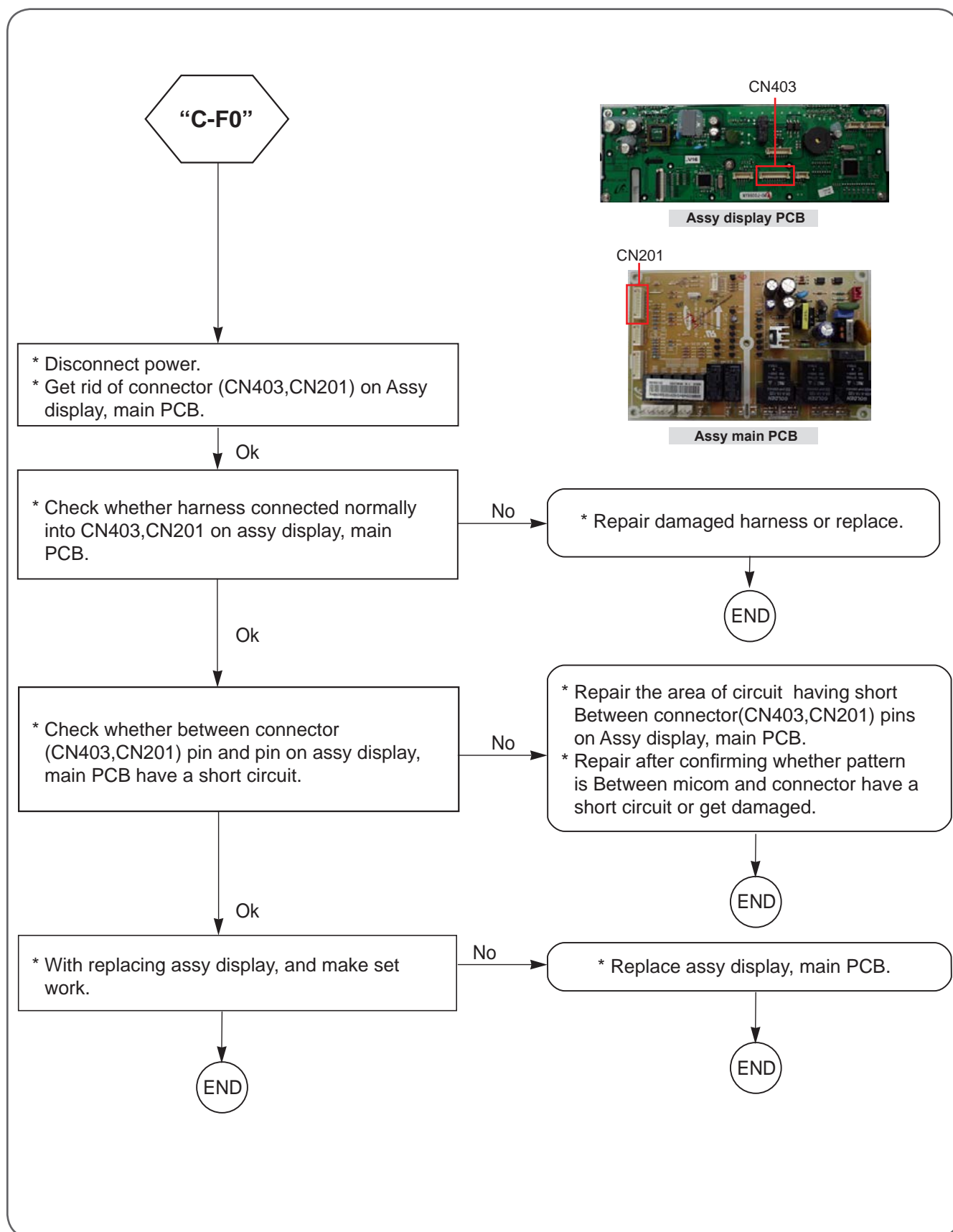
4. Troubleshooting

Failure Display Codes

Failure Code	CAUSE	Solution
C-F0	Main PCB communication error	<ol style="list-style-type: none"> 1. Disconnect electrical power to the range. Remove the rear cover panel. Make sure the wiring harness is properly connected (CN201) on main PCB. 2. Remove the cook top frame. Make sure the wiring harness is properly connected (CN403) on display PCB. 3. Check the whether wire harness is open pin. 4. If there are any problems, replace the assy wire harness.
-dC-	Divider sensing information	<ol style="list-style-type: none"> 1. Insert a divider in upper, lower and twin mode or remove a divider in single mode. 2. Please check connect housing. 3. Please check divider sensing S/W.

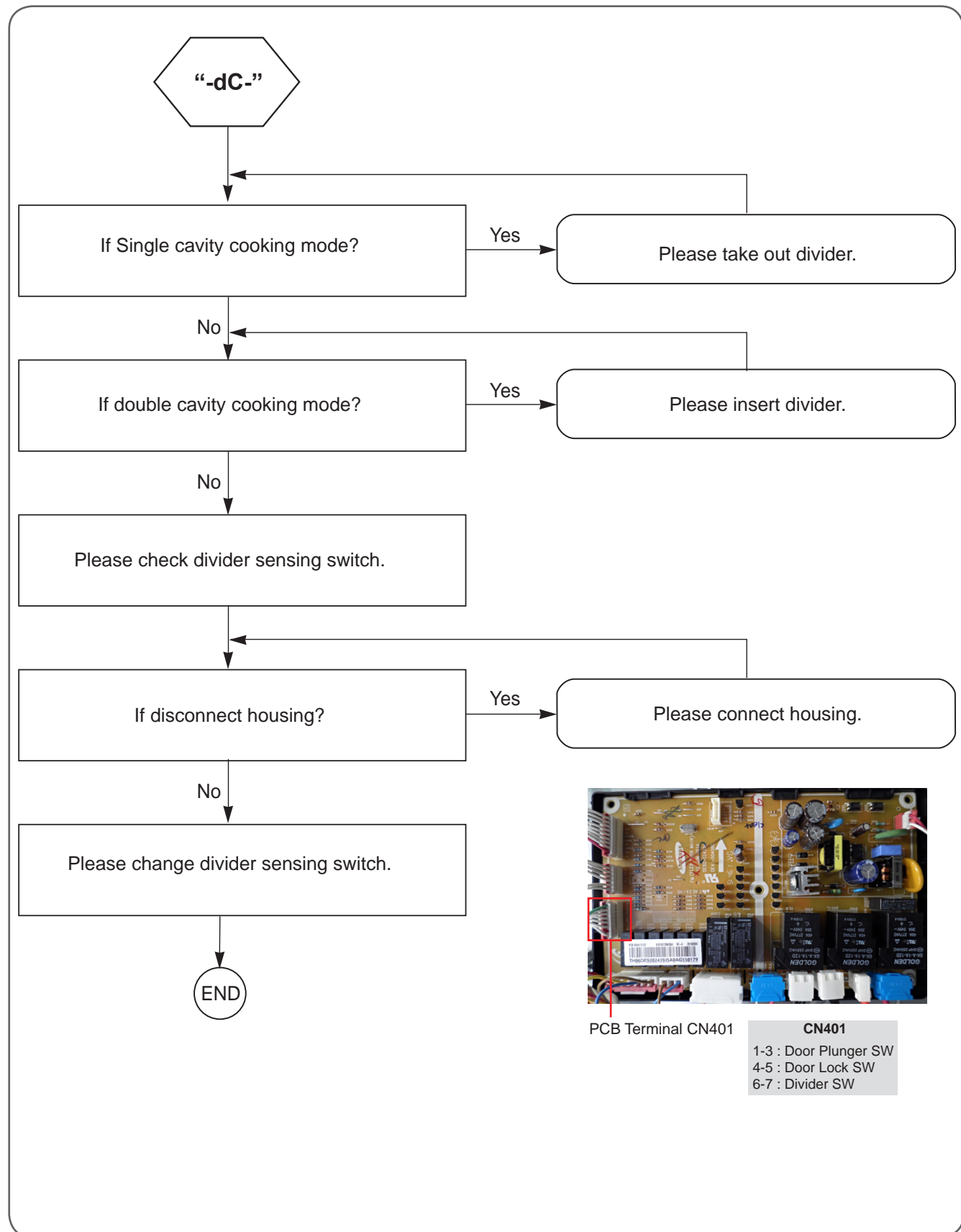
4. Troubleshooting

Failure Display Codes



4. Troubleshooting

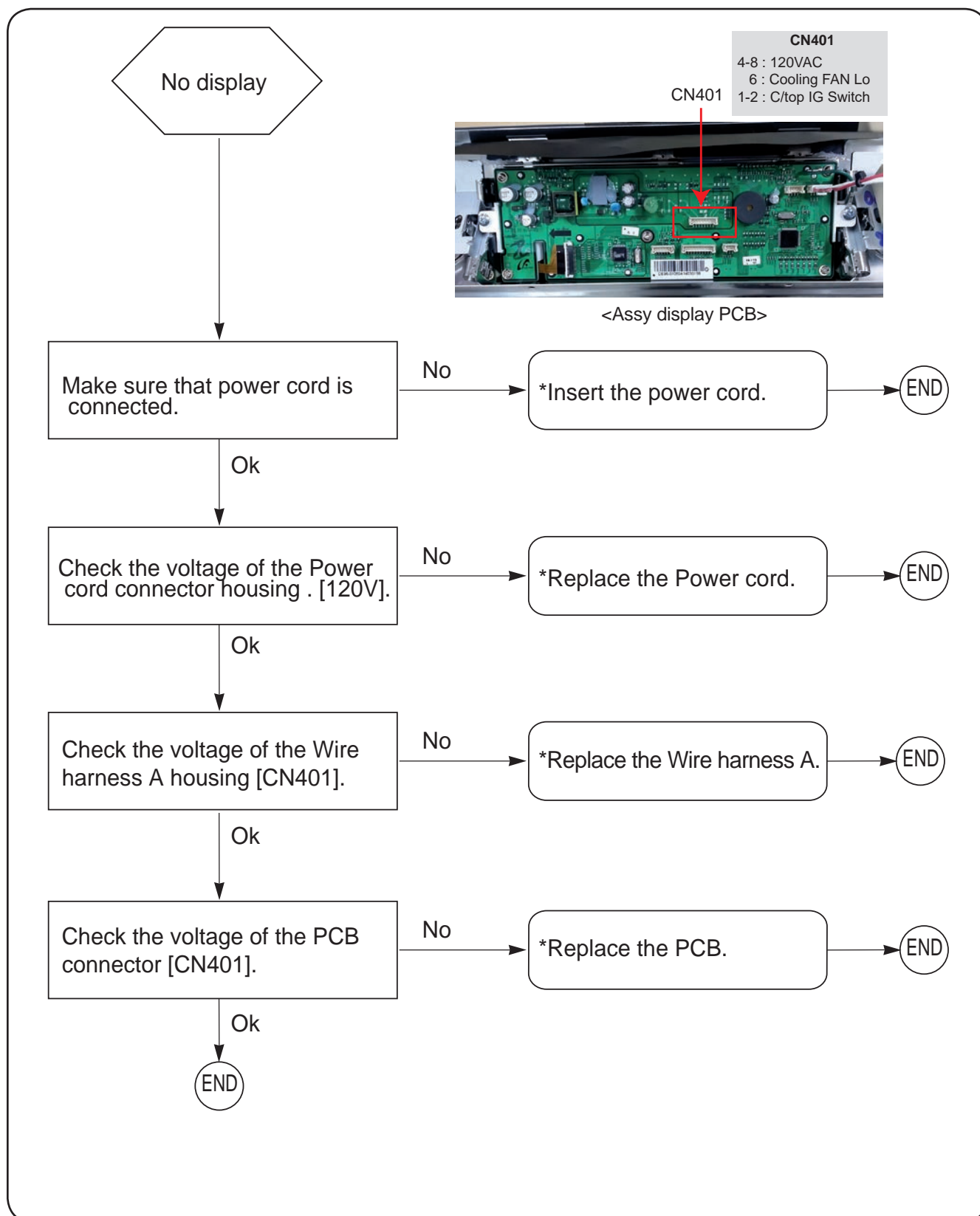
Failure Display Codes



4. Troubleshooting

4-2 Control parts

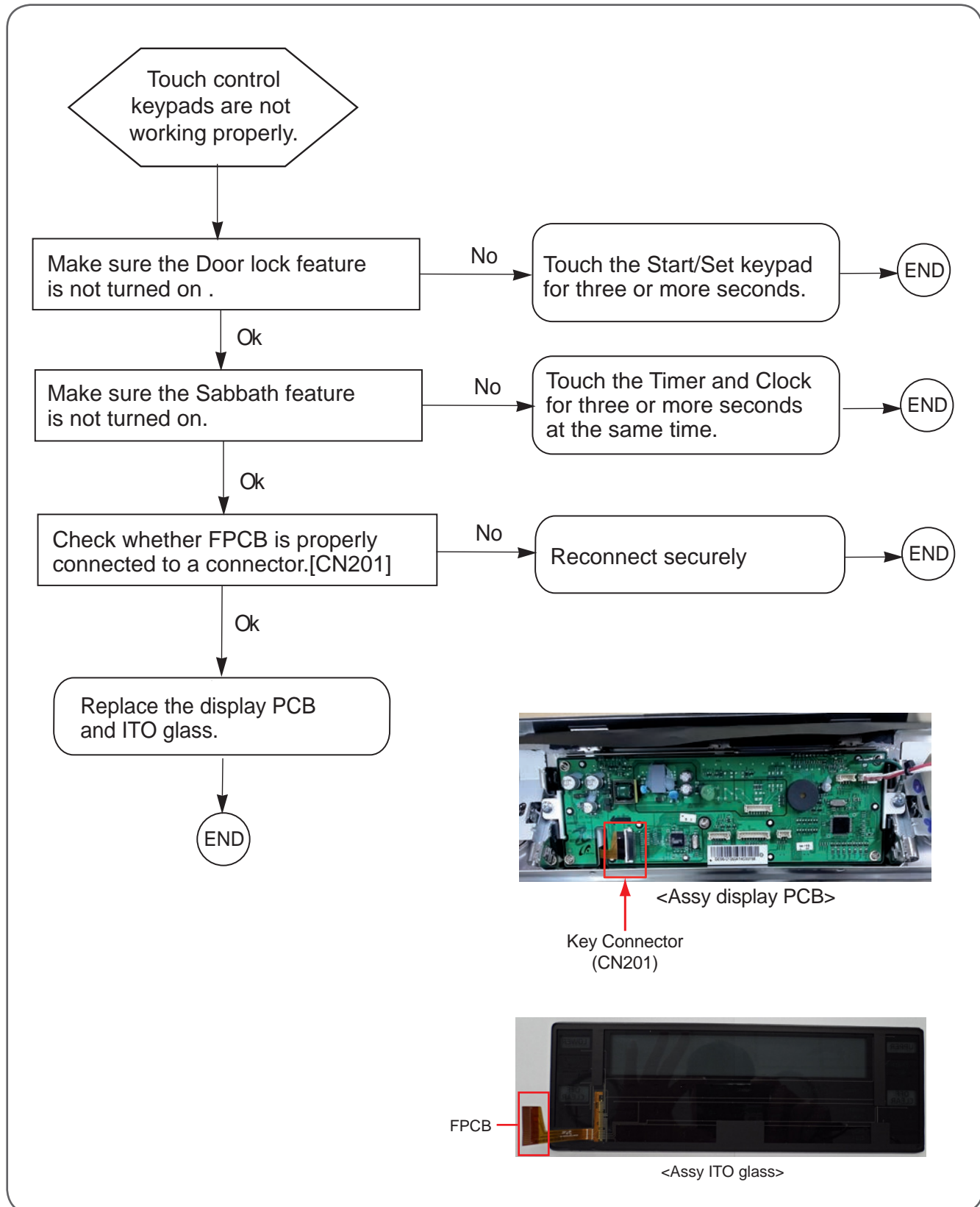
No display



4. Troubleshooting

Control parts

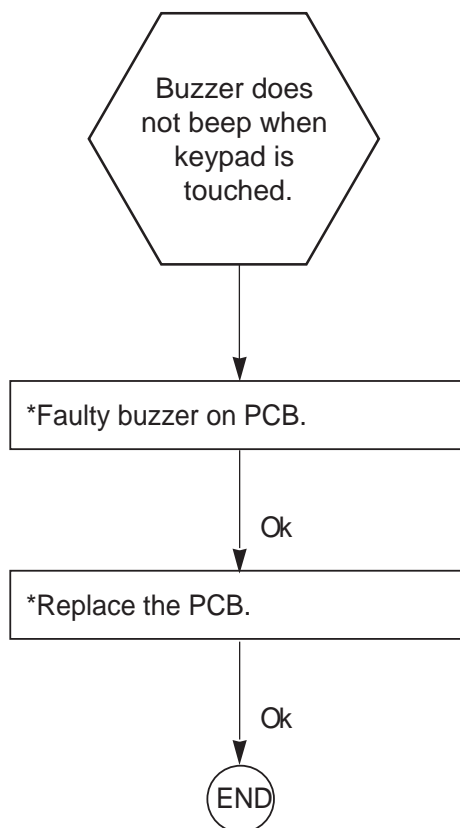
Touch Keypad is not working properly



4. Troubleshooting

Cooktop parts

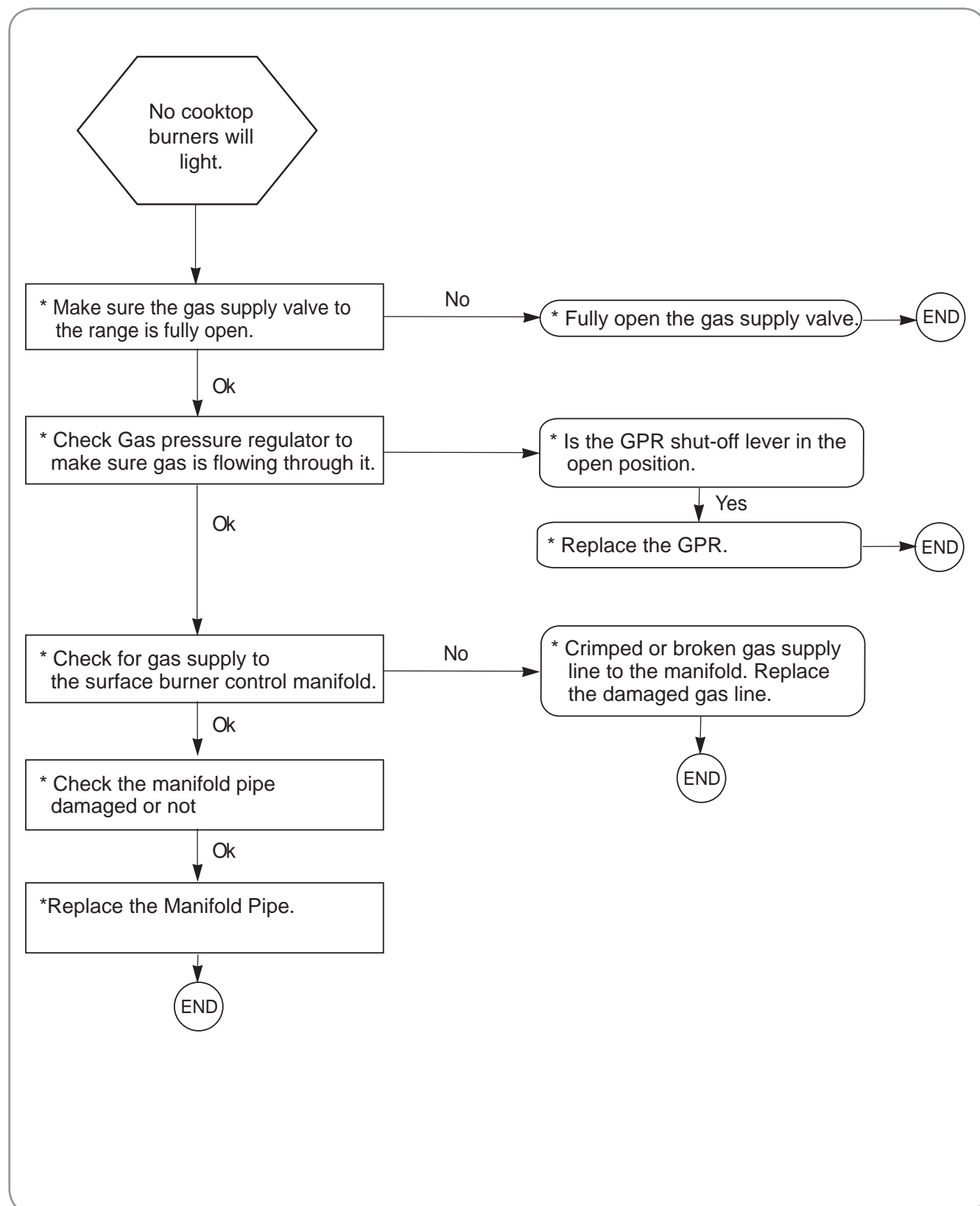
Buzzer does not beep when keypad is touched.



4. Troubleshooting

Cooktop parts

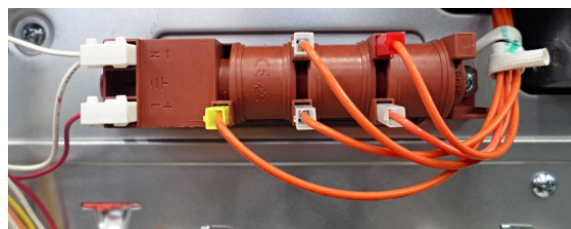
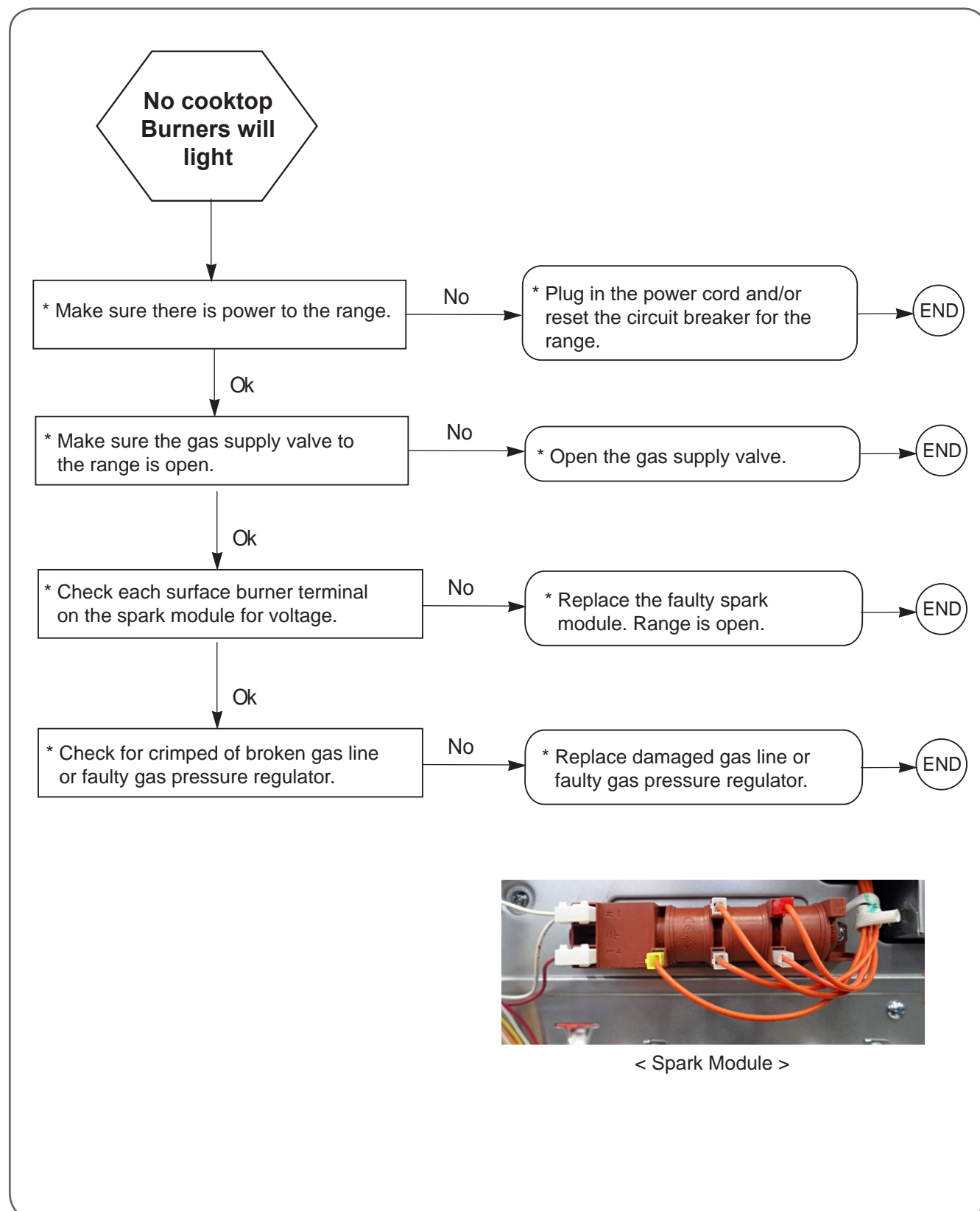
Cooktop burner not lighted [Gas malfunction]



4. Troubleshooting

Cooktop parts

Cooktop burners not lighted [Electric malfunction]

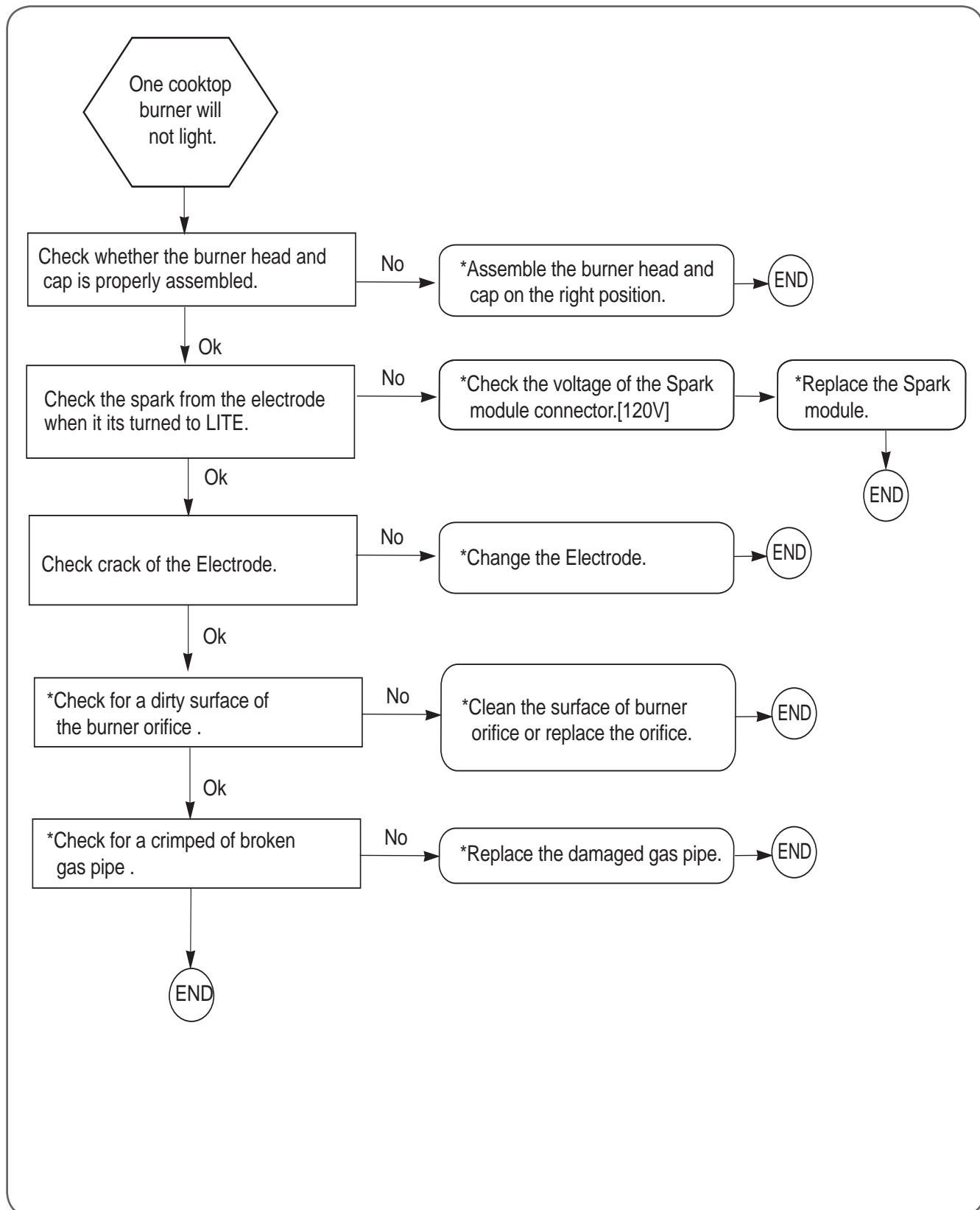


< Spark Module >

4. Troubleshooting

Cooktop parts

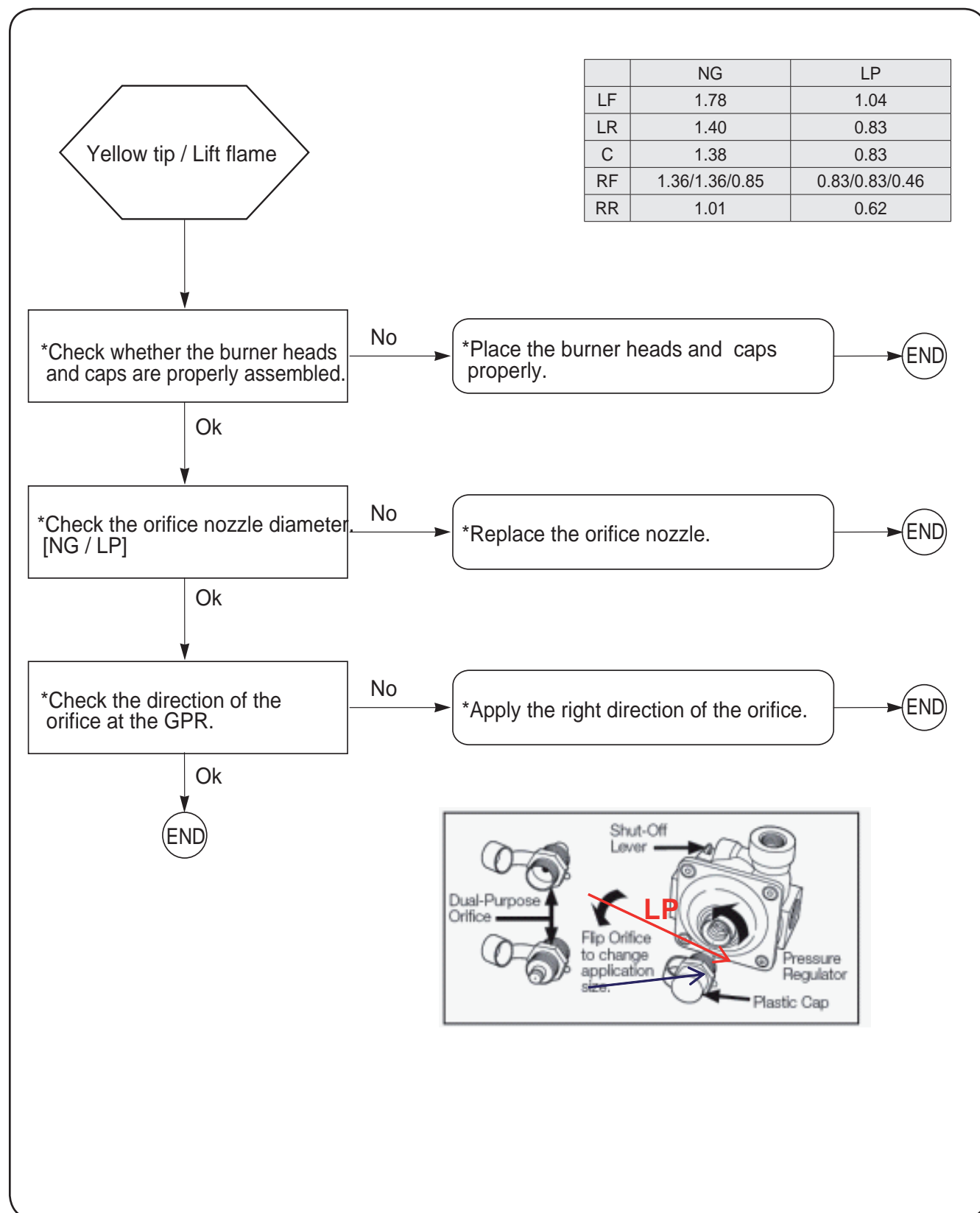
One cooktop burner not lighted [Electric malfunction]



4. Troubleshooting

Cooktop / Oven parts

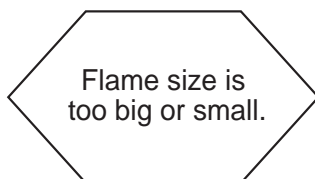
The flame looks abnormal. [Yellow tip / Lift flame]



4. Troubleshooting

Cooktop parts

Flame size is too big or too small



	NG	LP
LF	1.78	1.04
LR	1.40	0.83
C	1.38	0.83
RF	1.36/1.36/0.85	0.83/0.83/0.46
RR	1.01	0.62

*Check the orifice nozzle diameter.

No

*Replace the orifice nozzle.

END

Ok

*Check the orifice direction at GPR.

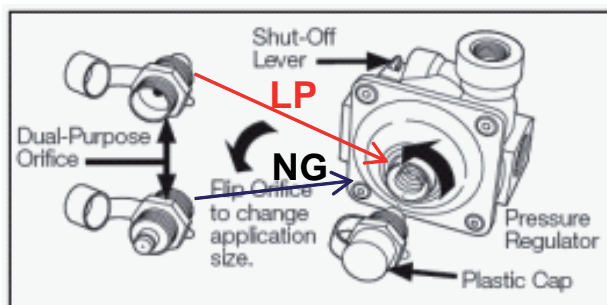
No

*Reverse the direction of the orifice.
[Upside down]

END

Ok

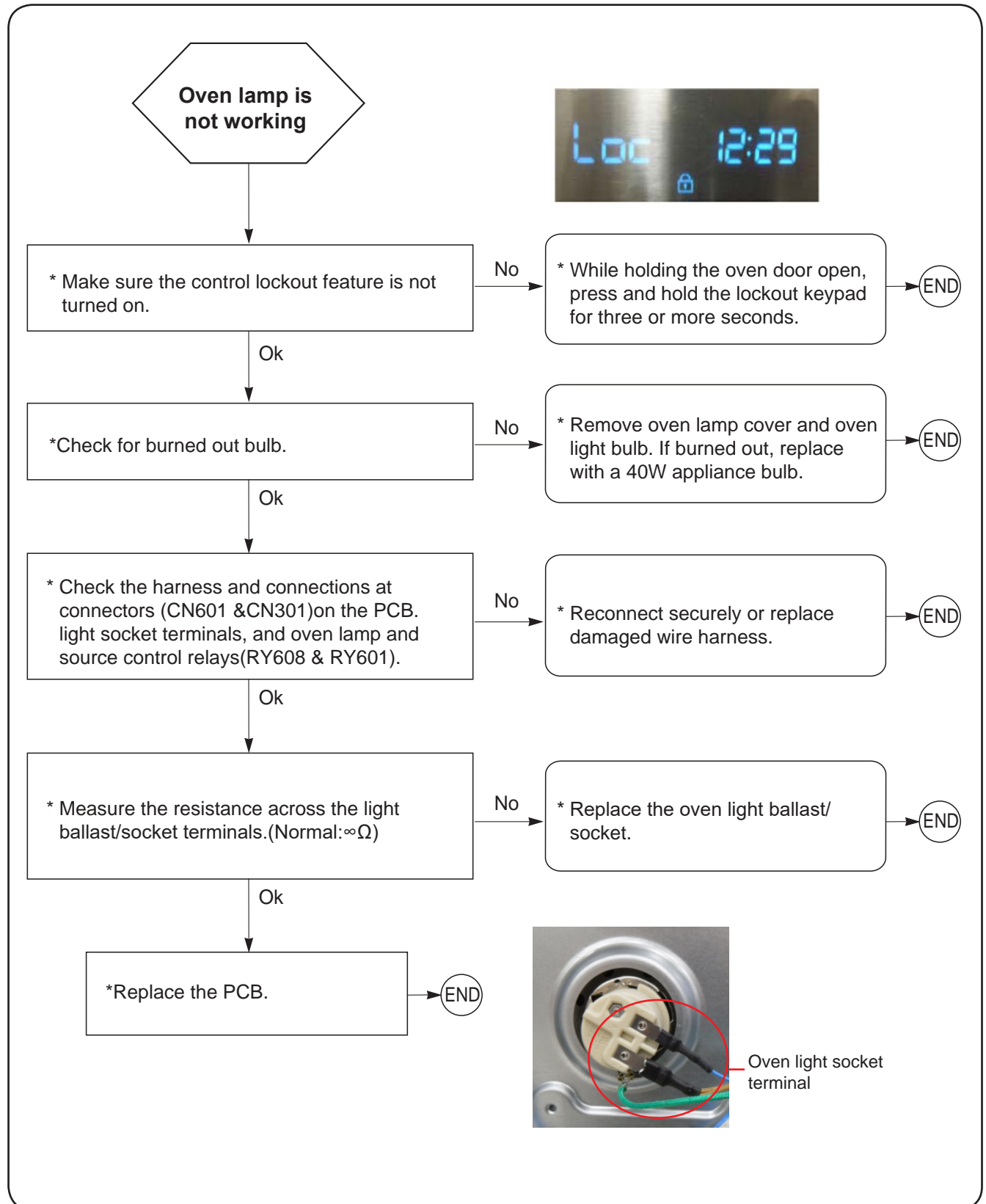
END



4. Troubleshooting

4-3 Oven parts

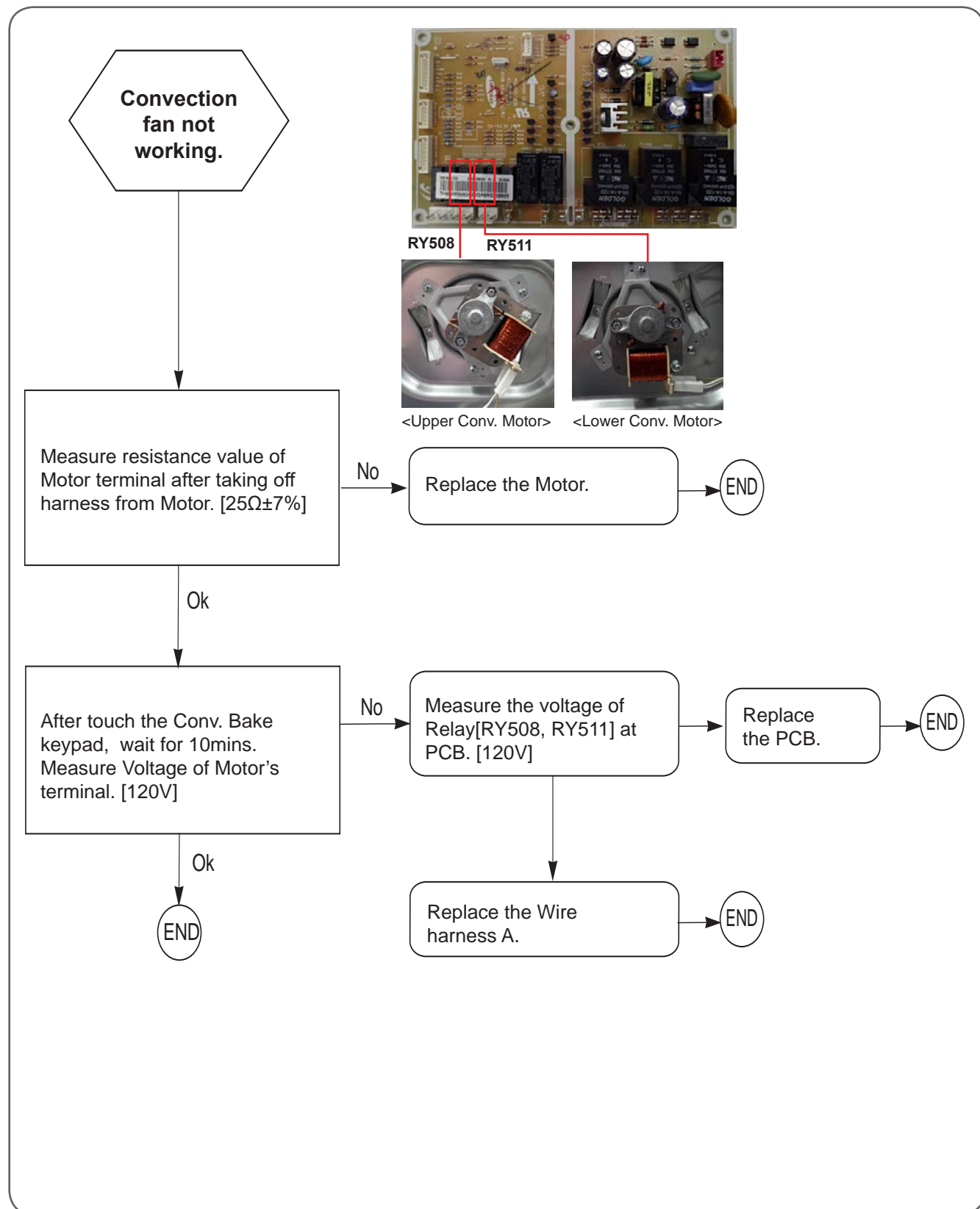
Oven lamp not working



4. Troubleshooting

Oven parts

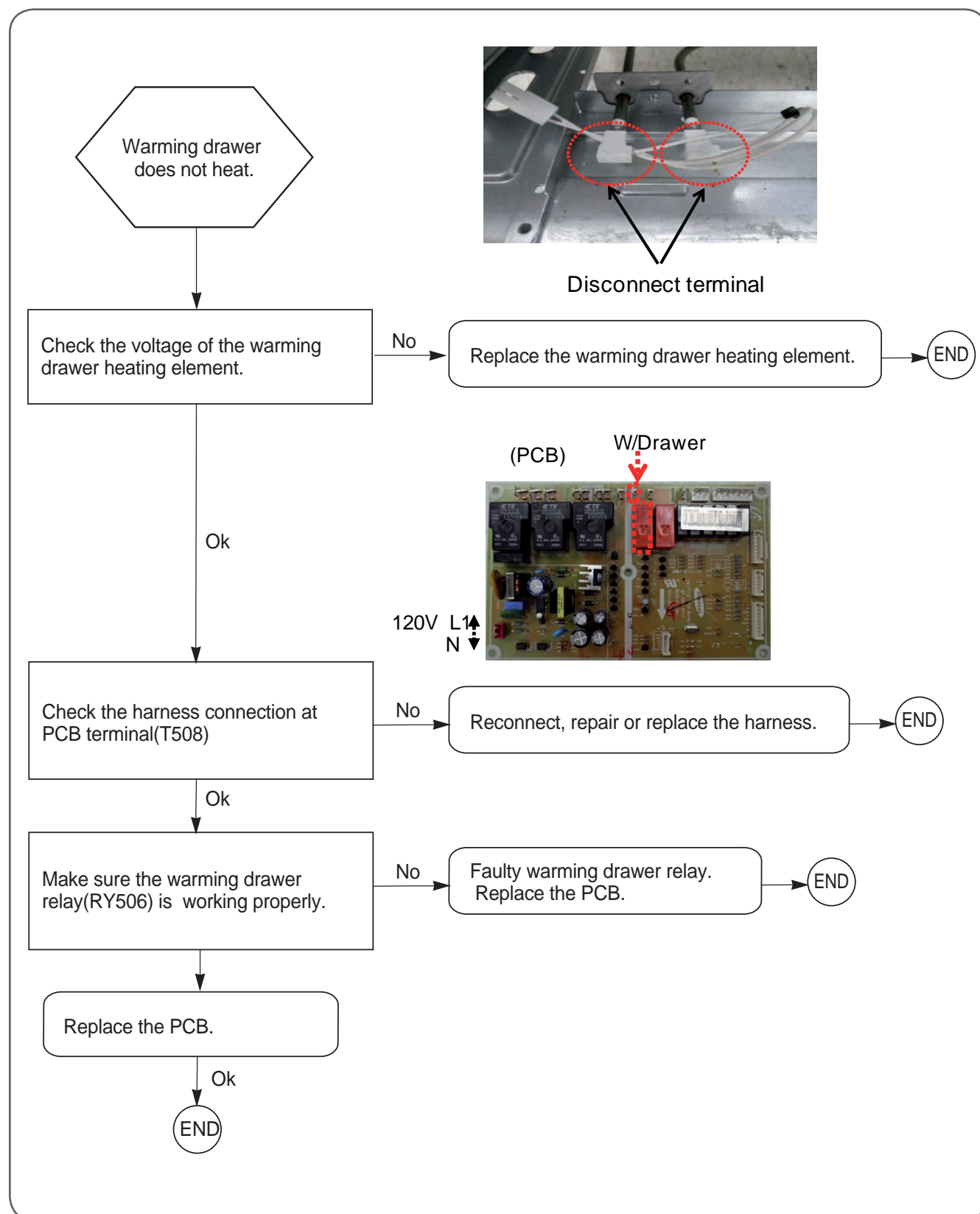
Convection fan not working



4. Troubleshooting

4-4 Warming drawer parts

Warming drawer not heating

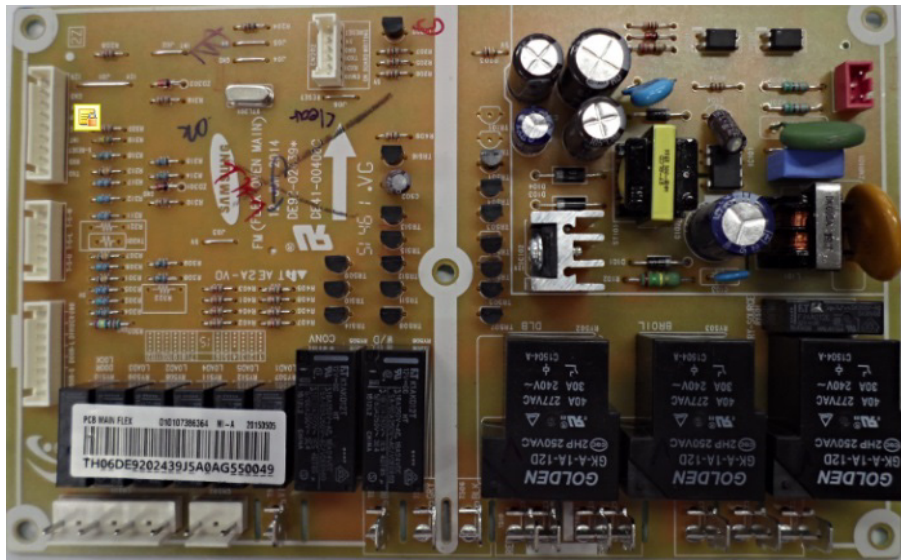


5. PCB Diagrams

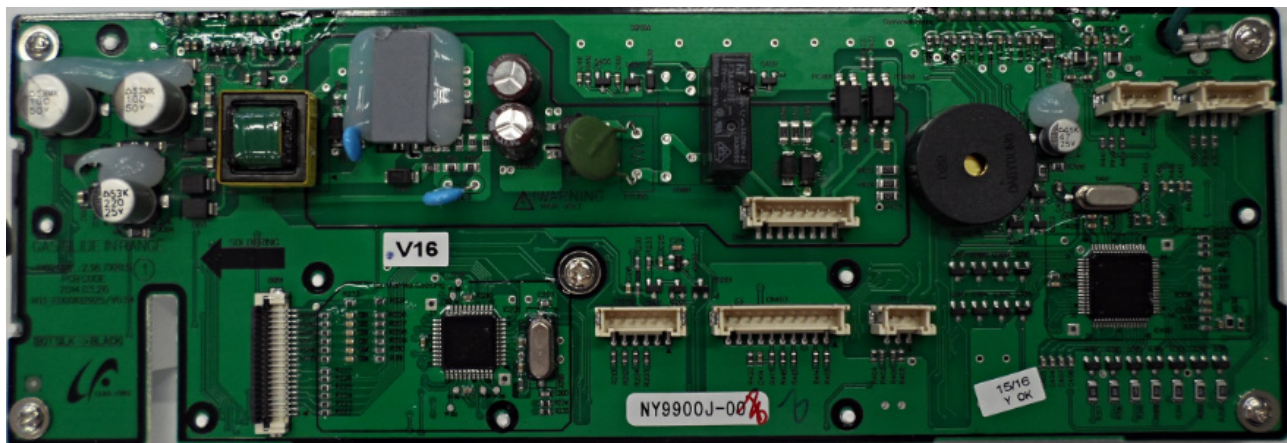
5-1 Figure of PCB and Membrane

(This document cannot be used without Samsung's authorization.)

■ PCB Main



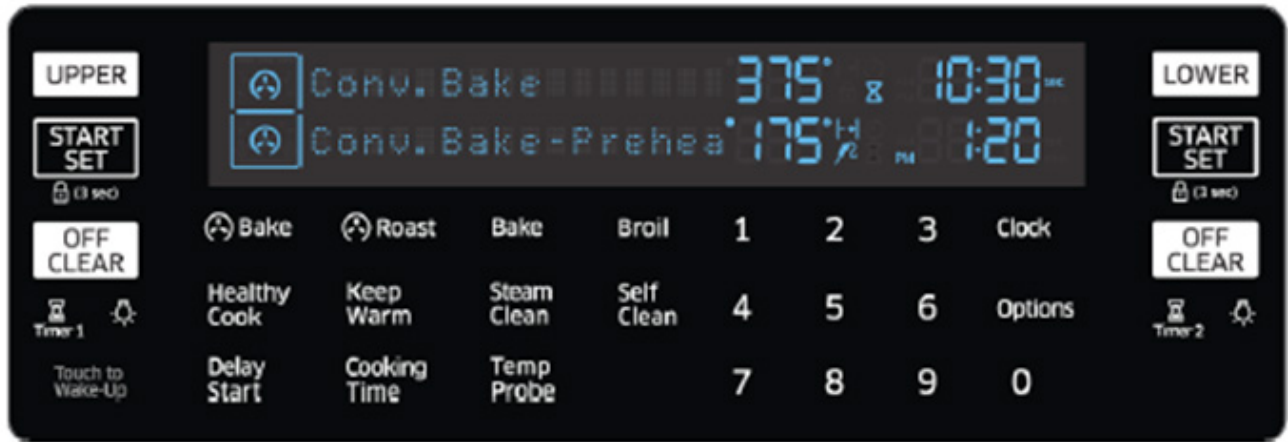
■ Assy Display



5. PCB Diagrams

5-2 Explanation of Membrane Keypad

(This document cannot be used without Samsung's authorization.)



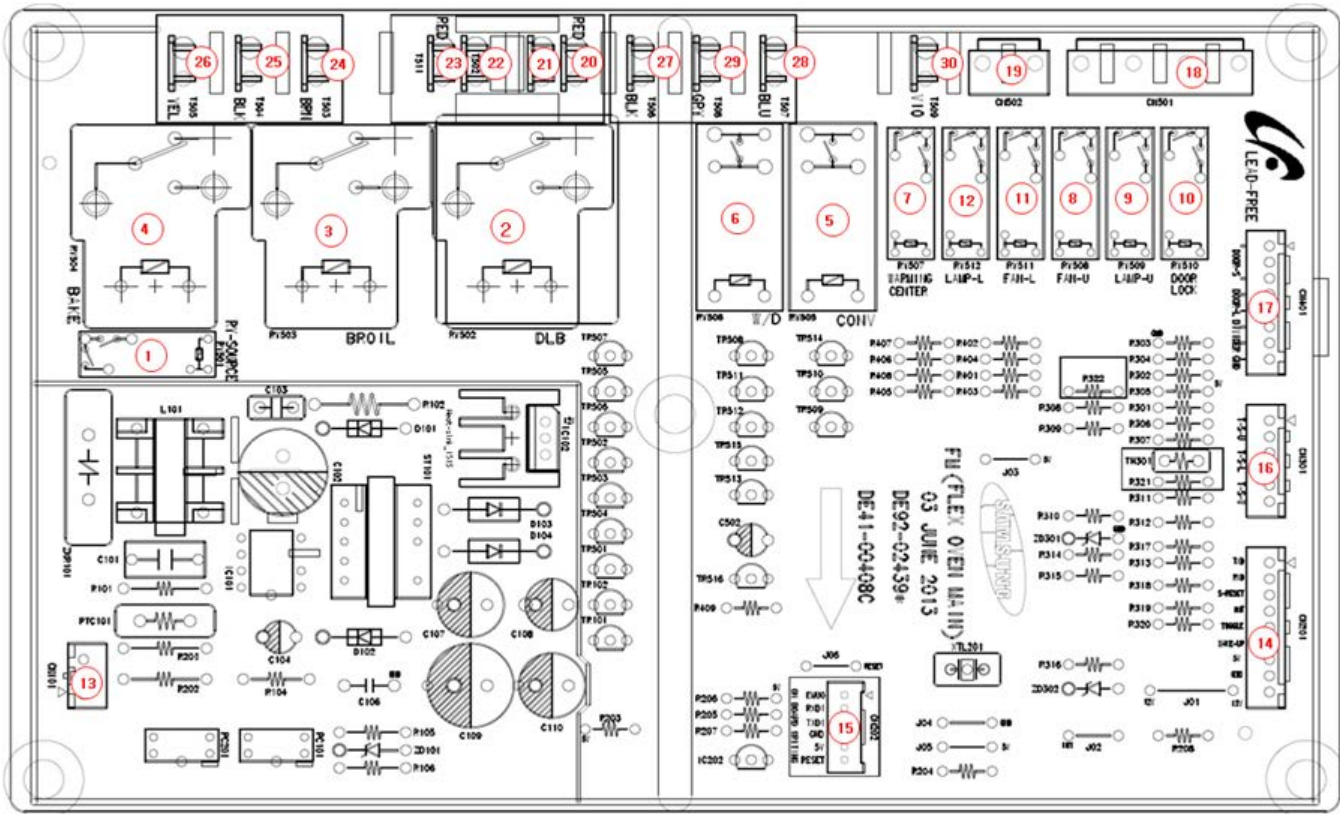
NY58J9850WS Touch Keypad

1. Touch control panel allows user to operate the oven, oven light, warming drawer and Convection heater, and clock and timer operation by touching the control panel in the front.
2. The marking on the front of touch glass acts as a guide for where the panel should be touched to select and program that function.
If touch control stops working, replace the Control panel.
3. Touch glass tail connects the Keypad to PCB.

5. PCB Diagrams

5-3 Explanation of NY58J9850WS Main PCB parts

(This document cannot be used without Samsung's authorization.)



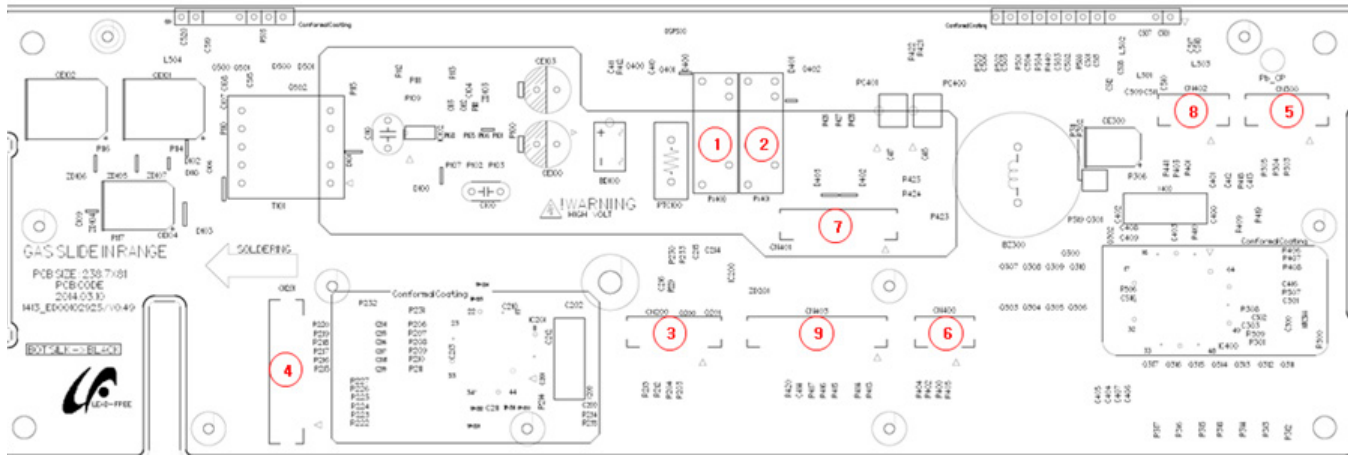
No	Parts Number	Part Name	Function and Rule
1	RY501	RY-Source Relay	This is relay which control source of DLB,BAKE,BROIL, W/Drawer relay.
2	RY502	DLB Relay	Circuit is designed to have broil relay or convection relay worked after DLB relay is being worked by Double line break. (It will not be problem with reversing the order in inserting Red)
3	RY503	Broil-Heater Relay	Broil relay(Ry503), Bake relay(Ry504), convection relay(Ry505) will be on-off working by mi-com signal after DLB relay is worked. (Broil relay : It will not be problem with reversing the order in inserting Brown) (Bake relay : It will not be problem with reversing the order in inserting Blue)
4	RY504	Bake-Heater Relay	
5	RY505	Conv-Heater Relay	
6	RY506	WD-Heater Relay	This is Relay to control Warming Drawer-Heater.
7	RY507	WC-Heater Relay	This is Relay to control Cooling motor.
8	RY508	Conv-Fan-U Relay	This is relay which is connected with Conv. Fan.
9	RY509	Conv-Lamp-U Relay	This is relay which is connected with Conv-Lamp-Upper
10	RY510	Door Lock Relay	This is relay which is connected with door lock motor.

5. PCB Diagrams

No	Parts Number	Part Name	Function and Rule
11	RY511	Oven-Fan-L Relay	This is Relay to control Cooling motor.
12	RY512	Oven-Lamp-L Relay	This is Relay to control Cooling motor.
13	CN101	Power Connector	This is to supply power with SMPS.
14	CN201	Sub Communication Connector	This is connector which is connected with Sub PCB to communicate.
15	CN202	MICOM Writing Connector	This is connector is for writing MICOM
16	CN301	Oven Sensing Connector	This connector which is connected with oven sensor.
17	CN401	Door Lock, Divider Connector	This is connector which is connected with Door plunger switch and Door lock switch, divider switch.
18	CN501	Relay Connector	This connector which have Door lock motor, Lamp, Convection fan, Cooling motor connected.
19	CN502	Relay Connector	This connector which have lower lamp and relay of lower convection fan connected
20	T510	DLB Terminal	This is terminal to connect harness with DLB relay.
21	T501		
22	T502		
23	T511		
24	T503	Broil Terminal	This is terminal to connect harness with Broil relay.
25	T504		
26	T505	Bake Terminal	This is terminal to connect harness with Bake relay.
27	T506	Convection-Heater Terminal	This is terminal to connect harness with convection-heater relay.
28	T507		
29	T508	WD-Heater Terminal	This is terminal to connect harness with relay to get heater on warming drawer work.
30	T509	WC-Heater Terminal	This is terminal to connect harness with relay to get cooling motor work.

5. PCB Diagrams

5-4 Explanation of NY58J9850WS Display PCB parts



No	Parts Number	Part Name	Function and Rule
1	RY400	Option Relay	Reserved
2	RY401	Cooling Motor Relay	This is Relay to control Cooling Motor
3	CN200	Touch IC Writing Connector	This is connector for writing Touch IC
4	CN201	Touch Glass Connector	This connector is connected with Touch Glass
5	CN300	Rotary Switch Connector	This connector is connected with Rotary switch
6	CN400	Option Connector	This is connector for model option
7	CN401	VFD Power, Cooling Motor Relay, Cook-top Sensing Connector	This connector is connected with Cooling Motor, Cooktop sensing parts and power of VFD SMPS.
8	CN402	MICOM Writing Connector	This is connector for writing MICOM
9	CN403	Main Communication Connector	This connector is connected with Main PCB to communicate.

6. Wiring Diagram

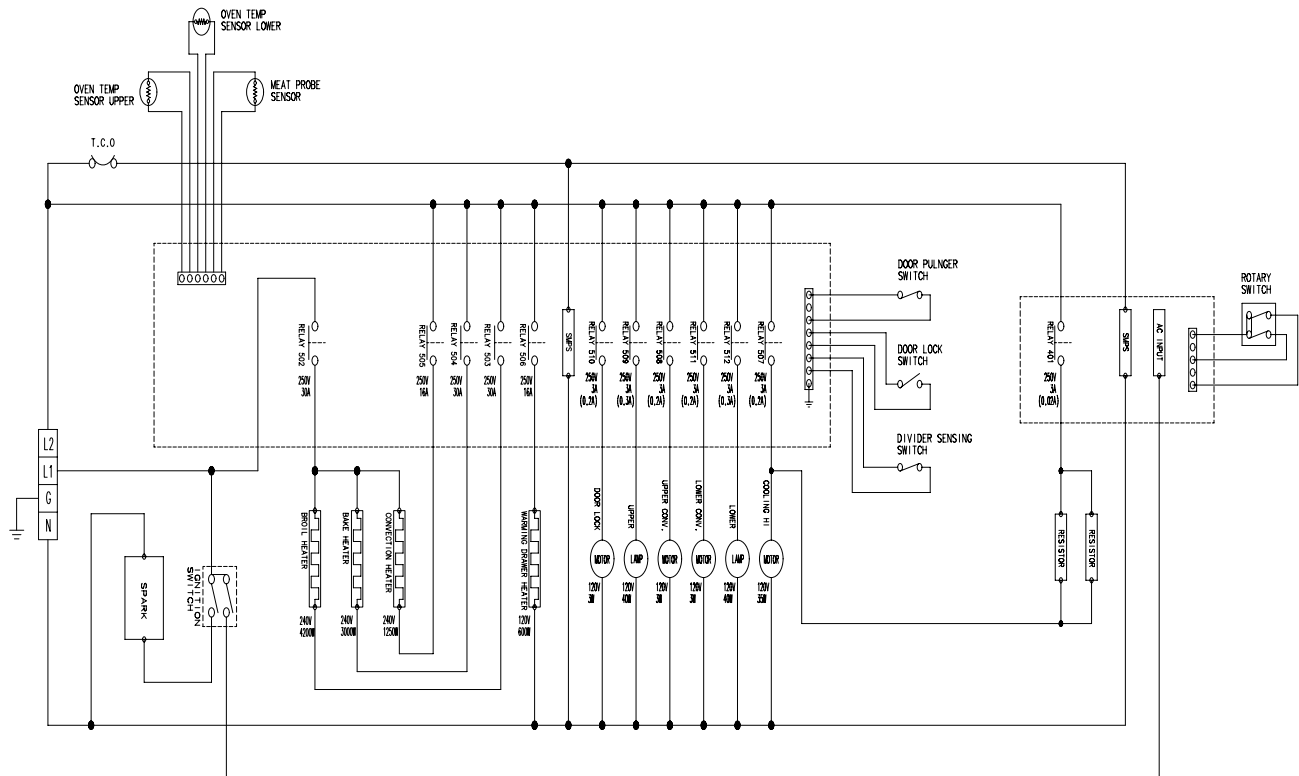
6-1 Wiring Diagram

30" DUAL FUEL

(NY9900J - NY58J9750WS)

NOTE

- 1) INPUT POWER : AC240V 60Hz , 6200W
- 2) OVEN DOOR OPENED AND UNLOCKED



04.04.2015 J.H PARK

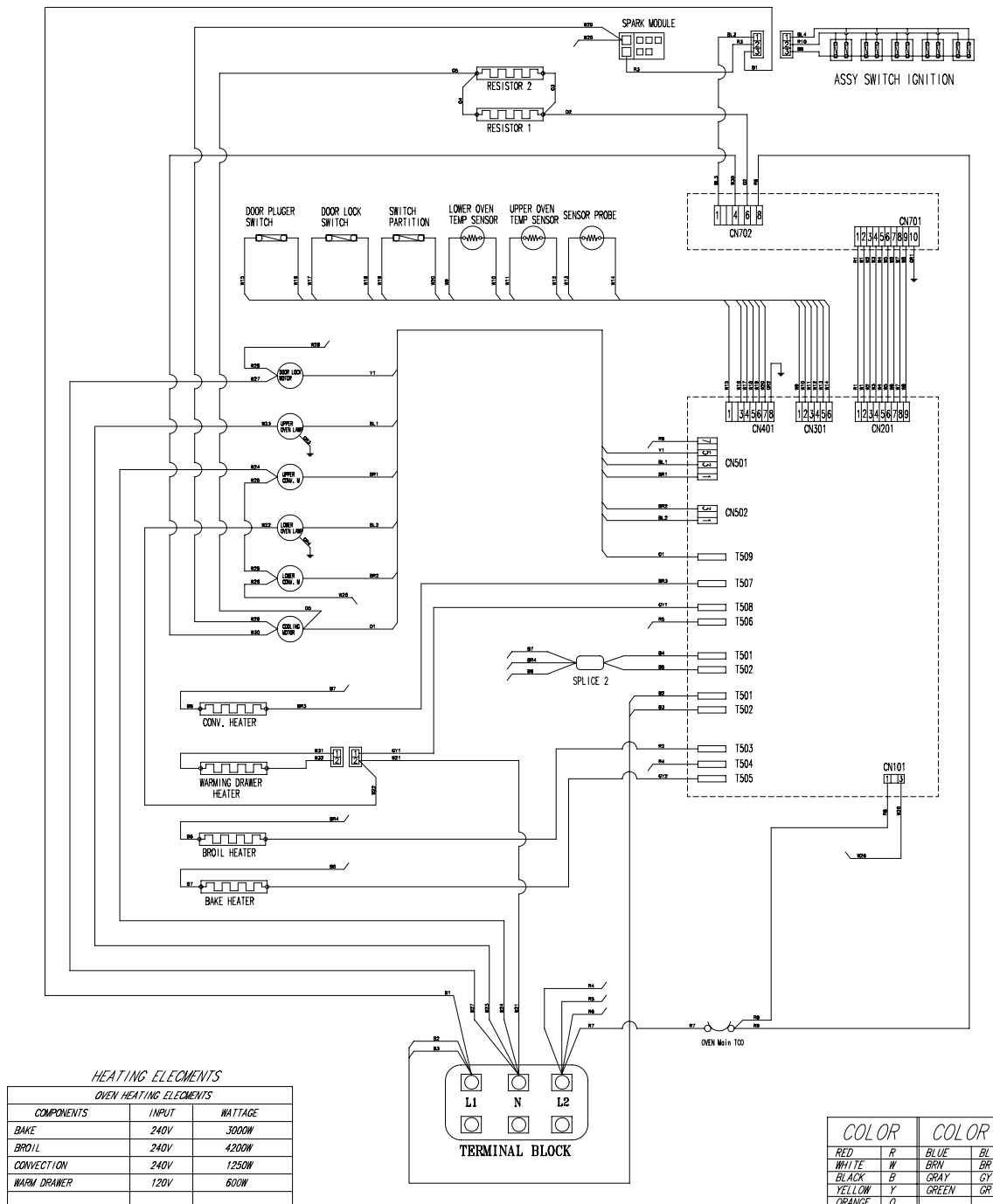
6. Wiring Diagram

6-1 Wiring Diagram

WIRING DIAGRAM MODEL: NY58J9850WS

NOTE

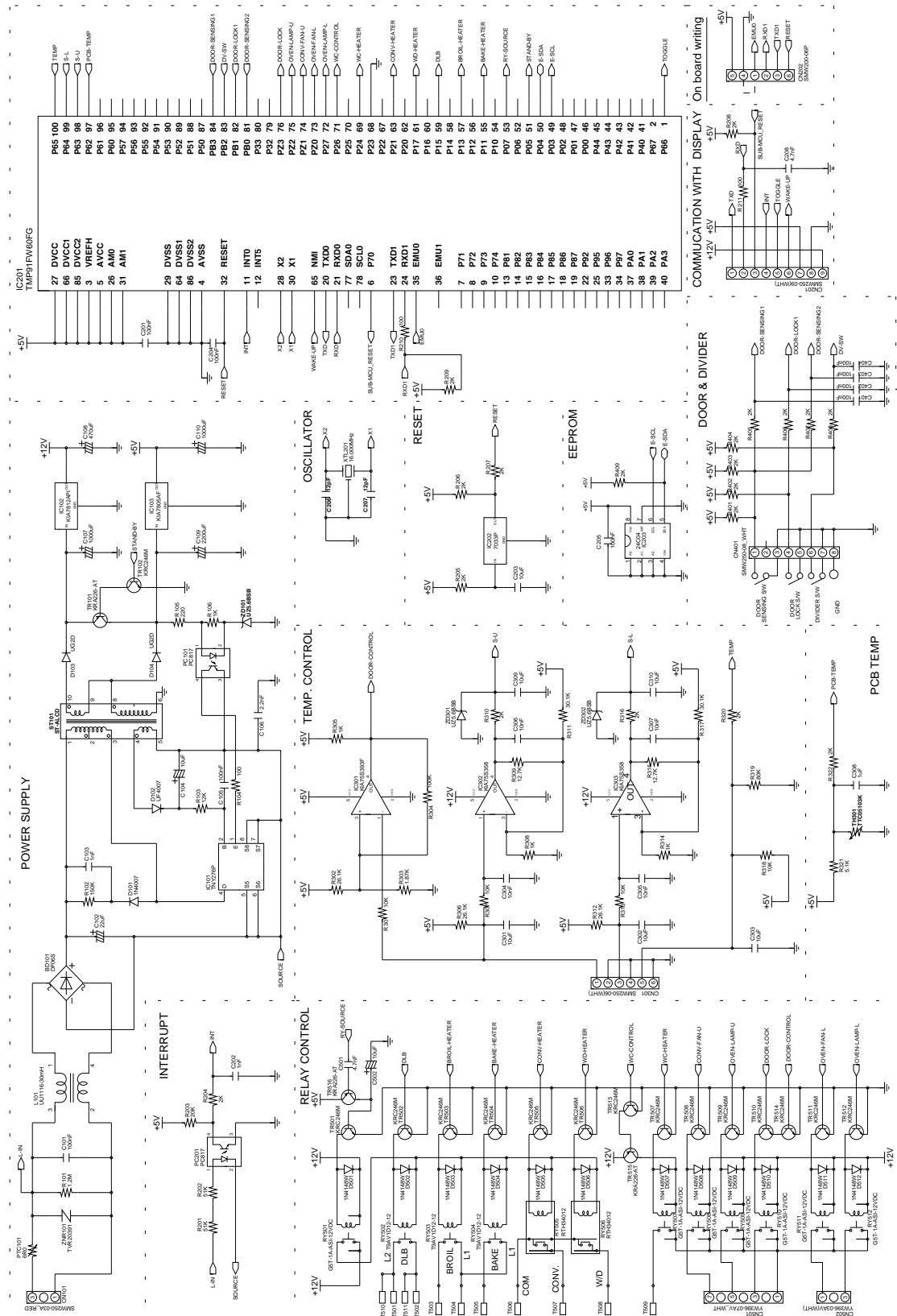
- 1) INPUT POWER : AC240V 60Hz
- 1-1) OVEN HEATER : MAX 5400W, 22.5A
- 2) OVEN DOOR OPENED AND UNLOCKED



7. Schematic Diagrams

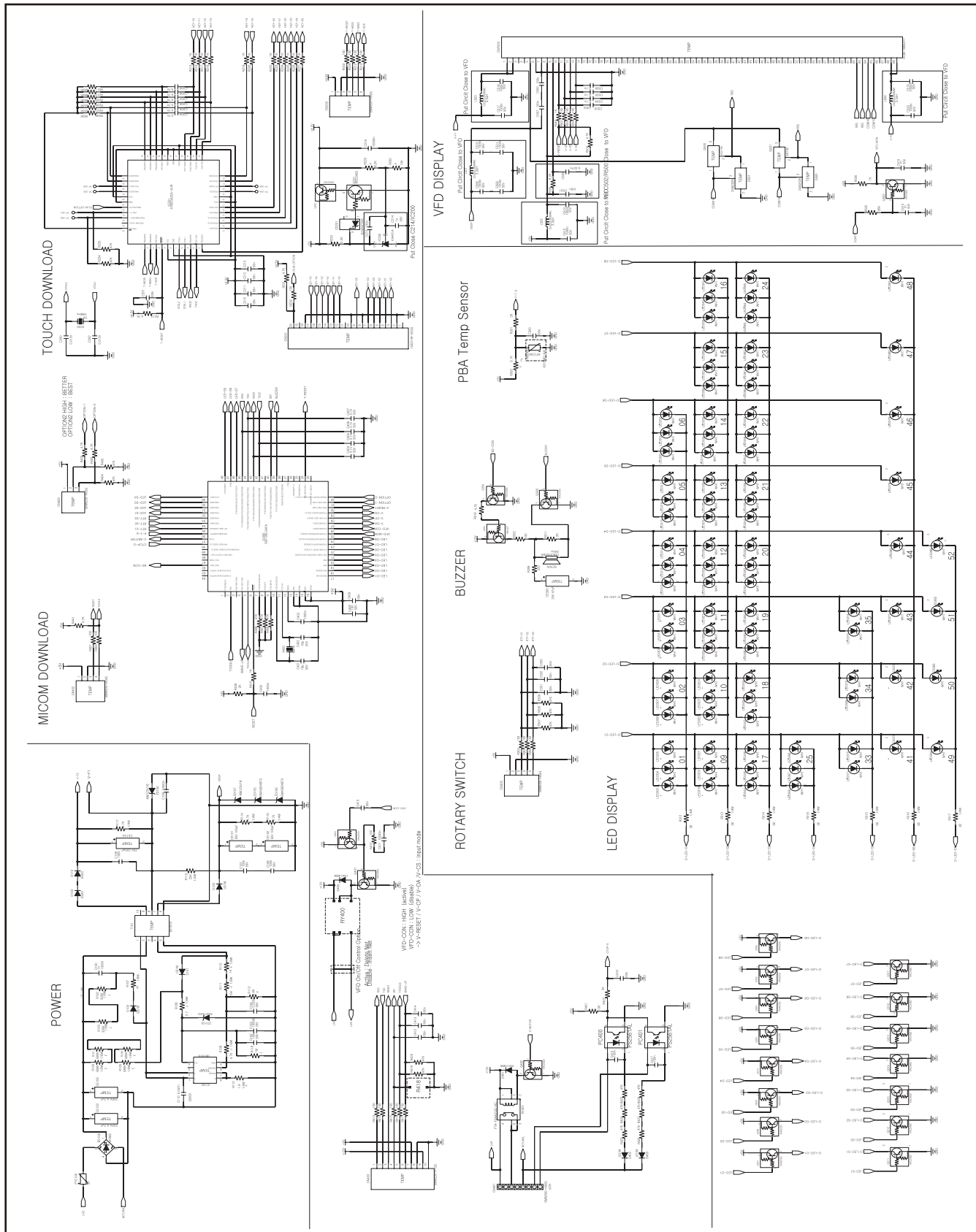
7-1 Schematic Diagram (Main PCB)

(This document cannot be used without Samsung's authorization.)



7. Schematic Diagrams

7-2 Schematic Diagram (ASSY Display PCB)



8. Reference

8-1 Checkpoints before service request

SYMPTOM	DIAGNOSIS	REMEDY
Oven is not operated (No power, No display)	<ul style="list-style-type: none"> Measure an input voltage. (L1-N, L2-N : 120V, L1-L2 : 240V) Measure an input voltage of power cord housing. 	<ul style="list-style-type: none"> Check circuit breaker. Make sure that the state of wire is connected with power cord housing.
	<ul style="list-style-type: none"> Measure voltage of connector(CN101) on main PCB L1~N : 120V 	<ul style="list-style-type: none"> Replace or repair if harness is loosen or disconnected.
	<ul style="list-style-type: none"> Make sure that the relay on main PCB is properly worked. 	<ul style="list-style-type: none"> Check the harness is inserted into the relay on sub PCB. Replace or repair harness. Replace main PCB.
	<ul style="list-style-type: none"> Measure voltage regulator(IC102) on main PCB. - IC102 : 7812A(DC 12V) Measure voltage regulator(IC103) on main PCB. - IC103 : 7805A(DC 5V) 	<ul style="list-style-type: none"> Replace or repair harness. Replace or repair main PCB.
	<ul style="list-style-type: none"> Check whether valve of gas line is opened. 	<ul style="list-style-type: none"> Make sure that valve is opened.
Cooktop is not worked (Ignition fault)	<ul style="list-style-type: none"> Check whether ignition spark is generated from the electrode. 	<ul style="list-style-type: none"> Make sure that terminal of electrode is connected to the spark module. Replace the electrode. (in case of broken electrode or cut-off wire) Replace the spark module.
Oven temperature is risen slowly	<ul style="list-style-type: none"> Make sure whether harness is connected with Broil, Bake and convection heater has been loosen or disconnected. 	<ul style="list-style-type: none"> Repair and replace harness.
	<ul style="list-style-type: none"> Make sure whether Broil, Bake, and convection heater has been disconnected. 	<ul style="list-style-type: none"> After taking out terminal from each heater, measure resistance of heater and then replace that if it is not a normal resistance value.
	<ul style="list-style-type: none"> Make sure that heater relay and pattern on assy display. 	<ul style="list-style-type: none"> Replace or repair relay. Replace or repair assy display.
Oven temperature is risen fast	<ul style="list-style-type: none"> Check whether harness has been misconnected or have a short circuit. 	<ul style="list-style-type: none"> Replace or repair harness.
	<ul style="list-style-type: none"> Measure resistance values of each heater are within a normal extent or not. 	<ul style="list-style-type: none"> Replace heater is in a abnormal state.
The self-cleaning feature will not operate when warming drawer is on.	<ul style="list-style-type: none"> This is in normal state. 	<ul style="list-style-type: none"> The self-cleaning feature will not operate when warming drawer is on.

8. Reference

Checkpoints before service request (Continued)

SYMPTOM	DIAGNOSIS	REMEDY
Keypad is not properly worked	<ul style="list-style-type: none"> Make sure that keypad cable on Display PCB is in normal state. 	<ul style="list-style-type: none"> Replace the keypad in case that it is loosen or disconnected.
	<ul style="list-style-type: none"> Make sure connector (CN201) on Display PCB or PCB pattern. 	<ul style="list-style-type: none"> Replace or repair the keypad in case cable is loosen or disconnected.
Warming drawer is not worked	<ul style="list-style-type: none"> Check a relay(RY506) and a terminal(T508) at warming drawer. 	<ul style="list-style-type: none"> Replace the terminal(T508) or relay (RY506). Replace a main PCB.
	<ul style="list-style-type: none"> Measure whether resistance of warming drawer heater is in normal extent or not. 	<ul style="list-style-type: none"> Replace a warming drawer heater.
Oven lamp is not worked	<ul style="list-style-type: none"> Check the oven lamp's relay and connector (CN501). 	<ul style="list-style-type: none"> Replace or repair if the harness is loosen or disconnected. Replace oven relay(RY509). Replace main PCB.
	<ul style="list-style-type: none"> Measure the resistance of both ends of lamp terminal. 	<ul style="list-style-type: none"> Replace lamp if it is disconnected. (120V / 40W)
Smell or smoke is occurred during the very first operation.	<ul style="list-style-type: none"> This is in normal state. 	<ul style="list-style-type: none"> Smell or smoke from the burning dirt in the oven might be generated at the very first operation.
LED display is a little dim or dark, so it makes uncomfortable to see.	<ul style="list-style-type: none"> LED display is inferior. 	<ul style="list-style-type: none"> Replace or repair Display PCB.
There is no buzzer beep sound while keypad is being touched.	<ul style="list-style-type: none"> Check the state of buzzer on main PCB and whether PCB pattern has a short circuit or has been open. 	<ul style="list-style-type: none"> Replace or repair Display PCB.
Cooktop flame with LP is extraordinary short.	<ul style="list-style-type: none"> Check the cap of regulator. 	<ul style="list-style-type: none"> Remove the cap of regulator and mount it again upside down. Replace the regulator.
Cooktop flame with LP is extraordinary long (with yellow flame)	<ul style="list-style-type: none"> Check the injector nozzle. 	<ul style="list-style-type: none"> Replace the NG injector nozzle to LP injector nozzle. (Basically LN injector nozzles are mounted at production line)
Convection fan is not rotated.	<ul style="list-style-type: none"> Check whether Convection fan relay on main PCB and connector(CN501) is in normal. 	<ul style="list-style-type: none"> Replace or repair Relay. Replace or repair connector.
	<ul style="list-style-type: none"> Make sure whether harness between Connector on main PCB and Connector (CN501) on main PCB is connected in normal. 	<ul style="list-style-type: none"> Replace or repair harness. Replace or repair connector. Replace main PCB.

8. Reference

8-2 Oven sensor resistance (Temperature vs Sensor resistance)

degree F	degree C	ohms	degree F	degree C	ohms
0	-18	932.12	113	45	1174.70
14	-10	960.90	122	50	1194.00
23	-5	980.40	212	100	1385.10
32	0	1000.00	302	150	1573.30
41	5	1019.50	392	200	1758.60
50	10	1039.00	482	250	1941.00
59	15	1058.50	572	300	2120.50
68	20	1077.90	662	350	2297.20
77	25	1097.30	752	400	2470.90
86	30	1116.70	842	450	2641.80
95	35	1136.10	932	500	2809.80
104	40	1155.40	1000	538	2935.50



GSPN (GLOBAL SERVICE PARTNER NETWORK)

Area	Web Site
Europe, CIS, Mideast & Africa	gspn1.samsungcsportal.com
Asia	gspn2.samsungcsportal.com
North & Latin America	gspn3.samsungcsportal.com
China	china.samsungportal.com