## SAMSUNG

# **SLIDE IN RANGE**

BASIC:NE58H9970WSMODEL:NE58\*9560W\*MODEL CODE:NE58N9560WS/AC

# SERVICE Manual

### **SLIDE IN RANGE**



### CONTENTS

- 1. Precaution
- 2. Product Specification
- 3. Disassembly and Reassembly
- 4. Troubleshooting
- 5. PCB Diagrams
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Refer to the service manual in the GSPN(see rear cover) for the more information.

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### 1. Precaution

#### 1-1 Forward

This SAMSUNG Service Manual, " 30" Slide In Self-Cleaning Electric Range," provides the technician with information on the operation and service of the Slide In Self-Cleaning Electric Range. It is to be used as a training Service Manual. For specific information on the model being serviced, refer to the "Owner's Manual" or "Tech Sheet" provided with the electric range.

#### **1-2 Safety Precautions**

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

### WARNING

- To avoid risk of severe personal injury or death, disconnect power before working/servicing on appliance to avoid electrical shock.
- When the oven operates, the interior parts will be very hot.

SAMSUNG Electronics assumes no responsibility for any repairs made on our products by anyone other than Authorized Service Technicians.

### 1. Precaution

#### **1-3 Important Safety Instructions**

Read and follow all instructions before using your oven to prevent the risk of fire, electric shock, injury to person, or damage when using the range. This guide doesn't cover all possible conditions that may occur. For further assistance contact your service agent or manufacturer.

### WARNING

This symbol will help alert you to hazards or unsafe practices which could cause serious bodily harm or death.

- Be sure your appliance is properly installed and grounded by a qualified 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 qualified technician.
- Always disconnect power to appliance before servicing by removing the fuse or switching off the circuit breaker

#### WARNING

RANGE

- INJURIES CAN OCCUR IF THE RANGE TIPS - INSTALL ANTI-TIP DEVICE PACKED WITH

- FOLLOW ALL INSTALLATION INSTRUCTIONS

To reduce the risk of tipping of the range, the range must be secured by properly installed anti-tip devices. 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 devices are engaged.
- Storage drawer : Remove drawer and verify leveling leg is inserted into and fully secured by the anti-tip devices.

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 HEATING ELEMENTS OR INTERIOR SURFACES OF OVEN – Heating elements 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 heating elements 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.



Do not store items of interest to children in cabinets above a range or on the back guard 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 area where 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 oven to avoid spreading the flame. Smother the fire or flame by closing the door or use dry chemical, baking soda or foam- type extinguisher.
- Use Only Dry Potholders Moist or damp potholders on hot surfaces may result in burns from steam. Do not let potholder touch hot heating elements. Do not use a towel or other bulky cloth.

### WARNING

#### SURFACES

• DO NOT TOUCH SURFACE UNITS OR AREAS NEAR UNITS – Surface units may be hot even though they are dark in color. Areas near surface units may become hot enough to cause burns. During and after use, do not touch, or let clothing or other flammable materials contact surface units or areas near units until they have had sufficient time to cool. Among these areas are the cooktop and surfaces close to the cook-top.

### WARNING

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

#### SURFACE COOKING UNITS

- Use Proper Pan Size This appliance is equipped with one or more surface units of different sizes. Select utensils having flat bottoms large enough to cover the surface unit heating element. The use of undersized utensils will expose a portion of the heating element to direct contact and may result in ignition of clothing. Proper relationship of utensil to burner will also improve efficiency.
- Never Leave Surface Units Unattended at High Heat Settings – Boil overs may cause smoking and greasy spillovers may ignite.
- 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 Units – 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 units.
- Be sure you know which burner switch operates each surface unit. Make sure you turned on the correct surface unit.

#### **SELF-CLEAN OVENS**

- **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.
- Clean in the self-clean cycle only parts listed in this manual. Before self-cleaning the oven, remove the broiler pan and any utensils from 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 well-ventilated room.
- Important Instruction In the event the self-clean mode "F" code goes on, or three long beeps sound, oven is malfunctioning in the self-clean mode. Turn off or disconnect appliance from power supply and have serviced by a qualified technician.

#### **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.

#### OVEN

- 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 in the front above the oven door and under the cook top. 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 desired location while oven is cool. If rack must be moved while oven is hot, do not let potholder contact hot heating element in oven.
- **Do Not** allow aluminum foil or meat probe to contact heating elements.

#### **GLASS/CERAMIC COOKING SURFACES**

- **Do Not Cook on Broken Cook-Top** If cook top should break, cleaning solutions and spillovers may penetrate the broken cook top and create a risk of electric shock. Contact a qualified technician immediately.
- Clean Cook Top With Caution If a wet sponge or cloth is used to wipe spills on a hot cooking area, be careful to avoid steam burn. Some cleaners can produce noxious fumes if applied to a hot surface.

#### **DEEP FAT FRYERS:**

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

### 1. Precaution

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

This Model / Serial Number label and Tech Sheet locations are shown below.



### 2. Specifications

### 2-1 Features

Features		
Steam Cleaning   Casual clean without any smell   More frequently   - Samsung : Pyrolitic + Steam Clean   - Competitors : Pyrolitic	Biggest Capacity Cooks large holiday meals Turkey 24lbs = 4.4 cu.ft - Samsung : 5.8 cu.ft	
Fe	atures	
Item	Steam Clean	
<ul> <li>Pour the water 10oz (+detergent)</li> <li>Push the steam cleaning button</li> <li>After finished steam clean feature, the oven will be shut off automatically in half a minute.</li> <li>Wipe it out with wet cloths.</li> </ul>		
Operating (Temperature)	About 158°F	
Operating Time	20 Minutes	
Used Heater	Bottom Bake Heater	
Smell	No smell	
Tool to clean	Wet cloths	
Big Capacity		

- It benefits consumers to cook large family meals during the Thanksgiving & Christmas seasons
  - ( i.e Turkey 25 lbs = 4.4 cu ft, 20 lbs = 3.5 cu.ft)

### 2. Specifications

### 2-2 Table of Specifications

140 mm		Model		
	Items	BASIC MODEL	NEW MODEL	
Model Name		NE58H9970WS	NE58*9560W*	
Category		Convection	Convection	
	Width	30"	30"	
Overall	Installation type	Slide in	Slide in	
	Color availability	STS	STS/BSS	
	Oven	Touch	Touch	
	Cooktop	Knob	Knob	
Control	Display	VFD	LED	
Control	Electronic clock	Yes	Yes	
	Control lock capability	Yes	Yes	
	Audible preheat signal	Yes	Yes	
Cooktop	Meterial	Ceramic glass	Ceramic glass	
COOKIOP	# of element	4	4	
	LR	7" - 1,800/2,300W	7" - 1,800/2,300W	
	RR	6" - 1,200/2,000W	6" - 1,200/2,000W	
Power	CR	-	-	
	LF	7" - 1,800/2,300W	7" - 1,800/2,300W	
	RF	11" - 2,400/3,300W	11" - 2,400/3,300W	
	Capacity(cu.ft)	5.8	5.8	
	Broil element	4,200 watts	4,200 watts	
	Bake element	3,000 watts	3,000 watts	
Over	Convection System	Yes	Yes	
Oven	Convection element	Yes(1,250W / 240V)	Yes(1,250W / 240V)	
	# of Racks	3	3	
	Interior oven light	120V, 40 watts	120V, 40 watts	
	Cleaning	Pyrolytic & steam	Pyrolytic & steam	
	Туре	Warming drawer	Warming drawer	
Drawer	Element	600W	600W	
	Warming rack	No	No	
	Oven interior (W x H x D)	25 x 21 1/8 x 19	25 x 21 1/8 x 19	
	Exterior - Width	31 (Cook top) : 787mm 29 4/5 (Body) : 757mm	31 (Cook top) : 787mm 29 4/5 (Body) : 757mm	
Dimensions	Exterior - Height	36 (cook top) : 913mm	36 (cook top) : 913mm	
(inch)	Exterior - Depth	26 3/10 (Door) : 667.7mm 28 3/5 (with handle) : 727.7mm	26 3/10 (Door) : 667.7mm 28 3/5 (with handle) : 727.7mm	
	Net weight : Kg	105Kg	100Kg	
Power	Rating(240V 60Hz)	Range : 6,300 W Cooktop : 7,100 W	Range : 5,200 W Cooktop : 7,100 W	

### 2. Specifications

### 2-3 Accessory

ltem	Description	Code No.	Q'ty
	RACK-FLAT	DG67-00108A	2
	RACK WIRE-BOTTOM	DG75-01056A	1

### WARNING

#### ELECTRICAL SHOCK HAZARD

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

### 3-1 Removing the Assy-Frame Cooktop

ltem	How to use	Pictures
Screw driver	Use for assembly and disassembly of all screws	
Tubing Wrench	Use for assembly and disassembly of tubing to the burner cup	78
7mm Vox Driver	Use for assembly and disassembly of injector nozzles. (Cooktop/Broil/Bake burner)	
9mm Vox Driver	Use for assembly and disassembly of injector nozzles. (Convection Fan)	

### 3-2 Removing Cover-Back Main Wire

### PRECAUTION

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

Parts	Explanation Photo	Explanation
Cover-Back Main wire	Cover-Back Main Wire	<ol> <li>Turn off the electrical supply going to the range.</li> <li>Pull the range away from the wall so that you can access the rear panel.</li> <li>Remove the 9 screws from the Cover-Back Main Wire and remove the panel.</li> </ol>

### 3-3 Removing PCB-Main

### WARNING

#### ELECTRICAL SHOCK HAZARD

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### PRECAUTION

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

Parts	Explanation Photo	Explanation
PCB Main	PCB-Main	<ol> <li>Turn off the electrical supply going to the range.</li> <li>Pull the range away from the wall so that you can access the rear panel.</li> <li>Remove cover-back main wire. (See step 3 on page 10)</li> <li>There is 1 PCB (printed circuit board) on the rear of the range.</li> </ol>

### 3-4 Removing Sub PCB

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WARNING

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



### PRECAUTION

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

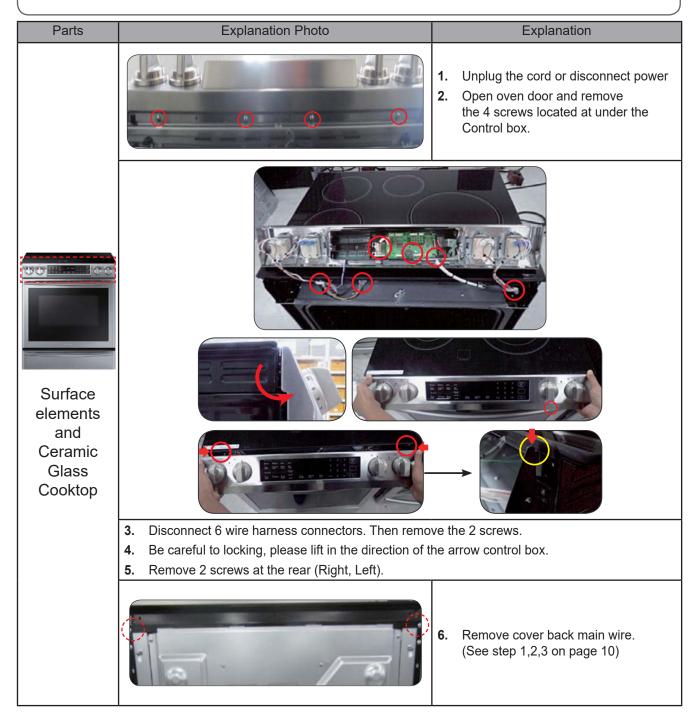
Parts	Explanation Photo	Explanation
		<ol> <li>Turn off the electrical supply going to the range.</li> <li>Remove 4 screws under the control box. (See step 1,2 on page 13)</li> <li>Remove connector on SUB PCB.</li> </ol>
Sub PCB		<b>4.</b> Remove 2 screws.

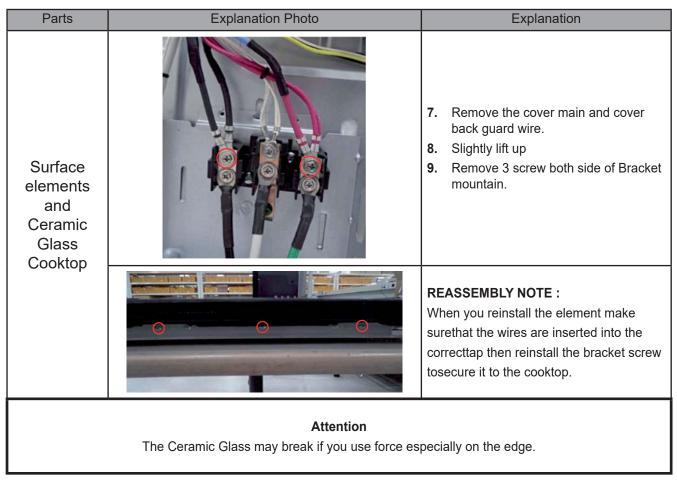
### 3-5 Removing Surface elements and The Ceramic Glass Cooktop

### WARNING

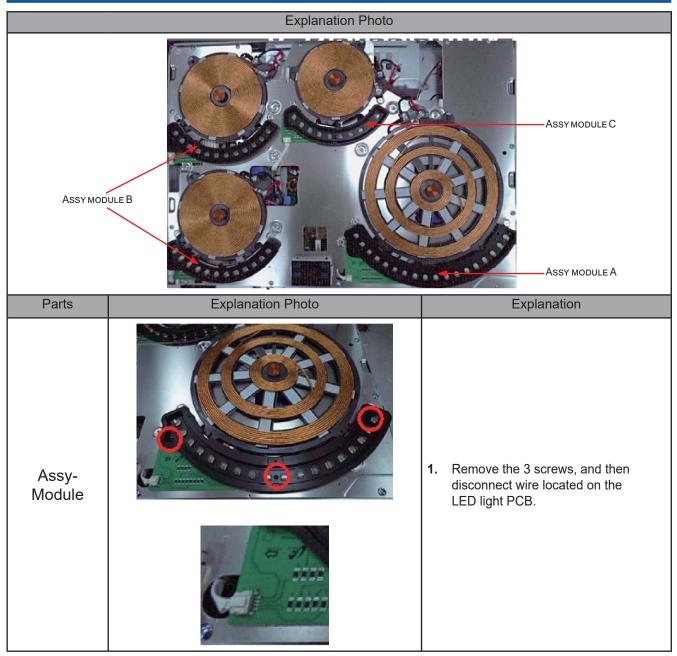
#### ELECTRICAL SHOCK HAZARD

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

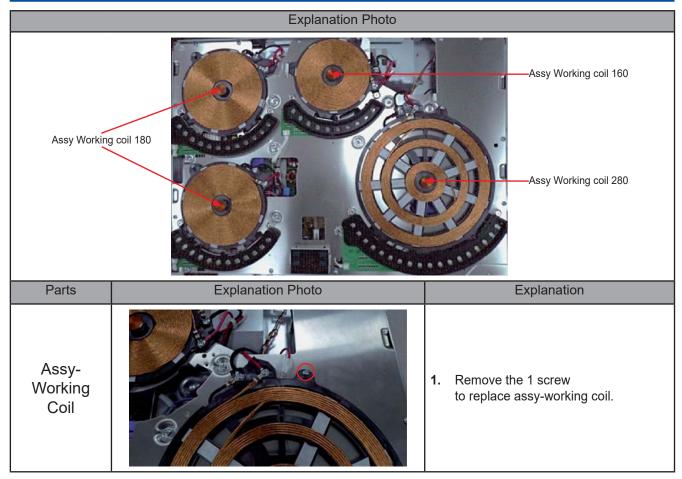




### 3-6 Replacement of the Assy Module, Assy -Working Coil



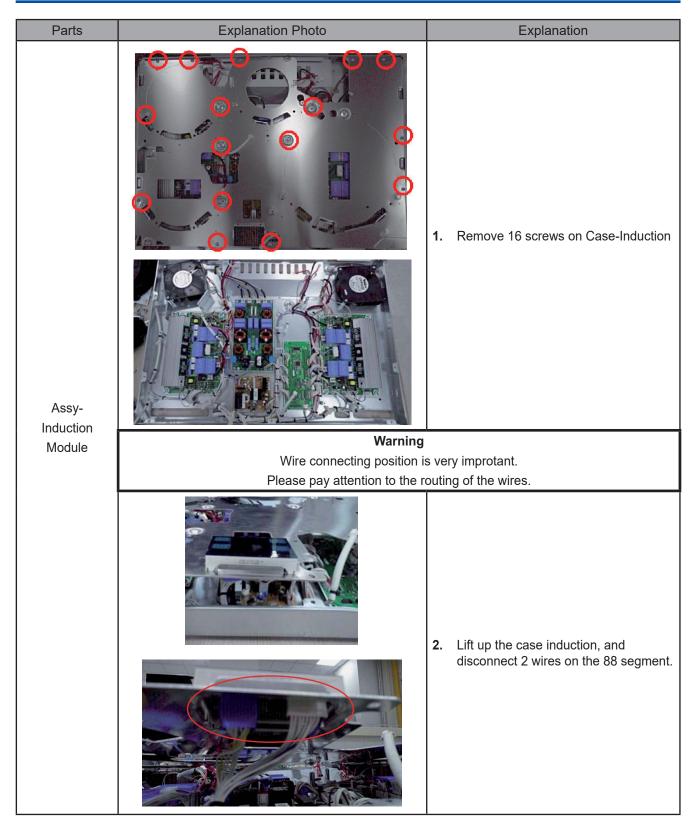
### 3-6 Replacement of the Assy Module, Assy -Working Coil



### 3-6 Replacement of the Assy Module, Assy -Working Coil (Continued)

Parts	Explanation Photo	Explanation	
		<ol> <li>Disconnect all lead wires from the Assy-Working Coil.</li> </ol>	
Assy- Working Coil	pull & rotate	<ol> <li>For the replacement of Sensor-Top, pull the Sensor-Top toward bottom side.</li> <li>Rotate the Sensor-Wire by 90degree until the Sensor-Top can be remove from the Coil-Working.</li> </ol>	
		<ol> <li>After replacement, connect the Sensor-Top and all lead wires.</li> </ol>	
	Warning		
	Wire connecting position is very improtant.		
	Please pay attention to the routing of the wires.		

### 3-7 Replacement of the Assy-Induction Module



### **3-7 Replacement of the Assy-Induction Module**

Parts	Explanation Photo	Explanation
		<b>3.</b> Remove the sub wire of Communication and Inverter.
Assy-	Warning	
Induction	Wire connecting position is	
Module	Please pay attention to the re	outing of the wires.
		<ol> <li>Remove the 18 screws.</li> <li>Lift up PCB</li> </ol>

### **3-7 Replacement of the Assy-Induction Module**

Parts	Explanation Photo	Explanation
Assy- Induction		<ol> <li>Remove the 6 screws</li> <li>Lift up Fan motor.</li> </ol>
Module		

### 3-8 Removing The Latch-Door & Switch-Door Plunger

### WARNING

#### ELECTRICAL SHOCK HAZARD

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

### CAUTION

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

Parts	Explanation Photo		Explanation
	9	1. 2. 3. 4.	<ul> <li>Turn off the electrical supply going to the range.</li> <li>Open the oven door.</li> <li>Raise the cooktop (see page 14 for the procedure).</li> <li>To remove the Latch-Door:</li> <li>a) Remove the 2 screws from the front of cavity.</li> </ul>
			<b>b)</b> Remove two screw from Cover-Back Main Guard and remove latch-door
Latch-Door & Switch- Door Plunger		5.	<ul> <li>To remove the Switch-Door Plunger</li> <li>a) Remove the Cover-Back Guard Wire. (see page 10 for the procedure).</li> <li>b) Release the wire from Cable Clamp.</li> <li>c) Remove the Switch-Door Plunger from the range. Remove the switch carefully with a pair of pliers and using a slight up and down motion while pulling the switch out.</li> </ul>

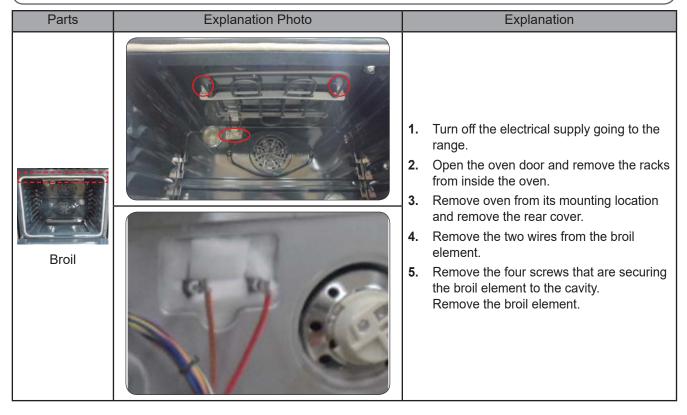
### 3-9 Removing Heater-Broil

### WARNING

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

### CAUTION

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



### 3-10 Removing Heater-Bake

Parts	Explanation Photo	Explanation
Parts		<ol> <li>Unplug range or disconnect power.</li> <li>Pull the range out of its mounting location so that you can access the rear of the unit.</li> <li>Remove Cover-Back Main Wire. (See step 3~4 on page 10 for procedure) Remove terminal block and bracket cover access by unscrewing the three screws.</li> </ol>
		Disconnect the two wires from the heater bake element.
Heater-Bake		<b>4.</b> Remove the two screws securing the heater-bake.
		5. Cut the insulation on the lower side.
		6. Carefully pull out Heater-Bake and replace it.

### 3-11 Removing Convection Element, Fan-Convection and Motor-Convection

Parts	Explanation Photo	Explanation
Convection Element, Fan- Convection , Motor- Convection	Image: Second	<ol> <li>Disconnect power and remove oven racks.</li> <li>Pull the range out of its mounting location so that you can access the rear of the unit.</li> <li>Remove Cover-Back Main Wire from the unit. (See step 3 on page 10 for procedure)</li> <li>Remove oven door. (See Page 29 on page for procedure)</li> <li>Unscrew 2 screws and remove Cover-Casing.</li> <li>Unscrew 2 screws and remove Bracket-Convection Heater to remove Heater-Convection.</li> <li>Unscrew nut of Fan-Convection, and 2 Fan-Convection.</li> <li>Unscrew 3 points and disconnect a Motor-Convection wire and disconnect Heater-Convection wire.</li> </ol>

### CAUTION

Be careful not to bend the Fan-Convection(Blade)

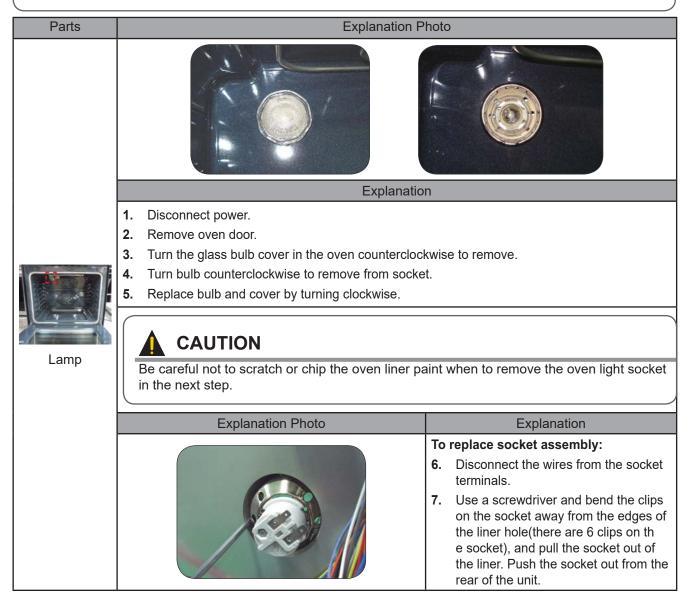
### 3-12 Removing Lamp

### WARNING

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

### CAUTION

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



### **3-13 Removing Sensor-Thermistor**

### WARNING

#### ELECTRICAL SHOCK HAZARD

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

### PRECAUTION

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

Parts	Explanation Photo	Explanation
Sensor-Thermistor	Image: constraint of the second sec	<ol> <li>Turn off the electrical supply going to the range and remove the oven from its mounting location.</li> <li>Remove oven door and racks from inside the oven.</li> <li>Unscrew Sensor-Thermistor.</li> <li>Remove Cover-Back Main Wire and disconnect a wire from Sensor-Thermistor.</li> <li>Replace the Sensor-Thermistor.</li> </ol>

### 3-14 Removing Assy-Drawer & Heater-Warming Drawer (Continued)

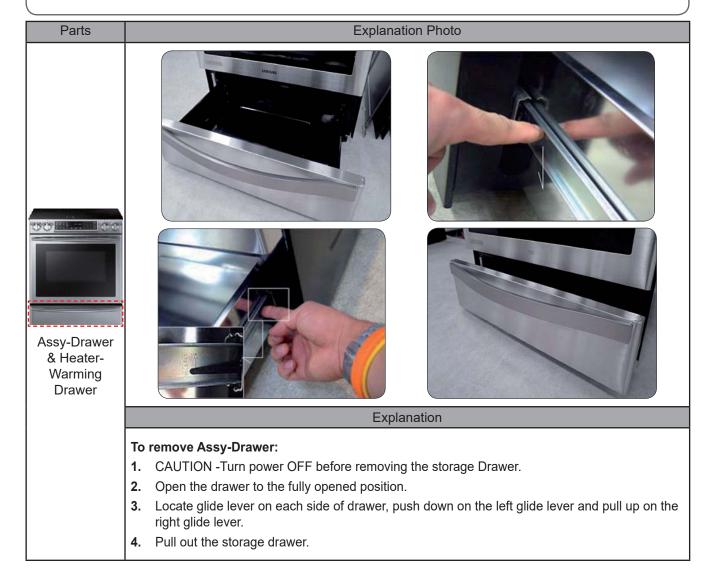
### WARNING

#### ELECTRICAL SHOCK HAZARD

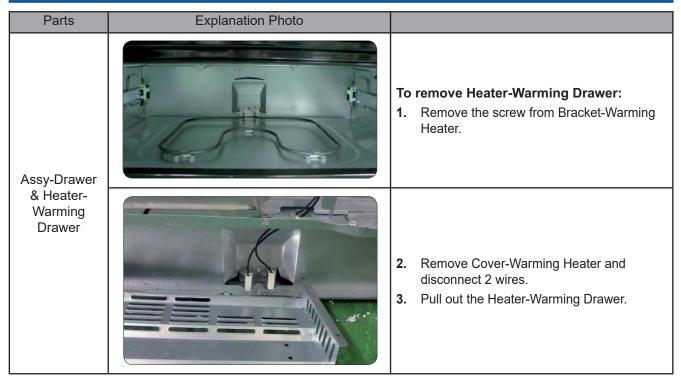
Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

### PRECAUTION

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



### 3-14 Removing Assy-Drawer & Heater-Warming Drawer



### 3-15 Removing and Replacing Oven Door

### WARNING

The door is very heavy. Be careful when removing door Do not lift door up by the Handle-Door.

Parts	Explanation Photo	Explanation
		<ul><li>To remove Oven Door:</li><li>1. Fully open the door</li><li>2. Pull the hinge locks downward.</li></ul>
		<ol> <li>Firmly grasp both side of the door at the top.</li> <li>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>
Oven door		<ul> <li>To replace door:</li> <li>1. Firmly grasp both sides of the door at the top position and insert the hinges into the hinge openings on the oven.</li> </ul>
		<ol> <li>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>Close the oven door.</li> </ol>

### 3-16 Removing Handle-Door and Glass-Inner (Continued)

### WARNING

#### ELECTRICAL SHOCK HAZARD

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

### PRECAUTION

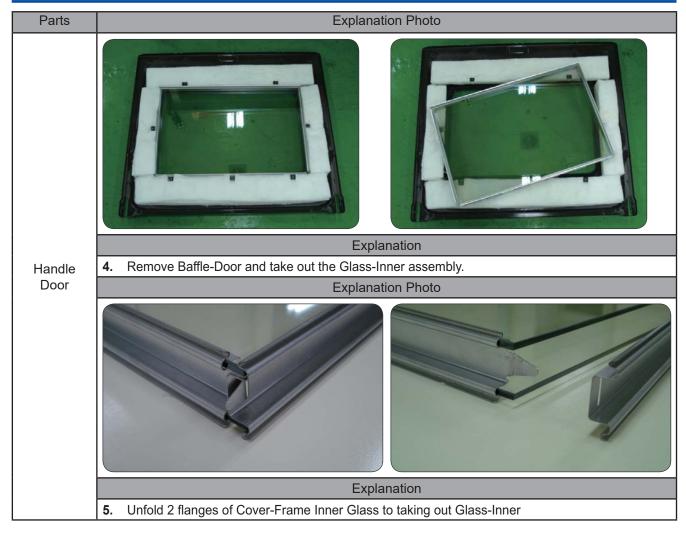
When you work on the electric range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Parts	Explanation Photo	Explanation
		<ol> <li>Remove the oven door from the range (see page 29 for the procedure.)</li> <li>Place the oven door on a padded work surface with the front glass facing down.</li> <li>Remove 3 bottom screws from the door.</li> </ol>
		<ol> <li>Remove 2 Handle-screws from the door.</li> </ol>
Door		<ol> <li>Lift the door rear assembly off the front assembly and set it aside</li> </ol>
		<b>6.</b> Remove 2 spacers and 2 screws.

### 3-16 Removing Handle-Door and Glass-Inner (Continued)

Parts	Explanation Photo	Explanation
Handle Door		<b>To remove Handle-Door</b> <b>1.</b> Remove 2 screws to remove Handle- Door
Glass-Inner		<ul> <li>To remove Glass-Inner</li> <li>1. Remove 6screws from rear side of door to remove 2 Hinge-Door.</li> </ul>
		<ol> <li>Remove 4screws ro remove Glass- Inner Sub Assembly</li> <li>Remove 7screws ro remove Baffle- Door</li> </ol>

### 3-16 Removing Handle-Door and Glass-Inner



### 3-17 Removing Gasket-Door

### WARNING

#### ELECTRICAL SHOCK HAZARD

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

### PRECAUTION

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

Parts	Explanation Photo	
	Explanation	
Caskat daar	1. Open the oven door to its fully down position.	
Gasket door	2. Pull the ends of the gasket out of the liner holes.	
	3. Pull the oven door gasket clips out of the holes until all of the clips are removed.	
	REASSEMBLY NOTE: 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.	

### 3-18 Removing The Panel-Side

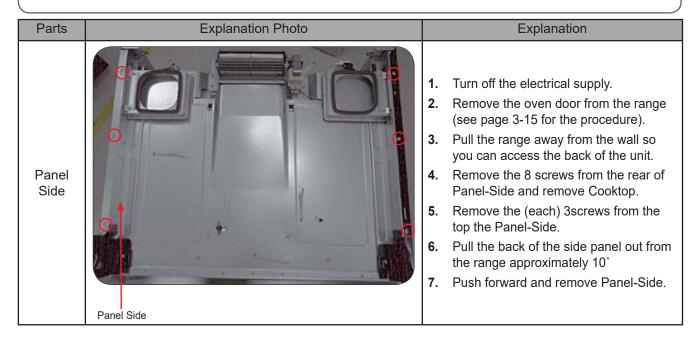
### WARNING

#### ELECTRICAL SHOCK HAZARD

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

### PRECAUTION

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



### **3-19 Removing the Wi-Fi module**

### WARNING

#### ELECTRICAL SHOCK HAZARD

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

Parts	Explanation Photo	Explanation
		<ol> <li>Turn off the electrical supply.</li> <li>Remove the drawer from the range (see page 3-13 removing assy-drawer &amp; heater warming drawer for the procedure).</li> <li>Remove the 2 screws from the drawer pedestal front and take off holder wi-fi.</li> </ol>
WI-FI MODULE		<ol> <li>Remove the Cover Wi-Fi (rubber).</li> <li>Tilt the hook on holder and take off Wi-Fi module.</li> <li>Remove connector on Wi-Fi module</li> </ol>

### 4. Troubleshooting

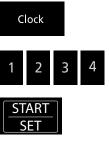
### **4-1 Failure Display Codes**

There is a check code. Possible check codes during use can be checked before service.

- 1. Touch 'Clock' key.
- 2. Touch a number '1,2,3,4' key.
- 3. Touch 'START/SET' key.
- 4. Touch '**Clock**' and '**Num 1**' keys at the same time for 3seconds. Check codes are displayed.
- 5. Touch number '**0**' key, the last 5 check codes can be checked. But, if the oven turns off, the stored check codes are deleted.
- 6. Touch '**OFF**' key to return to normal display mode.

#### Check code

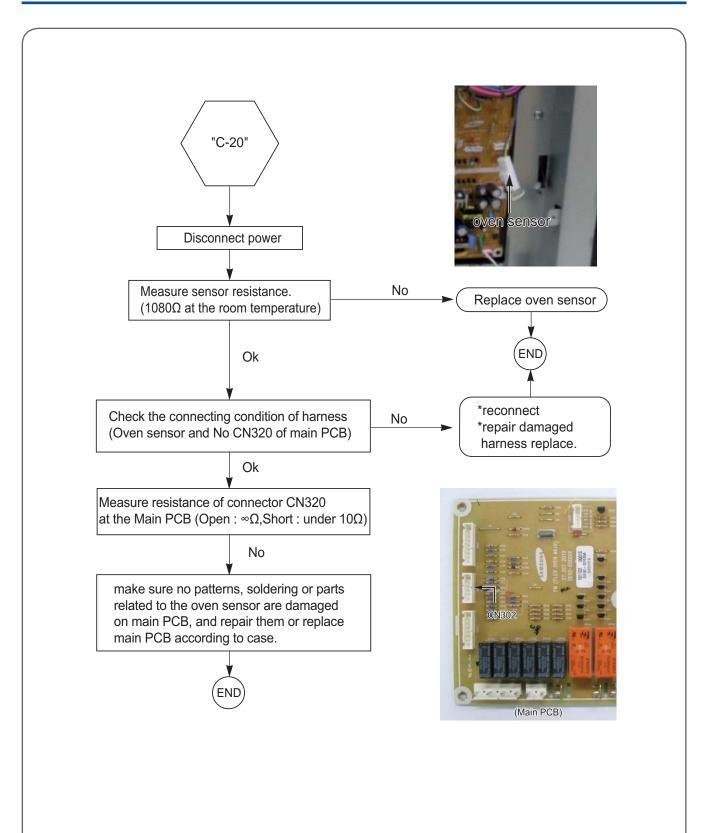
Check code			
Failure code	CAUSE	SOLUTION	
C-d0	This code occurs if the key short.	<ol> <li>Check whether cable of keypad has been inserted into connector of sub pcb.</li> <li>Check whether between sub pcb and connector or keypad and cable have a short circuit.</li> <li>if there is not a problem occurred with connector on sub pcb and cable of keypad, replace the sub pcb.</li> </ol>	
C-d1	This code occurs if the door lock is mispositioned.	<ol> <li>Disconnect power. Open the cover back. Check whether harness has been connected with door lock switch and motor.</li> <li>Confirm whether resistance value of door lock motor is correct. Normal value should be 2500 ~ 2700 Ω at the room temperature.</li> <li>Operate door lock, measure voltage at the plug supplying power to the door lock motor. (normal voltage : AC 120V)</li> <li>Check whether door locking switch is working normally.</li> </ol>	
C-F0	This code occurs if communication between the Main and Sub PCB is interrupted.	<ol> <li>Check whether connector of main pcb has been inserted.</li> <li>Check whether connector of sub pcb has been inserted.</li> <li>If no issue with connector on Main and Sub PCBs has been detected replace Main PCB.</li> </ol>	
C-F2	This code occurs if communication between the Main and Touch PCB is interrupted.	<ol> <li>Check whether connector of sub pcb has been inserted.</li> <li>If no issue with connector on Sub PCB has been detected replace Sub PCB</li> <li>If the problem has not been solved after replacing Sub PCB replace control PCB.</li> </ol>	





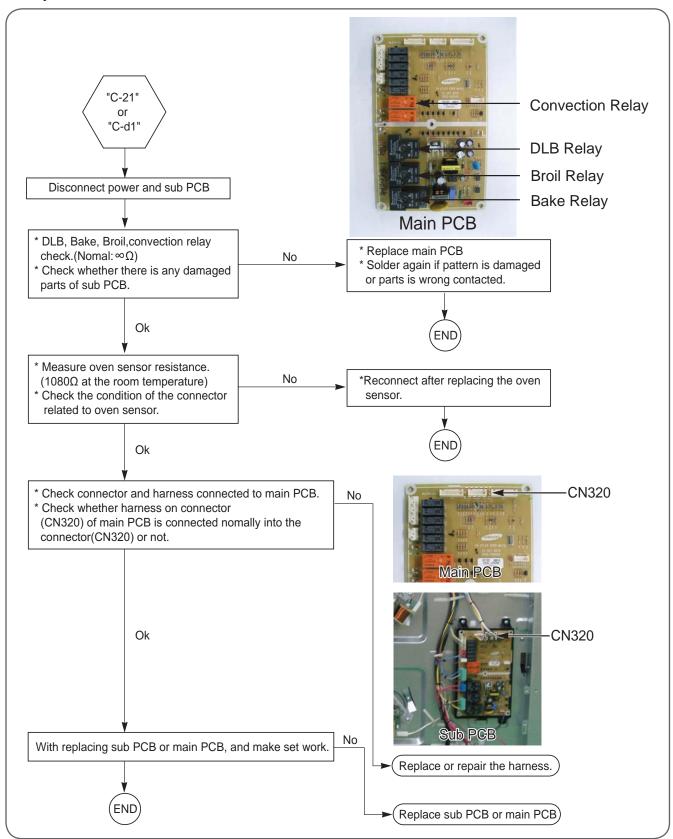
OFF

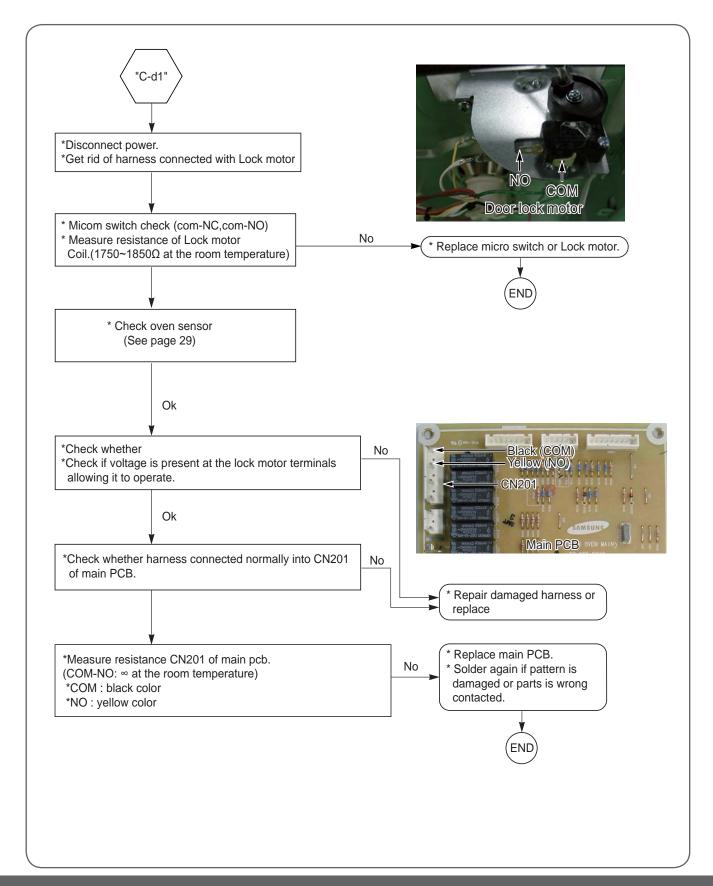
Failure code	CAUSE	SOLUTION	
C-20	The oven sensor is open when the oven is operating.	<ol> <li>check whether connector at the main pcb has been inserted.</li> <li>Check whether connector at the sensor has been inserted.</li> <li>If connectors at the Main DCB and the connector at inserted.</li> </ol>	
	The oven sensor is short when the oven is operating.	<ol> <li>If connectors at the Main PCB and the sensor are inserted correctly,replace the temperature sensor.</li> <li>If the problem is still not solved, replace the Main PCB.</li> </ol>	
C-21	This code occurs if the internal temperature rises abnormally high.	<ol> <li>Disconnect power. Open back cover. Disconnect sensor harness from sensor. Measure sensor resistance : 1080Ω at the room temperature.         <ul> <li>&gt; If there are any problems, replace oven sensor.</li> </ul> </li> <li>Check the resistance of broil, bake and convection heater.</li> <li>Check whether DLB, broil, bake and convection relays on the Main PCB are working normally.</li> <li>Check whether any part of a wire harness on Main PCB is disconnected.</li> <li>Check the resistance of oven sensor connector on main pcb. (Normal : 2850Ω)</li> <li>Unit will display "C-21" after beeping 10 times if temperature is higher then the specified during operation.</li> <li>Please make sure through the method of 4-1 on 30 page, if those series of working for informing error take long time or not functioned.</li> </ol>	
C-30	The PCB temp sensor is open when the oven is operating.		
C-30	The PCB temp sensor is short when the oven is operating.	<ol> <li>Disconnect power. Open back cover.</li> <li>Replace the main pcb.</li> </ol>	
C-31	This code occurs if the PCB temperature rises abnormally high.		

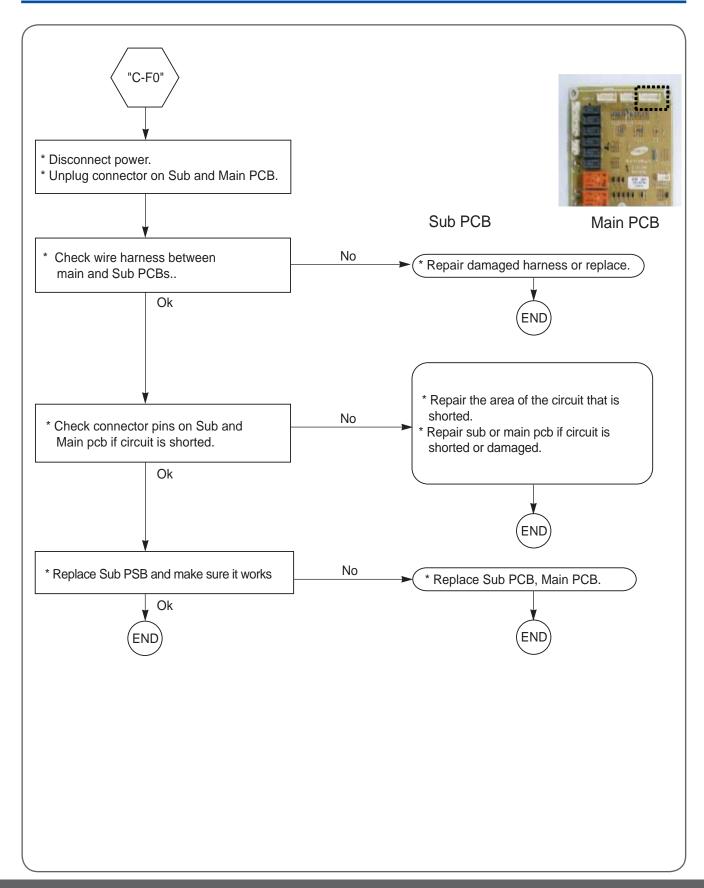


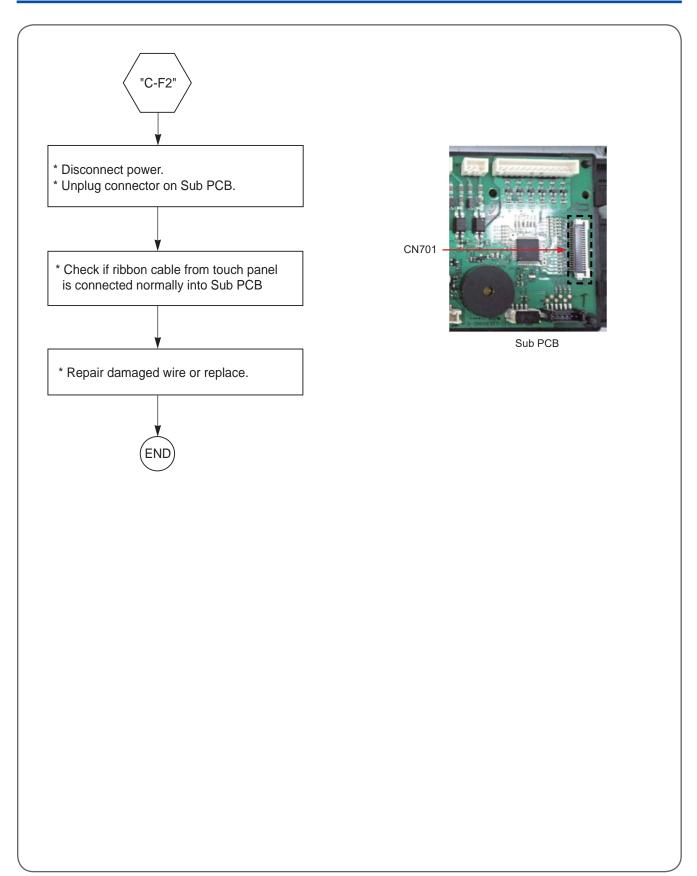
#### 4-1 Failure Display Codes

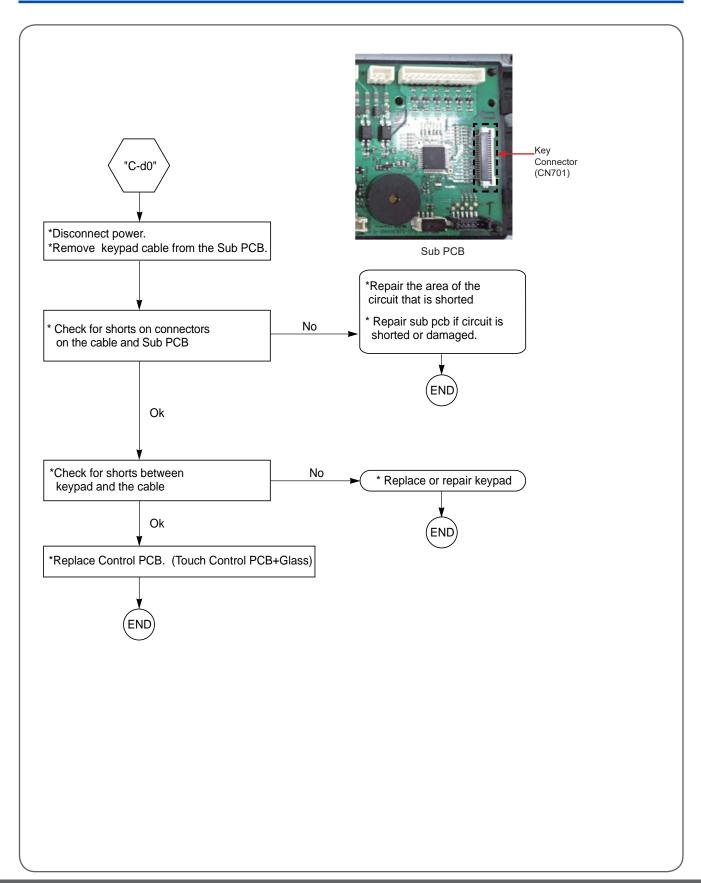
#### Safety error





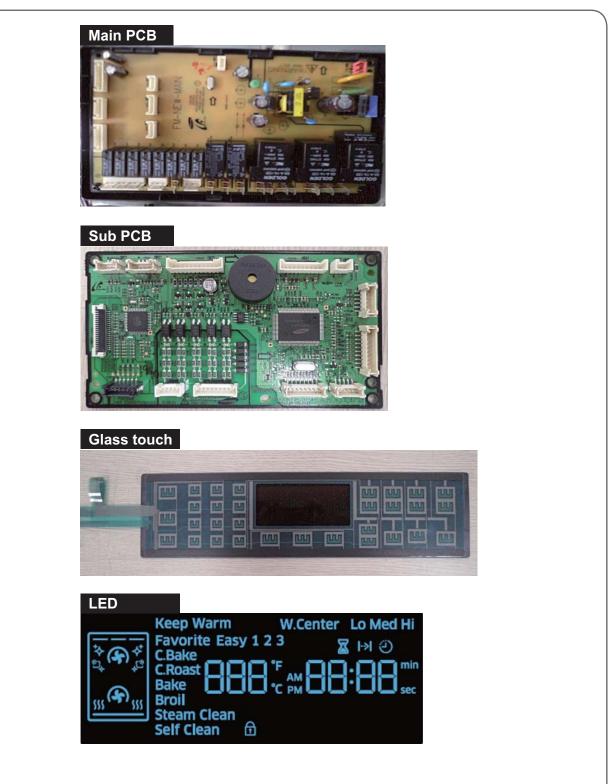






#### **Control PCB Operation**

#### Sort of Control PCB



SYMPTOM	DIAGNOSIS	REMEDY	
	<ul> <li>Measure an input voltage. (240/120V or 208/120V)</li> <li>Measure an input voltage of terminal block.</li> </ul>	<ul> <li>* Check circuit breaker.</li> <li>* Check state of a wire connected to Terminal Block</li> </ul>	
	* Measure supplied voltage at the connector on main PCB L1~N : 120V	* Replace or repair if harness has been lose or disconnected.	
Oven not operating (No power, No display)	<ul> <li>* Make sure that the relay on Sub PCB is working normally</li> <li>* Check whether connector between sub and main pcb have been loosen or disconnected.</li> </ul>	<ul> <li>Replace sub PCB if relay has been damaged or there is any cracking on the sub PCB.</li> <li>Repair harness connecting Main and Sub PCBs</li> <li>After confirming whether harness has been inserted into relay on sub PCB or not, take action follow as;</li> <li>Replace or repair harness.</li> <li>Replace or repair sub PCB.</li> </ul>	
	<ul> <li>Measure resistance both ends of terminal on thermostat. (normal : 0 ohoms)</li> <li>Check whether harness connected to terminal of a thermostat have been loosen or disconnected.</li> <li>Measure voltage regulator on main PCB.</li> <li>IC02 : 7812(DC 12V)</li> <li>IC03 : 7805(DC 5V)</li> </ul>	<ul> <li>* Replace the thermostat.</li> <li>* Replace or repair harness.</li> <li>* Replace or repair after check PCB.</li> </ul>	
Oven temperature is risen slowly.	* Make sure whether wire harness is connected to broil, bake and convection heaters has been lose or disconnected.	<ul> <li>Repair and replace harness.</li> <li>Disconnect terminals for each heater and measure resistance, replace any heaters with abnormal resistance</li> </ul>	
lo noon olowiy.	* Make sure whether relays are normally operated or pcb have short circuit.	<ul><li>* Replace or repair relay.</li><li>* Replace or repair main PCB.</li></ul>	

SYMPTOM	DIAGNOSIS	REMEDY	
Oven temperature	<ul> <li>* Check whether temperature rises over 400'F within 10 minutes in room temperature.</li> </ul>	<ul> <li>* Repair or replace if relays on Main or Sub PCBs are shorted</li> </ul>	
rises to fast	* Check whether harness has been connected incorrectly or is shorted	* Replace or repair harness.	
	* Make sure resistance of each harness is within normal range.	* Replace heater with abnormal resistance range.	
The self-cleaning feature will not operate when warming center or warming drawer is on.	* This is in normal state.	<ul> <li>* The self-cleaning feature will not operate when warming center or warming drawer is on.</li> </ul>	
	Make sure that the keypad cable is connected correctly.	* Replace pcb after check whether keypad cable is connected correctly.	
Keypad is not working correctly.	Check whether connector on pcb is shorted or damaged	* Replace or repair after confirming whether keypad cable has been loosen or disconnted.	
	Check whether touch control PCB has been damaged.	* Replace assembly of touch control pcb. ( PCB + Glass touch)	
Oven lamp is not working.	<ul> <li>* Check the oven lamp relay on sub PCB and connector.</li> </ul>	<ul> <li>* Replace or repair if harness has been loosen or disconnected.</li> <li>* Replace oven lamp relay or Ry-source relay.</li> <li>* Replace main PCB.</li> </ul>	
	Measure the resistance value of both ends of lamp terminal.	* Replace lamp.	
Warmer drawer	* Check warmer drawer relay (Ry06) on sub PCB and terminal(T03).	<ul><li>* Replace terminal(T03) or relay(Ry06).</li><li>* Replace main PCB.</li></ul>	
heating is not working	* Measure whether resistance value of warmer drawer heater is in normal extent or not.	* Replace warmer drawer heater.	

SYMPTOM	DIAGNOSIS	REMEDY
	Check whether convection fan relay on	* Replace or repair Relay.
Convection fan is	Sub PCB and connector is in normal.	* Replace or repair connector.
not spinning	Make sure harness between Sub PCB	* Replace or repair harness.
	and Main PCB has been connected	* Replace or repair connector.
	correctly	* Replace main PCB.
Smell or smoke during initial use	This is in normal state.	* Smell or smoke from the oven during initial cycle is coming from dirt and grime from manufacturing process and is normal
		* Make sure the room is well ventilated during self-clean cycle
LED Display		
is partially or	* LED display is inferior.	* Replace LED or sub PCB
fully dim		
Touch tone not active when keypad buttons are selected	Check the state of buzzer on sub PCB and whether PCB pattern have a short circuit or has been open.	* Replace or repair main PCB.
Virtual Flame is	* Chaole whether Virtual flame has act	* Set on the Virtual Flame in option menu.
Virtual Flame is not show when	off in option menu or wire harness	<ul> <li>Replace or repair if harnmess has been loosen or disconnected</li> </ul>
turn on the Knob	has been disconnected .	* Replace Led module.

### 4-2 Failure Display Codes (Cooktop)

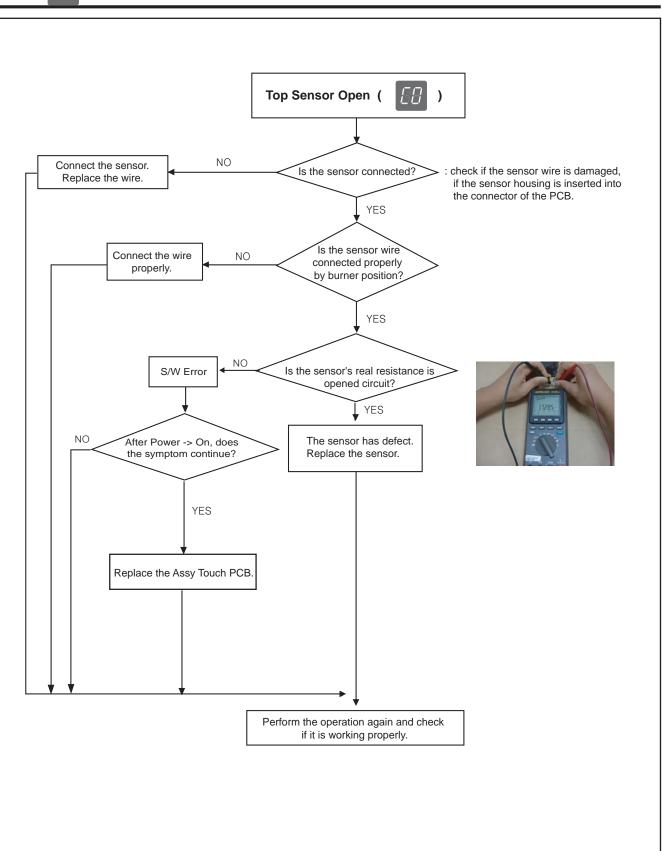
#### 4-2-1 Temp Sensor

Displayed Code	Solution	Page
68	<b>Top Sensor Open (Sensor-Top)</b> It occurs due to a defective sensor, misplaced wires, a defective PCB and when A/D value that MICOM senses rises over 252. Also, it may occur when the ambient temperature falls under 14°F.	50 Page
	<b>Top Sensor Short (Sensor-Top)</b> It occurs due to a defective sensor, misplaced wires, a defective PCB and when A/D value that MICOM senses falls under 10.	51 Page
83	<b>IGBT Sensor Open (Assy-Inverter Module)</b> It occurs due to a defective sensor, misplaced wires, a defective PCB and when A/D value that MICOM senses rises over 239. Also, it may occur when the ambient temperature falls under 14°F.	52 Page
	<b>IGBT Sensor Short (Assy-Inverter Module)</b> It occurs due to a defective sensor, misplaced wires, a defective PCB and when A/D value that MICOM senses falls under 10.	53 Page

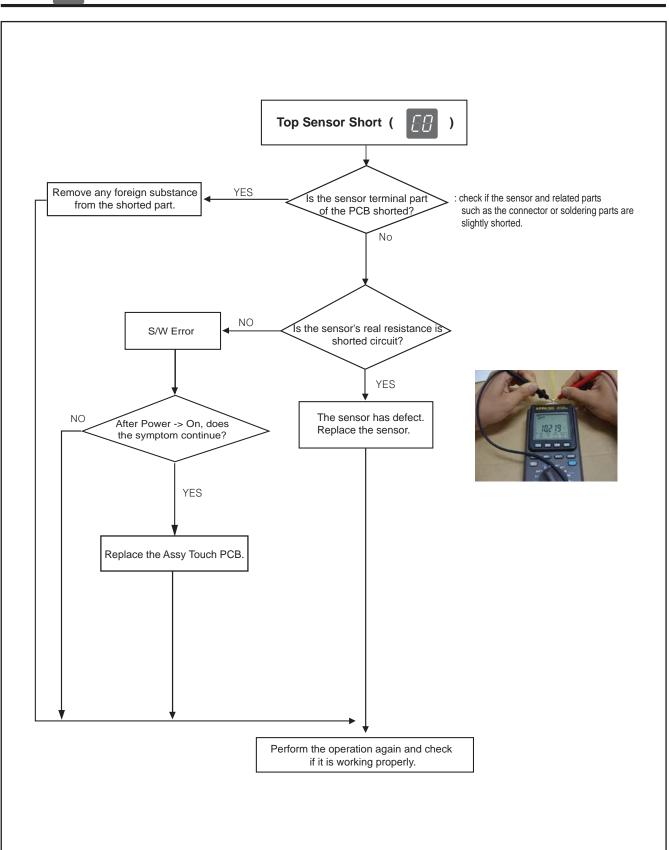
#### 4-2-2 Safety

Displayed Code	Gerneral Function	Solution	Page
68	Over Temperature	It occurs when the temperature of the Top Sensor rises very highly. (Estimated temperature of ceramic glass's surface is more than 482°F.) ex: Place a empty cookware on the burner and operate the induction cooktop.	54 Page
88	Pan Detection	It occurs when the cookware is unsuitable or too small or no cook- ware has been placed on the cooking zone. If the suitable cookware is placed again, the induction cooktop will operate normally.	55 Page
82	DC Motor Locking	It occurs when the DC Motor cannot operate due to defects of PCB, wiring or some disturbance on motor blade.	56 Page
<i>E0</i>	Communication	It occurs when the communication between Display PCB and Inverter Module PCB is interrupted, due to defects of PCB, wiring mistake.	57 Page

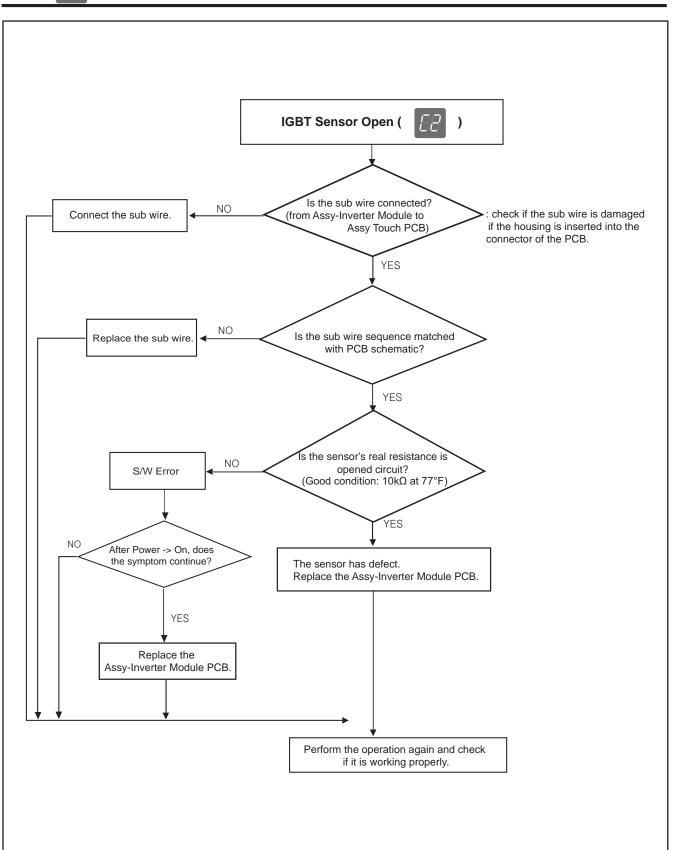




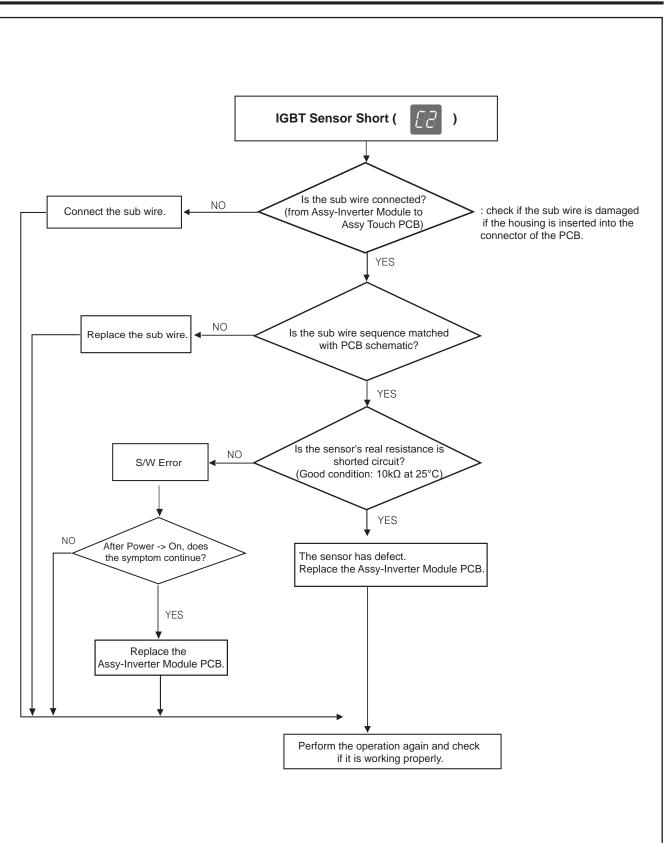




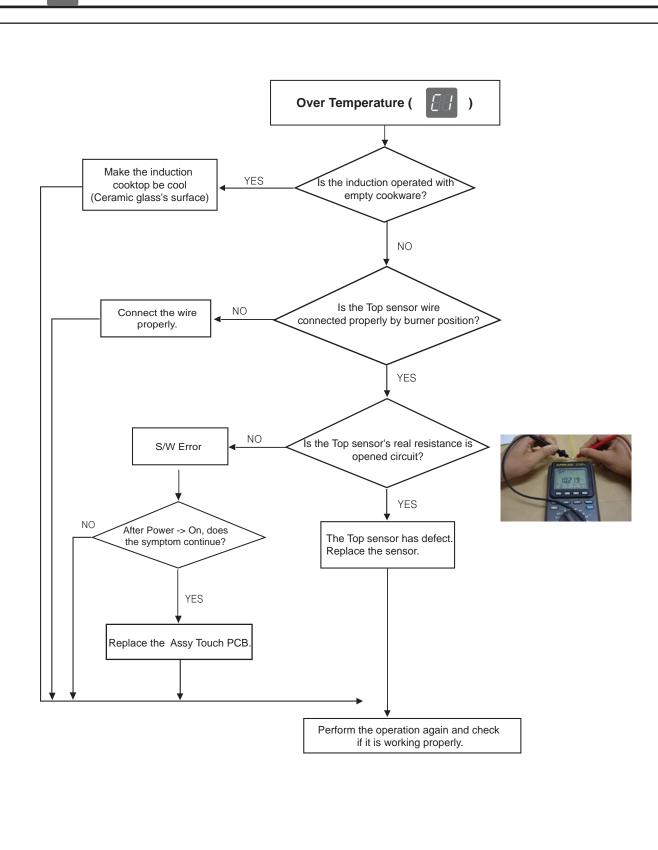




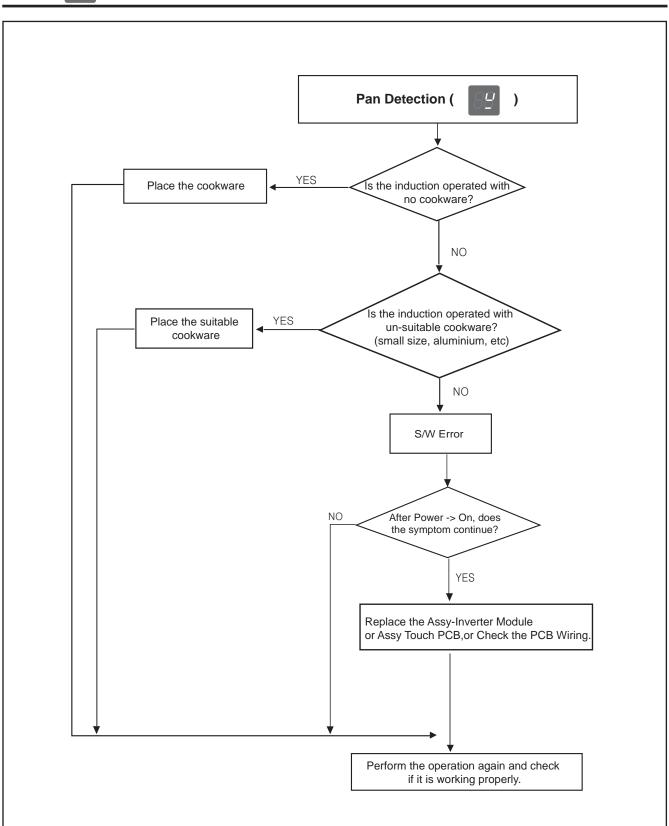




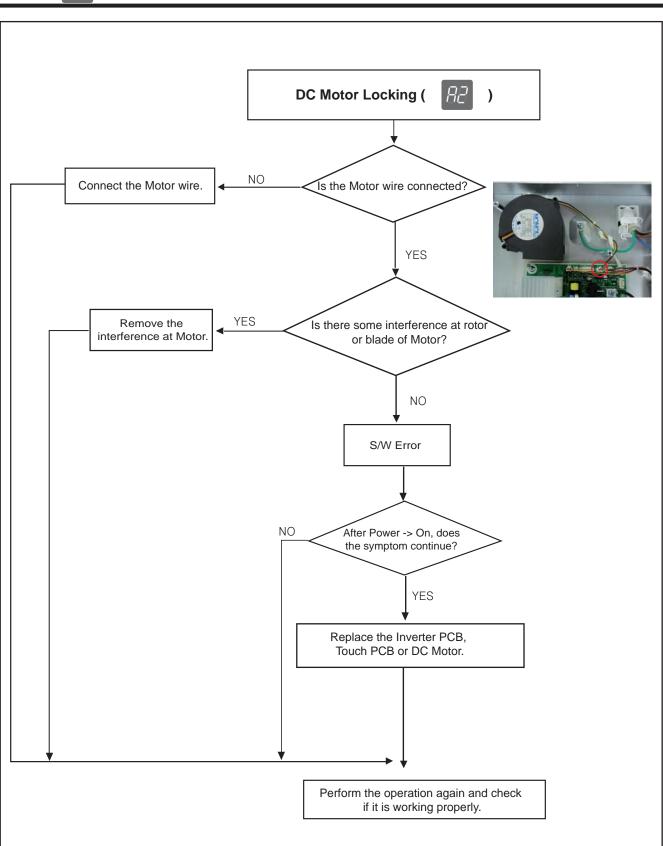






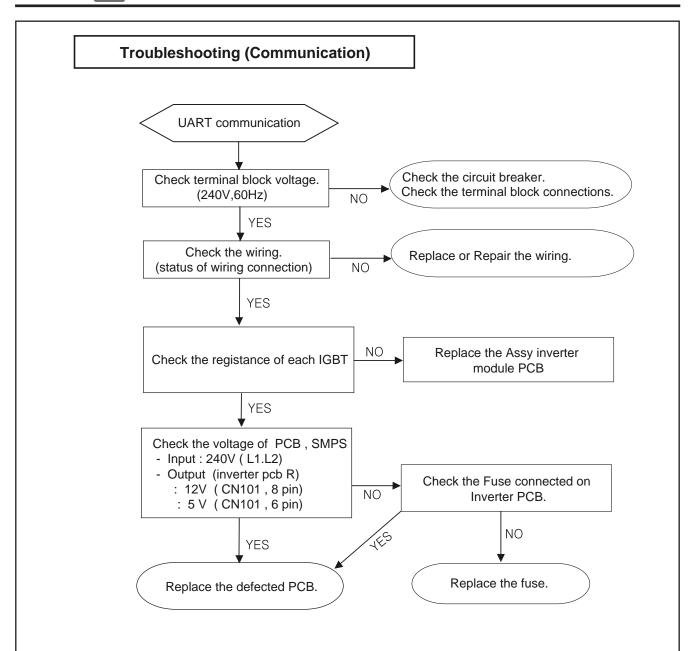




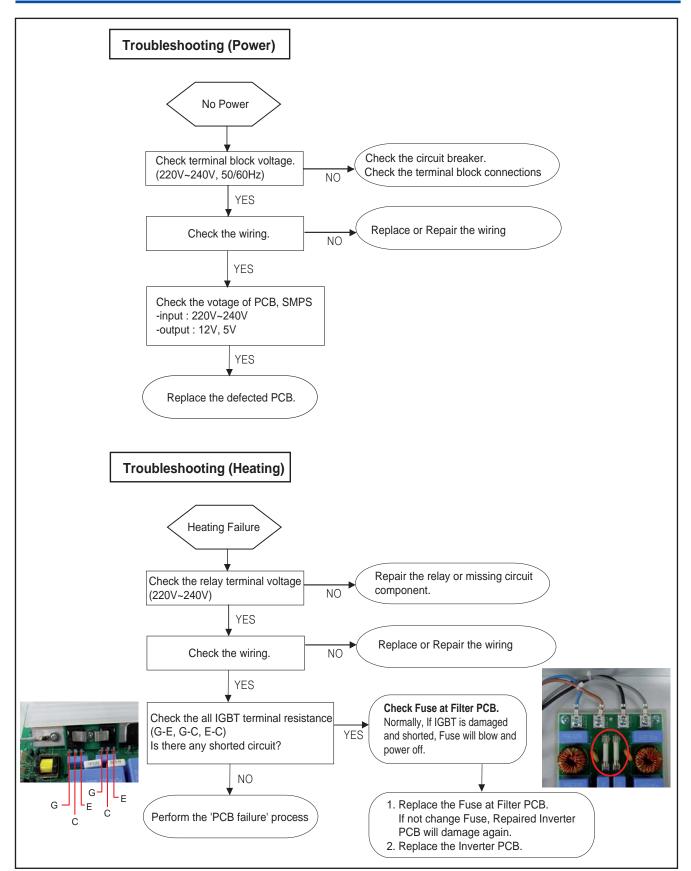


FB

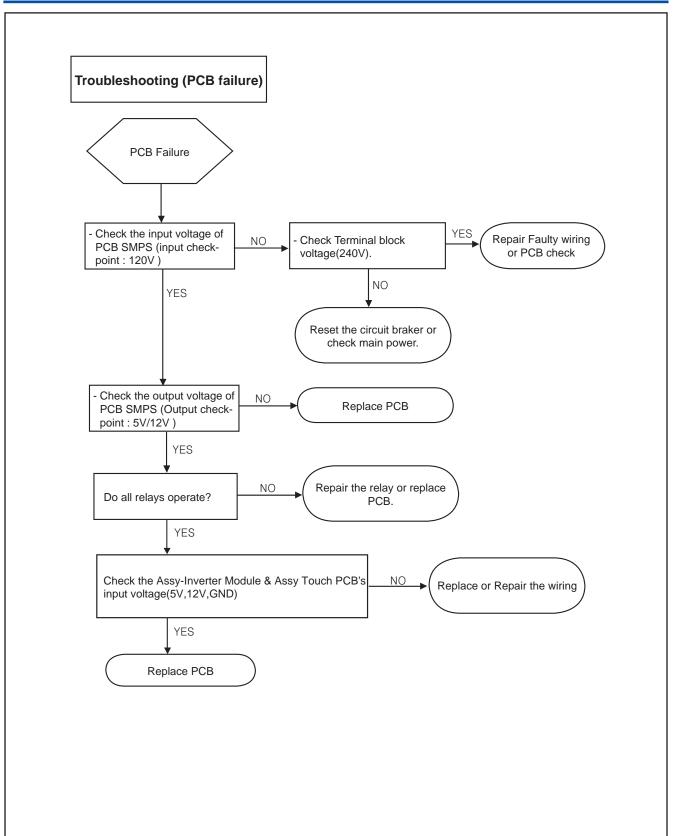




#### **4-3 Electrical Malfunction**



#### **4-3 Electrical Malfunction**



#### **4-3 Electrical Malfunction**

#### Troubleshooting (Wi-Fi connection)

Step 1.

- Check whether display showed 🛜
  - If display showed icon, check to 'Samsung Smart Home' app. Delete and re-install the app. And then, try again
  - (Follow manual instruction for samsung smart home app).
  - If display is not show icon, check to home network.
  - If home network is ok, follow to step 2.
  - If home network have problem, contact home network service center.

Step 2.

- Check communication between wi-fi module and sub pcb
- a) Press keepwarm and Num3 at the same time.
  - Display will show pJt name, main pcb version, sub pcb version and network version.
- If network version is ordinarily showed, try to use smart control feature again.
- If network version is showed as like below, check to wi-fi module. (2-b)



VFD DISPLAY

LED DISPLAY

- b) Remove the wi-fi module (see page 3-21 removing the wi-fi module for the procedure). Check input voltage on wi-fi module. (5V)
- If input voltage is ok, replace wi-fi module.
- If input voltage have problem, check to connector of wire and sub pcb. (2-c)



c) Remove the cover back main wire

(see page 3-2 removing cover back main wire for the procedure).

- If connection of wire is ok, check to next step (2-d)
- If connection of wire have problem, re-connect and try smart control feature again.
- d) Remove the sub pcb (see page 3-4 removing sub pcb for the procedure).
   Check whether connector of wire is fully and correctly inserted. (CN270)
   And then, check input voltage on sub pcb. (5V)
- If input voltage is ok, replace wi-fi module.
- If input voltage have problem, replace sub pcb.

Pin 4 :	GND
Pin 5 :	5VDC



#### **4-3 Electrical Malfunction**

#### Component testing procedures

#### WARNING

4

#### ELECTRICAL SHOCK HAZARD

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

FIGURE	TESTS MEASURE	RESULTS
Broil Heater	<ul> <li>Measure resistance values of heater's terminal after taking off harness from heater.</li> <li>Measure voltage of heater's terminal after making oven work by pressing broil keypad.</li> </ul>	<ul> <li>* Approx : 12 ~ 14Ω (at the room temperature)</li> <li>* Terminal voltage of Broil heater : AC 240V</li> <li>* Replace or repair harness</li> <li>* Replace or repair sub PCB</li> </ul>
Bake Heater	<ul> <li>Measure resistance values of heater's terminal after taking off harness from heater.</li> <li>Measure voltage of heater's terminal after making oven work by pressing bake keypad. (Make sure that voltage has to be measured for more than 1 minute because heater is supposed to on-off cycling work.)</li> </ul>	<ul> <li>* Approx : 17 ~ 19Ω         (at the room temperature)</li> <li>* Terminal voltage of bake heater : AC 240V</li> <li>* Replace or repair harness</li> <li>* Replace or repair sub PCB</li> </ul>
Convection Heater	<ul> <li>Measure the resistance values of heater's terminal after taking off harness from heater.</li> <li>Measure the voltage of heater's terminal after having oven worked, by pressing convection bake keypad. (Make sure that voltage has to be measured for more than 1 minute because heater is supposed to on-off cycling work.)</li> </ul>	<ul> <li>* Approx : 41 ~ 46Ω(at the room temperature)</li> <li>* Terminal voltage of convection heater : AC 240V</li> <li>* Replace or repair harness</li> <li>* Replace or repair sub PCB</li> </ul>
Warming Drawer	<ul> <li>Measure the resistance of values of heater, after taking off harness from heater.</li> <li>Measure the terminal voltage of heater after making oven work by pressing warming drawer keypad</li> </ul>	<ul> <li>* Approx : 22 ~ 25Ω(at the room temperature)</li> <li>* Terminal voltage of Drawer heater : AC 120V</li> <li>* Replace or repaire harness</li> <li>* Replace or repaire sub PCB</li> </ul>

#### **4-3 Electrical Malfunction**

FIGURE	TESTS MEASURE	RESULTS
	<ul> <li>Measure the state of micro switch and motor after taking off harness from the heater.</li> <li>Check whether the lock works normally by pressing cooking time button and delay start keypad at the same time for 3 seconds.</li> </ul>	<ul> <li>Lock motor Resistance : 2500 ~ 2700Ω (at the room temperature) voltage : 120V</li> <li>Micro switch COM-NO</li> <li>Replace or repair if harness has been loosen or disconnected.</li> </ul>
	<ul> <li>* First of all, make sure that lamp filament is disconnected or not.</li> <li>* Measure resistance socket's terminal after separating harness from heater and removing lamp.</li> <li>* Measure the voltage at the lamp sockets terminal, after turning on the Lamp by pressing the Oven light on the main keypad.</li> </ul>	<ul> <li>* Approx : ∞Ω</li> <li>* Terminal voltage of lamp socket : 120V</li> <li>* Replace or repair harness.</li> <li>* Replace or repair sub PCB</li> </ul>
Upper Convection Fan	<ul> <li>* Measure resistance value of Motor terminal after taking off harness from Motor.</li> <li>* Measure Voltage of Motor's terminal after making oven work by pressing bake keypad. (Make sure to measure voltage for more then one minute as fan will normally cycle on and off)</li> </ul>	<ul> <li>Approx</li> <li>Convection Fan : 20 ~ 30Ω</li> <li>Terminal Voltage of Convection Fan : 120V</li> <li>Replace or repair harness</li> <li>Replace or repair main PCB.</li> </ul>

#### **4-3 Electrical Malfunction**

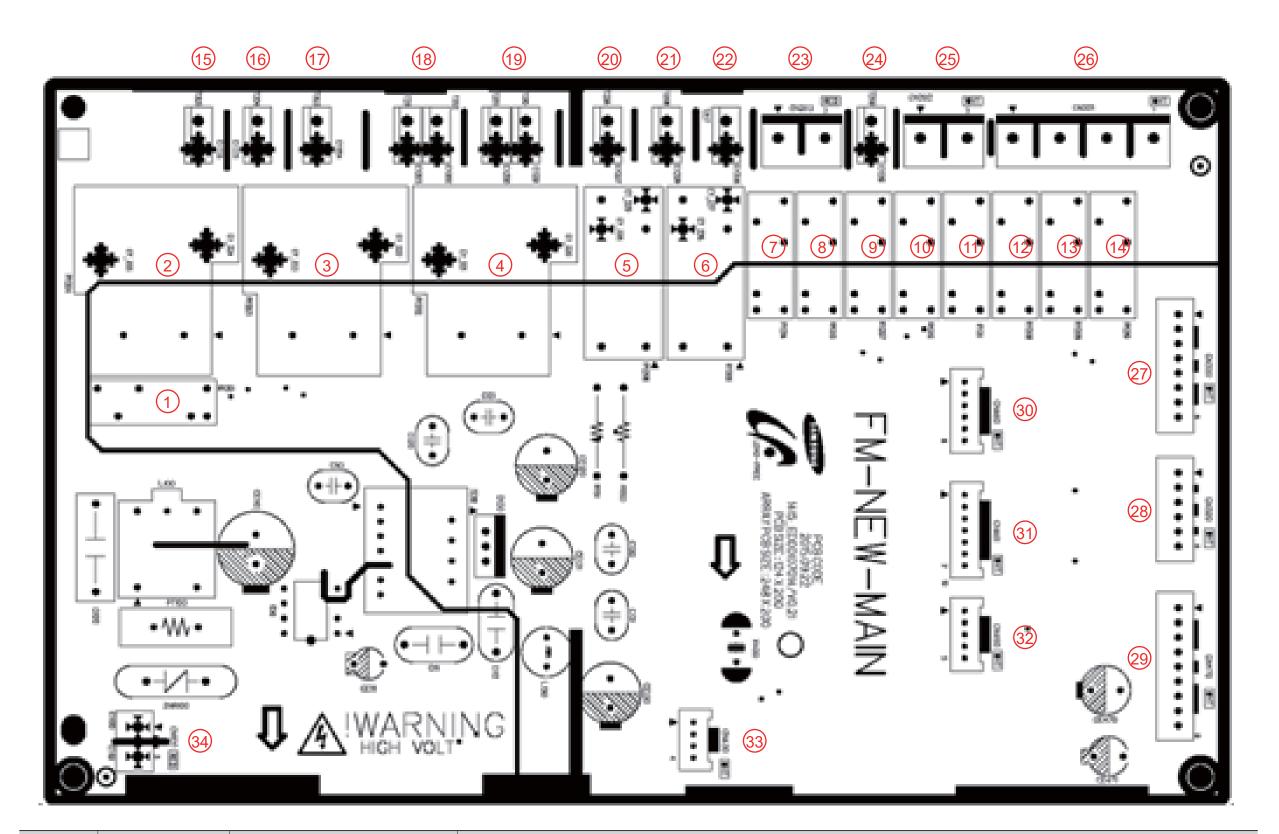
FIGURE	TESTS MEASURE	RESULTS
Door plunger switch	<ul> <li>* Check the state of working of switch.</li> <li>* Make sure wire, housing and terminals are connected and have not been damaged.</li> </ul>	Normal open : 0Ω Normal close : ∞Ω * Replace or repair if wire or terminal has been damaged.
	<ul> <li>Measure resistance valur of oven sensor</li> <li>Check whether wire or housing has been loosen or disconnected.</li> </ul>	<b>Approx.</b> at the room temperature :1080Ω

#### **4-3 Electrical Malfunction**

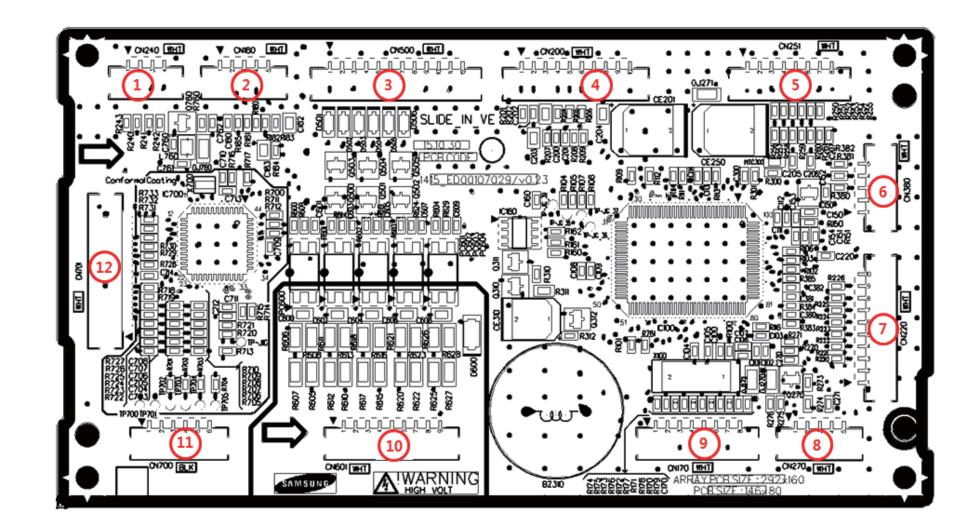
degree F degree C degree F degree C ohms ohms 0 -17.8 45 932.12 113 1170.17 -10 14 961.86 122 50 1188.93 23 -5 980.95 212 100 1374.93 32 0 1000.00 302 150 1558.01 5 1019.02 392 200 1738.06 41 10 1038.02 482 250 1915.39 50 59 15 1056.99 572 300 2089.69 2261.07 68 20 1075.92 662 350 77 25 1094.83 752 400 2429.52 30 2595.05 86 1113.71 842 450 35 1132.56 932 500 2757.65 95 104 40 1151.38 1000 538 2878.57

Oven sensor resistance (Temperature vs. Sensor resistance) Ro = 1000 Ohms (0°C), RP = 2757 Ohms, Up = 5V, a = 0.00375

## 5-1 PCB Diagrams (Main)

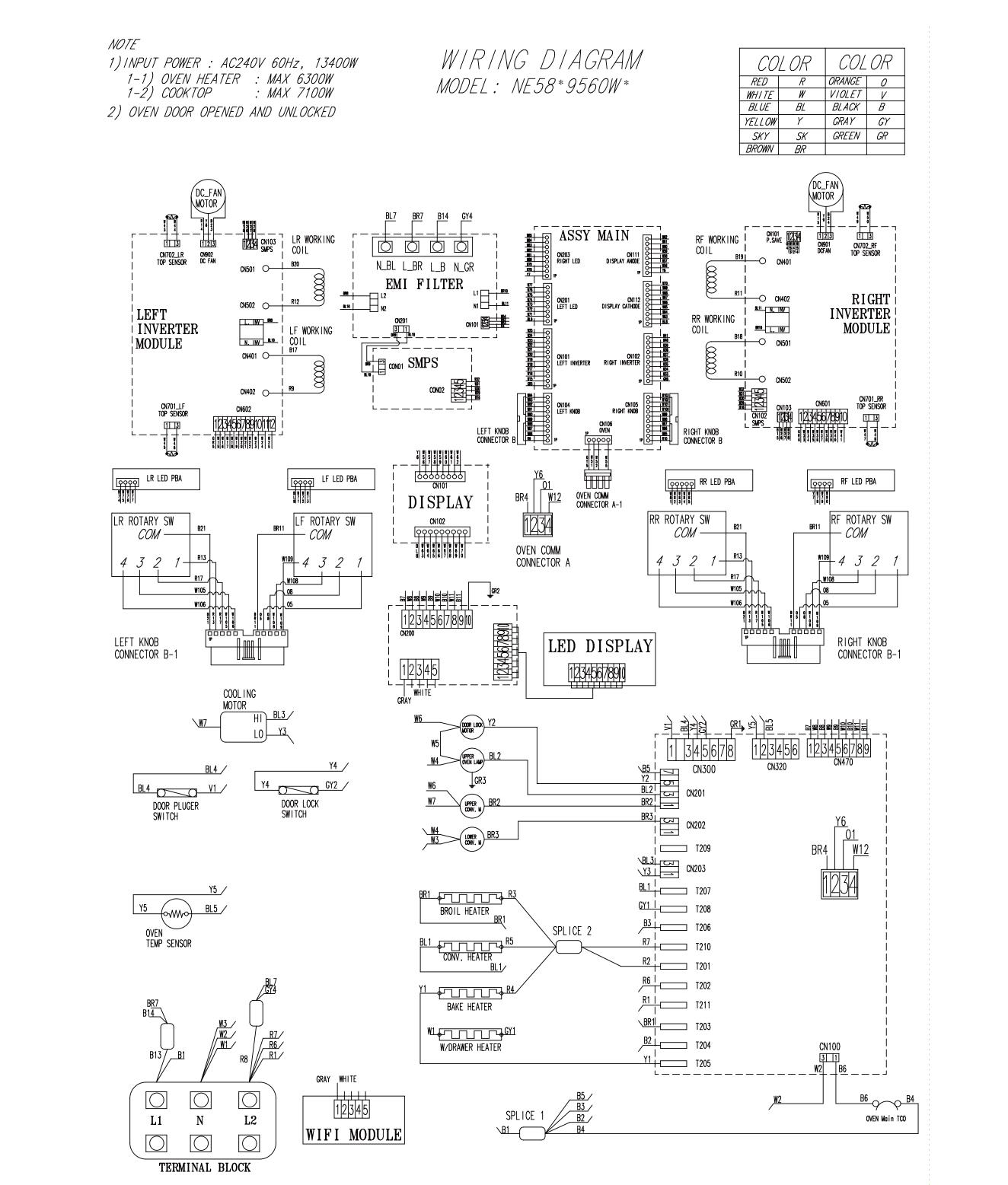


1     NY201     NY204	No.	Parts Number	Part Name	Function and Rule
P         RV224         Bake-Heater Relay         (den relay: 1 will not be problem with revening the order in intenting Blue)           3         RV223         Base-Heater Relay         "Thin indentify Statistic time integring Statistic time	1	RY201	RY-Source Relay	This is relay which control source of DLB, BAKE, BROIL, W/Drawer
Pr233         Broll-Islam Relay         (Bool relay: I will mot be problem with reveating the outries inserting Baro)           4         Rr222         DLB Relay         Clicult is depiced to have bool relay or convector relay with a bring worked by Double line breakt.           5         Rr226         DLB Relay         Their Relay is bring Drawer Itelian Relay.         Their Relay is bring Drawer Itelian.           6         Rr226         Convection Relay.         Their Relay (Bool relay: Itelian to be problem with revesting the outer in inserting Buro).           7         Rr214         OPTION (Cooling Fam)         Their is a space relay. (This relay is control with revesting the outer in inserting Buro).           9         Rr221         OPTION (Cooling Fam)         Their is a space relay. (This relay is control with revesting the outer in inserting Buro).           10         Rr212         OPTION (Cooling Fam)         Their is a space relay. (This relay is control with revesting the outer in inserting Buro).           11         Hr211         Over-Lamp Lelay         Their is relay within its connected with Counting Fam In inserting Fam Insertion.           12         Rr228         Convolution Relay.         Their is relay within its connected with Counting Fam In inserting Fam Insertion.           13         Rr221         Over-Lamp Lelay.         Their is relay within its connected with Count-Lamp Law.           14         Rr2210         Court-Lam	2	RY204	Bake-Heater Relay	(Broil relay : It will not be problem with reversing the order in inserting Brown)
4         INPRA         LLB Yearry         (ft will not be problem with evering the order in namering Red)           5         RY206         Warming Drewer Heater Relay         This is Relay to control Warming Drewer Heater.           6         RY206         Convection Relay         This is Relay to control Harming Drewer Heater.           7         RY214         OPTION (Colling Fair)         This is a spare relay. (This relay is contected with Coaling fair D in this model)           8         RY217         OPTION (Colling Fair)         This is a spare relay. (This relay is contected with Coaling fair D in this model)           9         RY212         OPTION (Colling Fair)         This is Relay to control Warming Denover Heater.           10         RY212         Over-Lamp-Leilay         This is relay which is connected with Coaling fair D in this model)           11         RY218         Over-Fair-Leilay         This is relay which is connected with Core-Fair-Leix.           12         RY208         Conv-amp-Leilay         This is relay which is connected with Core-Fair-Leix.           13         RY209         Conv-fair D Relay         This is relay which is connected with Core-Fair-Leix.           14         RY219         Door Leok Relay         This is relay which is connected with Core-Fair-Leix.           14         RY209         Conv-aminel         This is terminal to connech transes	3	RY203	Broil-Heater Relay	(Broil relay : It will not be problem with reversing the order in inserting Brown)
6         RY205         Convection Relay (Broil relay; Hull not be profeen with revensing the order in inserting Brow)           7         RY214         OPTION (Cooling Fam)         This is a spare relay (This relay is concled with cooling fan Lo in this model)           8         RY213         OPTION (Cooling Fam)         This is a spare relay. (This relay is conceled with Cooling fan Lo in this model)           9         RY212         OPTION (Cooling Fam)         This is a spare relay. (This relay is conceled with Cooling fan Lo in this model)           10         RY212         Oven-Lamp-L Relay         This is a spare relay. (This relay is conceled with Cooling fan Lo in this model)           11         RY210         Oven-Lamp-L Relay         This is relay which is connected with Oven-Lamp-Low.           12         RY210         Oven-Lamp-L Relay         This is relay which is connected with Corv. Fam.           13         RY219         Conv-Lamp-U Relay         This is relay which is connected with Corv. Fam.           14         RY210         Door Lock Relay         This is relay which is connected with Corv. Fam.           14         RY210         Door Lock Relay         This is terminal to connect haves with Bake relay.           15         T205         Bake Terminal         This is terminal to connect haves with Corv. Lamp.           16         T204         Brool Terminal         This is ter	4	RY202	DLB Relay	
6         RY205         Convection Relay         (Brod relay: 1 will not be problem with reversing the order in inserting Brown) (Base relay: 1 will not be problem with reversing the order in inserting Brown)           7         RY214         OPTION (Cooling Fan)         This is a spare relay. (This relay is connected with Cooling fan Lo in this model)           8         RY213         OPTION (Cooling Fan)         This is a spare relay. (This relay is connected with Cooling fan Hin this model)           9         RY212         Over-team. Relay         This is a spare relay. (This relay is connect with Cooling fan Hin this model)           10         RY211         Over-fan-L Relay         This is relay which is connect with Over-fan-Low.           11         RY210         Over-fan-L Relay         This is relay which is connect with Core-Lamp-Low.           12         RY208         Conv-Lamp Relay         This is relay which is connect with Conv-Lamp-Low.           13         RY210         Door Lock Relay         This is relay which is connect with Conv-Lamp-Low.           14         RY210         Door Lock Relay         This is relay which is connect with Conv-Lamp-Low.           16         T204         Broil Terminal         This is terminal to connect harness with Conve-Lamp-Low.           17         T203         DLB Terminal         This is terminal to connect harness with Convection-healer relay.           18	5	RY206	Warming Drawer Heater Relay	This is Relay to control Warming Drawer-Heater.
8         RY213         OPTION (Cooling Fan)         This is a pare relay. (This relay is connected with Cooling fan H in this model)           9         RY217         WC-Hauter Relay         This is Relay to control Warming Contor-Heater.           10         RY212         Oven-Lamp-L Relay         This is relay which is connected with Oven-Lamp-Low.           11         RY211         Oven-Fan-L Relay         This is relay which is connected with Core-Fan-Low.           12         RY208         Conv-Fan-U Relay         This is relay which is connected with Core-Lamp-Upper           14         RY210         Deor Lock Relay         This is relay which is connected with Core-Lamp-Upper           16         T205         Bake Terminal         This is terminal to connect harmess with Bake relay.           16         T204         Broll Terminal         This is terminal to connect harmess with Bake relay.           17         T203         DLB Terminal         This is terminal to connect harmess with Bake relay.           19         T201         T201         T201         T201           19         T204         Broll Terminal         This is terminal to connect harmess with Convection-heater relay.           20         T206         Convaction-Heater Terminal         This is terminal to connect harmess with relay to get heater on warming drawer work.           23 <td>6</td> <td>RY205</td> <td>Convection Relay</td> <td>(Broil relay : It will not be problem with reversing the order in inserting Brown)</td>	6	RY205	Convection Relay	(Broil relay : It will not be problem with reversing the order in inserting Brown)
9         RY207         WC-Heater Relay         This is Relay to control Warming Centor-Heater.           10         RY212         Oven-Lamp-L Relay         This is relay which is connected with Oven-Lamp-Low.           11         RY211         Oven-Fan-L Relay         This is relay which is connected with Oven-Lamp-Low.           12         RY208         Conv-Fan-L Relay         This is relay which is connected with Corn-Fan-Low.           13         RY209         Conv-Fan-L Relay         This is relay which is connected with Corn-Lamp-Upper           14         RY210         Door Lock Relay         This is relay which is connected with Corn-Lamp-Upper           14         RY210         Door Lock Relay         This is relay which is connected with Corn-Lamp-Upper           16         T204         Bake Torminal         This is relay which is connected with Corn-Lamp-Upper           17         T203         Broil Terminal         This is terminal to connect harness with Boil relay.           18         T211         T210         T210         T210           20         T206         Convection-Heater Terminal         This is terminal to connect harness with convection-heater relay.           21         T208         WD-Heater Terminal         This is terminal to connect harness with relay to get heater on warning drawer work.           23         CN203 </td <td>7</td> <td>RY214</td> <td>OPTION (Cooling Fan)</td> <td>This is a spare relay. (This relay is connected with Cooling fan Lo in this model)</td>	7	RY214	OPTION (Cooling Fan)	This is a spare relay. (This relay is connected with Cooling fan Lo in this model)
10       RV212       Oven-Lamp-L Relay       This is relay which is connected with Oven-Lamp-Low.         11       RV208       Conv-Fan-L Relay       This is relay which is connected with Oven-Fan-Low.         12       RV208       Conv-Lamp-L Relay       This is relay which is connected with Oven-Fan-Low.         13       RV209       Conv-Lamp-U Relay       This is relay which is connected with Conv-Lamp-Upper         14       RV210       Door Lock Relay       This is relay which is connected with Conv-Lamp-Upper         14       RV210       Door Lock Relay       This is relay which is connected with Conv-Lamp-Upper         14       RV210       Door Lock Relay       This is terminal to connect hamess with Bake relay.         16       T204       Broil Terminal       This is terminal to connect hamess with DLB relay.         17       T203       DLB Terminal       This is terminal to connect hamess with convection-heater relay.         19       T201       Convection-Heater Terminal       This is terminal to connect hamess with convection-heater relay.         21       T208       WD-Heater Terminal       This is terminal to connect hamess with convection-heater relay.         22       T209       VC-Heater Terminal       This is terminal to connect hamess with relay to get heater on warming drawer work.         23       CN203       spare connec	8	RY213	OPTION (Cooling Fan)	This is a spare relay. (This relay is connected with Cooling fan Hi in this model)
11         RY211         Oven-Fan-L Relay         This is relay which is connected with Oven-Fan-Low.           12         RY208         Conv-Fan-U Relay         This is relay which is connected with Conv. Fan.           13         RY209         Conv-Lamp-U Relay         This is relay which is connected with Conv-Lamp-Upper           14         RY210         Door Lock Relay         This is relay which is connected with Conv-Lamp-Upper           14         RY210         Door Lock Relay         This is relay which is connected with Conv-Lamp-Upper           15         T205         Bake Terminal         This is relay which is connect harness with Bake relay.           16         T204         Broil Terminal         This is terminal to connect harness with Bcoil relay.           17         T203         DLB Terminal         This is terminal to connect harness with DLB relay.           19         T201         DLB Terminal         This is terminal to connect harness with convection-heater relay.           20         T206         Convection-Heater Terminal         This is terminal to connect harness with convection-heater relay.           21         T208         WD-Heater Terminal         This is terminal to connect harness with relay to get heater on warming drawer work.           23         CN1203         spare connector         This is terminal to connect harness with relay to get heater on warmi	9	RY207	WC-Heater Relay	This is Relay to control Warming Centor-Heater.
12         RY208         Conv-Fan-U Relay         This is relay which is connected with Conv-Fan.           13         RY209         Conv-Lamp-U Relay         This is relay which is connected with Conv-Lamp-Upper           14         RY210         Door Lock Relay         This is relay which is connected with door lock motor.           15         T205         Bake Terminal         This is terminal to connect hamess with Bake relay.           16         T204         Broil Terminal         This is terminal to connect hamess with Broil relay.           17         T203         Broil Terminal         This is terminal to connect hamess with Broil relay.           18         T211         T202         DLB Terminal         This is terminal to connect hamess with DLB relay.           19         T201         T202         DLB Terminal         This is terminal to connect hamess with DLB relay.           20         T206         Convection-Heater Terminal         This is terminal to connect hamess with relay to get heater on warming drawer work.           21         T207         Convection-Heater Terminal         This is terminal to connect hamess with relay to get heater on warming centor work.           23         CN203         spare connector         This is terminal to connect hamess with relay to get heater on warming centor work.           24         T209         WC-Heater Terminal	10	RY212	Oven-Lamp-L Relay	This is relay which is connected with Oven-Lamp-Low.
13         RY209         Conv-Lamp-U Relay         This is relay which is connected with Conv-Lamp-Upper           14         RY210         Door Lock Relay         This is relay which is connected with door lock motor.           15         T205         Bake Terminal         This is relay which is connected with door lock motor.           16         T204         Broil Terminal         This is terminal to connect harness with Bake relay.           16         T204         Broil Terminal         This is terminal to connect harness with Broil relay.           17         T203         DLB Terminal         This is terminal to connect harness with Broil relay.           18         T211         T202         DLB Terminal         This is terminal to connect harness with DLB relay.           19         T201         Convection-Heater Terminal         This is terminal to connect harness with DLB relay.           20         T206         Convection-Heater Terminal         This is terminal to connect harness with relay to get heater on warming drawer work.           21         T208         WD-Heater Terminal         This is terminal to connect harness with relay to get heater on warming drawer work.           23         CN203         spare connector         This is terminal to connect harness with relay to get heater on warming drawer work.           25         CN202         Relay Connector	11	RY211	Oven-Fan-L Relay	This is relay which is connected with Oven-Fan-Low.
14         RY210         Door Lock Relay         This is relay which is connected with door lock motor.           16         T206         Bake Terminal         This is terminal to connect harness with Bake relay.           16         T204         Broil Terminal         This is terminal to connect harness with Broil relay.           18         T211         T203         DLB Terminal         This is terminal to connect harness with Broil relay.           19         T201         T206         Convection-Heater Terminal         This is terminal to connect harness with DLB relay.           20         T206         Convection-Heater Terminal         This is terminal to connect harness with convection-heater relay.           21         T208         WD-Heater Terminal         This is terminal to connect harness with convection-heater relay.           23         CN203         spare connector         This is terminal to connect harness with relay to get heater on warming drawer work.           25         CN202         Relay Connector         OVEN FAN L, OVEN LAMP L           26         CN201         Relay Connector         OVEN FAN L, OVEN LAMP L           27         CN300         Door Lock, Divider Connector         This is connector which is connected with Door plung switch and Door lock switch, divider switch.           28         CN320         Oven Sensing Connector         This is	12	RY208	Conv-Fan-U Relay	This is relay which is connected with Conv. Fan.
15         T205         Bake Terminal         This is terminal to connect harness with Bake relay.           16         T204         Broil Terminal         This is terminal to connect harness with Broil relay.           17         T203         DLB Terminal         This is terminal to connect harness with DLB relay.           18         T211         T202         DLB Terminal         This is terminal to connect harness with DLB relay.           19         T210         T206         Convection-Heater Terminal         This is terminal to connect harness with convection-heater relay.           20         T206         Convection-Heater Terminal         This is terminal to connect harness with convection-heater relay.           21         T208         WD-Heater Terminal         This is terminal to connect harness with relay to get heater on warming drawer work.           23         CN203         spare connector         This is terminal to connect harness with relay to get heater on warming centor work.           24         T209         WC-Heater Terminal         This is terminal to connect harness with relay to get heater on warming centor work.           25         CN202         Relay Connector         OVEN FAN L, OVEN LAMP L           26         CN201         Relay Connector         This is connected with Door plung switch and Door lock switch, divider switch.           28         CN320	13	RY209	Conv-Lamp-U Relay	This is relay which is connected with Conv-Lamp-Upper
16         T204         Broil Terminal         This is terminal to connect harness with Broil relay.           17         T203         DLB Terminal         This is terminal to connect harness with Broil relay.           18         T211         T202         DLB Terminal         This is terminal to connect harness with DLB relay.           19         T201         T206         Convection-Heater Terminal         This is terminal to connect harness with convection-heater relay.           20         T206         Convection-Heater Terminal         This is terminal to connect harness with relay to get heater on warming drawer work.           21         T208         WD-Heater Terminal         This is terminal to connect harness with relay to get heater on warming drawer work.           23         CN203         spare connector         This is terminal to connect harness with relay to get heater on warming centor work.           24         T209         WC-Heater Termainal         This is terminal to connect harness with relay to get heater on warming centor work.           25         CN202         Relay Connector         OVEN FAN L, OVEN LAMP L           26         CN201         Relay Connector         This is connector which is connected with Cooling fan in this model.)           27         CN300         Door Lock, Divider Connector         This is connector which is connected with Cool work.           28 <td>14</td> <td>RY210</td> <td>Door Lock Relay</td> <td>This is relay which is connected with door lock motor.</td>	14	RY210	Door Lock Relay	This is relay which is connected with door lock motor.
17T203Broil TerminalThis is terminal to connect harness with Broil relay.18T21119T20119T2017200Convection-Heater Terminal20T20622T20720T20821T20822T20720Convection-Heater Terminal11This is terminal to connect harness with convection-heater relay.21T20823CN20324T20925CN20226CN20227CN30026CN20227CN30028CN20129CN47029CN47030CN46020COOK TOP UART29CN46120COX TOP UART21COX FOR UART23CN43033CN43033CN43034CN430 <t< td=""><td>15</td><td>T205</td><td>Bake Terminal</td><td>This is terminal to connect harness with Bake relay.</td></t<>	15	T205	Bake Terminal	This is terminal to connect harness with Bake relay.
17       T203       T203         18       T211         19       T201         19       T210         20       T206         22       T207         24       T208         WD-Heater Terminal       This is terminal to connect harness with convection-heater relay.         21       T206         22       T207         CN203       spare connector         This is terminal to connect harness with relay to get heater on warming drawer work.         23       CN203         24       T209         WC-Heater Terminal       This is terminal to connect harness with relay to get heater on warming drawer work.         25       CN202       Relay Connector         26       CN202       Relay Connector         27       CN300       Door Lock, Divider Connector         28       CN320       Oven Sensing Connector       This is connected with Oven sensor.         29       CN470       Sub Communication Connector       This is connect cock-Top to FM-NEW-MAIN PBA.         31       CN460       COOK TOP UART       (For ELEC OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA.         32       CN450       HASS       This is to connect to miciom writer. And this connected with Touch PC	16	T204		
Image: Transmission of the term in term in the term in term in term in the term in the term in ter	17	T203	Broil Terminal	This is terminal to connect harness with Broil relay.
19T201120T21020T20622T20721T20822T20721T20822T20721T20822CN20323CN20324T20925CN20226CN20227OVEN FAN L, OVEN LAMP L26CN20127CN30028CN20129Connector29CN47029CONT FAN L, OVEN LAMP U, DOOR LOCK, AC120V_LINE29CN47029CN47030CN460COOK TOP UART31CN46120COOK TOP UART32CN43033CN43033CN43034CN43034CN43034CN43034CN43034CN43034CN43034CN43034CN43034CN43034CN43034CN43035CN43036CN43037CN43038CN43039CN43030CN43031CN43034CN43035CN43036CN43037CN43038CN43039CN43030CN45030CN45031CN45032CN450 <t< td=""><td>18</td><td>T211</td><td></td><td></td></t<>	18	T211		
19T20120T21020T20620Convection-Heater TerminalThis is terminal to connect harness with convection-heater relay.21T208WD-Heater TerminalThis is terminal to connect harness with relay to get heater on warming drawer work.23CN203spare connectorThis is terminal to connect harness with relay to get heater on warming drawer work.23CN203spare connectorThis is terminal to connect harness with relay to get heater on warming drawer work.24T209WC-Heater TermainalThis is terminal to connect harness with relay to get heater on warming centor work.25CN202Relay ConnectorOVEN FAN L, OVEN LAMP L26CN201Relay ConnectorCONV FAN U, OVEN LAMP L27CN300Door Lock, Divider ConnectorThis is connector which is connected with Door plung switch and Door lock switch, divider switch.28CN320Oven Sensing ConnectorThis is connector which is connected with oven sensor.29CN470Sub Communication ConnectorThis is to connect Mark by PCB to communicate.30CN460COOK TOP UART(For GAS OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA.31CN451COOK TOP UART(For GAS OVEN) This is to connect HASS.33CN430On Board Writing ConnectorWhen do micom revision, connect to micom writer. And this connected with Touch PCB to communicate.		T202	DI B Terminal	This is terminal to connect harness with DLB relay
20T206 22Convection-Heater TerminalThis is terminal to connect harness with convection-heater relay.21T208WD-Heater TerminalThis is terminal to connect harness with relay to get heater on warming drawer work.23CN203spare connectorThis is for spare relays (RY213, RY214). (This connect or is connected with Cooling fan in this model.)24T209WC-Heater TerminalThis is for spare relays (RY213, RY214). (This connect or warming centor work.25CN202Relay ConnectorOVEN FAN L, OVEN LAMP L26CN201Relay ConnectorCONV FAN U, OVEN LAMP U, DOOR LOCK, AC120V_LINE27CN300Door Lock, Divider ConnectorThis is connector which is connected with Door plung switch and Door lock switch, divider switch.28CN320Oven Sensing ConnectorThis is connector which is connected with Sub PCB to communicate.30CN460COOK TOP UART(For ELEC OVEN) This is to connect Cook-Top to FM-NEW-MAIN PBA.31CN461COOK TOP UART(For GAS OVEN) This is to connect to micom writer. And this connected with Touch PCB to communicate.33CN430On Board Writing ConnectorWhen do micom revision, connect to micom writer. And this connected with Touch PCB to communicate.	19	T201		
22T207Convection-Heater TerminalThis is terminal to connect harness with convection-heater relay.21T208WD-Heater TerminalThis is terminal to connect harness with relay to get heater on warming drawer work.23CN203spare connectorThis is for spare relays (RY213, RY214). (This connector is connected with Cooling fan in this model.)24T209WC-Heater TerminalThis is terminal to connect harness with relay to get heater on warming centor work.25CN202Relay ConnectorOVEN FAN L, OVEN LAMP L26CN201Relay ConnectorCONV FAN U, OVEN LAMP U, DOOR LOCK, AC120V_LINE27CN300Door Lock, Divider ConnectorThis is connected with Door plung switch and Door lock switch, divider switch.28CN320Oven Sensing ConnectorThis is connecter which is connected with Oven sensor.29CN470Sub Communication ConnectorThis is to connect Cook-Top to FM-NEW-MAIN PBA.31CN461COOK TOP UART(For ELEC OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA.32CN430On Board Writing ConnectorWhen do micom revision, connect to micom writer. And this connected with Touch PCB to communicate.				
21T208WD-Heater TerminalThis is terminal to connect harness with relay to get heater on warming drawer work.23CN203spare connectorThis is for spare relays (RY213, RY214). (This connector is connected with Cooling fan in this model.)24T209WC-Heater TermainalThis is terminal to connect harness with relay to get heater on warming centor work.25CN202Relay ConnectorOVEN FAN L, OVEN LAMP L26CN201Relay ConnectorCONV FAN U, OVEN LAMP U, DOOR LOCK, AC120V_LINE27CN300Door Lock, Divider ConnectorThis is connector which is connected with Door plung switch and Door lock switch, divider switch.28CN320Oven Sensing ConnectorThis is connector which is connected with Sub PCB to communicate.30CN460COOK TOP UART(For ELEC OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA.31CN450HASSThis is to connect HASS.33CN430On Board Writing ConnectorWhen do micom revision, connect to micom writer. And this connected with Touch PCB to communicate.			Convection-Heater Terminal	This is terminal to connect harness with convection-heater relay.
23CN203spare connectorThis is for spare relays (RY213, RY214). (This connector is connected with Cooling fan in this model.)24T209WC-Heater TermainalThis is terminal to connect harness with relay to get heater on warming centor work.25CN202Relay ConnectorOVEN FAN L, OVEN LAMP L26CN201Relay ConnectorCONV FAN U, OVEN LAMP U, DOOR LOCK, AC120V_LINE27CN300Door Lock, Divider ConnectorThis is connector which is connected with Door plung switch and Door lock switch, divider switch.28CN320Oven Sensing ConnectorThis is connector which is connected with Doven sensor.29CN470Sub Communication ConnectorThis is connector which is connect Cook-Top to FM-NEW-MAIN PBA.31CN461COOK TOP UART(For GAS OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA.32CN430On Board Writing ConnectorWhen do micom revision, connect to micom writer. And this connected with Touch PCB to communicate.			WD-Heater Terminal	This is terminal to connect harness with relay to get heater on warming drawer work
24T209WC-Heater TermainalThis is terminal to connect harness with relay to get heater on warming centor work.25CN202Relay ConnectorOVEN FAN L, OVEN LAMP L26CN201Relay ConnectorCONV FAN U, OVEN LAMP U, DOOR LOCK, AC120V_LINE27CN300Door Lock, Divider ConnectorThis is connector which is connected with Door plung switch and Door lock switch, divider switch.28CN320Oven Sensing ConnectorThis connector which is connected with oven sensor.29CN470Sub Communication ConnectorThis is connect which is connect dwith Sub PCB to communicate.30CN460COOK TOP UART(For ELEC OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA.32CN450HASSThis is to connect HASS.33CN430On Board Writing ConnectorWhen do micom revision, connect to micom writer. And this connected with Touch PCB to communicate.				
26CN201Relay ConnectorCONV FAN U, OVEN LAMP U, DOOR LOCK, AC120V_LINE27CN300Door Lock, Divider ConnectorThis is connector which is connected with Door plung switch and Door lock switch, divider switch.28CN320Oven Sensing ConnectorThis connector which is connected with oven sensor.29CN470Sub Communication ConnectorThis is connector which is connected with Sub PCB to communicate.30CN460COOK TOP UART(For ELEC OVEN) This is to connect Cook-Top to FM-NEW-MAIN PBA.31CN461COOK TOP UART(For GAS OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA.32CN450HASSThis is to connect HASS.33CN430On Board Writing ConnectorWhen do micom revision, connect to micom writer. And this connected with Touch PCB to communicate.			· · · · · · · · · · · · · · · · · · ·	
27CN300Door Lock, Divider ConnectorThis is connector which is connected with Door plung switch and Door lock switch, divider switch.28CN320Oven Sensing ConnectorThis connector which is connected with oven sensor.29CN470Sub Communication ConnectorThis is connector which is connected with Sub PCB to communicate.30CN460COOK TOP UART(For ELEC OVEN) This is to connect Cook-Top to FM-NEW-MAIN PBA.31CN461COOK TOP UART(For GAS OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA.32CN450HASSThis is to connect HASS.33CN430On Board Writing ConnectorWhen do micom revision, connect to micom writer. And this connected with Touch PCB to communicate.	25	CN202	Relay Connector	OVEN FAN L, OVEN LAMP L
28CN320Oven Sensing ConnectorThis connector which is connected with oven sensor.29CN470Sub Communication ConnectorThis is connector which is connected with Sub PCB to communicate.30CN460COOK TOP UART(For ELEC OVEN) This is to connect Cook-Top to FM-NEW-MAIN PBA.31CN461COOK TOP UART(For GAS OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA.32CN450HASSThis is to connect HASS.33CN430On Board Writing ConnectorWhen do micom revision, connect to micom writer. And this connected with Touch PCB to communicate.	26	CN201	Relay Connector	CONV FAN U, OVEN LAMP U, DOOR LOCK, AC120V_LINE
29CN470Sub Communication ConnectorThis is connector which is connected with Sub PCB to communicate.30CN460COOK TOP UART(For ELEC OVEN) This is to connect Cook-Top to FM-NEW-MAIN PBA.31CN461COOK TOP UART(For GAS OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA.32CN450HASSThis is to connect HASS.33CN430On Board Writing ConnectorWhen do micom revision, connect to micom writer. And this connected with Touch PCB to communicate.	27	CN300	Door Lock, Divider Connector	This is connector which is connected with Door plung switch and Door lock switch, divider switch.
30CN460COOK TOP UART(For ELEC OVEN) This is to connect Cook-Top to FM-NEW-MAIN PBA.31CN461COOK TOP UART(For GAS OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA.32CN450HASSThis is to connect HASS.33CN430On Board Writing ConnectorWhen do micom revision, connect to micom writer. And this connected with Touch PCB to communicate.	28	CN320	Oven Sensing Connector	This connector which is connected with oven sensor.
31       CN461       COOK TOP UART       (For GAS OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA.         32       CN450       HASS       This is to connect HASS.         33       CN430       On Board Writing Connector       When do micom revision, connect to micom writer. And this connected with Touch PCB to communicate.	29	CN470	Sub Communication Connector	This is connector which is connected with Sub PCB to communicate.
32       CN450       HASS       This is to connect HASS.         33       CN430       On Board Writing Connector       When do micom revision, connect to micom writer. And this connector which is connected with Touch PCB to communicate.	30	CN460	COOK TOP UART	(For ELEC OVEN) This is to connect Cook-Top to FM-NEW-MAIN PBA.
33 CN430 On Board Writing Connector When do micom revision, connect to micom writer. And this connector which is connected with Touch PCB to communicate.	31	CN461	COOK TOP UART	(For GAS OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA.
	32	CN450	HASS	This is to connect HASS.
	33	CN430	On Board Writing Connector	When do micom revision, connect to micom writer. And this connector which is connected with Touch PCB to communicate.
	34	CN100		This is to supply power with SMPS.



No.	Parts Number	Part Name	Function and Rule
1	CN240	Option Connector	This is connector to select H/W option.
2	CN180	HASS Connector	This is connector for HASS.
3	CN500	Knob Light 5Volt Power connector	This is connector to provide 5V power to knob light.
4	CN200	Main Communication Connector	This is connector which is connected with Main PCB to communicate.
5	CN251	BLDC-FAN-SUB Control Ceonnector	This is to connect BLDC-FAN-SUB PBA. (For GAS Model)
6	CN380	Rotary Switch Connector	This is connector for Rotary Switch.
7	CN220	LED Module Connector	This is connector for LED Display Module.
8	CN270	WIFI Connector	This is connector to connect WIFI Module.
9	CN170	JTAG Monitoring Connector	This is connector for JTAG equipment.
10	CN601	Knob sensing Connector	This is connector to check knob ON/OFF.
11	CN700	Touch Download Connector	This is connector to download program for touch IC.
12	CN701	Touch Film Connector	This is to connect Touch-Film.

#### 6-1 Wiring diagram(New ver. PCB)



COOKTOP ELEMENTS			OVEN HEATING ELEMENTS		
COMPONENTS	INPUT	WATTAGE	COMPONENTS	INPUT	WATTAGE
RF INDUCTION ELEMENT	240V	2300	BAKE	240V	3000W
RR INDUCTION ELEMENT	240V	1200	BROIL	240V	4200W
LF INDUCTION ELEMENT	240V	1800	CONVECTION	240V	1250W
LR INDUCTION ELEMENT	240V	1800	WARM DRAWER	120V	600W

# SAMSUNG

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

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

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