



# FREESTANDING GAS RANGES

MODELS AND  
MODEL CODES: NX58J5600SG/AA  
VERSION: VER.00, VER.01

## ***SERVICE*** *Manual*

### GAS RANGES



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2. Specifications
3. Disassembly and Reassembly
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# 1. Precautions

## 1-1 Forward

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

## 1-2 Safety Precautions

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



### WARNING

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

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

# 1. 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.

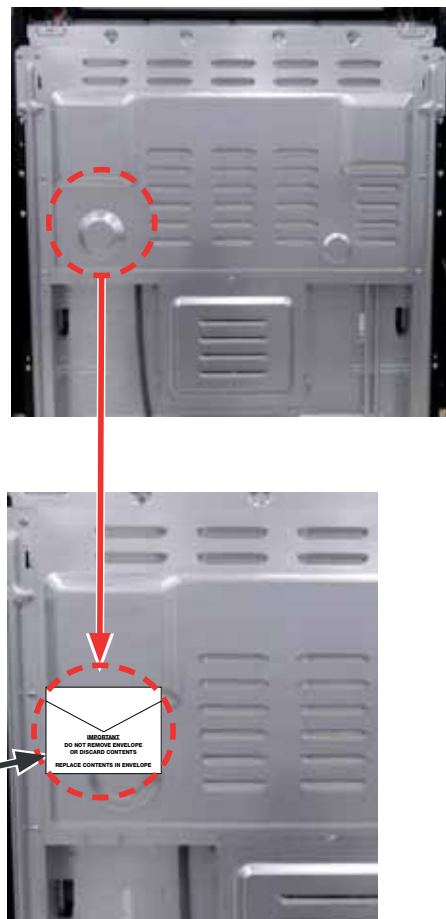
## 1-4 Model and Serial Number Label and Tech Sheet Locations

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

Model and Serial Number Location



Tech Sheet Location





## 2-1 Features

## Features

### Five Open-Port Surface Burners

- Simplest design promotes serviceability and cleanability.

## BTU Ratings

<b>NX58H5650WS</b>	<b>NG</b>	<b>LP</b>
Right-Front	18,000	14,500
Right-Rear	5,000	4,000
Center Oval	9,500	7,500
Left-Rear	9,500	7,500
Left-Front	15,000	11,500

<b>NX58H5600SS</b>	<b>NG</b>	<b>LP</b>
<b>NX58J5600SG</b>		
Right-Front	17,000	12,500
Right-Rear	5,000	4,000
Center Oval	9,500	7,500
Left-Rear	9,500	7,500
Left-Front	15,000	10,000

**Warming Drawer**  
**(NX58H5600SS, NX58J5600SG)**

- Convenient, front-Access drawer with bottom heating element. Great for reheating leftovers.

**Storage Drawer**  
(NX58H5600SS, NX58J5600SG)

- Convenient, front-access drawer for storage of cooking utensils.

### Membrane Control Panel and Digital Display

- All oven features and functions are controlled and monitored by this easy-to-use control panel.

## Full-Width, Heavy-Duty Grates

- 3-piece grates fit into cooktop Opening and completely cover the cooktop from edge to edge to enhance usability.

## Surface Burner Control Knobs

- Front-top location provides easy access to enhance usability and safety.

## Large Capacity Oven

- Provides cooking ease and necessary space for all recipes and meal items.

**NX58H5650WS/NX58H5600SS/  
NX58J5600SG**

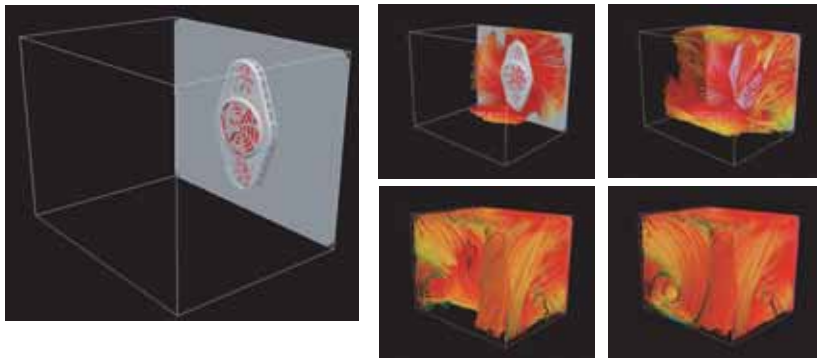
- Also offers Surround Air-vection.

- Convection fan the rear of the oven cavity provide the most even heat distribution and the fastest cooking cycle in the industry

## BTU Ratings

ALL MODELS-	NG	LP
Broil Burner (Upper)	13,500	11,500
Bake Burner (Lower)	18,000	15,000

## Surround Air-vection



- Convection Fan Makes Complex Small Swirl
- Optimal Heat Distribution and Even Cook Performance
- Updated Control Algorithm (for the Swirl Improvement of Door Front/Left/Lower)



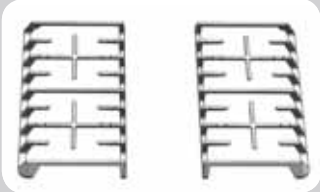
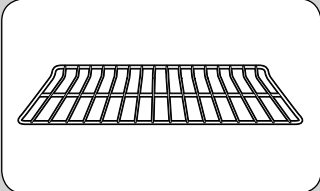
## 2. Specifications

### 2-2 Table of Specifications

Items		Gas Range Models				
		NX58H5650WS		NX58H5600SS NX58J5600SG		
Range Type		Freestanding Gas				
Range Color		Black and Stainless Steel				
Range Category		Convection		Conventional		
Overall Dimensions	Width	30 in. (76.2 cm)				
	Height	45.8 in. (116.2cm)				
	Depth	23.7 in. (60.2cm)				
Controls	Cooktop	Front-Top Control Knobs				
	Oven	SoftTouch				
	Display	SKY BLUE Digital LED				
	Digital Electronic Clock	Yes				
	Electronic Door Lock	Yes				
	Audible Preheat Signal	Yes				
Cooktop	Surface Burner Type	Open-Port				
	# of Surface Burners	5				
		Best		Better		
	Burner Ratings – BTUs	NG	LP	NG	LP	
	Right Front	18,000	14,500	17,000	12,500	
	Right Rear	5,000	4,000	5,000	4,000	
	Left Front	15,000	11,500	15,000	10,000	
	Left Rear	9,500	7,500	9,500	7,500	
	Center Oval	9,500	7,500	9,500	7,500	
Oven	Capacity	5.8 cu.ft		5.8 cu.ft		
	# of Oven Burners	2				
	Upper Burner Rating – BTUs	Best		Better		
		NG	LP	NG	LP	
	Lower Burner Rating – BTUs	13,500	11,500	13,500	11,500	
		18,000	15,000	18,000	15,000	
	Convection Fan System	Yes		Yes		
	# of Racks	3		2		
	Oven Light	Yes				
	Self-Cleaning	Yes				
	Interior Oven Dimensions (Width x Height x Depth)		25 x 21.125 x 19 in (635 x 536 x 481)		25 x 21.125 x 19 in (635 x 536 x 481)	
Drawer	Type	Warming		Storage		
	Electric Warming Element	Yes (600 Watt)		No		
Range Weight, Net		213 lbs. (97kg)		192 lbs. (87kg)		
Required Electrical Supply		120-V, 60-Hz, 15- or 20-amp AC				
Required Gas Supply	Natural Gas (NG)	5–13 in. WC				
	Liquid Propane (LP)	10–13 in. WC				

## 2. Specifications

### 2-3 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
	Rack-Flat	DG75-01001C	2
	Assy Grate	DG94-00939A	1
	Assy Wire Rack	DG94-00908A	1

## 3. Disassembly and Reassembly

### 3-1 Removing the Rear Cover Panels



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING

##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



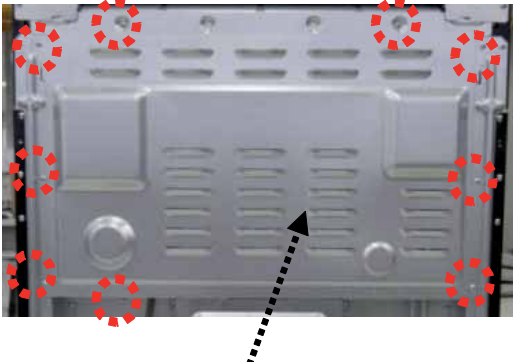
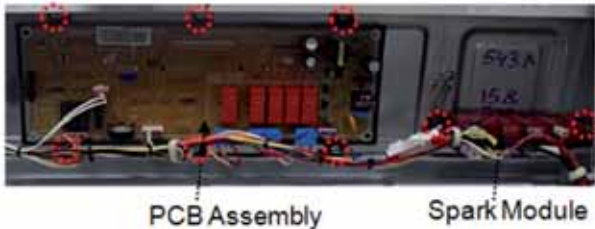
#### CAUTION

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

Parts	Explanation Photo	Explanation
Cover-Wire LT/RT	<p>Cover-Wire LT      Cover-Wire RT</p>	<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Pull the range away from the wall so that you can access the rear panel.</li> <li>4. Remove 2 screws from the Cover Wire LT/RT and pull out the cover</li> </ol>
Cover-Back Guard Wire	<p>Cover-Back Guard Wire</p>	<ol style="list-style-type: none"> <li>5. Remove 2 screws from the cover and pull out the cover from the upper back of the range</li> </ol>
Cover-Convection	<p>Cover-Convection</p>	<ol style="list-style-type: none"> <li>6. Remove 3 screws from the cover and pull out the cover from the range.</li> </ol>

### 3. Disassembly and Reassembly

#### 3-1 Removing the Rear Cover Panels

Parts	Explanation Photo	Explanation
Cover-Back Main Wire		<p>7. Remove 9 screws and pull out the cover from the middle back of the range</p>
PCB Assembly & Spark Module		<p>8. Remove screws of PCB assembly and separate PCB assembly. (When you check PCB, check the proper PCB in default mode and check main PCB.)</p> <p>9. Disconnect the wires to the spark module to remove it.</p> <p>10. Remove 2 screws and the spark module from the back of the range.</p> <p>11. Disconnect the wire connectors from the terminals on the spark module.</p> <p>12. When service is complete, replace the five cover panels on the back of the range and secure each with the appropriate screws.</p> <p>13. Replace the PCB ASSEMBLY and the spark module.</p> <p>14. Reconnect the gas supply line to the range, if removed. Open the main gas shut-off valve and check for gas leaks.</p> <p>15. Plug in the range and/or turn on the electrical supply to the range.</p> <p>16. Push the range back in place, making sure to engage the anti-tip bracket on the left-rear leveling leg.</p>

## 3. Disassembly and Reassembly

### 3-2 Removing the Assy-Frame Cooktop

#### **WARNING**

##### **ELECTRICAL SHOCK HAZARD**

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

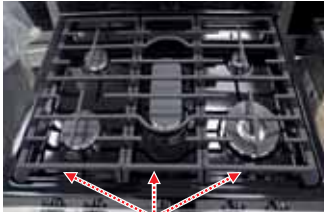

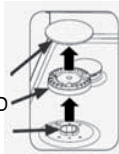
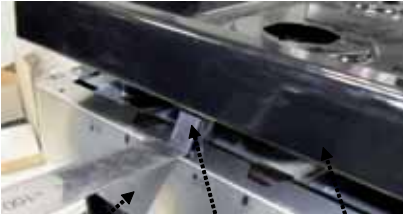

#### **WARNING**

##### **EXPLOSION, FIRE, AND ASPHYXIATION HAZARD**

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

#### **CAUTION**

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

Parts	Explanation Photo	Explanation
Assy-Frame Cooktop	 <p>ASSYGRATE (2SIDE / 1 CENTER)</p>   <p>BURNER CAP BURNER HEAD BURNER CUP</p>	<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Lift off the three grates.</li> <li>4. Lift off the 5 burner caps and the 5 burner heads from the burner cups.</li> <li>5. Remove screws from the 5 burner cups.</li> </ol>
Assy-Frame Cooktop	 <p>CHASSIS MANIFOLD PANEL    SPRING COOKTOP    FRAME COOKTOP</p>  <p>ELECTRODE</p>	<ol style="list-style-type: none"> <li>6. Push the 2 spring located between the frame cooktop and the chassis manifold panel with a putty knife. The knobs should be removed prior to disassembling the cooktop frame and make sure that the Chassis-Manifold Panel is not damaged during the operation.</li> <li>7. Push the cups down below the surface of the frame cooktop.</li> </ol> <p><b>NOTE:</b> Make sure the electrodes are below openings in the cooktop to prevent interference and damage during removal.</p>

## 3. Disassembly and Reassembly

### 3-3 Removing the Chassis Manifold Panel, Knob, Switch Ignition



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING





##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION

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

Parts	Explanation Photo	Explanation
Knob	 <p>Pull the control knob straight off</p>	<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Open the door or Remove it.</li> <li>4. Pull burner control knobs straight off to remove them from the valve shafts.</li> </ol>
Chassis Manifold Panel	 <p>Screws from the bottom</p>	<ol style="list-style-type: none"> <li>5. Remove 2 screws from the top, 2 screws from the front and 4 screws from the bottom of the chassis manifold panel.</li> <li>6. Remove the chassis manifold panel from the front of the range.</li> </ol>
Switch Ignition	 <p>Switch ignition</p>  <p>Connector</p>	<ol style="list-style-type: none"> <li>7. Place a finger behind each side of the switch ignition and pull it straight out to release it from the control shaft. Repeat for each switch.</li> <li>8. Disconnect the wires at the connectors.</li> </ol>

## 3. Disassembly and Reassembly

### 3-4 Removing the Valve Cooktop



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING

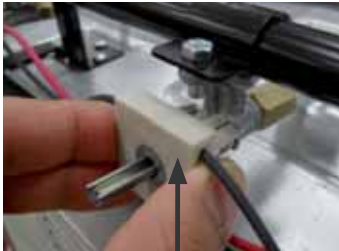
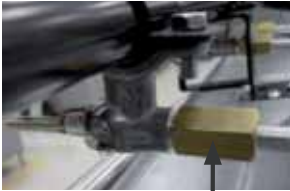
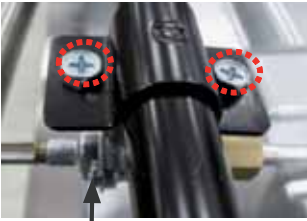
##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION

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

Parts	Explanation Photo	Explanation
Switch Ignition	 <p>SWITCH IGNITION</p>	<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Remove the ASSY FRAME COOKTOP, knob and the chassis manifold panel.</li> <li>4. Place a finger behind each side of the switch ignition and pull it straight out to release it from the control shaft. Repeat for each switch.</li> </ol>
Fitting (Gas line)	 <p>FITTING (GAS LINE)</p>	<ol style="list-style-type: none"> <li>5. 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.</li> </ol>
Valve Cooktop	 <p>ASSY VALVE-MANIFOLD COATING</p>	<ol style="list-style-type: none"> <li>6. Remove 2 screws from ASSY VALVE-MANIFOLD COATING</li> </ol> <p><b>Note :</b> When assembling and disassembling the valve, the torque should be 1.5N.m.</p> <ol style="list-style-type: none"> <li>7. Remove the valve cooktop.</li> </ol>



## 3. Disassembly and Reassembly

### 3-5 Replacing the Burner Cup



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING

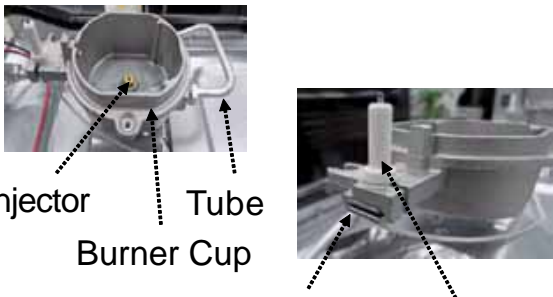
##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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




#### CAUTION

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

Parts	Explanation Photo	Explanation
Locking Clip & Electrode		<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Remove the frame cooktop.</li> <li>4. 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.</li> <li>5. 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. The burner cup can now be removed.</li> </ol>

### 3. Disassembly and Reassembly

Parts	Explanation Photo	Explanation
Burner cup	 <p>Wire Housing</p>	<p>6. To replace the electrode, disconnect the wire connectors from the terminal on the spark module.</p> <p>7. To remove the gas orifice, place the burner cup in a vise and remove the orifice with a 9/32-inch socket wrench.</p> <p>8. When service is complete, Install the gas orifice in the new burner cup.</p> <p><b>NOTE:</b> The new burner cup must be the same size as the one removed.</p> <p>9. Reconnect the electrode to the new burner cup and replace the burner cup in the reverse order</p>

## 3. Disassembly and Reassembly

### 3-6 Replacing the Assy Door Latch

#### WARNING

##### **ELECTRICAL SHOCK HAZARD**

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

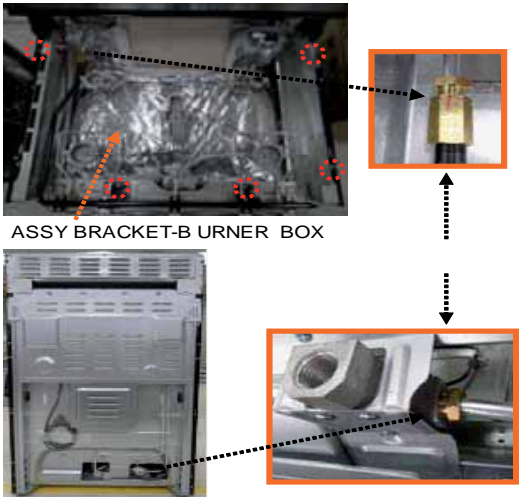
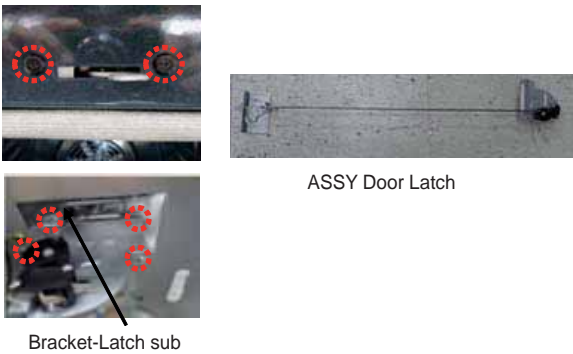
#### WARNING

##### **EXPLOSION, FIRE, AND ASPHYXIATION HAZARD**

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

#### CAUTION

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

Parts	Explanation Photo	Explanation
Assy Tube-Manifold	 <p>ASSY BRACKET-B URNER BOX</p>	<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Remove the oven door and the cooktop.</li> <li>4. Remove the control knob and the chassis manifold panel.</li> <li>5. Remove the ASSY tube-manifold using a tubing wrench.</li> </ol>
Assy Door Latch	 <p>ASSY Door Latch</p> <p>Bracket-Latch sub</p>	<ol style="list-style-type: none"> <li>6. Remove 2 screws from the Bracket-Latch sub to the rear of the range.</li> <li>7. Disconnect wires of the door latch to the rear of the range and remove it.</li> <li>8. Remove 2 screws holding the Assy bracket-latch rear to the rear of the range.</li> <li>9. Remove the latch-rod from the Assy bracket-latch front.</li> <li>10. Remove 2 screws holding the Assy bracket-latch front to the front of cavity.</li> <li>11. Reverse the order to install the ASSY DOOR LATCH.</li> <li>12. Test the ASSY DOOR LATCH to make sure it is latching and unlatching properly.</li> </ol>

## 3. Disassembly and Reassembly

### 3-7 Replacing the Switch-Door Plunger



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING


##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION

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

Parts	Explanation Photo	Explanation
Switch-Door Plunger	 <p>SWITHCH-DOOR PLUNGER</p>	<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Open the oven door.</li> <li>4. Carefully pull out the switch door plunger switch from the upper left 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.</li> <li>5. Note the location and mark the wires; then disconnect the wire to the switch door plunger.</li> <li>6. Replace with the switch-door plunger, reconnect the wires in their original positions, and reinstall switch in the oven frame.</li> </ol>

## 3. Disassembly and Reassembly

### 3-8 Replacing the Assy Lamp Bulb



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING

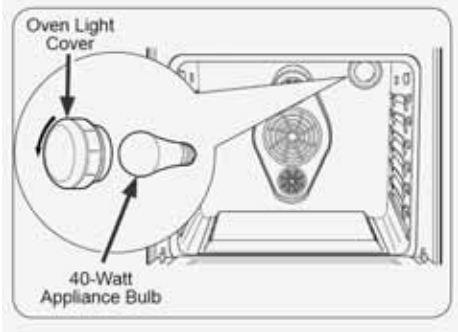
##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION

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

Parts	Explanation Photo	Explanation
Assy Lamp Bulb		<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Remove the rear cover panel.</li> <li>4. Open the oven door and remove the racks from inside the oven.</li> <li>5. The oven lamp bulb is in the upper right-hand corner of the oven cavity. Turn oven lamp cover counterclockwise to loosen and remove the cover.</li> <li>6. Remove the oven light bulb.</li> <li>7. When service is complete, install the bulb and light cover by turning clockwise.</li> </ol>

## 3. Disassembly and Reassembly

### 3-9 Replacing the Sensor-Thermistor



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING

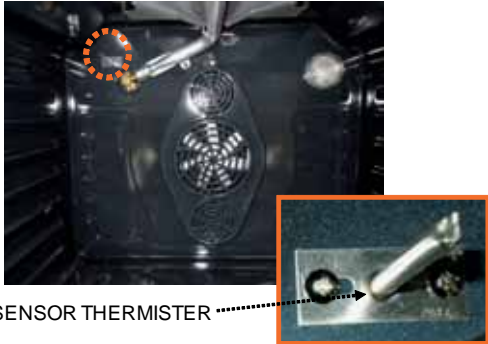
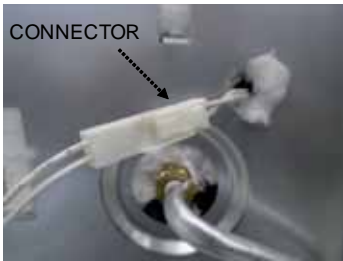
##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION

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

Parts	Explanation Photo	Explanation
Upper Oven Burner Shield and Upper Oven Burner	 <p>SENSOR THERMISTER</p>  <p>CONNECTOR</p>	<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Open the oven door and remove the racks from inside the oven.</li> <li>4. Disconnect the sensor thermistor connector to the rear of the range.</li> <li>5. 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.</li> <li>6. Reverse the order to install the oven temperature sensor.</li> </ol> <p><b>NOTE:</b> 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

### 3-10 Replacing the Gasket Door



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING

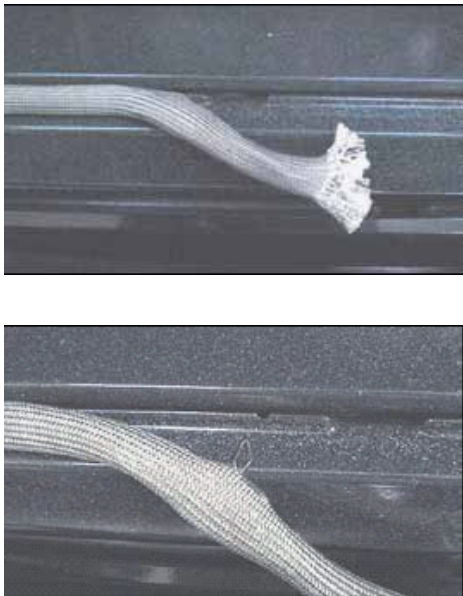
##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION

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

Parts	Explanation Photo	Explanation
Gasket Door		<ol style="list-style-type: none"> <li>1. Open the oven door to its fully down position.</li> <li>2. Pull the ends of the gasket out of the liner holes.</li> <li>3. Pull the oven door gasket clips out of the holes until all of the clips are removed.</li> <li>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.</li> <li>5. Close the oven door.</li> </ol> <p><b>REASSEMBLY NOTE :</b> 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

### 3-11 Removing and Replacing the Door



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING






##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION

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

Parts	Explanation Photo	Explanation
Door (Removal)	 	<ol style="list-style-type: none"> <li>1. Fully open the door</li> <li>2. Pull the hinge locks downward</li> <li>3. Firmly grasp both side of the door at the top.</li> <li>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.</li> </ol>
Door (Replace)	  	<ol style="list-style-type: none"> <li>1. Firmly grasp both sides of the door at the top position.</li> <li>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.)</li> <li>3. Close the oven door.</li> </ol>

## 3. Disassembly and Reassembly

### 3-12 Replacing the Handle-Door



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING

##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION

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

Parts	Explanation Photo	Explanation
Handle-Door		<ol style="list-style-type: none"> <li>1. Remove the oven door from the range.</li> <li>2. Place the oven door on a padded work surface with the front glass facing down.</li> <li>3. Remove 3 bottom screws from the door.</li> <li>4. Remove 2 Handle-screws from the door.</li> </ol>
		<ol style="list-style-type: none"> <li>5. Lift the door rear assembly off the front assembly and set it aside</li> <li>6. Remove 2 spacers and 2 screws.</li> </ol>
		<ol style="list-style-type: none"> <li>7. Remove 2 screws to replace the Handle-Door</li> </ol>

## 3. Disassembly and Reassembly

### 3-13 Replacing the Glass-Inner



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING

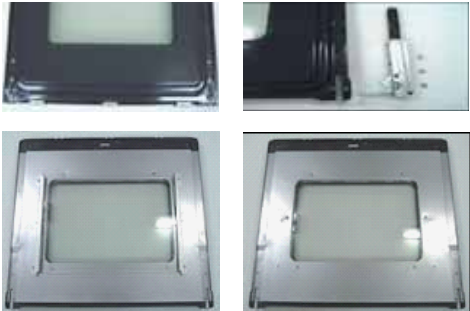


##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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





#### CAUTION

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

Parts	Explanation Photo	Explanation
Glass-Inner		<ol style="list-style-type: none"> <li>1. Remove 6 screws from rear side of door to remove 2 Hinge-Door.</li> <li>2. Remove 4 screws to remove Glass- Inner Sub Assembly</li> <li>3. Remove 7 screws to remove Baffle- Door</li> </ol>
		<ol style="list-style-type: none"> <li>4. Remove Baffle-Door and take out the Glass-Inner assembly.</li> </ol>
		<ol style="list-style-type: none"> <li>5. Unfold 2 flanges of Cover-Frame Inner Glass to take out Glass-Inner</li> </ol>

## 3. Disassembly and Reassembly

### 3-14 Replacing the Warming drawer (NX58H5650WS)

Parts	Explanation Photo	Explanation
Warming drawer	  	<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Open the warming drawer to the fully opened position.</li> <li>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.</li> <li>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.</li> </ol>

### 3. Disassembly and Reassembly

#### 3-15 Replacing the Storage drawer (NX58H5600SS, NX58J5600SG)



#### WARNING

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

Parts	Explanation Photo	Explanation
Warming drawer	<p>The diagram consists of three panels. The top panel shows the drawer being pulled out from the cabinet, with a large black arrow pointing left. The middle panel shows the drawer fully extended, with labels 'Top Glide Block' and 'Bottom Guide Block' pointing to the respective components. The bottom panel shows the drawer being pushed back into the cabinet, with a large black arrow pointing right.</p>	<ol style="list-style-type: none"> <li>1. Pull out the drawer and remove the contents.</li> <li>2. While supporting the drawer, pull it out until the 2 bottom guide blocks are exposed. Lift out the drawer from the 2 top glide blocks.</li> <li>3. To replace, position top edge of drawer on the 2 top glide blocks. To replace a glide or guide block, remove mounting screw(s) and block.</li> <li>4. Slide the drawer in until the lower drawer blocks engage with the drawer slide rails on each side of the drawer opening. Replace the contents and close the drawer.</li> </ol>

## 3. Disassembly and Reassembly

### 3-16 Replacing the Burner Broil



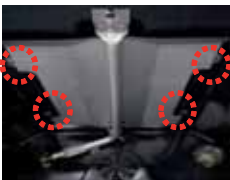




#### WARNING

##### ELECTRICAL SHOCK HAZARD

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

#### CAUTION

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

Parts	Explanation Photo	Explanation
Burner Broil		<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Open the oven door and remove the racks from inside the oven.</li> <li>4. Remove Cover-back main wire to the rear of the oven.</li> <li>5. Disconnect the wires or the connector of the HSI. (Identify and mark the two wires going to HSI.)</li> </ol>
	 	<ol style="list-style-type: none"> <li>6. Remove 1 screw of bracket HSI-wire</li> <li>7. Remove 4 screws of bracket-broil spreader to top of oven.</li> </ol>
	 	<ol style="list-style-type: none"> <li>8. Support the burner-broil with one hand, remove 2 screw supporting the burner-broil to the front and the rear of the oven.</li> </ol>
	 	<ol style="list-style-type: none"> <li>9. Pull the upper ASSY-BURNER BROIL SPREADER to disconnect it from the holder nozzle-broil on the rear wall of the oven.</li> <li>10. Carefully remove ASSY-BURNER BROIL SPREADER.</li> <li>11. Separate the burner broil and bracket-broil spreader.</li> </ol>

### 3. Disassembly and Reassembly

#### 3-17 Replacing the HOT SURFACE IGNITOR (HSI) of the BURNER BROIL, NOZZLE Broil-Burner, and HOLDER Broil-BURNER



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING




##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION

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

Parts	Explanation Photo	Explanation
Hot Surface Ignitor (HSI)		<ol style="list-style-type: none"> <li>To replace the HSI of the burner broil, Remove 2 screws assembled to HSI</li> </ol>
Nozzle Broil-Burner	<p>Remove the gas nozzle</p> 	<ol style="list-style-type: none"> <li>To replace the nozzle broil-burner, Remove the gas nozzle with a 9/32-inch socket wrench.</li> </ol>
Holder Broil-Burner		<ol style="list-style-type: none"> <li>To remove the holder-broil burner, Remove 2 screws supporting the holder-broil burner to the rear of the oven.</li> <li>When the service is complete, reverse the order to install burner broil, HSI, Nozzle and Holder broil burner.</li> </ol> <p><b>NOTE:</b> The oven burner flames can be adjusted by loosening the locking screw and opening or closing the air shutter at the base of the oven burner.</p>



## 3. Disassembly and Reassembly

### 3-18 Replacing the Burner Bake



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING

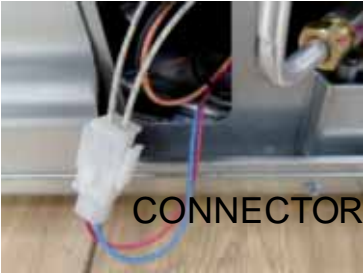

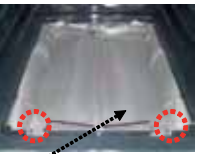


##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION

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

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

### 3. Disassembly and Reassembly

#### 3-19 Replacing the HOT SURFACE IGNITOR (HSI) of the BURNER BAKE, NOZZLE BAKE-BURNER, and HOLDER BAKE-BURNER



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING

##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION

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

Parts	Explanation Photo	Explanation
Hot Surface Ignitor (HSI)		<ol style="list-style-type: none"> <li>To replace the burner bake HSI, Remove 2 screws assembled to HSI</li> </ol>
Nozzle Bake -Burner		<ol style="list-style-type: none"> <li>To replace the nozzle bake-burner, Remove the gas orifice with a 9/32-inch socket wrench.</li> </ol>
Holder Bake-Burner	<p>NOTE.</p>	<ol style="list-style-type: none"> <li>To remove the holder-bake burner, Remove 2 screws supporting the holder-bake burner to the rear of the oven.</li> <li>When the service is complete, reverse the order to install Burner bake, HSI, Nozzle, Holder bake-burner.</li> </ol> <p><b>Note:</b> The oven burner flames can be adjusted by loosening the locking screw and opening or closing the air shutter at the base of the oven burner.</p>





## 3. Disassembly and Reassembly

### 3-20 Replacing the Motor Convection (Ver.00)



#### CAUTION

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

Parts	Explanation Photo	Explanation
Motor Convection (Parts Code: DG31-00014D)	CONNECTOR 	<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Remove the cover-back main wire and the cover-convection.</li> <li>4. Note, mark, and disconnect wires or connector going to the motor convection</li> </ol>
		<ol style="list-style-type: none"> <li>5. Open the oven door and remove the racks from inside the oven.</li> <li>6. Remove 2 screws and the interior cover casing from the back wall of the oven cavity.</li> </ol>
	FAN  FAN NUT	<ol style="list-style-type: none"> <li>7. Remove the fan nut, fan blade from the motor convection shaft. (The convection nut has clockwise threads to remove the nut.)</li> </ol>
	Unbend the bracket 	<ol style="list-style-type: none"> <li>8. Unbend the bracket of the back main to the rear of the range.</li> <li>9. Pull the motor convection straight out while rotating the motor convection counter-clockwise.</li> <li>10. When the service is complete, reverse the order to install the motor convection.</li> </ol> <p><b>Note.</b> Do not fasten the fan nuts too strong.</p>

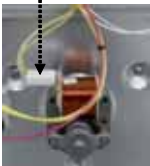





### 3. Disassembly and Reassembly

#### Replacing the Motor Convection (Ver.01)



#### CAUTION

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

Parts	Explanation Photo	Explanation
Motor Convection (Parts Code: DG31-00014F)	CONNECTOR 	<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Remove the cover-back main wire and the cover-convection.</li> <li>4. Note, mark, and disconnect wires or connector going to the motor convection</li> </ol>
		<ol style="list-style-type: none"> <li>5. Open the oven door and remove the racks from inside the oven.</li> <li>6. Remove 2 screws and the interior cover casing from the back wall of the oven cavity.</li> </ol>
	FAN  FANNUT 	<ol style="list-style-type: none"> <li>7. Remove the fan nut, fan blade from the motor convection shaft. (The convection nut has clockwise threads to remove the nut.)</li> </ol>
	Unbend the bracket  	<ol style="list-style-type: none"> <li>8. Unbend the bracket of the back main to the rear of the range.</li> <li>9. Pull the motor convection straight out while rotating the motor convection counter-clockwise.</li> <li>10. When the service is complete, reverse the order to install the motor convection.</li> </ol> <p><b>Note.</b> Do not fasten the fan nuts too strong.</p>

## 3. Disassembly and Reassembly

### 3-21 Replacing the Heater Convection



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING


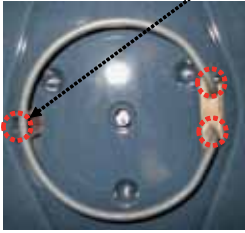
##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION

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

Parts	Explanation Photo	Explanation
Heater Convection	 CONNECTOR of THE HEATER CONVECTION	<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Remove the cover back main wire and cover convection.</li> <li>4. To remove heater convection, disconnect wires or connector going to the heater-convection</li> </ol>
	BRACKET CONVECTION-HEATER 	<ol style="list-style-type: none"> <li>5. Remove 2 screws supporting the heater-convection to the rear of the oven.</li> <li>6. Remove 1 screw holding the bracket- convection heater to the rear of the oven.</li> <li>7. Pull out the heater convection.</li> <li>8. Reverse the order to install the heater convection.</li> </ol>

## 3. Disassembly and Reassembly

### 3-22 Replacing the Heater Warming Drawer



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING

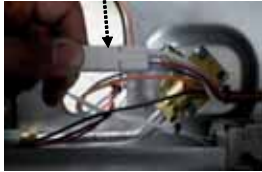

##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION

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

Parts	Explanation Photo	Explanation
Gas Control Valve	<p>Connector of the heater-warming drawer</p> 	<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Remove the warming drawer.</li> <li>4. Disconnect the connector from the back wall of the warming drawer opening.</li> </ol>
		<ol style="list-style-type: none"> <li>5. Remove the bottom screw and the heater-warming drawer from the back wall of the warming drawer opening.</li> <li>6. Reverse the order to install and connect the new heater warming drawer.</li> </ol>

## 3. Disassembly and Reassembly

### 3-23 Replacing the Assy Valve Safety



#### WARNING

##### ELECTRICAL SHOCK HAZARD

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



#### WARNING

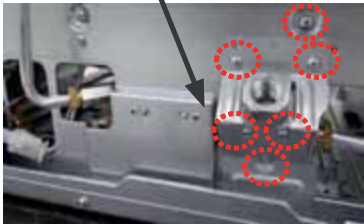
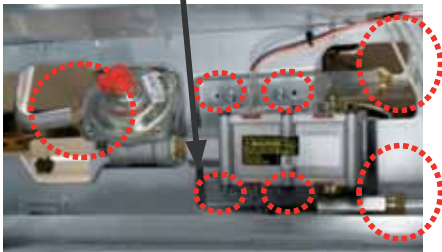
##### EXPLOSION, FIRE, AND ASPHYXIATION HAZARD

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



#### CAUTION


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

Parts	Explanation Photo	Explanation
Assy Valve Safety	<p>SUPPORT REGULATOR</p>  <p>[ Rear ]</p>	<ol style="list-style-type: none"> <li>1. Turn off the electrical supply going to the range.</li> <li>2. Shut off the gas shut-off valve in the gas supply line to the range.</li> <li>3. Remove the regulator support bracket from the rear of the range</li> <li>4. Carefully identify and mark the wires going to the ASSY VALVE SAFETY. Disconnect the 4 wires.</li> </ol>
	<p>ASSY VALVE SAFETY</p>  <p>[ Front ]</p>	<p><b>WARNING</b></p> <p>Cross-wiring the wires to the ASSY VALVE SAFETY creates an explosion hazard that can result in death, personal injury, and/or property and product damage.</p> <ol style="list-style-type: none"> <li>5. Using a tubing wrench and a channel-lock wrench, disconnect the 3 gas lines from the ASSY VALVE SAFETY. Do not bend or crimp gas lines during removal.</li> <li>6. Remove gas fittings from the ASSY VALVE SAFETY.</li> <li>7. Remove 4 screws and the ASSY VALVE SAFETY from the back wall of the warming drawer opening.</li> </ol>



### 3. Disassembly and Reassembly

#### Replacing the Assy Valve Safety

Parts	Explanation Photo	Explanation
Assy Valve Safety		<p>8. Install the new ASSY VALVE SAFETY from the back wall of the warming drawer with 4 screws.</p> <p>9. Reconnect gas lines to the ASSY VALVE SAFETY .</p> <p><b>NOTE:</b> Check all gas lines and fittings for leaks before operation.</p> <p><b>WARNING</b> Cross-wiring the wires to the gas control valve creates an explosion hazard that can result in death, personal injury, and/or property and product damage.</p> <p>10. Reconnect wire connectors in their original positions.</p>

## 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. Press the Clock pad.
2. Press the number pads 1, 2, 3 and 4. Make sure the Timer and Warming Drawer are both turned OFF.
3. Press the SET/Start pad.
4. Press the Favorite Cook and the 0 number 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. But, if the power is interrupted and the oven turns off, the stored error codes are deleted.
6. Press the Clear/Off pad to return to normal display mode.



#### Oven sensor error

FAILURE CODE	CAUSE	SOLUTION
E-27	Oven temperature sensor open. (over 2950Ω)	<ol style="list-style-type: none"> <li>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.</li> <li>2. If there is no problem with oven temperature sensor, check the wires and/or terminal on the wire harness for damage.</li> </ol>
E-28	Oven temperature sensor shorted. (Under 930Ω)	<ol style="list-style-type: none"> <li>3. Disconnect the oven sensor connector from the PCB. Check the resistance of the oven sensor connector on the PCB (Normal: 2850Ω)</li> </ol>

## 4. Troubleshooting

### 4-1 Failure Display Codes

#### Safety error

Failure code	CAUSE	SOLUTION
E-0A	Oven overheating error. (Temperature reaches 650°F [343°C] in any cooking function, except Self Clean.)	<ol style="list-style-type: none"> <li>1. Disconnect electrical power to the range. Remove the upper rear cover panel. Disconnect the two harness connectors to the oven temperature sensor. Measure the oven temperature sensor resistance: 1080Ω at the room temperature → If there are any problems, replace oven temperature sensor.</li> <li>2. Check the broil and bake burners to make sure they are lighting and burning properly.</li> <li>3. Check whether the DLB, Broil, Bake, and Warming Drawer relay is working normally.</li> <li>4. Make sure all harness connections are properly connected and securely fastened to the PCB.</li> <li>5. Check the resistance of oven temperature sensor connector on the PCB. (Normal : 2850Ω)</li> </ol>
- SE -	Shorted key. (Key pad is pressed for 10 minutes.)	<ol style="list-style-type: none"> <li>1. Check the touch control wire harness to make sure it is properly connected between the PCB and the Touch Control board..</li> <li>2. Disconnect the touch control wire harness. Check the harness, Touch Control board and PCB for short circuits.</li> <li>3. If there is not a problem with the connector on the PCB and the touch control harness, replace the PCB.</li> </ol>

## 4. Troubleshooting

### 4-1 Failure Display Codes

#### Safety error

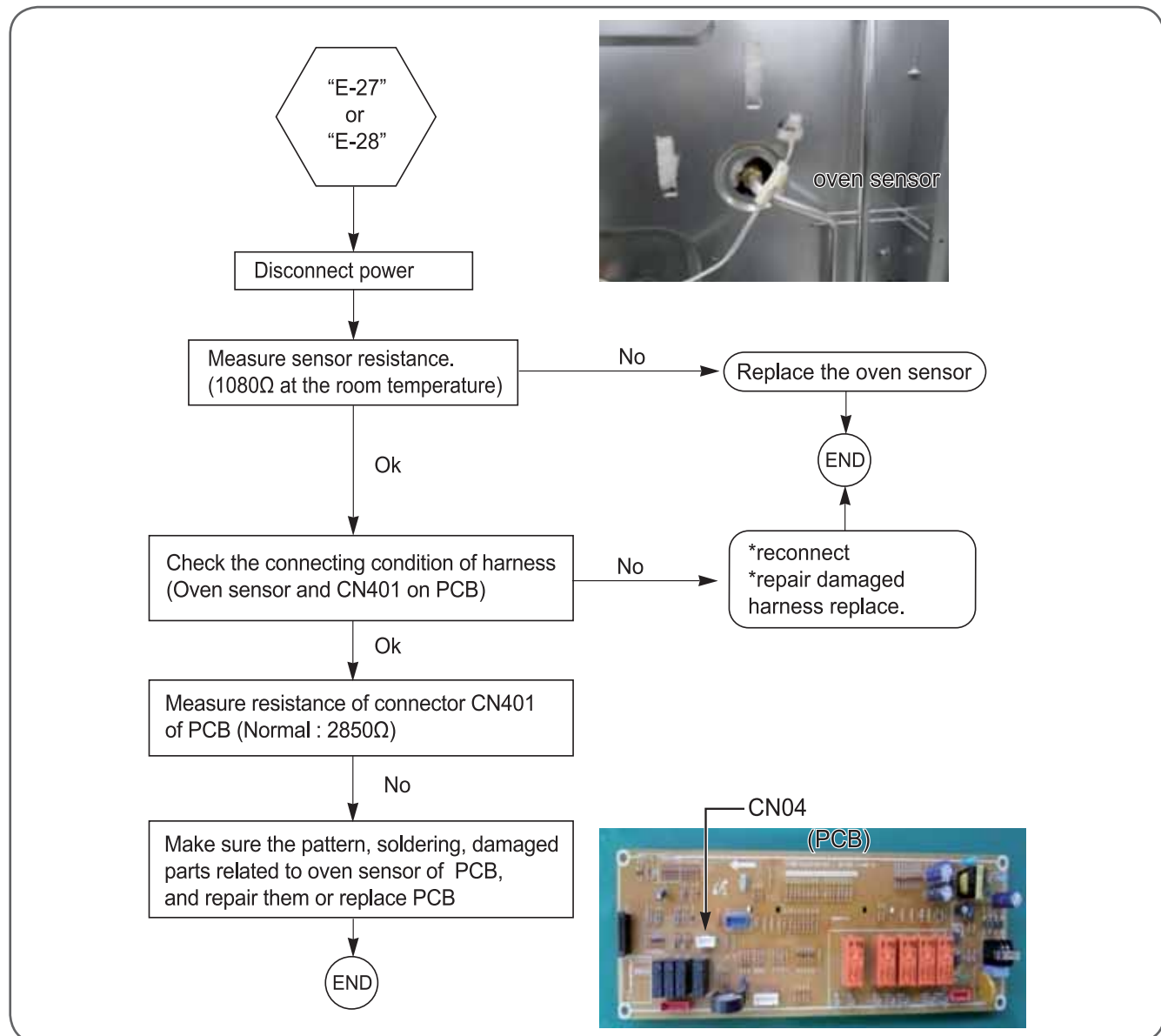
Failure code	CAUSE	SOLUTION
E-0E	Door locking error (Door lock in wrong position after 1 minute.)	<ol style="list-style-type: none"> <li>1. Disconnect electrical power to the range. Remove the upper rear cover panel. Make sure the wiring harness is properly connected to the motorized door lock assembly.</li> <li>2. Check motorized door lock assembly for proper operating resistances.</li> <li>3. With operating door lockout, measure the voltage of connector on harness which is linked with door lock motor. (Normal Voltage : AC 120V)</li> <li>4. Check the door locking switch to make sure it is working properly.</li> </ol>

## 4. Troubleshooting

### 4-1 Failure Display Codes

#### Oven sensor error

Failure code	CAUSE	SOLUTION
E-27	Oven Sensor Opened (Over 2950Ω)	1) Disconnect electrical power to the range. Remove the upper rear cover panel. Measure the sensor resistance: 1080Ω at room Temperature → If there are any problems, replace the oven temperature sensor.  2) If there is no problem with oven temperature sensor, Please check whether there is a damaged terminal or wire on harness.  3) Disconnect the oven sensor connector from the PCB. Check resistance of oven sensor connector on PCB (Normal: 2850Ω)
E-28	Oven Sensor Shorted (Under 930Ω)	



## 4. Troubleshooting

### 4-1 Failure Display Codes

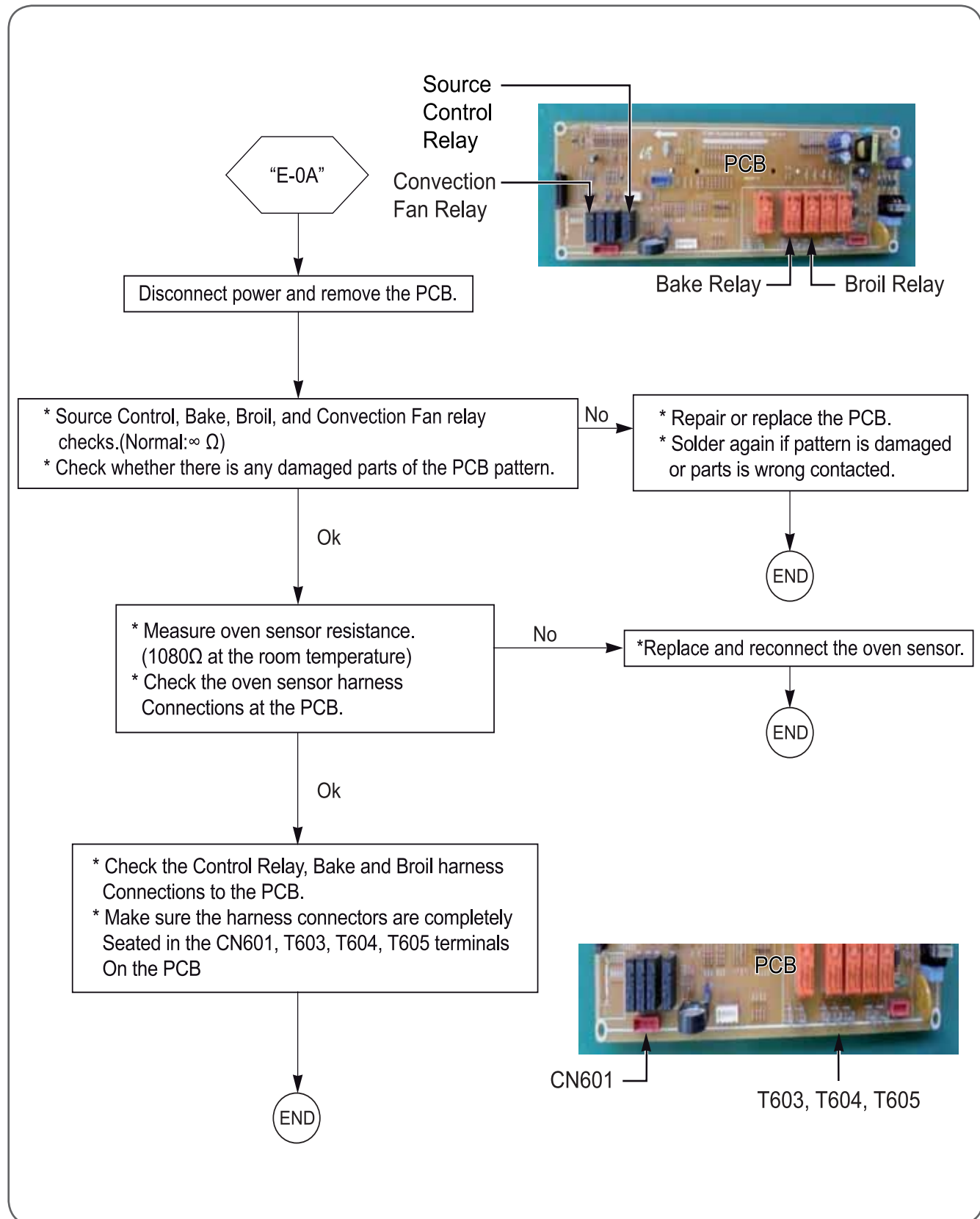
#### Safety error

Failure code	CAUSE	SOLUTION
E-0A	Oven overheating error. (Temperature does not reach 650°F[343°C] in any cooking function, except Self Clean)	<ol style="list-style-type: none"> <li>1) Disconnect power. Open the rear cover. Disconnect the two harness connectors to the oven temperature sensor resistance:1080Ω at room temperature → If there are any problems, replace oven temperature sensor.</li> <li>2) Check the broil and bake burners to make sure they are lighting and burning properly.</li> <li>3) Check whether DLB , Broil, Bake and Warming Drawer relay is working normally.</li> <li>4) Make sure all harness connections are properly connected and securely fastened to the PCB.</li> <li>5) Check the resistance of oven temperature sensor connector on PCB(Normal : 2850Ω)</li> </ol>

## 4. Troubleshooting

### 4-1 Failure Display Codes

#### Safety error

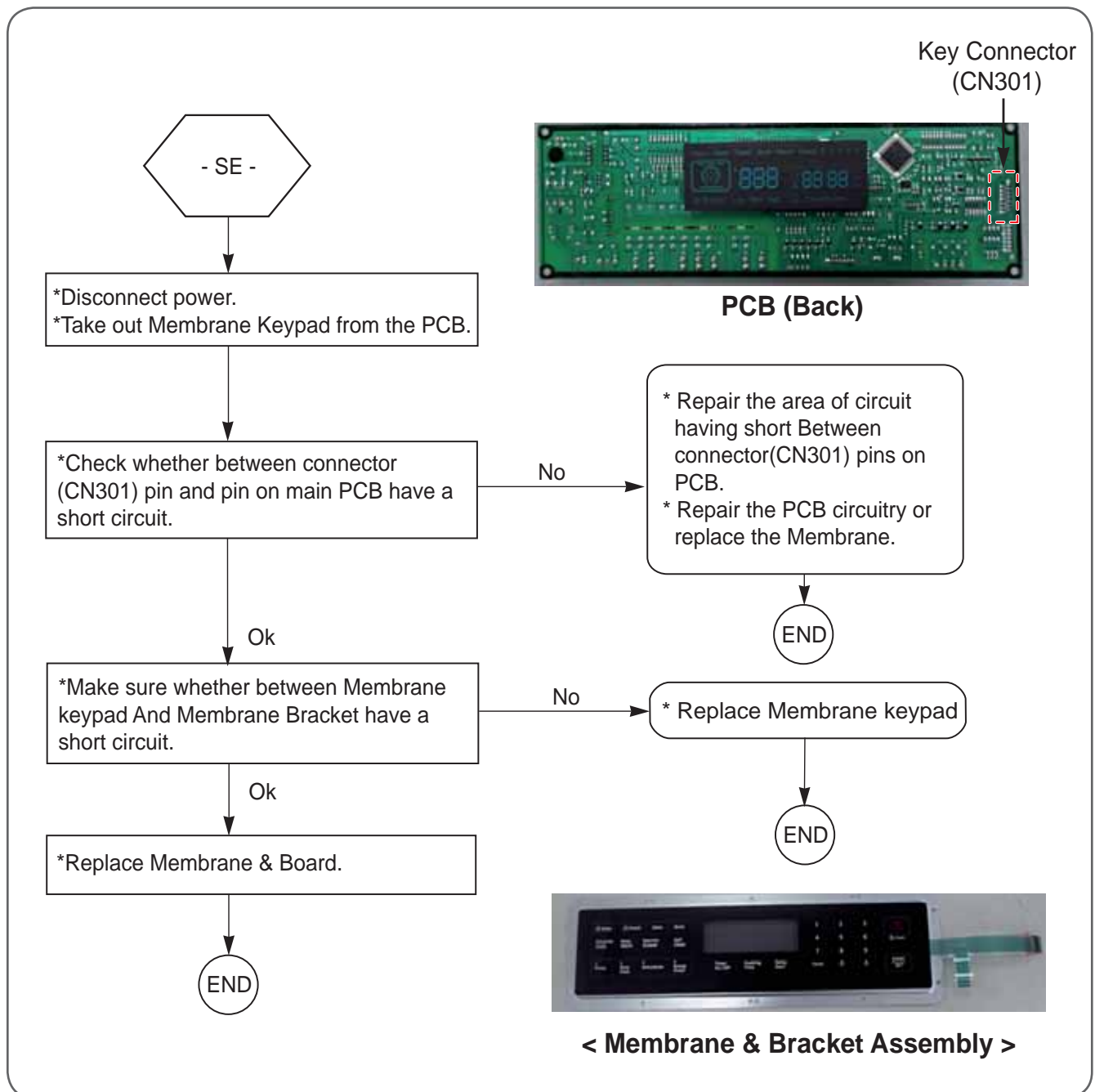




## 4. Troubleshooting

### 4-1 Failure Display Codes

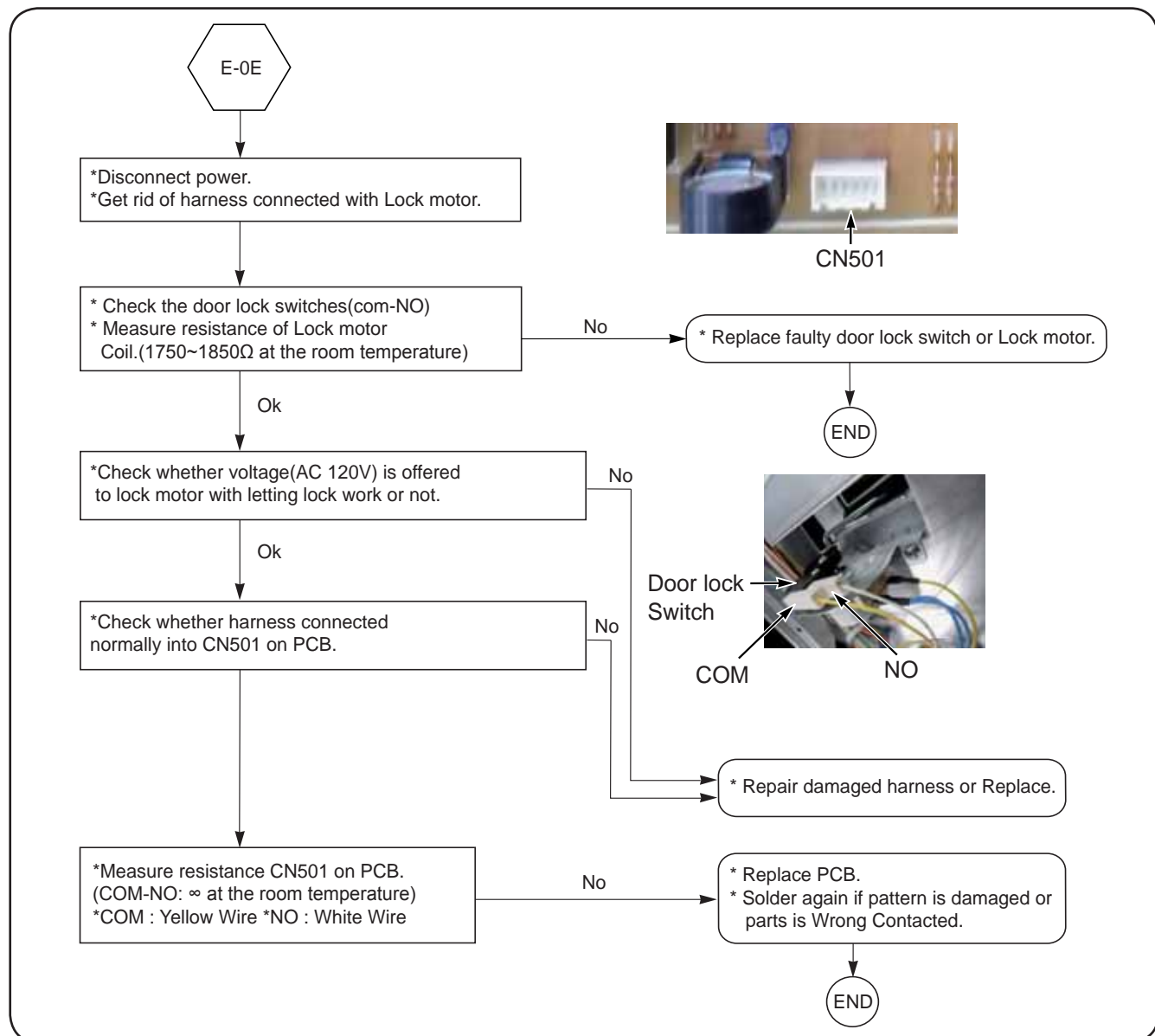
Failure code	CAUSE	SOLUTION
-SE-	Shorted Key (Key pad is pressed for 10 minutes.)	<ol style="list-style-type: none"> <li>1) Check the membrane wire harness to make sure it is properly connected with PCB</li> <li>2) Disconnect the membrane wire harness. Check the harness, Membrane and PCB for short circuits.</li> <li>3) If there is not a problem with the connector on main PCB and membrane harness, replace the PCB.</li> </ol>



## 4. Troubleshooting

### 4-1 Failure Display Codes

Failure code	CAUSE	SOLUTION
E-0E	Door locking error (Door lock in wrong position after 1 minute.)	<ol style="list-style-type: none"> <li>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.</li> <li>2) Check motorized door lock assembly for proper operating resistance.</li> <li>3) With operating door lockout, measure the voltage of connector on harness which is linked with door lock motor. (Normal :Voltage : AC 120V)</li> <li>3) Check the door locking switch to make sure it is working properly.</li> </ol>



## 4. Troubleshooting

### 4-1 Failure Display Codes

Control PCB Operation

PCB Circuit Boards



( Front )



( Back )



( Front )



( Back )

## 4. Troubleshooting

### 4-1 Failure Display Codes

\* Explanation of primary parts on the Membrane Control Panel



**NX58H5650WS Membrane Keypad**



**NX58H5600SS Membrane Keypad**

1. The membrane control panel allows the user to operate the oven, oven light, warming drawer(NX58H5650WS only) and Convection heater(NX58H5650WS only), and clock and timer operation by touching the membrane panel in the top backguard.
2. The marking on the front of membrane acts as a guide for where the panel should be touched to select and program that function.

If membrane touch control stops working, replace the membrane and membrane bracket.

3. Membrane tail connects the Membrane Keypad to PCB.

## 4. Troubleshooting

SYMPTOM	DIAGNOSIS	REMEDY												
Oven not operating (No power, No display)	<ul style="list-style-type: none"><li>* Measure the input voltage at the plug. (120VAC)</li><li>* Measure the input voltage at terminal T01 on the PCB .</li></ul>	<ul style="list-style-type: none"><li>* Check the circuit breaker or fuse for the range circuit.</li><li>* Make sure all wires are connected to the PCB.</li></ul>												
	<ul style="list-style-type: none"><li>* Measure the voltage at the CN01 connector on the PCB. (L1~N:120VAC)</li></ul>	<ul style="list-style-type: none"><li>* Repair or replace the loose or disconnected harness.</li></ul>												
	<ul style="list-style-type: none"><li>* Make sure that the bake, broil, and source control relays on the PCB are working normally.</li><li>* Make sure the harness connections at the PCB terminals (T02, T03) have not come loose or disconnected.</li></ul>	<ul style="list-style-type: none"><li>* Replace the PCB if a relay has been damaged; relay is not working properly; or if the PCB has a crack in it.</li><li>* Tighten or reconnect the PCB harness connections.</li><li>* After confirming the harness has been connected properly to the PCB, take the following action:<ul style="list-style-type: none"><li>- Repair or replace the harness.</li><li>- Replace the PCB.</li></ul></li></ul>												
	<ul style="list-style-type: none"><li>* Measure the resistance between both ends of the oven temperature sensor. (normal : 1080 ohms)</li><li>* Make sure the harness connections at the PCB connector CN04 have not come loose or disconnected.</li></ul>	<ul style="list-style-type: none"><li>* Replace the oven temperature sensor.</li><li>* Repair or replace the harness.</li><li>* If problem still exists after confirming the oven temperature sensor and harness are working and connected properly, replace the PCB.</li></ul>												
Oven temperature rises too slowly.	<ul style="list-style-type: none"><li>* “E-08” will show on the display if the oven fails to reach 125°F(52°C) within 10 minutes at room temperature.</li></ul>	<ul style="list-style-type: none"><li>* Measure the oven temperature sensor resistance: (1080Ω at the room temperature). Replace a faulty oven temperature sensor.</li></ul>												
	<ul style="list-style-type: none"><li>* Make sure the harness connections at the PCB terminals (T02, T03) have not come loose or disconnected.</li></ul>	<ul style="list-style-type: none"><li>* Repair or replace the harness.</li></ul>												
	<ul style="list-style-type: none"><li>* Make sure the broil and bake burners have been adjusted properly.</li><li>* Make sure the oven burner orifices are sized properly for the type of gas being used.</li></ul>	<ul style="list-style-type: none"><li>* Open or close the air shutter at the base of the burners to optimize the flame pattern.</li><li>* Replace with properly sized orifices:<table><tr><td><b>Burner</b></td><td><b>NG</b></td><td><b>LP</b></td></tr><tr><td><b><u>Orifice</u></b></td><td><b><u>mm</u></b></td><td><b><u>mm</u></b></td></tr><tr><td>Broil</td><td>1.64</td><td>1.02</td></tr><tr><td>Bake</td><td>1.90</td><td>1.15</td></tr></table><b>NOTE:</b> High-altitude orifice kits are available.</li></ul>	<b>Burner</b>	<b>NG</b>	<b>LP</b>	<b><u>Orifice</u></b>	<b><u>mm</u></b>	<b><u>mm</u></b>	Broil	1.64	1.02	Bake	1.90	1.15
	<b>Burner</b>	<b>NG</b>	<b>LP</b>											
<b><u>Orifice</u></b>	<b><u>mm</u></b>	<b><u>mm</u></b>												
Broil	1.64	1.02												
Bake	1.90	1.15												
<ul style="list-style-type: none"><li>* Make sure that the bake, broil, and source control relays on the PCB are working normally.</li></ul>	<ul style="list-style-type: none"><li>* Repair or replace the faulty relay.</li><li>* Make sure all harness connections are properly connected.</li><li>* Replace the PCB.</li></ul>													

## 4. Troubleshooting

SYMPTOM	DIAGNOSIS	REMEDY											
Oven temperature rises too fast.	* The oven temperature exceeds 400°F(202°C) within 10 minutes of room temperature operation.	* Repair or replace the faulty broil or bake relay.											
	* Make sure the harness is wired correctly and does not have a short circuit in it.	* Repair or replace the harness.											
	* Make sure the oven burner orifices are sized properly for the type of gas being used.	* Replace with properly sized orifices: <table border="1"> <thead> <tr> <th>Burner</th><th>NG</th><th>LP</th></tr> <tr> <th>Orifice</th><th>mm</th><th>mm</th></tr> </thead> <tbody> <tr> <td>Broil</td><td>1.64</td><td>1.02</td></tr> <tr> <td>Bake</td><td>1.90</td><td>1.15</td></tr> </tbody> </table> NOTE: High-altitude orifice kits are available. * Replace the PCB.	Burner	NG	LP	Orifice	mm	mm	Broil	1.64	1.02	Bake	1.90
Burner	NG	LP											
Orifice	mm	mm											
Broil	1.64	1.02											
Bake	1.90	1.15											
Oven is overheating in all cooking modes.	* "E-0A" will show on the display if the oven temperature reaches 650°F (343°C) in any cooking function, except self clean.	* Check the source control relay (RY01) and replace if it is not working properly. * Make sure all wire harnesses are securely fastened. * Check the resistance of oven temperature sensor connector on the PCB. (Normal : 1080 ohms) * Replace the PCB.											
The self-cleaning feature will not operate when the warming drawer is on.	* This is normal.	* The self-cleaning feature will not operate when the warming drawer is on.											
Membrane control keypads are not working properly.	* Make sure the door lock feature is not turned on.	* Unlock the controls by pressing and holding the lock key for 3 or more seconds.											
	* Check to see if the sabbath function has been turned on.	* Press and hold the Sabbath pad for at least 3 seconds. The display will show the time of day when the function is turned off.											
	* Check the membrane control harness and connectors (CN08) on the PCB and membrane control glass panel.	* Reconnect securely or replace damaged membrane control harness.											
	* Check connector (CN08) and/or the PCB for damage. * Check the membrane control panel for damage.	* Replace the PCB assembly. (PCB and membrane control glass panel.)											
Warming drawer heating is not working.	* Measure the resistance of the warming drawer heating element.	* Replace the warming drawer heating element.											
	* Check the warming drawer terminal (T04) on the PCB.	* Securely fasten wire to PCB terminal (T04).											
	* Check the warming drawer relay (RY04) on the PCB.	* Replace the warming drawer relay (RY04). * Replace the PCB.											

## 4. Troubleshooting

SYMPTOM	DIAGNOSIS	REMEDY
Oven lamp is not working.	* Make sure the door lock feature is not turned on.	* Unlock the controls by pressing and holding the lock key for 3 or more seconds.
	* Check for a burned out bulb.	* Replace with a 40 watt appliance bulb.
	* Check the harness connections, the oven lamp relay (RY06), and the source control relay (RY01).	* Repair or replace loose or disconnected harness. * Replace any malfunctioning relays.
	* Measure the resistance across the light ballast/socket terminals. (Normal : $\infty$ )	* Replace the light ballast/socket. * Replace the PCB.
Convection fan is not rotated.	* Check the harness and harness connector (CN02) on the PCB and at the terminals at each convection motor).	* Reconnect a loose or disconnected harness or replace a damaged harness.
	* Check the membrane control harness and connectors (CN08) on the PCB and touch control panel.	* Reconnect securely or replace a damaged membrane control harness.
	* Check the convection fan relay (RY05) and the connector (CN02) on the PCB.	* Replace the malfunctioning relay. * Replace the PCB.
	* Measure the resistance across the fan motor terminals.	* Replace the burned out fan motor.
The oven smells and/or smokes when it is initially started.	* This is normal.	* The insulation around the oven will give off a slight odor until the adhesive has cured. This should go away after the first couple of oven uses. * The oven is designed to burn off dirt and/or foreign substances. * If the oven is dirty, run a self-cleaning cycle. (See page 53 in the "User Manual".) A ventilation system should be used while the oven is self cleaning.
The LED display is dim or not visible.	* Check the membrane control harness and connectors (CN08) on the PCB and membrane control panel. * LED display is inferior.	* Reconnect securely or replace a damaged membrane control harness. * Replace the PCB assembly. (PCB and membrane control glass panel.)
The buzzer does not beep when a keypad is touched.	* Check to see if the sabbath function has been turned on. * The buzzer does not work on the PCB.	* Press and hold the Sabbath pad for at least 3 seconds. The display will show the time of day when the function is turned off. * Replace the PCB.



## 4. Troubleshooting

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

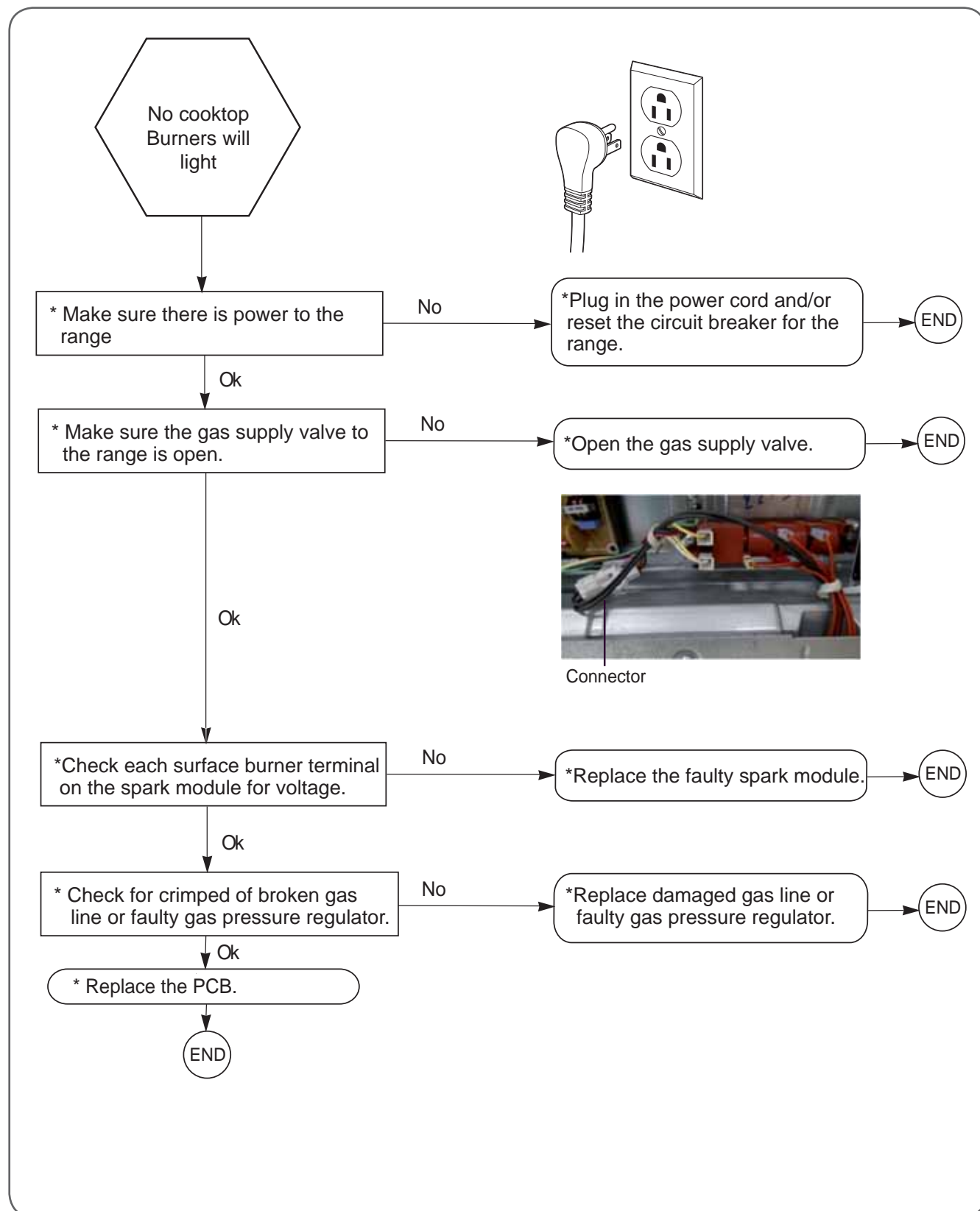
## 4. Troubleshooting

SYMPTOM	DIAGNOSIS	REMEDY																																																								
Cooktop burner flames are soft blue or have yellow tips.	<ul style="list-style-type: none"><li>* This is normal.</li></ul>	<ul style="list-style-type: none"><li>* Soft blue flames are normal flames for NG operation.</li><li>* Soft blue flames with yellow tips are normal flames for LP operation.</li></ul>																																																								
Cooktop burner flames are mostly yellow.	<ul style="list-style-type: none"><li>* Check for proper sized orifices:</li></ul> <table><tr><th colspan="4">NX58H5650WS</th></tr><tr><th colspan="2"></th><th>NG</th><th>LP</th></tr><tr><td>LT FR</td><td>RED</td><td>1.78</td><td>1.04</td></tr><tr><td>LT RR</td><td>GRN</td><td>1.40</td><td>0.83</td></tr><tr><td>CTR</td><td>BLU</td><td>1.38</td><td>0.83</td></tr><tr><td>RT RR</td><td>YEL</td><td>1.01</td><td>0.62</td></tr><tr><td>RT FR</td><td>ORG</td><td>1.92</td><td>1.12</td></tr><tr><th colspan="4">NX58H5600SS, NX58J5600SG</th></tr><tr><th colspan="2"></th><th>NG</th><th>LP</th></tr><tr><td>LT FR</td><td>RED</td><td>1.78</td><td>0.98</td></tr><tr><td>LT RR</td><td>GRN</td><td>1.40</td><td>0.83</td></tr><tr><td>CTR</td><td>BLU</td><td>1.38</td><td>0.83</td></tr><tr><td>RT RR</td><td>YEL</td><td>1.01</td><td>0.62</td></tr><tr><td>RT FR</td><td>NONE</td><td>1.92</td><td>1.06</td></tr></table> <p><b>NOTE:</b> High-altitude orifice kits are available.</p>	NX58H5650WS						NG	LP	LT FR	RED	1.78	1.04	LT RR	GRN	1.40	0.83	CTR	BLU	1.38	0.83	RT RR	YEL	1.01	0.62	RT FR	ORG	1.92	1.12	NX58H5600SS, NX58J5600SG						NG	LP	LT FR	RED	1.78	0.98	LT RR	GRN	1.40	0.83	CTR	BLU	1.38	0.83	RT RR	YEL	1.01	0.62	RT FR	NONE	1.92	1.06	<ul style="list-style-type: none"><li>* Replace any wrong sized orifices.</li></ul>
	NX58H5650WS																																																									
			NG	LP																																																						
	LT FR	RED	1.78	1.04																																																						
	LT RR	GRN	1.40	0.83																																																						
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	RT RR	YEL	1.01	0.62																																																						
	RT FR	NONE	1.92	1.06																																																						
	<ul style="list-style-type: none"><li>* Check for crimped or cracked gas line between the pressure gas regulator and the surface burner control manifold.</li></ul>	<ul style="list-style-type: none"><li>* Replace the damaged gas line.</li></ul>																																																								
	<ul style="list-style-type: none"><li>* Faulty gas pressure regulator.</li></ul>	<ul style="list-style-type: none"><li>* Replace the gas pressure regulator.</li></ul>																																																								

## 4. Troubleshooting

### 4-2 Cooktop Malfunction

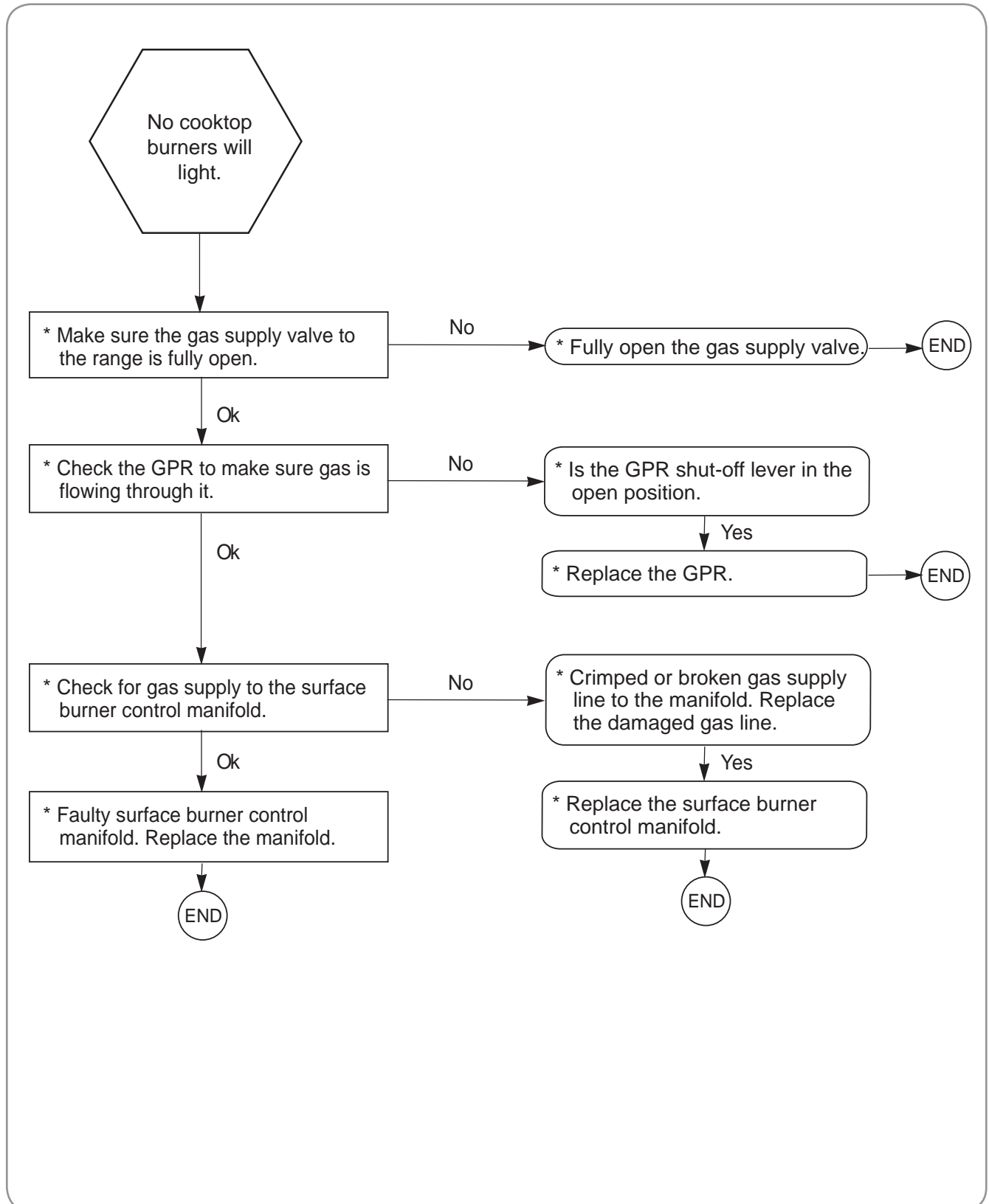
No cooktop burners will light (Electrical)



## 4. Troubleshooting

### 4-2 Cooktop Malfunction

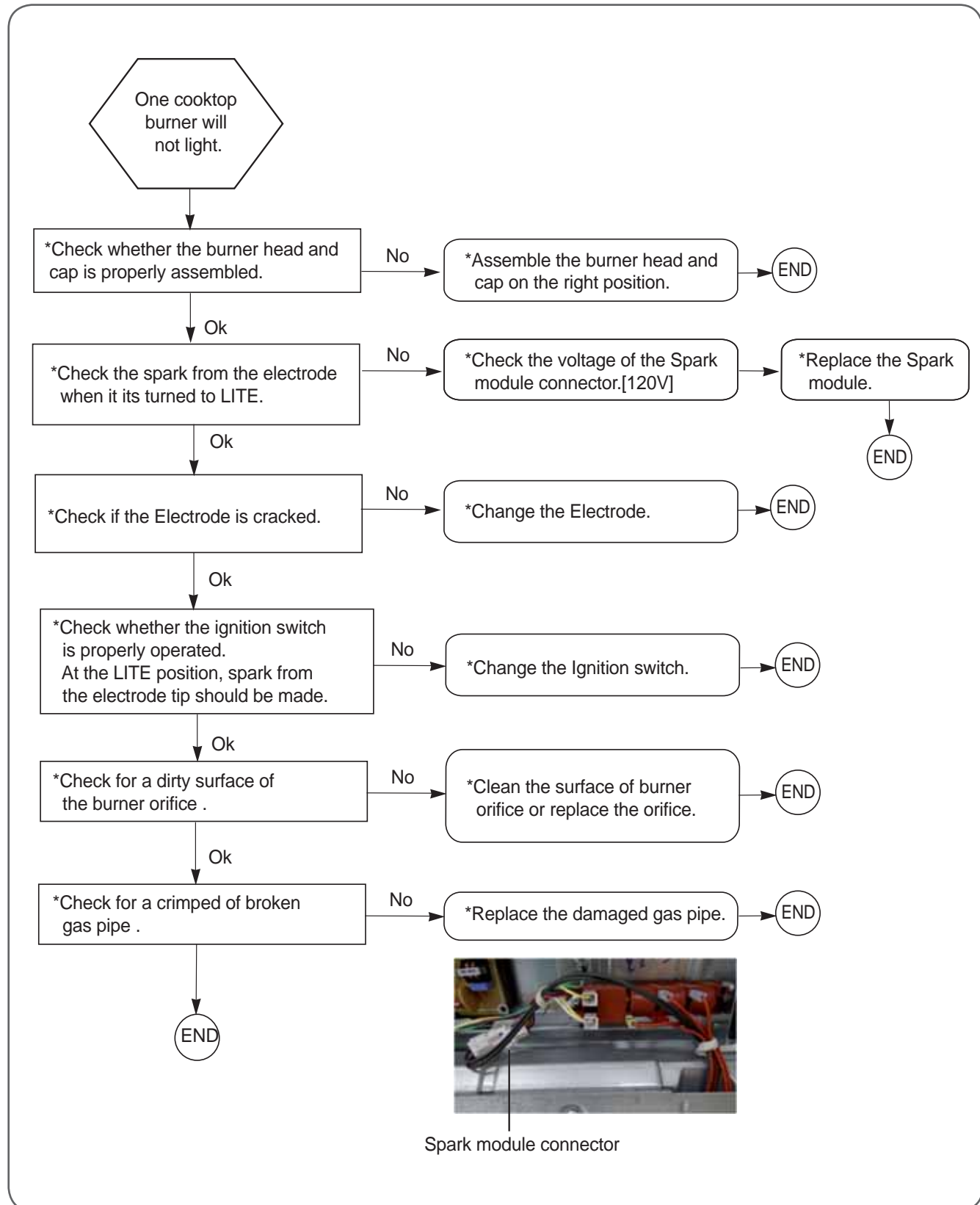
No cooktop burners will light (Gas)



## 4. Troubleshooting

### 4-2 Cooktop Malfunction

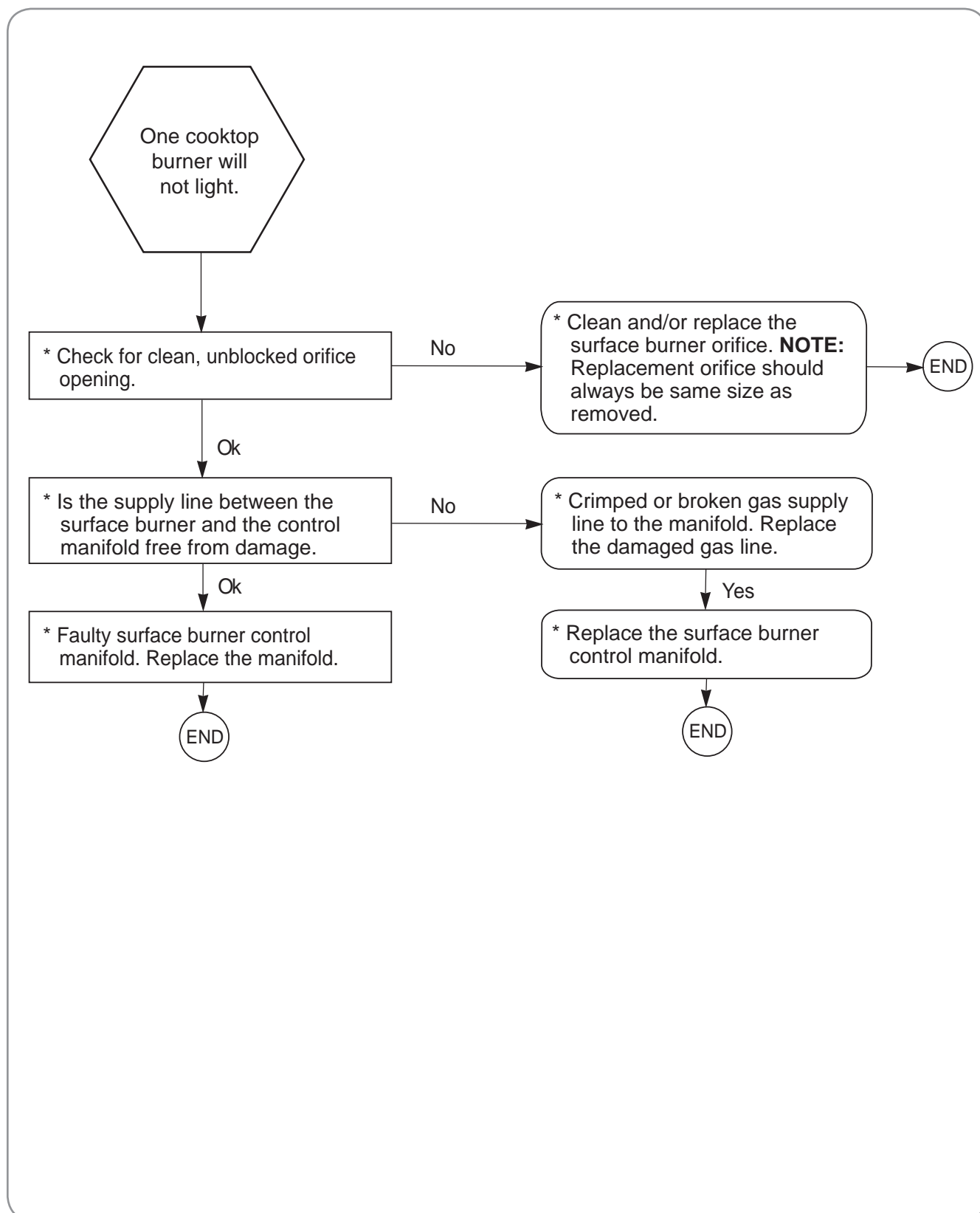
One cooktop burners will light (Electrical)



## 4. Troubleshooting

### 4-2 Cooktop Malfunction

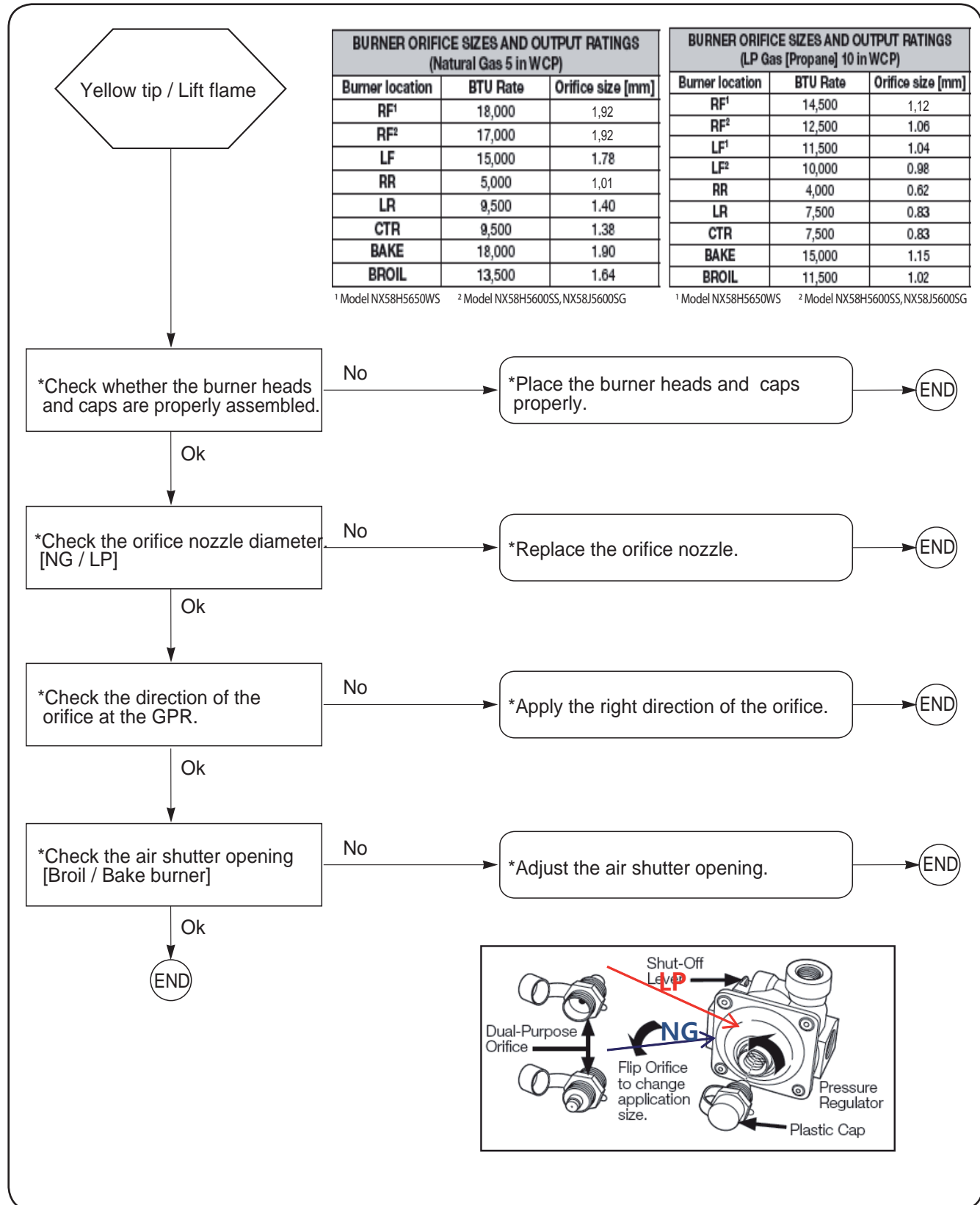
One cooktop burners will not light (Gas)



## 4. Troubleshooting

### 4-2 Cooktop Malfunction

The flame looks abnormal (Gas)

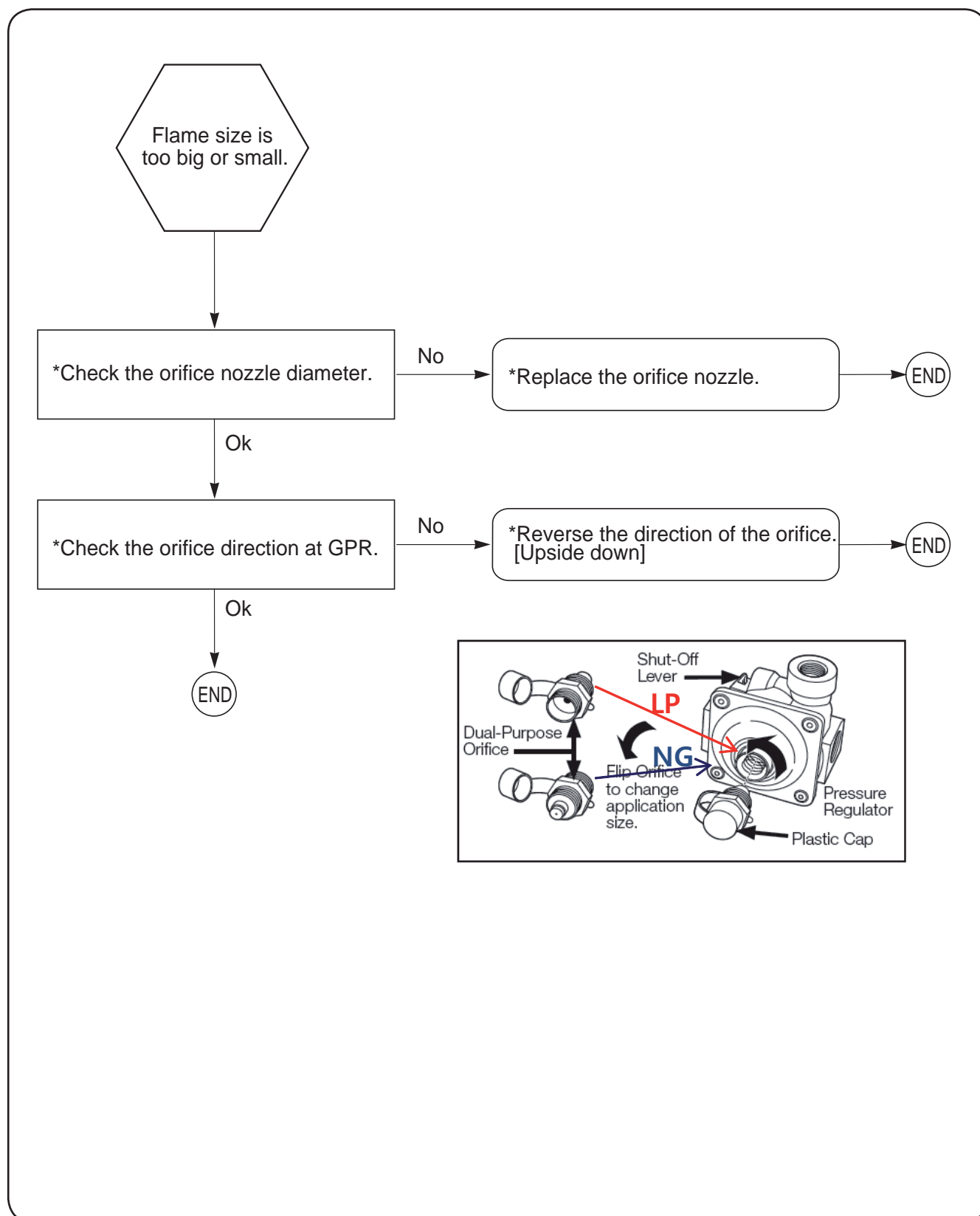




## 4. Troubleshooting

### 4-2 Cooktop Malfunction

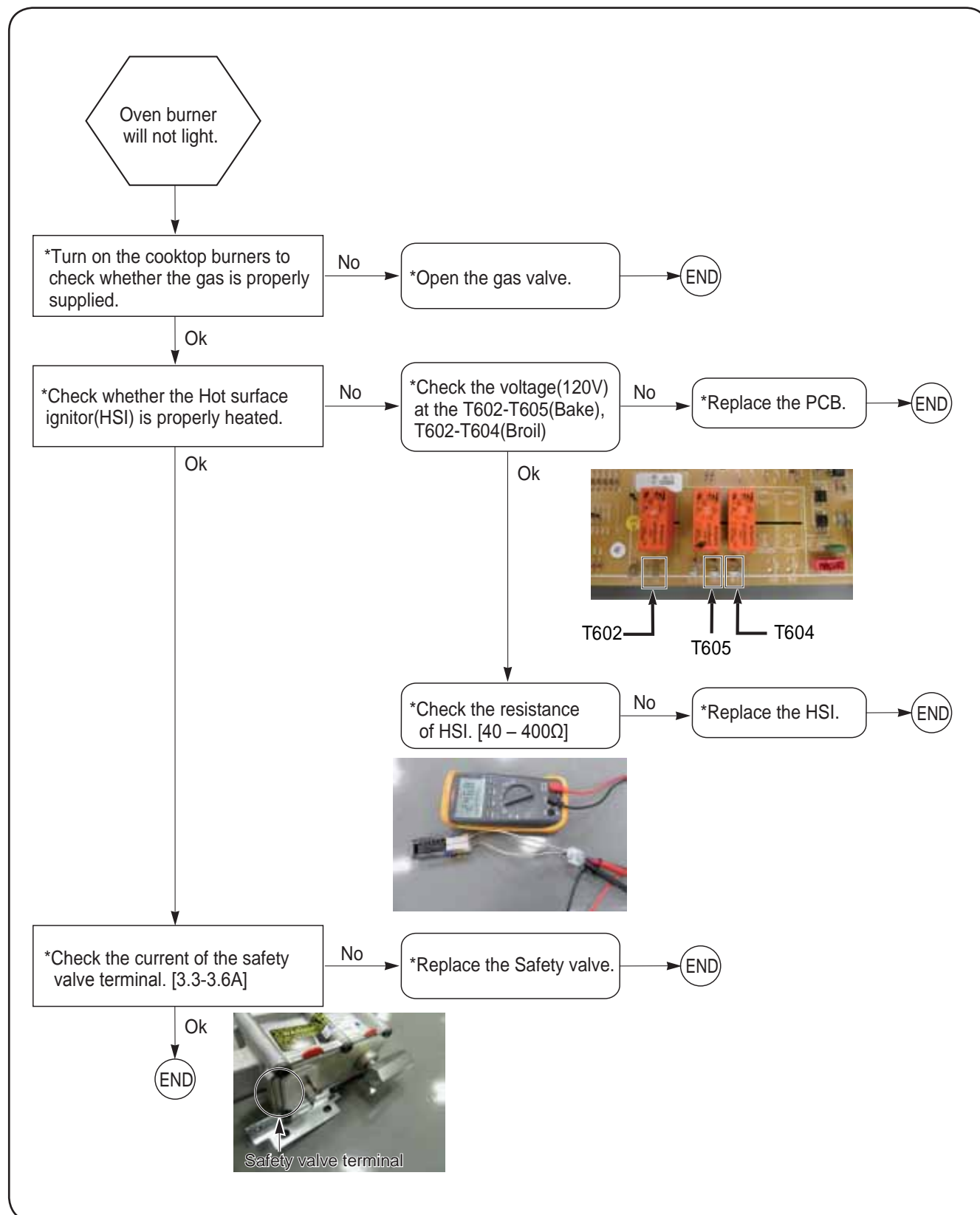
Flame size is too big or small(Gas)



## 4. Troubleshooting

### 4-3 Oven Malfunction

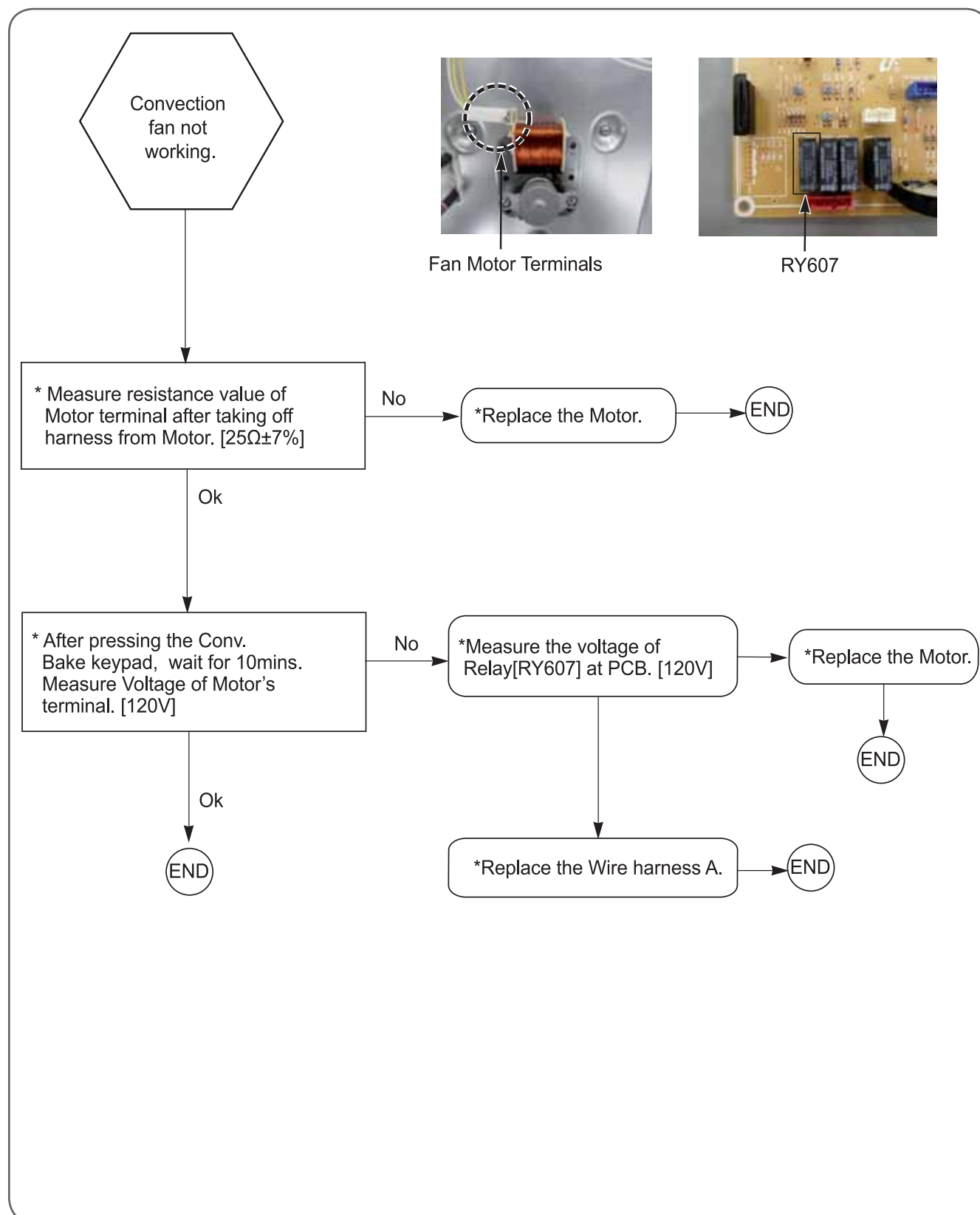
Oven burner will not light [Broil / Bake burner] (Electrical)



## 4. Troubleshooting

### 4-3 Oven Malfunction

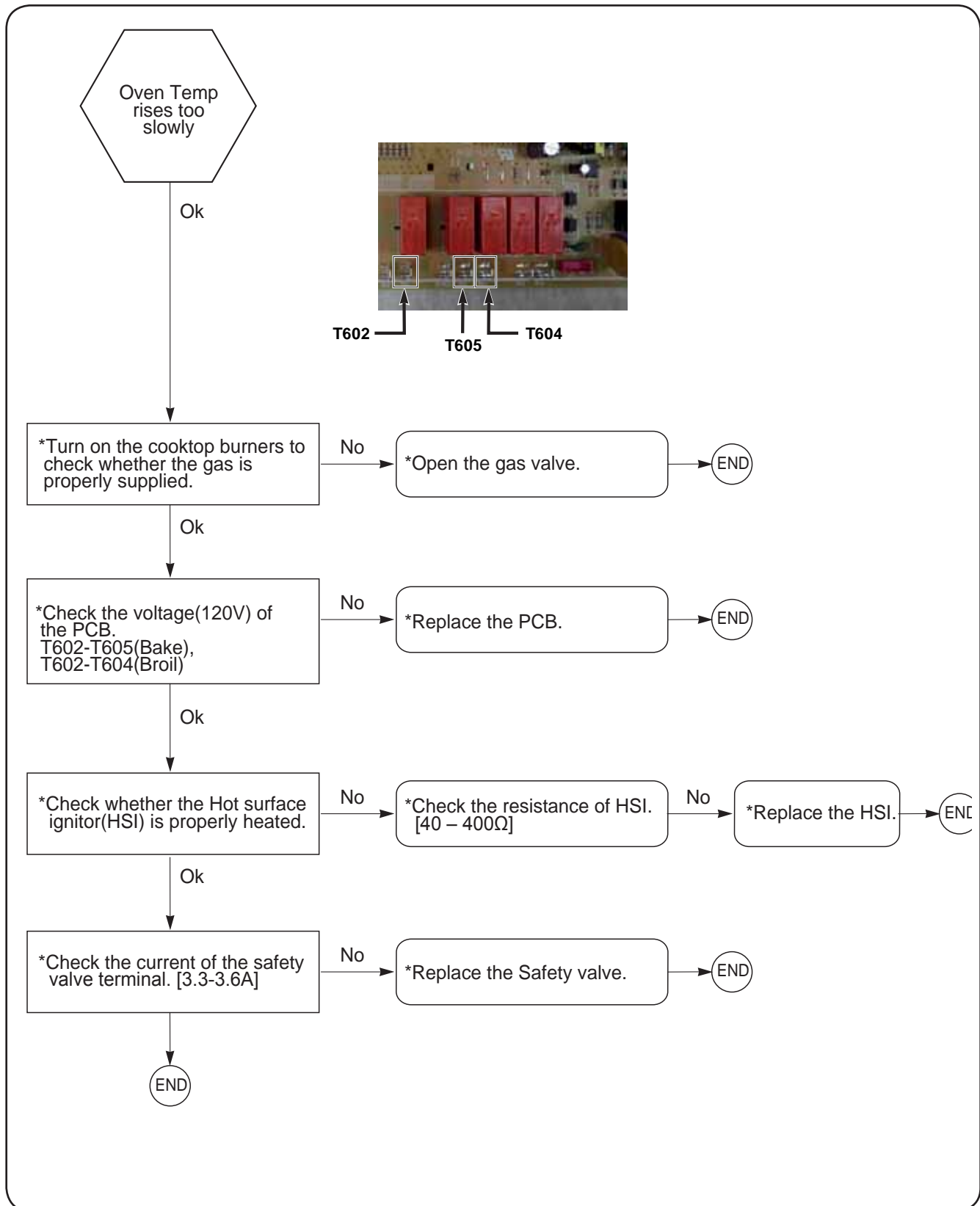
#### Convection fan not working (Electrical)



## 4. Troubleshooting

### 4-3 Oven Malfunction

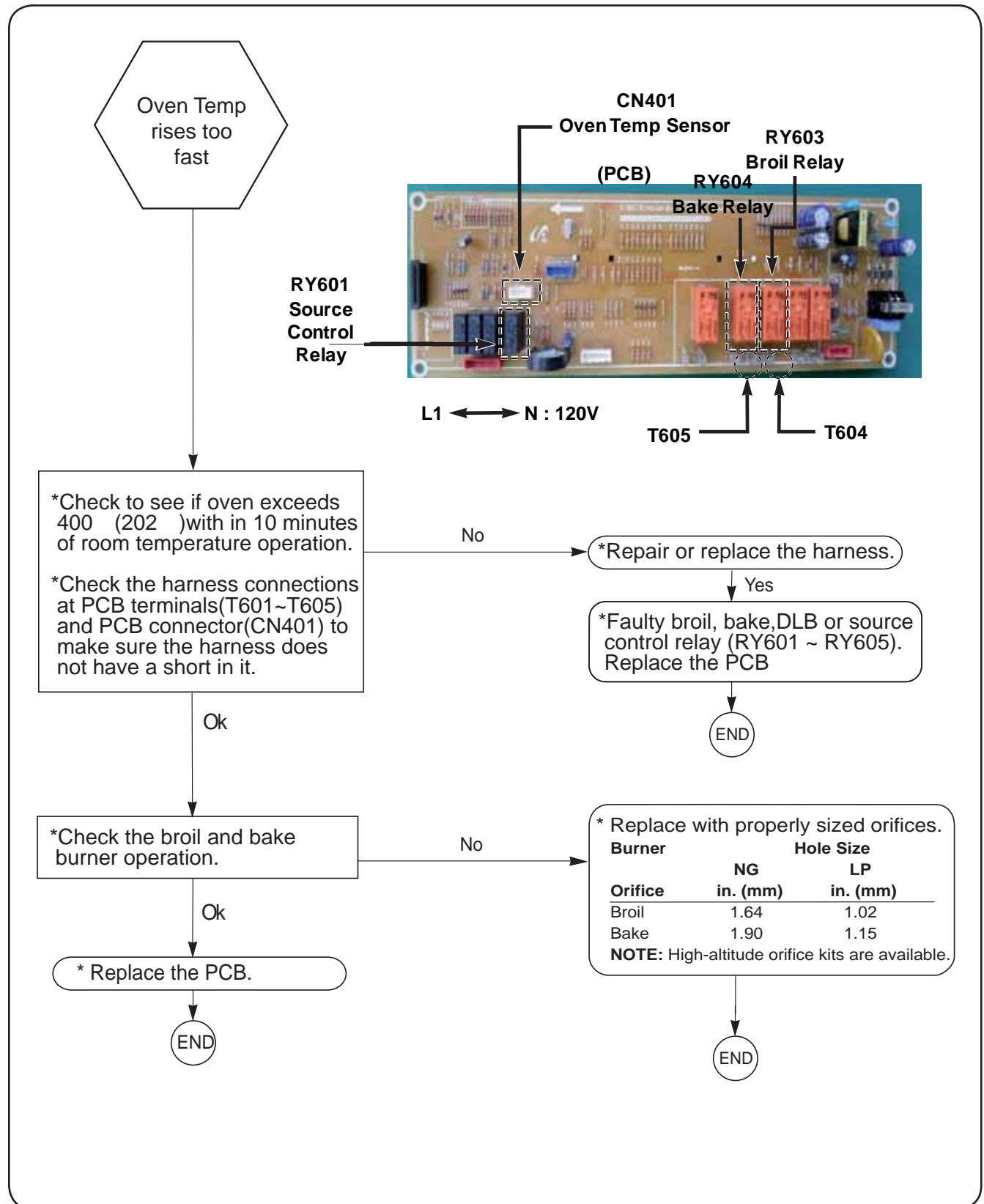
Oven temperature rises too slowly (Electrical)



## 4. Troubleshooting

### 4-3 Oven Malfunction

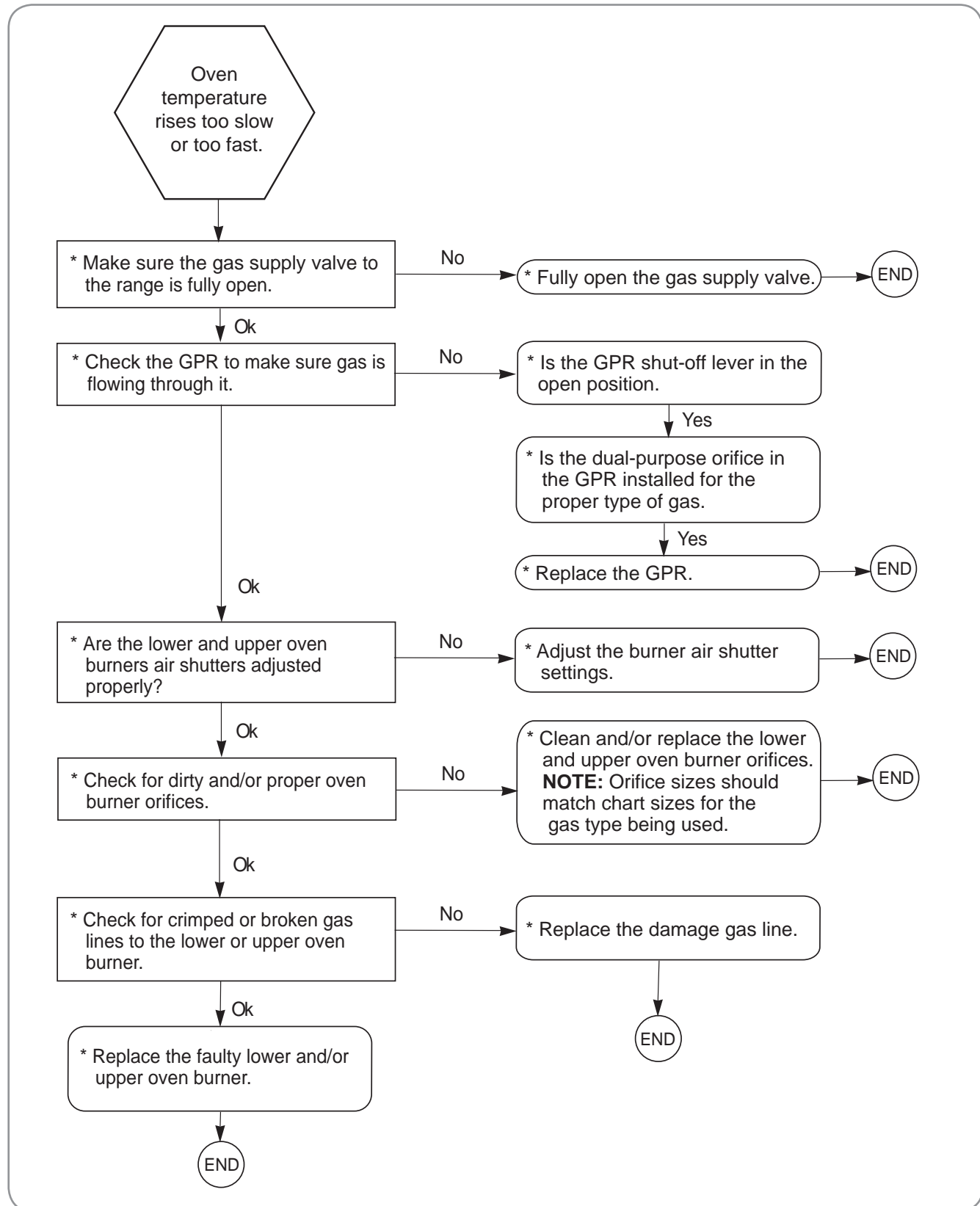
Oven temperature rises too fast (Electrical)



## 4. Troubleshooting

### 4-3 Oven Malfunction

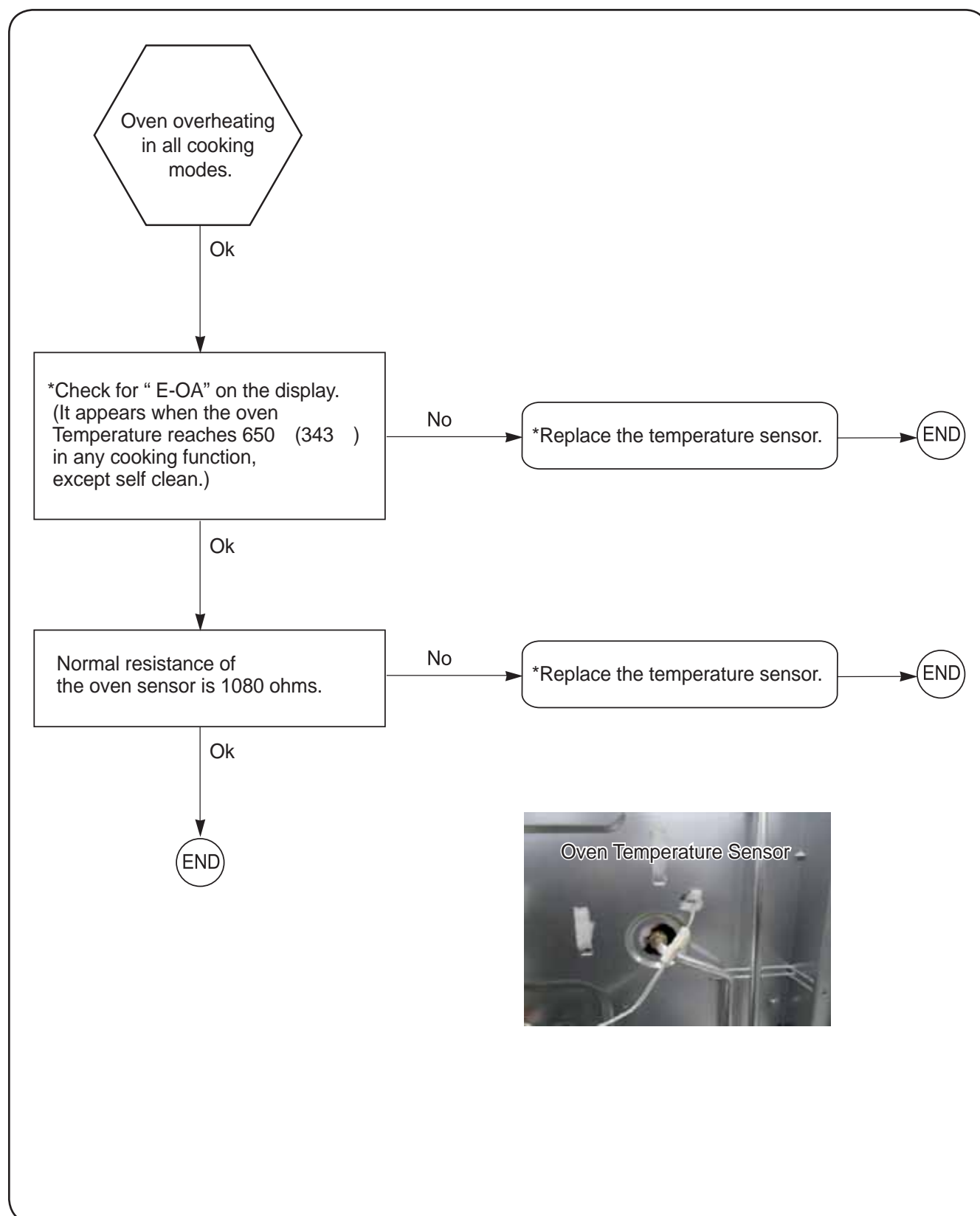
Oven temperature rises too slow or too fast (Gas)



## 4. Troubleshooting

### 4-3 Oven Malfunction

Oven overheating in all cooking modes (Electrical)

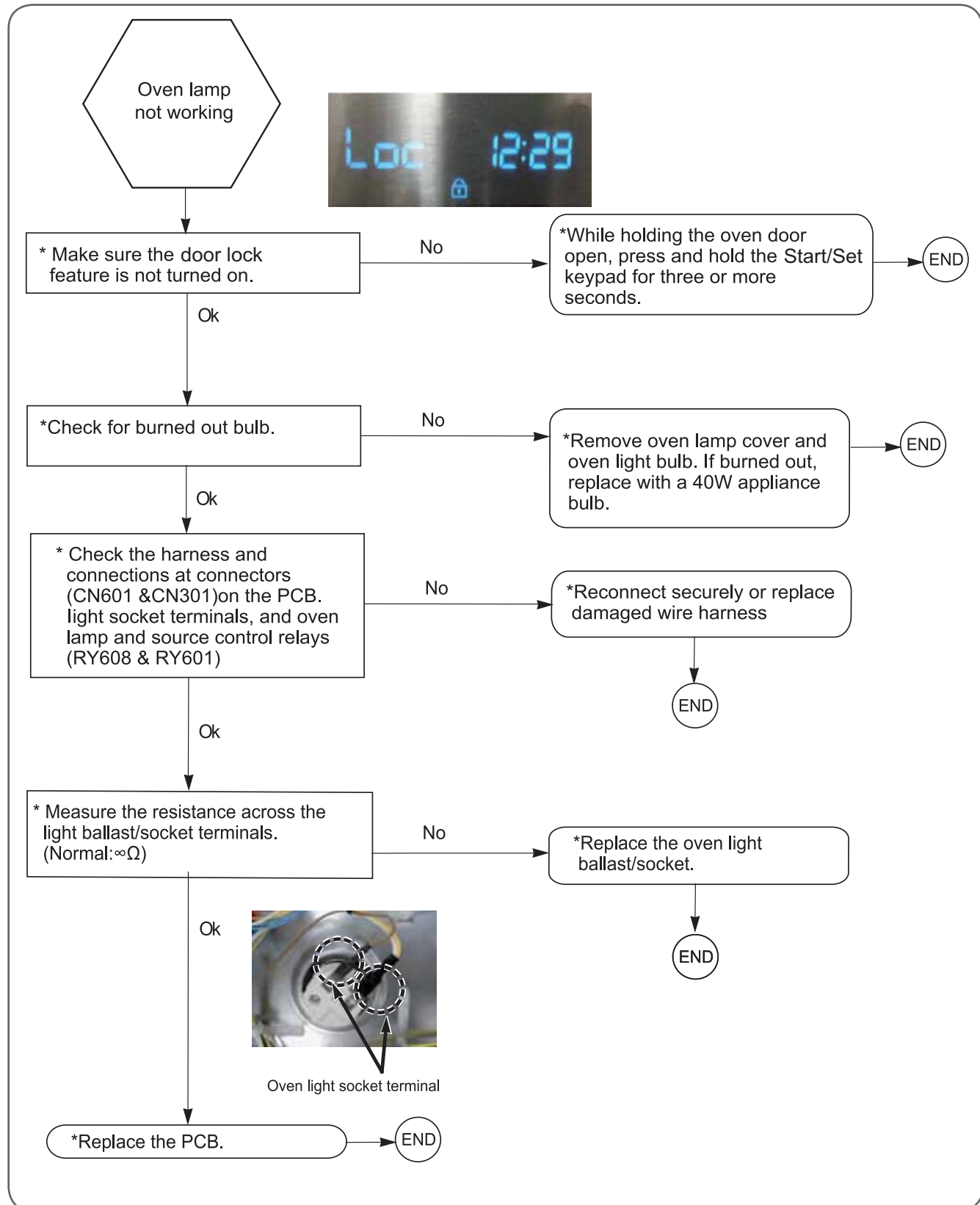




## 4. Troubleshooting

### 4-3 Oven Malfunction

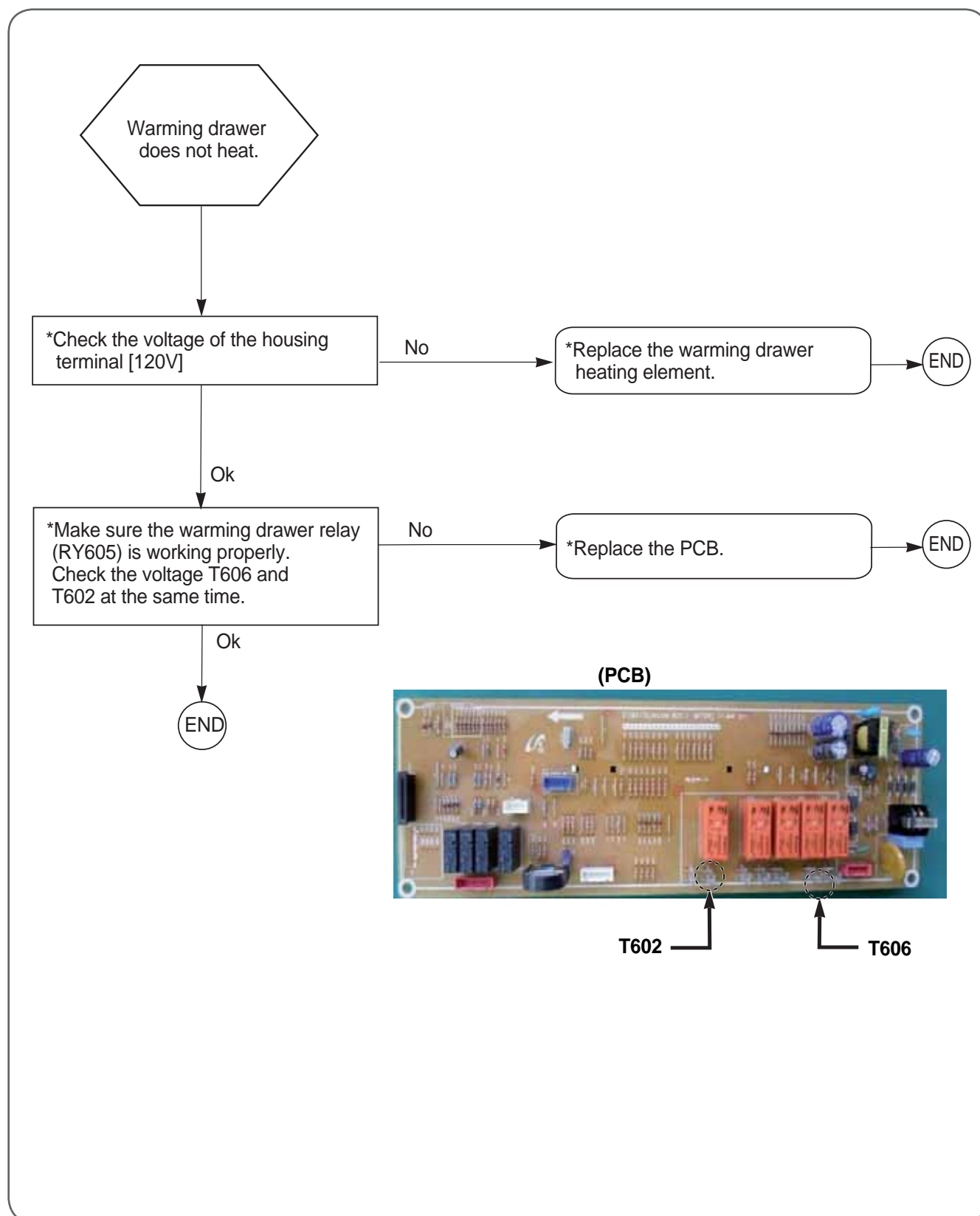
#### Oven lamp not working (Electrical)



## 4. Troubleshooting

### 4-4 Warming drawer Malfunction

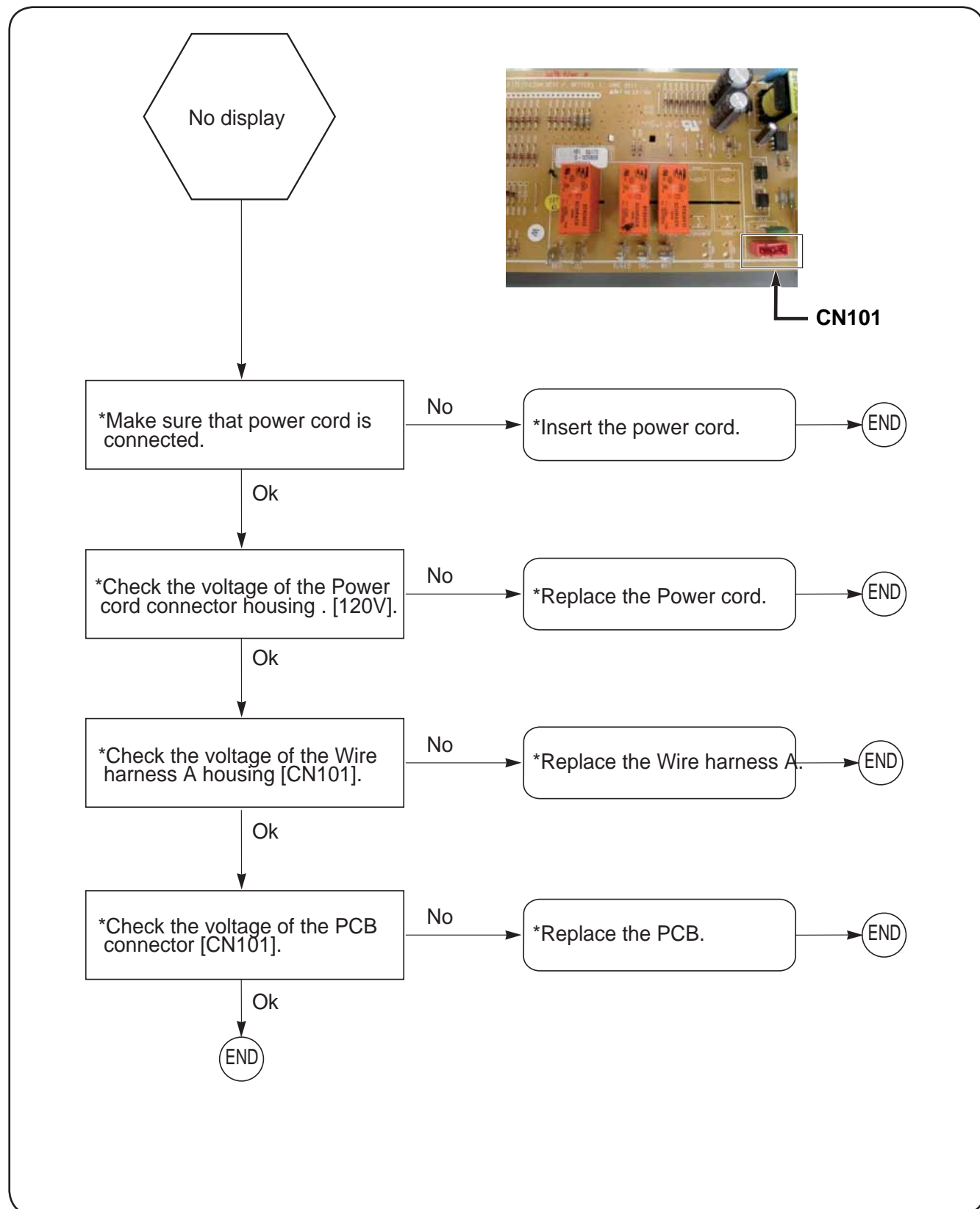
Warming drawer not heating (Electrical)



## 4. Troubleshooting

### 4-5 Control Malfunction

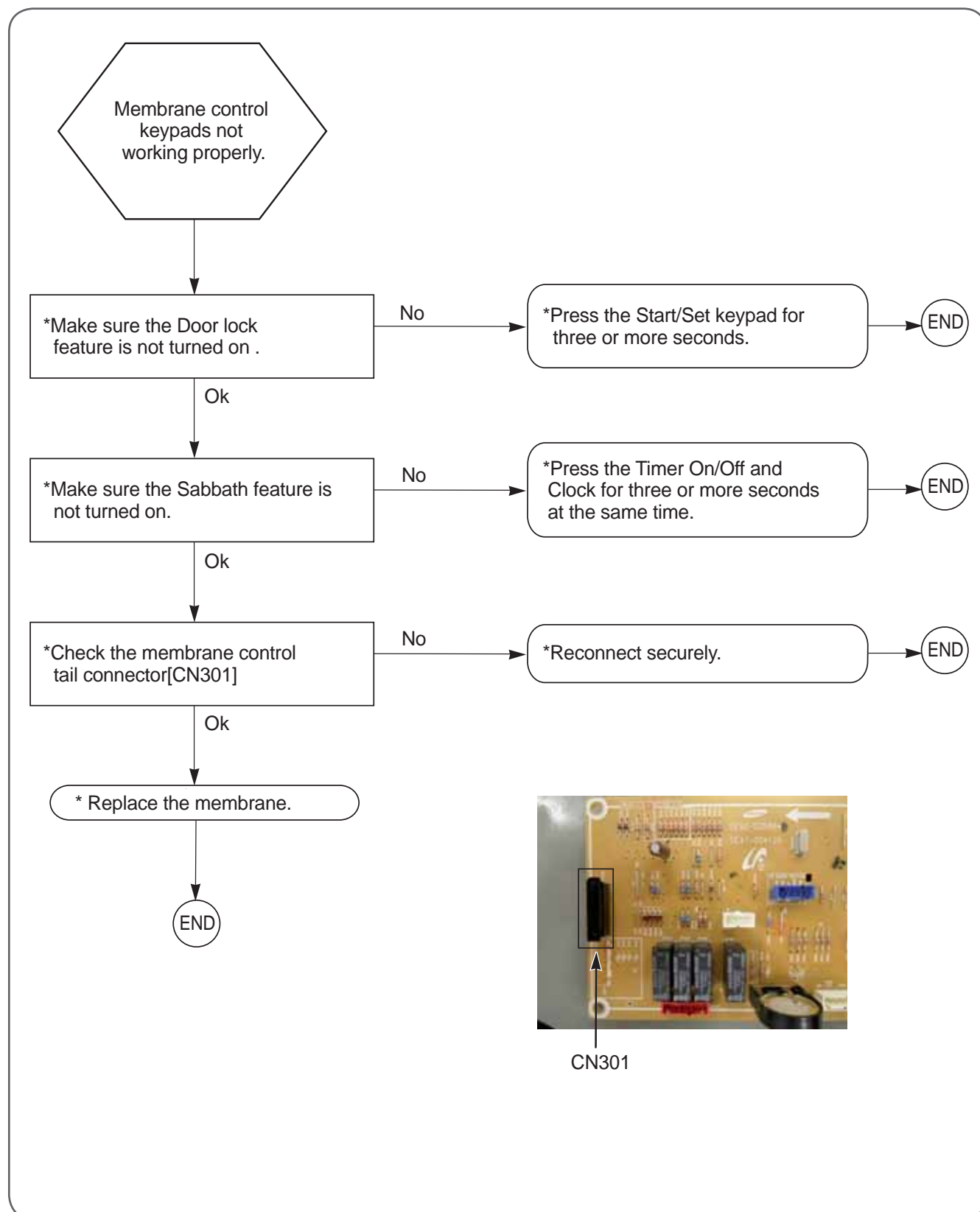
#### No display (Electrical)



## 4. Troubleshooting

### 4-5 Control Malfunction

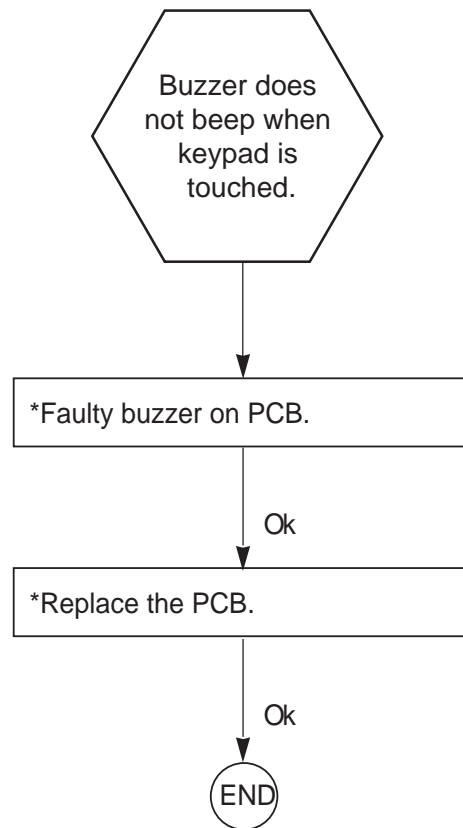
Membrane keypads not working properly (Electrical)



## 4. Troubleshooting

### 4-5 Control Malfunction

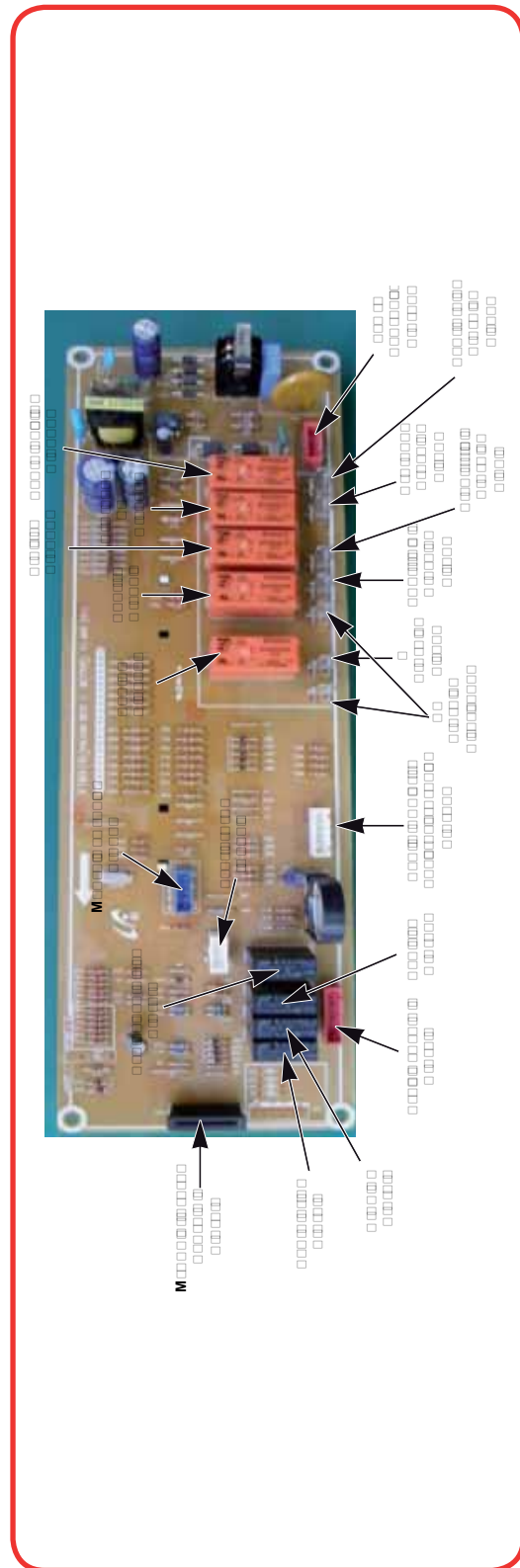
Buzzer does not beep when keypad is touched (Electrical)



## 5. PCB Diagrams

### 5-1 PCB Diagram, NX58H5650WS (Main)

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

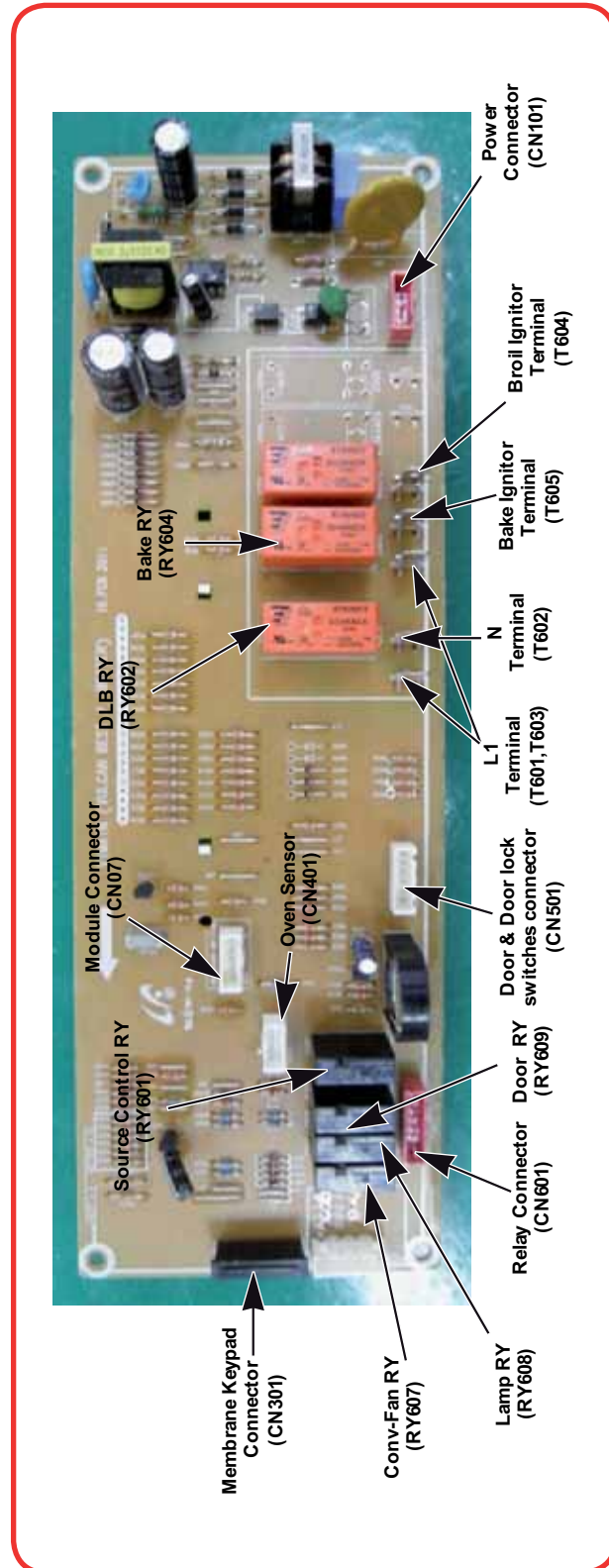


NO.	PART NO.	PART NAME	FUNCTION AND RULE
1	CN101	Power Connector	This is the connector that supplies 120VAC(L1~N)
2	CN301	Membrane Keypad Connector	This is the connector that connects the Membrane tail to the PCB.
3	CN401	Oven Sensor	This is the connector that connects the oven temperature sensor to the PCB.
4	CN501	Door & Door lock switches connector	This is the connector that connects the door switch with the door lock switch.
5	CN601	Relay Connector	This is the connector that connects the control relay with the oven lamp, and the door lock motor.
6	RY601	Source Control RY	This is the relay that is the control source of DLB, Bake, Broil, W/Drawer and Conv relays.
7	RY602	DLB RY	Circuit is designed to have bake, broil, W/Drawer and Conv relay worked after DLB relay is being worked by Double line break.
8	RY603	Broil RY	This is the relay that controls the broil ignitor operation.
9	RY604	Bake RY	This is the relay that controls the bake ignitor operation.
10	RY605	W/Drawer RY	This is the relay that controls the Warming drawer heater operation.
11	RY606	Conv Heater RY	This is the relay that controls the Conv heater operation.
12	RY607	Conv-Fan RY	This is the relay that controls the operation of the convection fan motors.
13	RY608	Lamp RY	This is the relay that controls the oven lamp operation
14	RY609	Door RY	This is the relay that controls the operation of door lock motor.
15	T601	L1 Terminal	This is terminal that supplies L1 Voltage(120VAC) to PCB
16	T602	N Terminal	This is terminal that supplies N Voltage to PCB
17	T603	L1 Terminal	This is terminal that supplies L1 Voltage(120VAC) to PCB
18	T604	Broil Ignitor Terminal	This is terminal connects the broil ignitor to the broil relay.
19	T605	Bake Ignitor Terminal	This is terminal connects the bake ignitor to the bake relay.
20	T606	W/Drawer Terminal	This is terminal connects the w/drawer heating element to w/drawer relay.
21	T607	Conv heater Terminal	This is terminal connects the Conv heating element to Conv relay.

## 5. PCB Diagrams

### 5-2 PCB Diagram, NX58H5600SS, NX58J5600SG (Main)

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



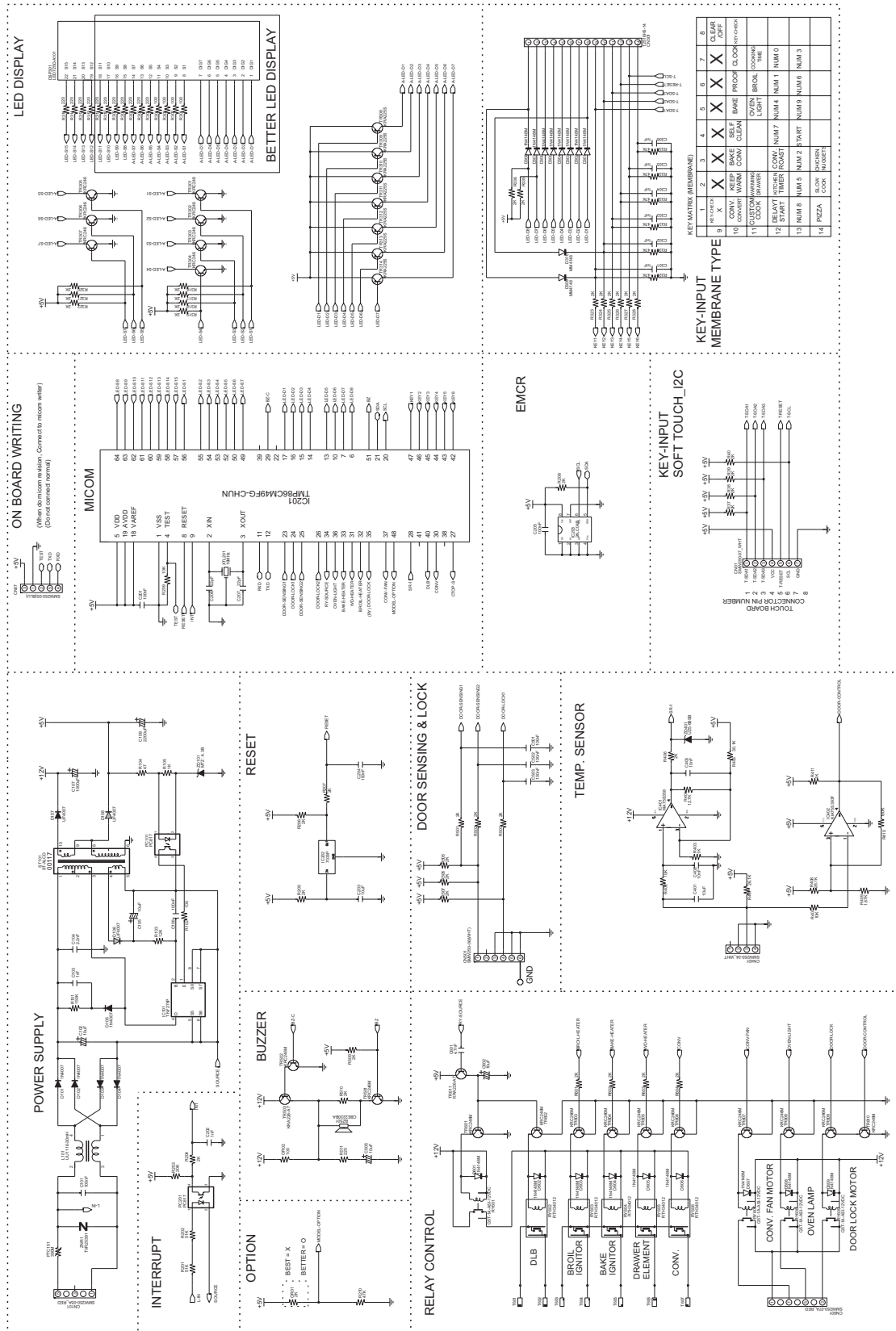
NO.	PART NO.	PART NAME	FUNCTION AND RULE
1	CN101	Power Connector	This is the connector that supplies 120VAC(L1~N)
2	CN301	Membrane Keypad Connector	This is the connector that connects the Membrane tail to the PCB.
3	CN401	Oven Sensor	This is the connector that connects the oven temperature sensor to the PCB.
4	CN501	Door & Door lock switches connector	This is the connector that connects the door switch with the door lock switch.
5	CN601	Relay Connector	This is the connector that connects the control relay with the oven lamp, and the door lock motor.
6	RY601	Source Control RY	This is the relay that is the control source of DLB, Bake, Broil relays.
7	RY602	DLB RY	Circuit is designed to have bake, broil relay worked after DLB relay is being worked by Double line break.
8	RY603	Broil RY	This is the relay that controls the broil ignitor operation.
9	RY604	Bake RY	This is the relay that controls the bake ignitor operation.
10	RY607	Conv-Fan RY	This is the relay that controls the operation of the convection fan motors.
11	RY608	Lamp RY	This is the relay that controls the oven lamp operation
12	RY609	Door RY	This is the relay that controls the operation of door lock motor.
13	T601	L1 Terminal	This is terminal that supplies L1 Voltage(120VAC) to PCB
14	T602	N Terminal	This is terminal that supplies N Voltage to PCB
15	T603	L1 Terminal	This is terminal that supplies L1 Voltage(120VAC) to PCB
16	T604	Broil Ignitor Terminal	This is terminal connects the broil ignitor to the broil relay.
17	T605	Bake Ignitor Terminal	This is terminal connects the bake ignitor to the bake relay.



# 6. Wiring Diagram

## 6-1 Wiring Diagram

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







### **GSPN (GLOBAL SERVICE PARTNER NETWORK)**

Area	Web Site
Europe, CIS, Mideast & Africa	<a href="http://gspn1.samsungcsportal.com">gspn1.samsungcsportal.com</a>
Asia	<a href="http://gspn2.samsungcsportal.com">gspn2.samsungcsportal.com</a>
North & Latin America	<a href="http://gspn3.samsungcsportal.com">gspn3.samsungcsportal.com</a>
China	<a href="http://china.samsungportal.com">china.samsungportal.com</a>