



FREE STANDING RANGE

MODEL: FTQ352IWW
MODEL CODE: FTQ352IWW/XAC
VERSION: 00,01,02,03

SERVICE *Manual*

ELECTRIC RANGE



CONTENTS

1. Precaution
2. Product Specification
3. Disassembly and Reassembly
4. Troubleshooting
5. Exploded Views and Part List
6. PCB Diagrams
7. Schematic Diagrams
8. Wiring Diagram

Refer to the service manual in the GSPN(see rear cover) for the more information.

• Contents

1. Precaution	3
1-1 Forward	3
1-2 Safety Precautions	3
1-3 Important Safety Instructions	4
1-4 Model & Serial Number Label and Tech Sheet Locations	6
2. Specifications	7
2-1 Features	7
2-2 Table of Specifications	9
2-3 Accessory	10
3. Disassembly and Reassembly	11
3-1 Removing Cover-Back Main Wire, Cover-Back Guard Wire and PCB-Main	11
3-2 Removing Regulator-Energy	12
3-3 Removing Surface elements and The Ceramic Glass Cooktop	13
3-4 Removing The Latch-Door & Switch-Door Plunger	15
3-5 Removing Heater-Broil	16
3-7 Removing Heater-Bake (00 Version)	17
3-6 Removing Heater-Bake (01 Version)	18
3-7 Removing Convection Element, Fan-Covnection and Motor-Convection	19
3-8 Removing Lamp	20
3-9 Removing Sensor-Thermistor	21
3-10 Removing Assy-Drawer & Heater-Warming Drawer	22
3-11 Removing and Replacing Oven Door	24
3-12 Removing Handle-Door and Glass-Inner	25
3-13 Removing Gasket-Door	28
3-14 Removing The Panel-Side	29
4. Troubleshooting	30
4-1 Failure Display Codes	30
4-2 Electrical Malfunction	62
5. Exploded Views and Parts List	89
5-1 Exploded Views	89
5-2 Main Parts List	93
5-3 Door Parts List	96
5-4 Control Parts List	100
5-5 Cook top Parts List	104
5-6 Drawer Parts List	108
5-7 Standard Parts List	112
5-8 Version Parts List	116
6. PCB Diagrams	117
6-1 PCB Diagrams (Main)	117
7. Wiring Diagrams	119
7-1 Wiring Diagrams	119
8. Schematic Diagrams	120
8-1 Schematic Diagrams	120
8-2 Schematic Diagrams	121

1. Precaution

1-1 Forward

This SAMSUNG Service Manual, “ 30” Freestanding Self-Cleaning Electric Range,” provides the technician with information on the operation and service of the Freestanding 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 an 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 warming 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 don'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



- INJURIES CAN OCCUR IF THE RANGE TIPS



- INSTALL ANTI-TIP DEVICE PACKED WITH RANGE



- 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.



CAUTION

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 cook-top 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.

1. Precaution

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.
- **Make Sure Reflector Pans or Drip Bowls Are in Place** – Absence of these pans or bowls during cooking may subject wiring or components underneath to damage.
- **Protective Liners** – Do not use aluminum foil to line surface unit drip bowls or oven bottoms, except as suggested in the manual. Improper installation of these liners may result in a risk of electric shock, or fire.
- **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.
- **Do Not Soak Removable Heating Elements** – Heating elements should never be immersed in water.
- Be sure you know which control pads operate 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 selfclean 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** – Build-up 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 heatsensitive items on 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 cooktop 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.

Model & Serial
Number Location



Tech Sheet Location
(On Low Rear Cover)



2. Specifications

2-1 Features

Features

Biggest Capacity
Large family food in holiday
Turkey 24lbs = 4.4 cu ft

- Samsung : 5.7 cu.ft
- Competitors
- A : 5.4 cu.ft B : 5.3 cu.ft



Dial Control
Easy to use and unique design

- Samsung : Dial control
- Competitors : Stick knob

Steam Cleaning
Casual clean without any smell
More frequently

- Samsung : Self clean + Steam Clean
- Competitors : Self clean

→

Surround Air - vection
Even cooking and energy efficiency

- Samsung : 3 fans
- Competitors : 1 fans

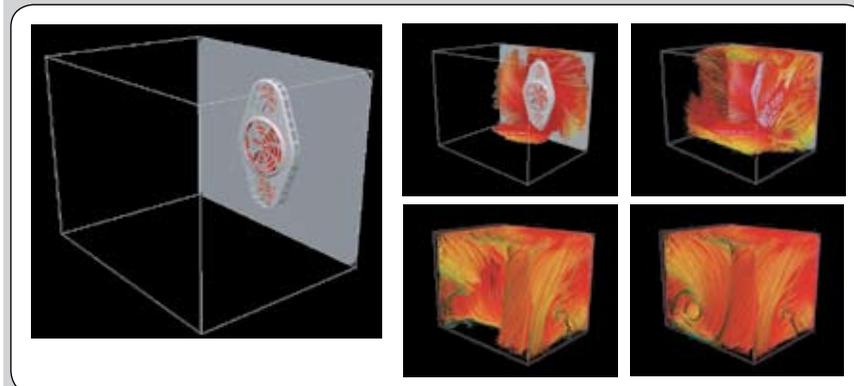
Samsung



Competitors



Surround Air-vection



- Main Convection Fan with 2-Sub.Fans 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

Features

Easy Steam Cleaning

- More Efficiency & Time Saving
- Available for Water and Oven Washing Liquid (Water + Detergent)
- Takes about 20minutes to Clean-out easily
- Steam fits Light and frequent cleaning,
(Pyrolitic Self-cleaning fits Greasy dirt cleaning)

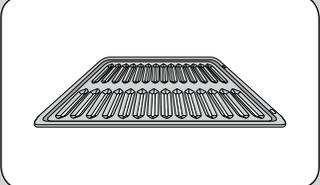
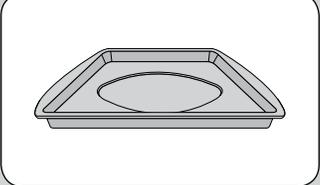
2. Specifications

2-2 Table of Specifications

Items		Model
		NEW MODEL
Model Name		FTQ352IWW/XAC
Category		Convection
Overall	Width	30"
	Installation type	Freestanding
	Color availability	STS, WH, BK
Control	Oven	Keypad
	Cooktop	Knob
	Display	LED
	Electronic clock	Yes
	Control lock capability	Yes
	Audible preheat signal	Yes
Cooktop	Material	Ceramic glass
	# of element	5
Power	LR	6"-1,200W
	RR	6"-1,200W
	CR	Warming Center (100W)
	LF	Dual(6"/9"-1,200/2,500W)
	RF	Dual(6"/9"-1,200/2,500W)
Oven	Capacity(cu.ft)	5.7
	Broil element	3800 watts
	Bake element	3000 watts
	Convection System	Yes
	-Convection element	No
	# of Racks	2
	Interior oven light	120V, 40 watts
	Cleaning	Self clean & Steam clean
Drawer	Type	Warming drawer
	Element	600 watts
	Warming rack	No
Dimensions (inch)	Oven Interior(W x H x D)	24 1/2 x 20 1/4 x 19 3/8
	Exterior - Width	29 7/8
	Exterior - Height	36 (cooktop), 47 5/8 (backguard top)
	Exterior - Depth	25 11/16 (Door), 28 (with handle)
	Net weight: Lbs (Kg)	181 lbs (82kg)
Power	Rating(240W 60Hz)	11.9Kw(120/240V) / 8.9Kw(120/208V)

2. Specifications

2-3 Accessory

Item	Description	Code No.	Q'ty
	Rack Flat	DG75-01001A	2
	Tray Grate	DG63-00068A	1
	Tray Broil	DG63-00067A	1
	Cleaner & Cleaning pad	DG97-00085A	1

3. Disassembly and Reassembly

3-1 Removing Cover-Back Main Wire, Cover-Back Guard Wire and PCB-Main

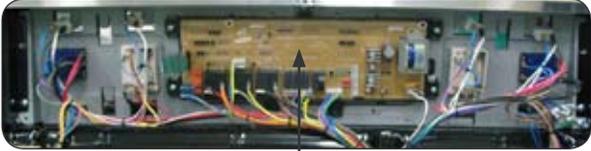
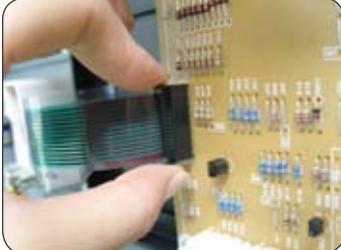
⚠ WARNING

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
Cover-Back Main Wire, Cover-Back Guard Wire and PCB-Main	 <p>Cover-Back Guard Wire</p> <p>Cover-Back Main Wire</p>	<ol style="list-style-type: none"> 1. Turn off the electrical supply going to the range. 2. Pull the range away from the wall so that you can access the rear panel. 3. Remove the 6 screws from the Cover-Back Main Wire and remove the panel.
	 <p>PCB Main</p>	<ol style="list-style-type: none"> 4. Remove 3 screws from the Cover-Back Guard Wire and remove the cover. 5. Remove 4 screws of PCB Main and separate PCB Main.
		<p>REASSEMBLY NOTE:</p> <p>When you remove(replace) membrane tail from the connector, pull the actuator fully</p>

3. Disassembly and Reassembly

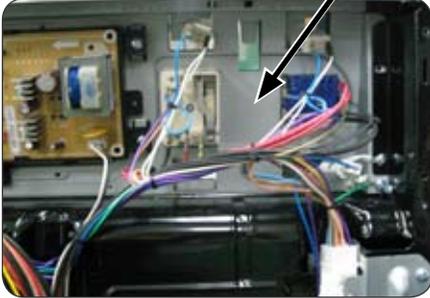
3-2 Removing Regulator-Energy

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
Regulator-Energy		<ol style="list-style-type: none"> 1. Turn off the electrical supply going to the range. 2. Pull the range away from the wall so that you can access the rear panel. 3. Remove Cover-Back Guard Wire
		<ol style="list-style-type: none"> 4. Remove Regulator-Energy connectors which be replaced.
		<ol style="list-style-type: none"> 5. Pull out the Knob-Dial.
		<ol style="list-style-type: none"> 6. Remove 2 screws and replace Regulator-Energy.

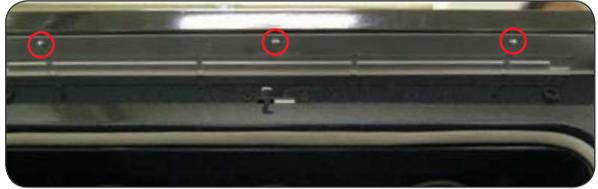
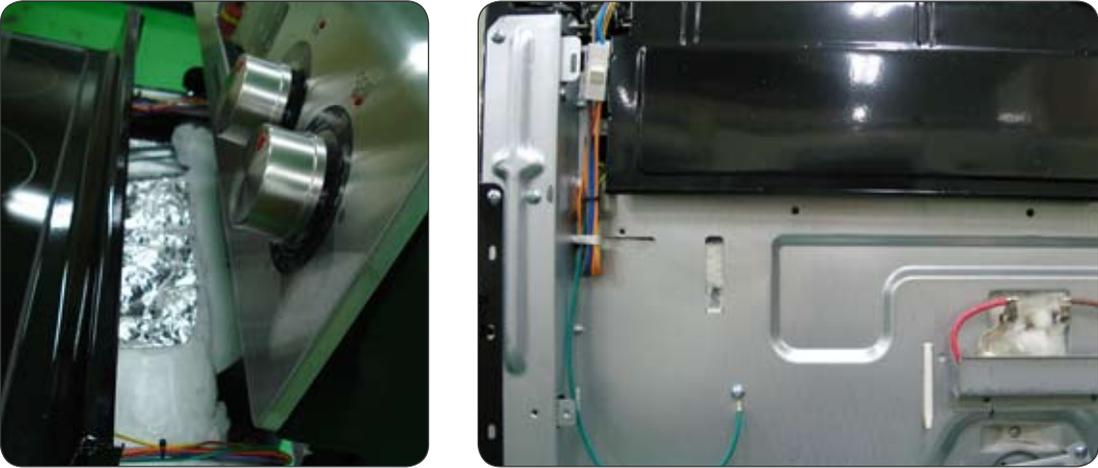
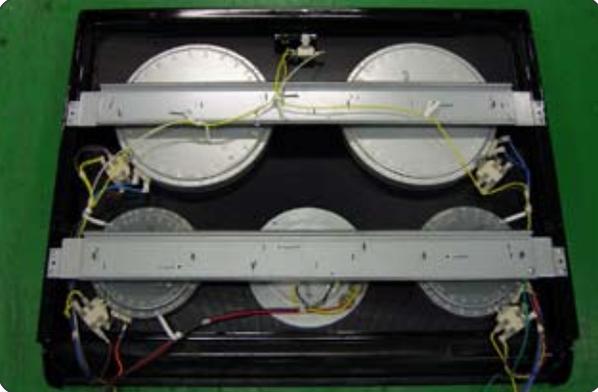
3. Disassembly and Reassembly

3-3 Removing Surface elements and The Ceramic Glass Cooktop

WARNING

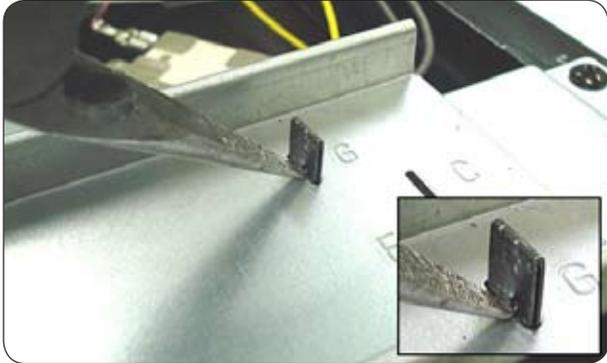
ELECTRICAL SHOCK HAZARD

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

Parts	Explanation Photo	Explanation
Surface elements and Ceramic Glass Cooktop		<ol style="list-style-type: none">1. Unplug the cord or disconnect power2. Open oven door and remove the 3 screws located at the front of the cook-top, then close the door.
		
	<ol style="list-style-type: none">3 Slightly lift up and pull up the cook-top and then unplug the 2 connectors wire at the back by squeezing side tabs and unscrew ground wire.	
		<ol style="list-style-type: none">4. Protect the cooktop surface and turn the assembly over.

3. Disassembly and Reassembly

3-3 Removing Surface elements and The Ceramic Glass Cooktop

Parts	Explanation Photo	Explanation
Surface elements and Ceramic Glass Cooktop		<p>5. To remove the surface elements</p> <ul style="list-style-type: none">a) Remove the wires from the element and limiter terminals.b) Remove the element bracket screw (shown above) for the element you are servicing.c) Carefully lift the bottom of the bracket just far enough to remove the element.d) Use sharp tool to remove the heating element. <p>REASSEMBLY NOTE: When you reinstall the element make sure that the wires are inserted into the correct tap then reinstall the bracket screw to secure it to the cooktop.</p>

3. Disassembly and Reassembly

3-4 Removing The Latch-Door & Switch-Door Plunger

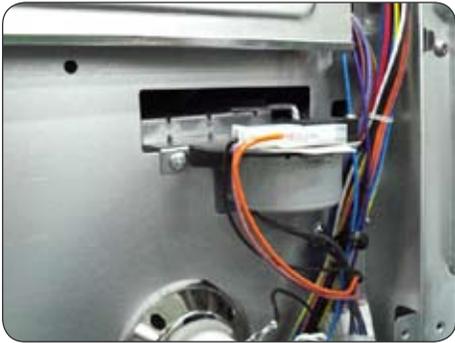
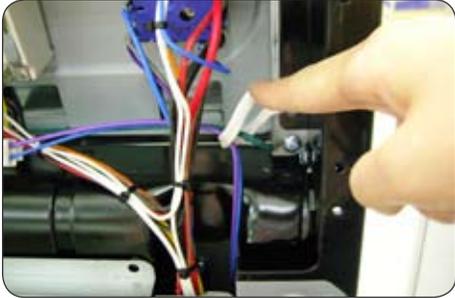
WARNING

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
Latch-Door & Switch-Door Plunger		<ol style="list-style-type: none"> 1. Turn off the electrical supply going to the range. 2. Open the oven door. 3. Raise the cooktop (see page 14 for the procedure). 4. To remove the Latch-Door: <ol style="list-style-type: none"> a) Remove the 2 screws from the front of cavity.
		<ol style="list-style-type: none"> <li value="2">b) Remove a screw from Cover-Back Main Guard and remove latch-door
		<ol style="list-style-type: none"> <li value="5">5. To remove the Switch-Door Plunger <ol style="list-style-type: none"> a) Remove the Cover-Back Guard Wire (see page 11 for the procedure). b) Release the wire from Cable Clamp. c) Remove the Switch-Door Plunger from the range. take out carefully with shaking up and down by using tool.
		

3. Disassembly and Reassembly

3-5 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.

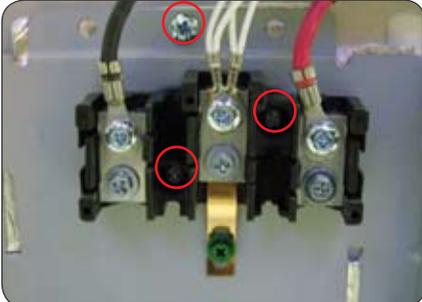
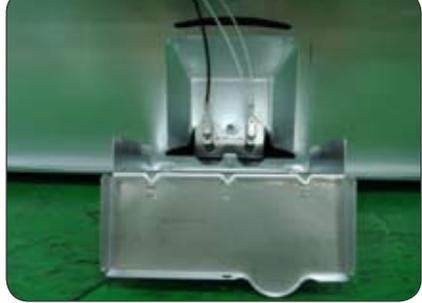
CAUTION

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.

Parts	Explanation Photo	Explanation
Broil	 The top photo shows the broil element (a metal cage with three heating coils) installed inside the oven. The bottom photo shows the electrical terminal block for the broil element, with wires connected to it.	<ol style="list-style-type: none">1. Turn off the electrical supply going to the range.2. Open the oven door and remove the racks from inside the oven.3. To remove the broil element.<ol style="list-style-type: none">a) Remove the Sensor-Thermistor and 4 screws from the front and rear brackets.b) Remove Cover-Back Main Wire and disconnect 2 wires from Heater-Broil and a wire from Sensor-Thermistor.

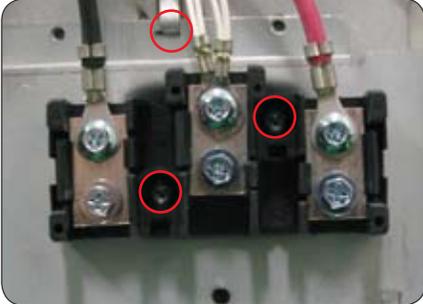
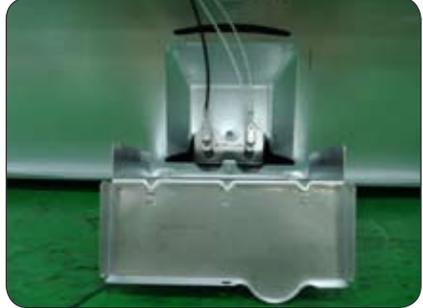
3. Disassembly and Reassembly

3-7 Removing Heater-Bake (00 Version)

Parts	Explanation Photo	Explanation
Heater-Bake		1. Unplug range or disconnect power. 2. Pull the range out of its mounting location so that you can access the rear of the unit. 3. Remove Cover-Back Main Wire. (See step 3~4 on page 11 for procedure)
		4. Remove Terminal-Block and Bracket-Cover Access(with Adiabatic-Terminal) by unscrew 3 points. 5. Remove Cover-Warming Heater and disconnect 2 wires.
		6. Unscrew 2 points of Heater-Bake.
		7. Cut the Adiabatic-Rear based on the lower side.
		8. Carefully pull out Heater-Bake and replace it.

3. Disassembly and Reassembly

3-6 Removing Heater-Bake (01 Version)

Parts	Explanation Photo	Explanation
Heater-Bake		<ol style="list-style-type: none">1. Unplug range or disconnect power.2. Pull the range out of its mounting location so that you can access the rear of the unit.3. Remove Cover-Back Main Wire.4. Remove Terminal-Block and Bracket-Cover Access(with Adiabatic-Terminal) by unscrew 2 points.
		<ol style="list-style-type: none">5. Remove Cover-Warming Heater and disconnect 2 wires.6. Unscrew 2 points of Heater-Bake.
		<ol style="list-style-type: none">7. Cut the Adiabatic-Rear based on the lower side.
		<ol style="list-style-type: none">8. Carefully pull out Heater-Bake and replace it.
		

3. Disassembly and Reassembly

3-7 Removing Convection Element, Fan-Convection and Motor-Convection

Parts	Explanation Photo	Explanation
<p>Convection Element, Fan-Convection , Motor-Convection</p>		<ol style="list-style-type: none"> 1. Disconnect power and remove oven racks. 2. Pull the range out of its mounting location so that you can access the rear of the unit. 3. Remove Cover-Back Main Wire from the unit. (See step 3 on page 11 for procedure) 4. Remove oven door. (See Page 24 on page for procedure) 5. Remove the Cover-Casing. 6. Unscrew nut of Fan-Convection Main(CW), and 2 Fan-Convection Planets(CCW). 7. Unscrew 9 points and disconnect a Motor-Convection wire and disconnect Heater-Convection wire.



CAUTION

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

3. Disassembly and Reassembly

3-8 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.

Parts	Explanation Photo	
		
Lamp	Explanation	
	<ol style="list-style-type: none"> 1. Disconnect power. 2. Remove oven door. 3. Turn the glass bulb cover in the oven counterclockwise to remove. 4. Turn bulb counterclockwise to remove from socket. 5. Replace bulb and cover by turning clockwise. 	
	<p>⚠ CAUTION</p> <p>Be careful not to scratch or chip the oven liner paint when to remove the oven light socket in the next step.</p>	
	Explanation Photo	Explanation
		<p>To replace socket assembly:</p> <ol style="list-style-type: none"> 6. Disconnect the wires from the socket terminals. 7. Use a screwdriver and bend the clips on the socket away from the edges of the liner hole (there are 6 clips on the socket), and pull the socket out of the liner. Push the socket out from the rear of the unit.

3. Disassembly and Reassembly

3-9 Removing Sensor-Thermistor

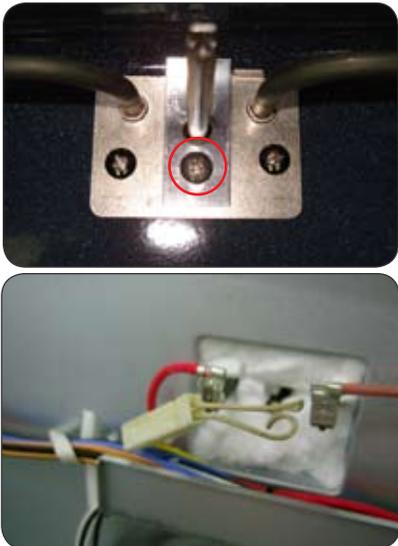
WARNING

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		<ol style="list-style-type: none">1. Turn off the electrical supply going to the range.2. Remove oven door and racks from inside the oven.3. Unscrew Sensor-Thermistor.4. Remove Cover-Back Main Wire and disconnect a wire from Sensor-Thermistor.5. Replace the Sensor-Thermistor.

3. Disassembly and Reassembly

3-10 Removing Assy-Drawer & Heater-Warming Drawer

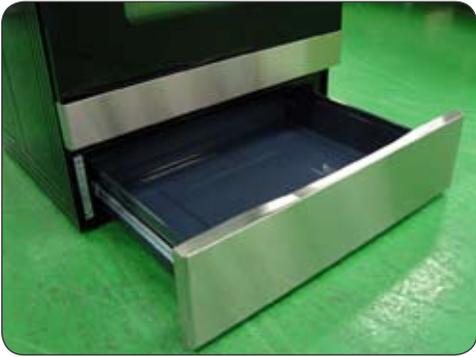
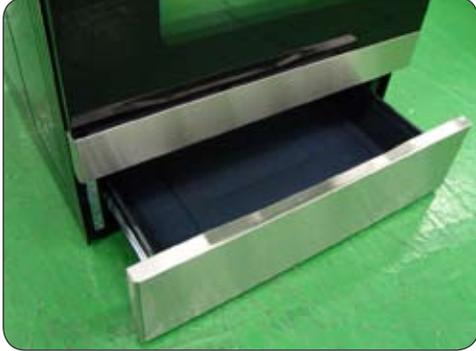
WARNING

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.

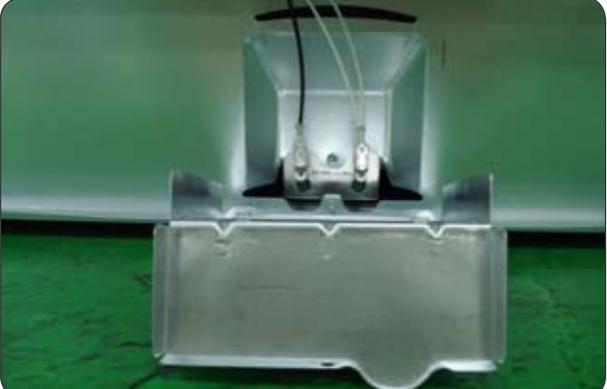
PRECAUTION

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	
Assy-Drawer & Heater-Warming Drawer		
		
Explanation		
<p>To remove Assy-Drawer:</p> <ol style="list-style-type: none">1. CAUTION -Turn power OFF before removing the Warming Drawer.2. Open the drawer to the fully opened position.3. Locate glide lever on each side of drawer, push down on the left glide lever and pull up on the right glide lever.4. Pull out the warning drawer.		

3. Disassembly and Reassembly

3-10 Removing Assy-Drawer & Heater-Warming Drawer

Parts	Explanation Photo	Explanation
Assy-Drawer & Heater- Warming Drawer		<p>To remove Heater-Warming Drawer:</p> <ol style="list-style-type: none">1. Remove two screws from Bracket-Warming Heater.
		<ol style="list-style-type: none">2. Remove Cover-Warming Heater and disconnect 2 wires.3. Pull out the Heater-Warming Drawer.

3. Disassembly and Reassembly

3-11 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
Oven door		<p>To remove Oven Door:</p> <ol style="list-style-type: none"> 1. Fully open the door 2. Pull the hinge locks downward(Fig.1)
		<ol style="list-style-type: none"> 3. Firmly grasp both side of the door at the top. 4. Close door to the door removal position, which is approximately 5 degrees. (refer to the Fig.2) Lift door up and out until the hinge arm are clear of the slot.
		<p>To replace door:</p> <ol style="list-style-type: none"> 1. Firmly grasp both sides of the door at the top position.
		<ol style="list-style-type: none"> 2. Fully open the door. (If the door will not fully open, it means that the indentation is not seated correctly in the bottom edge of the slot. Push the hinge locks up to the locked position.) 3. Close the oven door.

3. Disassembly and Reassembly

3-12 Removing Handle-Door and Glass-Inner

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.

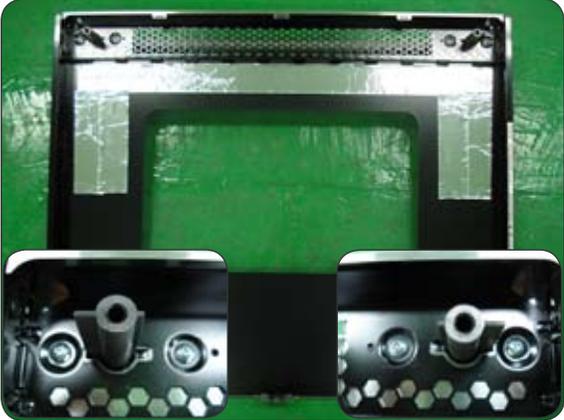
PRECAUTION

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
Door		<ol style="list-style-type: none">1. Remove the oven door from the range (see page 3-13 for the procedure.)2. Place the oven door on a padded work surface with the front glass facing down.3. Remove 3 bottom screws from the door.
		<ol style="list-style-type: none">4. Remove 2 Handle-screws from the door.5. Lift the door rear assembly off the front assembly and set it aside

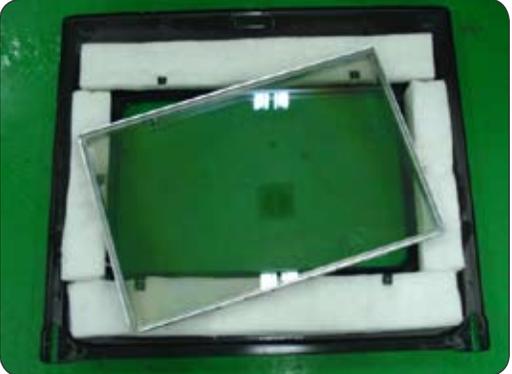
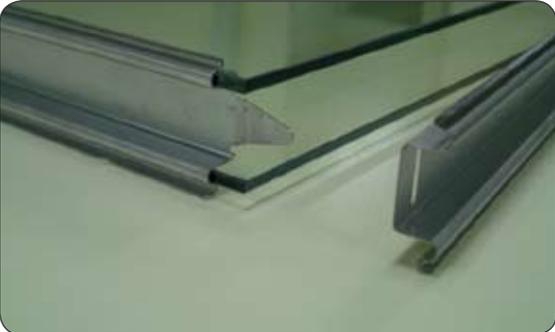
3. Disassembly and Reassembly

3-12 Removing Handle-Door and Glass-Inner

Parts	Explanation Photo	Explanation
Handle Door		<p>To remove Handle-Door</p> <ol style="list-style-type: none"> 1. Remove 2 screws to remove Handle-Door
		<ol style="list-style-type: none"> 2. Remove each side screw to remove Guide-Handle from Handle-Door.
Glass-Inner	 	<p>To remove Glass-Inner</p> <ol style="list-style-type: none"> 1. Remove 6 screws from rear side of door to remove 2 Hinge-Door.
		<ol style="list-style-type: none"> 2. Remove 4 screws to remove Glass-Inner Sub Assembly 3. Remove 7 screws to remove Baffle-Door

3. Disassembly and Reassembly

3-12 Removing Handle-Door and Glass-Inner

Parts	Explanation Photo	
		
	Explanation	
	<p>4. Remove Baffle-Door and take out the Glass-Inner assembly.</p>	
Handle Door	Explanation Photo	
		
	Explanation	
	<p>5. Unfold 2 flanges of Cover-Frame Inner Glass to taking out Glass-Inner (cf. When you reassemble the Glass-Inner, don't change it you check Glass-Inner's coating side.)</p>	

3. Disassembly and Reassembly

3-13 Removing Gasket-Door

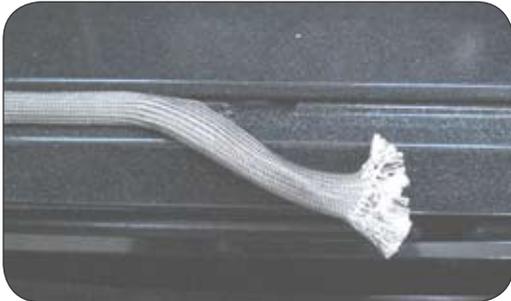
WARNING

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

3. Disassembly and Reassembly

3-14 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.

Parts	Explanation Photo	Explanation
Panel Side		<ol style="list-style-type: none">1. Turn off the electrical supply.2. Remove the oven door from the range3. Pull the range away from the wall so you can access the back of the unit.4. Remove the 8 screws from the rear of Panel-Side and remove Cooktop5. Remove the (each) 3screws from the top the Panel-Side.6. Pull the back of the side panel out from the range approximately 10°7. Push forward and remove Panel-Side.

4. Troubleshooting

4-1 Failure Display Codes

There is a error code and two kinds of error codes. Possible error codes during use can be checked before service.

1. Press CLOCK AM/PM pad.
2. Press the CLOCK AM/PM pad again to select AM.
3. Press a number 1, 2, 3, 4 pad.
4. Press the SET/START pad.
5. Press CUSTOM COOK and number 0 pads at the same time for 2 seconds. Error codes are displayed.
6. Press number 0 pad, the latest 5 error codes can be checked. But, if the oven turns off, the stored error codes are deleted.
7. Press CLEAR/OFF pad to return to normal display mode.



Oven sensor error

Failure code	CAUSE	SOLUTION
E-27	oven sensor opened (over 2950Ω)	<ol style="list-style-type: none"> 1. Disconnect power. Open the back cover. Disconnect sensor harness from control Measure sensor resistance :1080Ω at the room temperature → If there are any problems, replace oven sensor. 2. If there is not any problem with oven sensor, Please check whether there is a damaged terminal or wire on harness.
E-28	Oven sensor shorted. (Under 930Ω)	<ol style="list-style-type: none"> 3. Check resistance of oven sensor connector on main PCB (Normal:2850Ω)

4. Troubleshooting

4-1 Failure Display Codes

Safety error

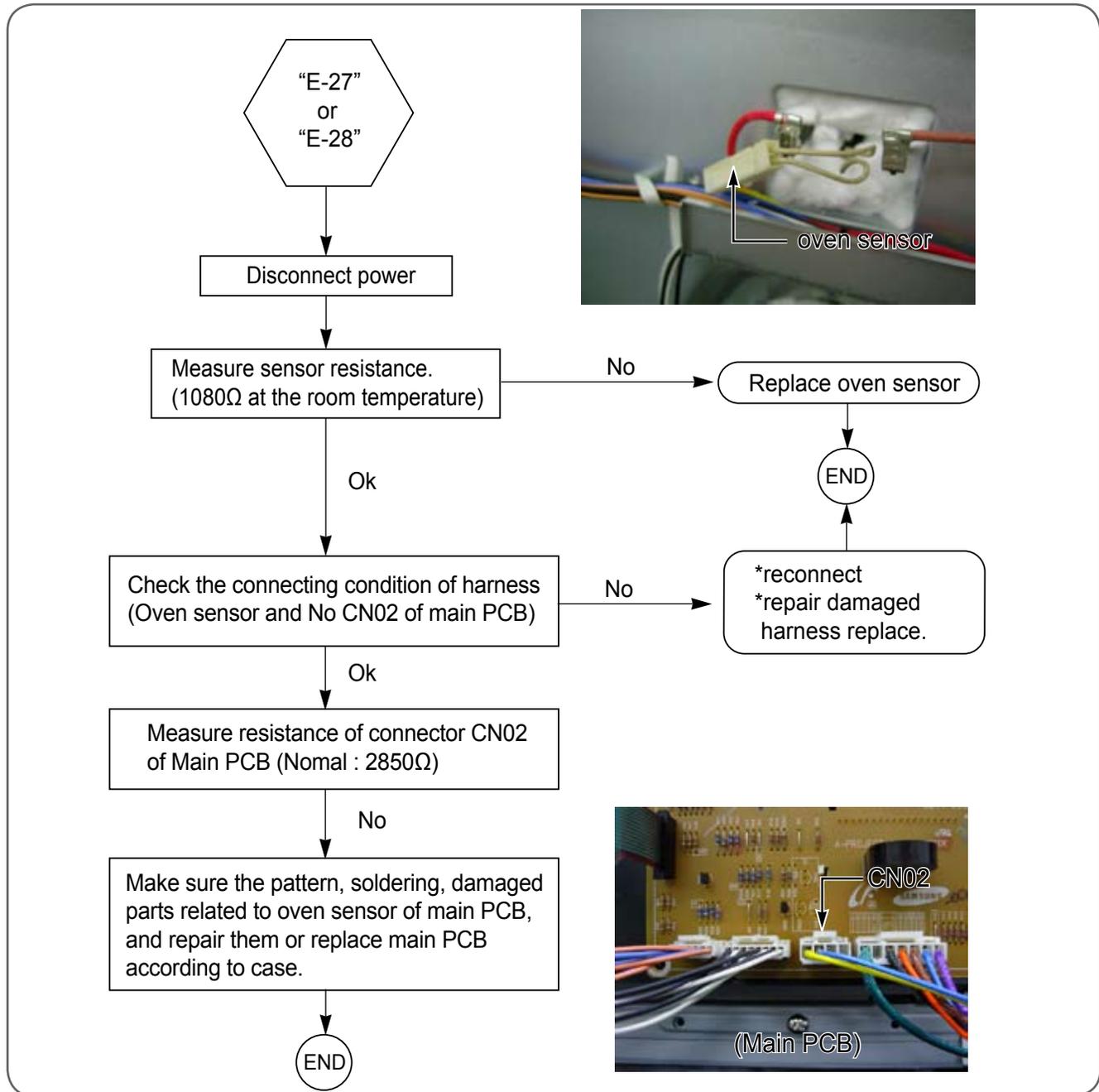
Failure code	CAUSE	SOLUTION
E-08	Oven heating error	<ol style="list-style-type: none"> 1. Disconnect power. Open the back cover. Disconnect sensor harness from control. Measure sensor resistance :1080Ω at the room temperature → If there are any problems, replace oven sensor. 2. Check the broil and bake heater. Check the resistance of the each heater.
E-0A	Oven heating over	<ol style="list-style-type: none"> 3. Check whether DLB of PCB, Broil and Bake heater relay are being worked normally. 4. Check whether there is any disconnection of harness. 5. Check the resistance of oven sensor connector on main PCB. (Normal : 2850Ω)
- SE -	Shorted key	<ol style="list-style-type: none"> 1. Check whether cable of keypad has been inserted into connector of main PCB. 2. Check whether between main PCB and connector or keypad and cable have a short circuit. 3. If there is not a problem occurred with connector on main PCB and cable of keypad, replace the main PCB.
E-0E	Door locking error	<ol style="list-style-type: none"> 1. Disconnect power. Open the back cover. Check whether harness has been connected with door lock switch and motor. 2. Confirm whether resistance value of door lock motor is to be normal one or not. 3. With operating door lockout, measure a voltage of connector on harness which is linked with door lock motor. (Normal Voltage : AC 120V) 4. Check whether door locking switch is being worked normally.

4. Troubleshooting

4-1 Failure Display Codes (00 Version)

Safety error

Failure code	CAUSE	SOLUTION
E-27	oven sensor opened (over 2950Ω)	1) After 20 seconds from starting to work of oven, buzzer is beeping 10 times long and then finally it displays "E-27" or "E-28" as Error message. 2) If a series of function for error is not performed at all, please make sure through the method of 4-1 on 30 page.
E-28	Oven sensor shorted. (Under 940Ω)	

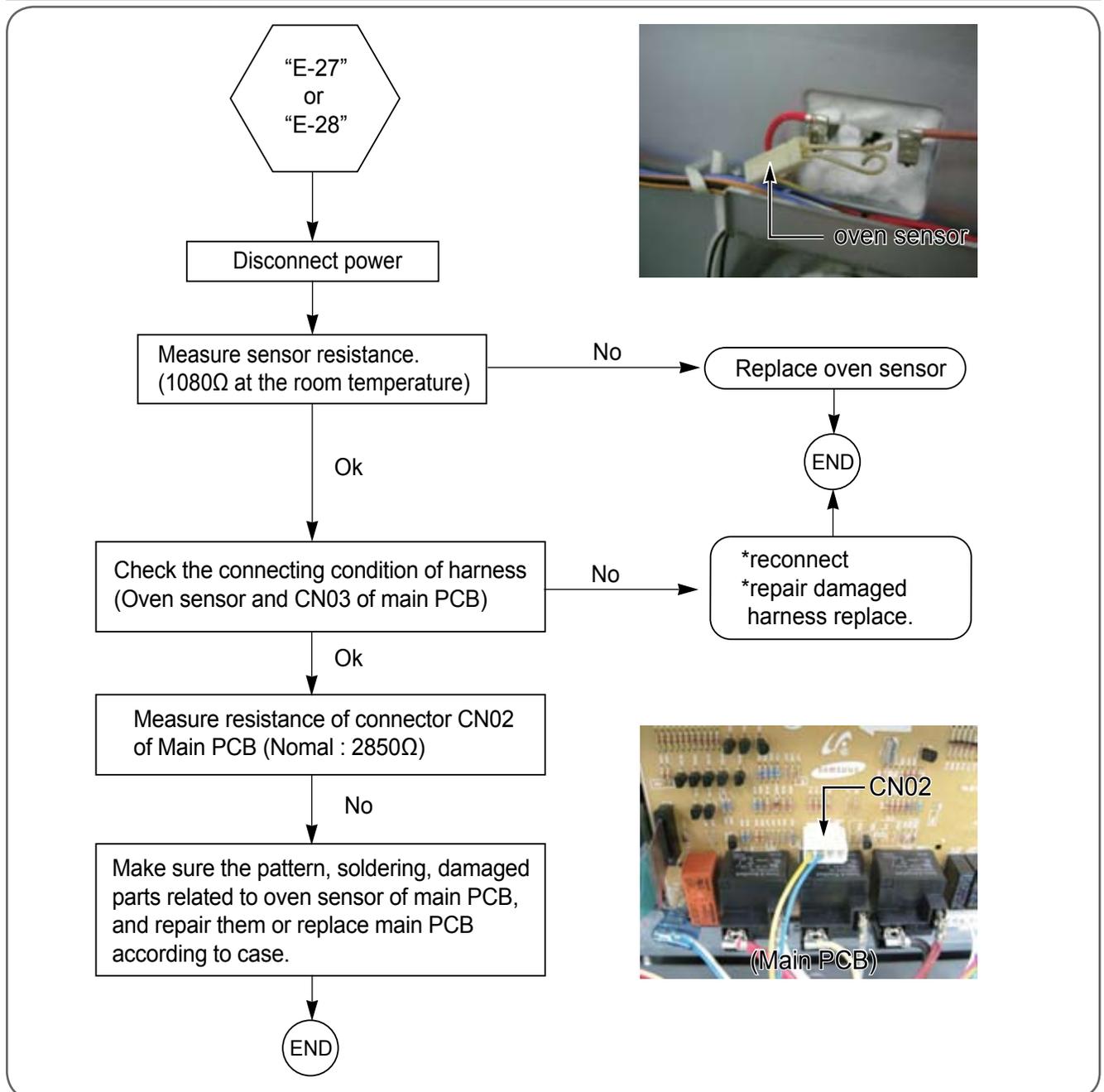


4. Troubleshooting

4-1 Failure Display Codes (01 Version)

Safety error

Failure code	CAUSE	SOLUTION
E-27	oven sensor opened (over 2950Ω)	1) After 20 seconds from starting to work of oven, buzzer is beeping 10 times long and then finally it displays “E-27” or “E-28” as Error message. 2) If a series of function for error is not performed at all, please make sure through the method of 4-1 on 30 page.
E-28	Oven sensor shorted. (Under 940Ω)	

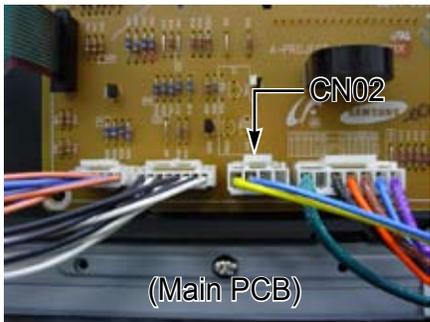
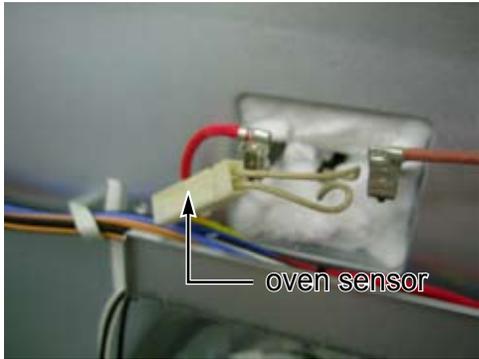
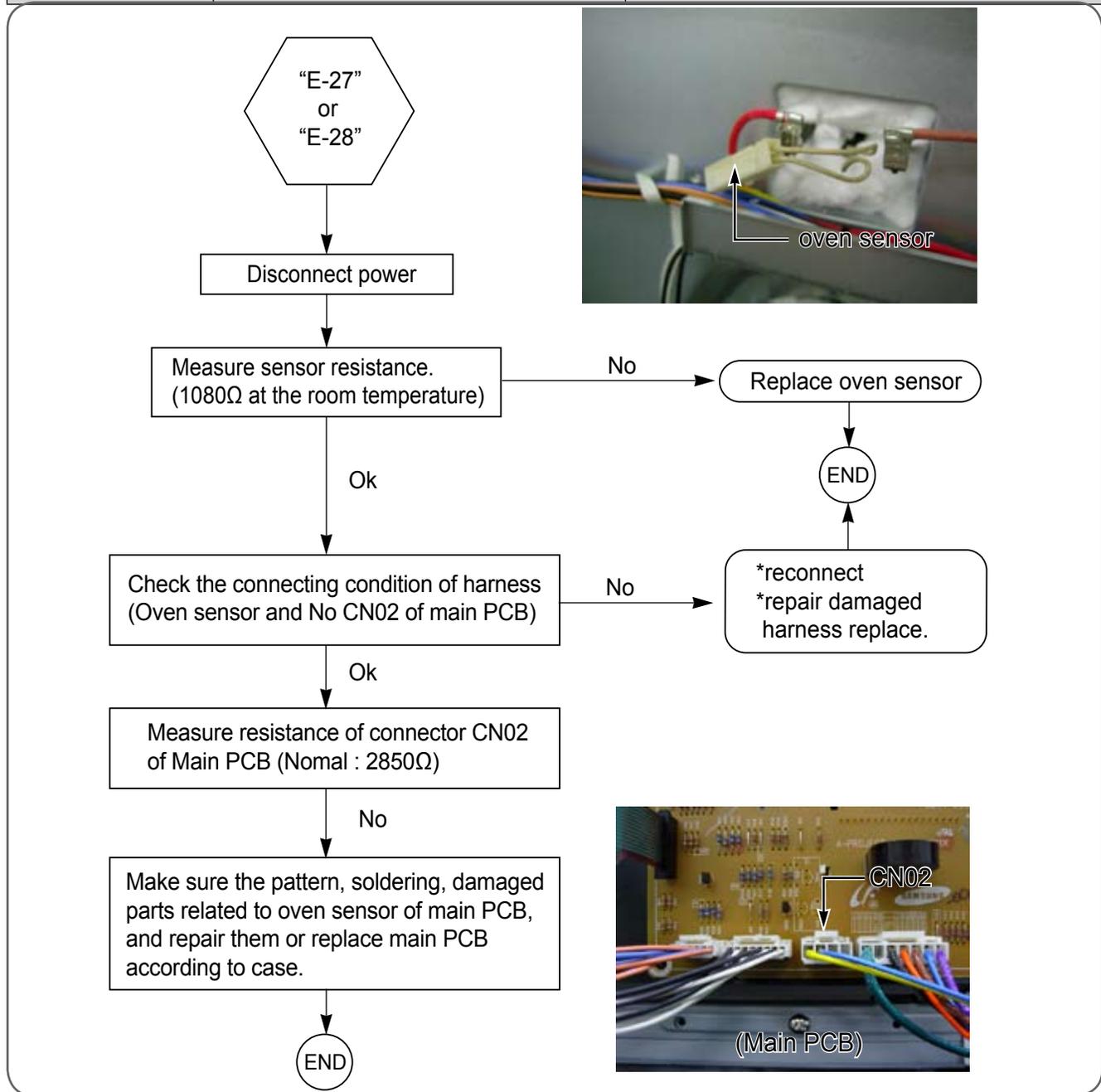


4. Troubleshooting

4-1 Failure Display Codes (02 Version)

Safety error

Failure code	CAUSE	SOLUTION
E-27	oven sensor opened (over 2950Ω)	1) After 20 seconds from starting to work of oven, buzzer is beeping 10 times long and then finally it displays “E-27” or “E-28” as Error message. 2) If a series of function for error is not performed at all, please make sure through the method of 4-1 on 30 page.
E-28	Oven sensor shorted. (Under 940Ω)	

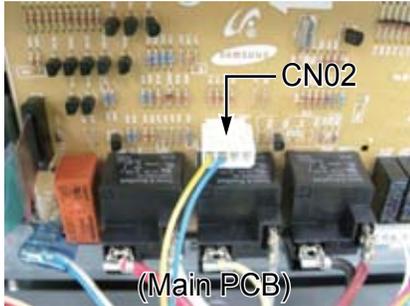
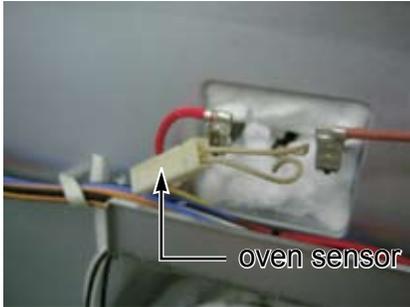
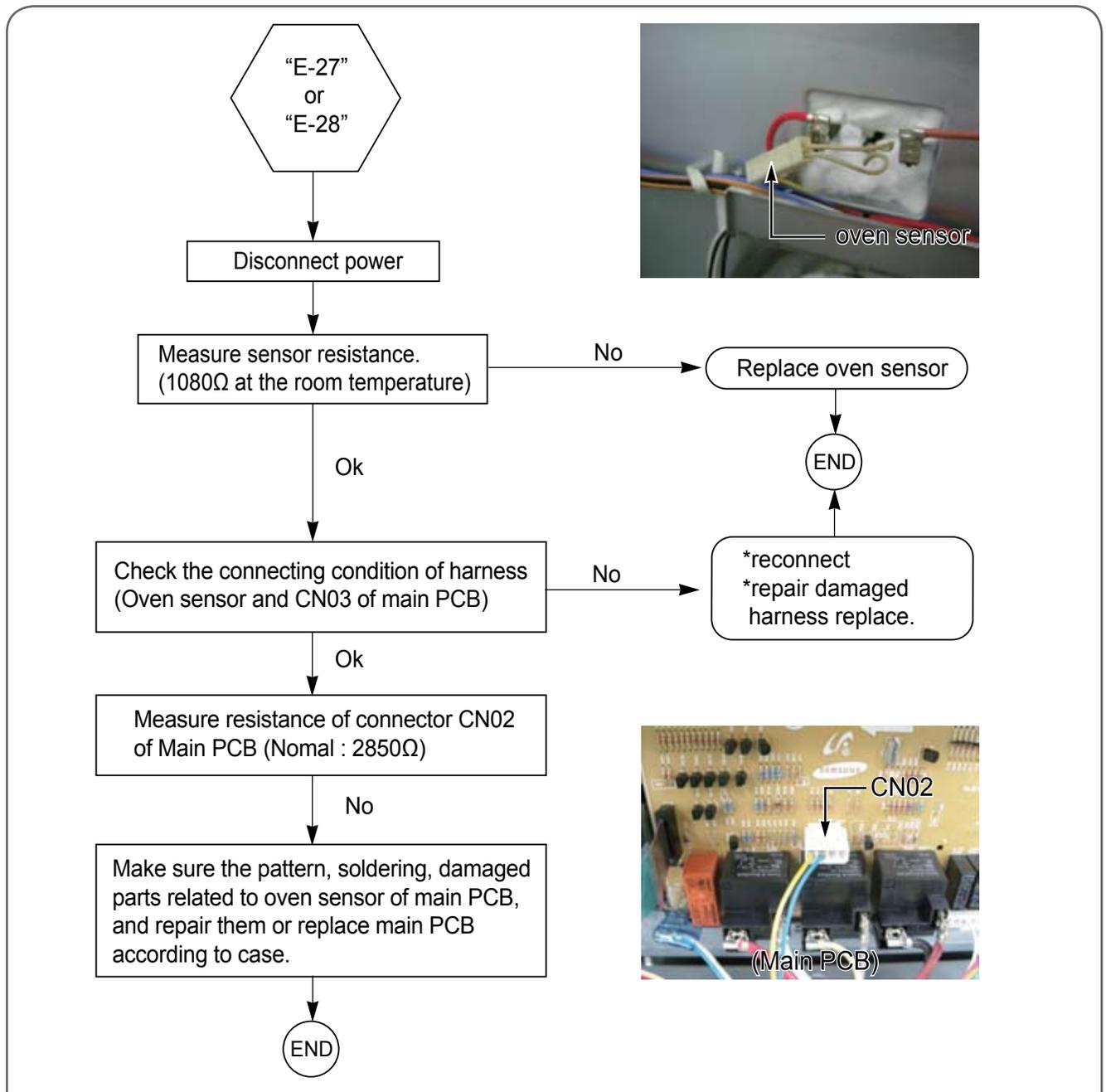


4. Troubleshooting

4-1 Failure Display Codes (03 Version)

Safety error

Failure code	CAUSE	SOLUTION
E-27	oven sensor opened (over 2950Ω)	1) After 20 seconds from starting to work of oven, buzzer is beeping 10 times long and then finally it displays "E-27" or "E-28" as Error message. 2) If a series of function for error is not performed at all, please make sure through the method of 4-1 on 30 page.
E-28	Oven sensor shorted. (Under 940Ω)	



4. Troubleshooting

4-1 Failure Display Codes

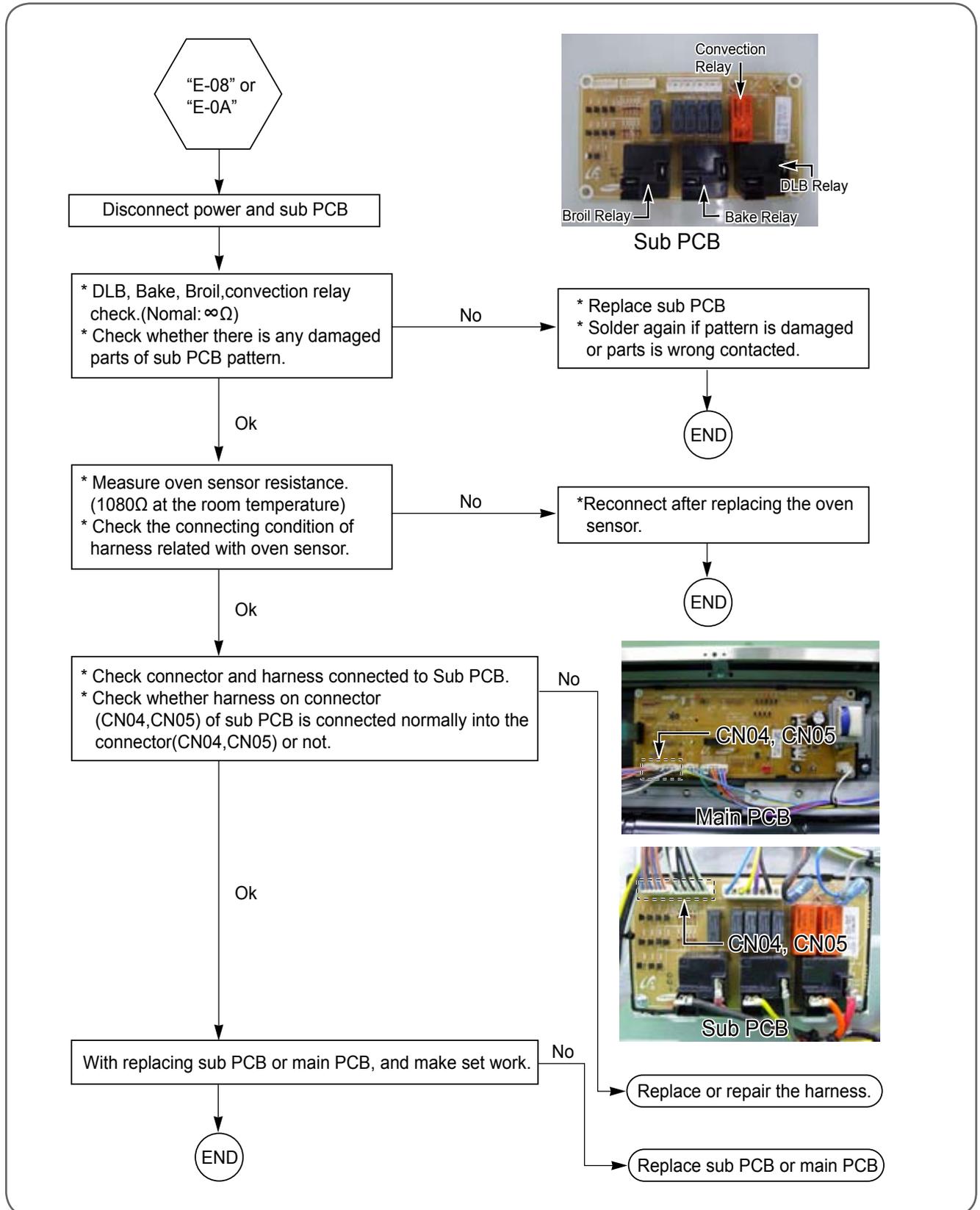
Safety error

Failure code	CAUSE	SOLUTION
E-08	oven heating error	<ol style="list-style-type: none">1) It will display "E-08" after buzzer is beeping 10 times long if it could not reach 100°F(38°C) within 10 minutes during oven is working.2) 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.
E-0A	Oven heating over	<ol style="list-style-type: none">1) It will display "E-0A" after beeping 10 times Bz long, if temperature is more than 650°F(343°C) during oven is working excluding the case of self-cleaning.2) 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.

4. Troubleshooting

4-1 Failure Display Codes (00 Version)

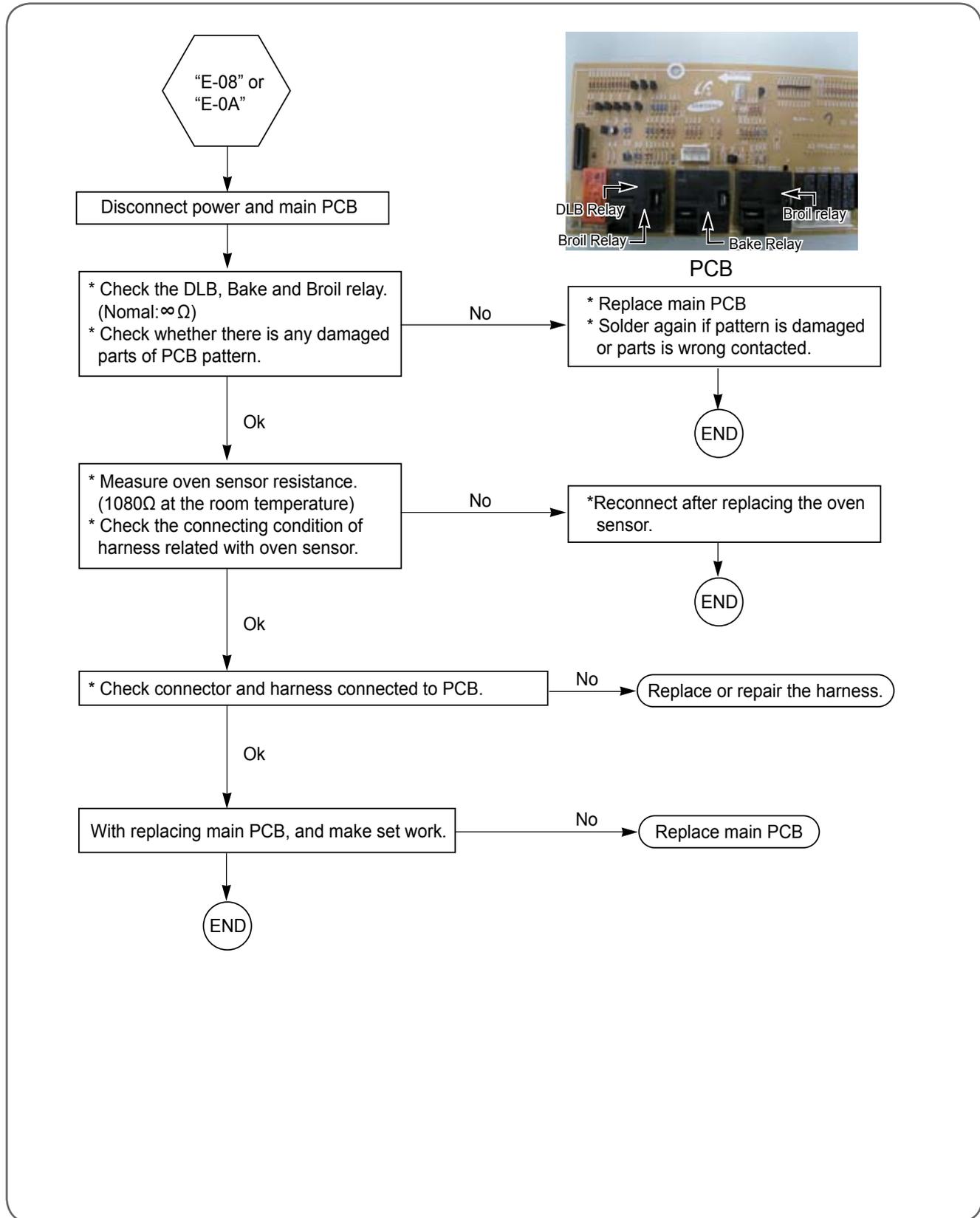
Safety error



4. Troubleshooting

4-1 Failure Display Codes (01 Version)

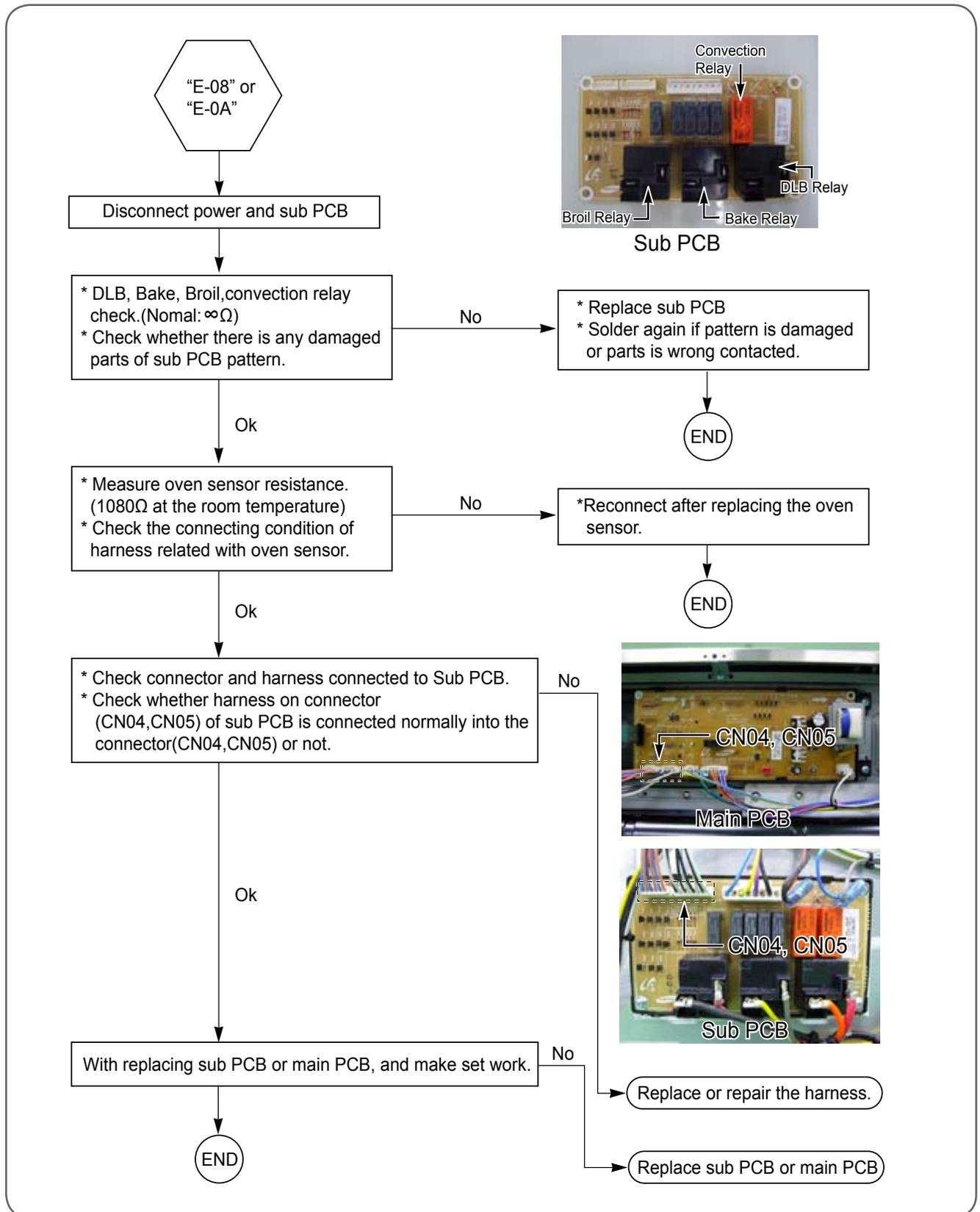
Safety error



4. Troubleshooting

4-1 Failure Display Codes (02 Version)

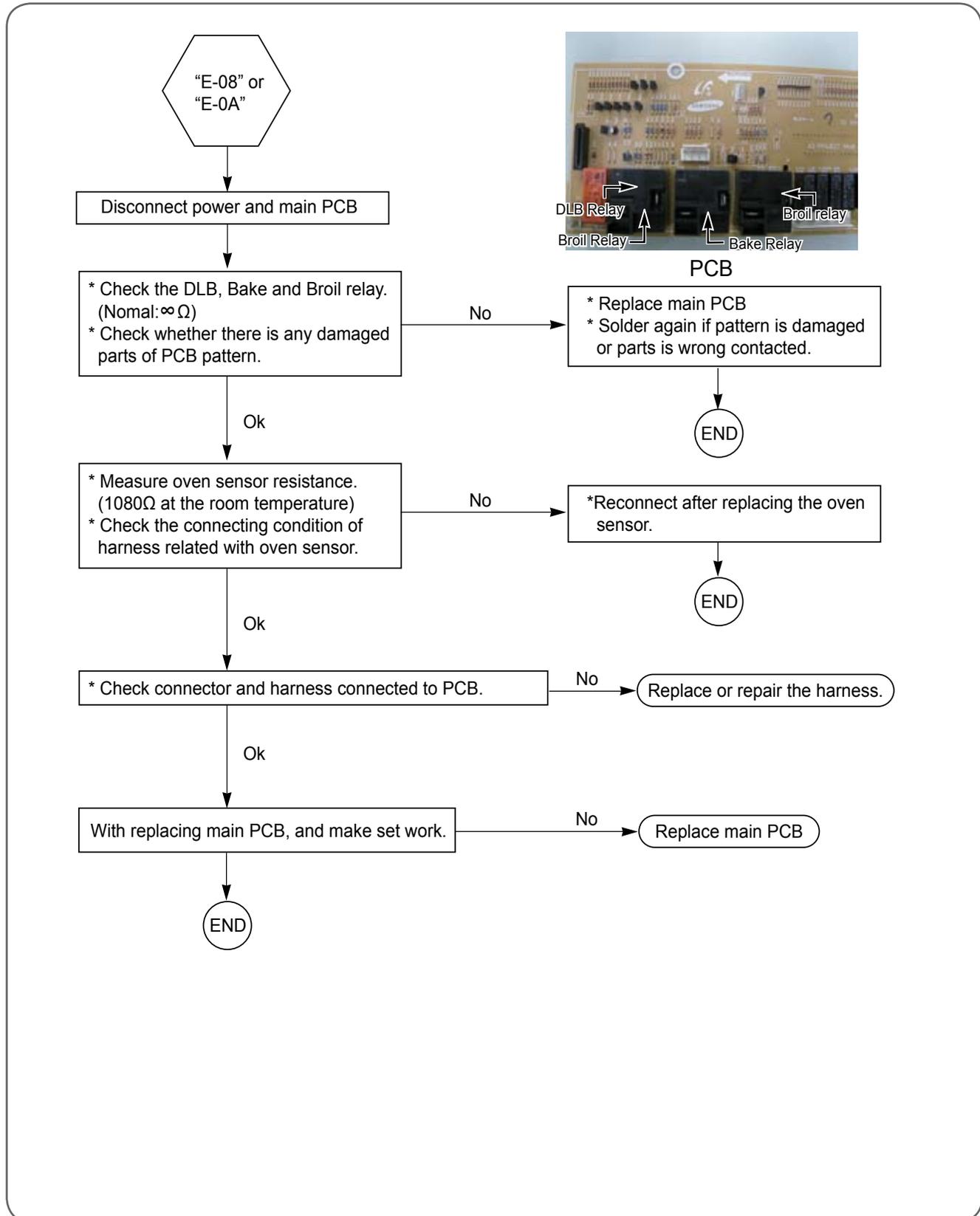
Safety error



4. Troubleshooting

4-1 Failure Display Codes (03 Version)

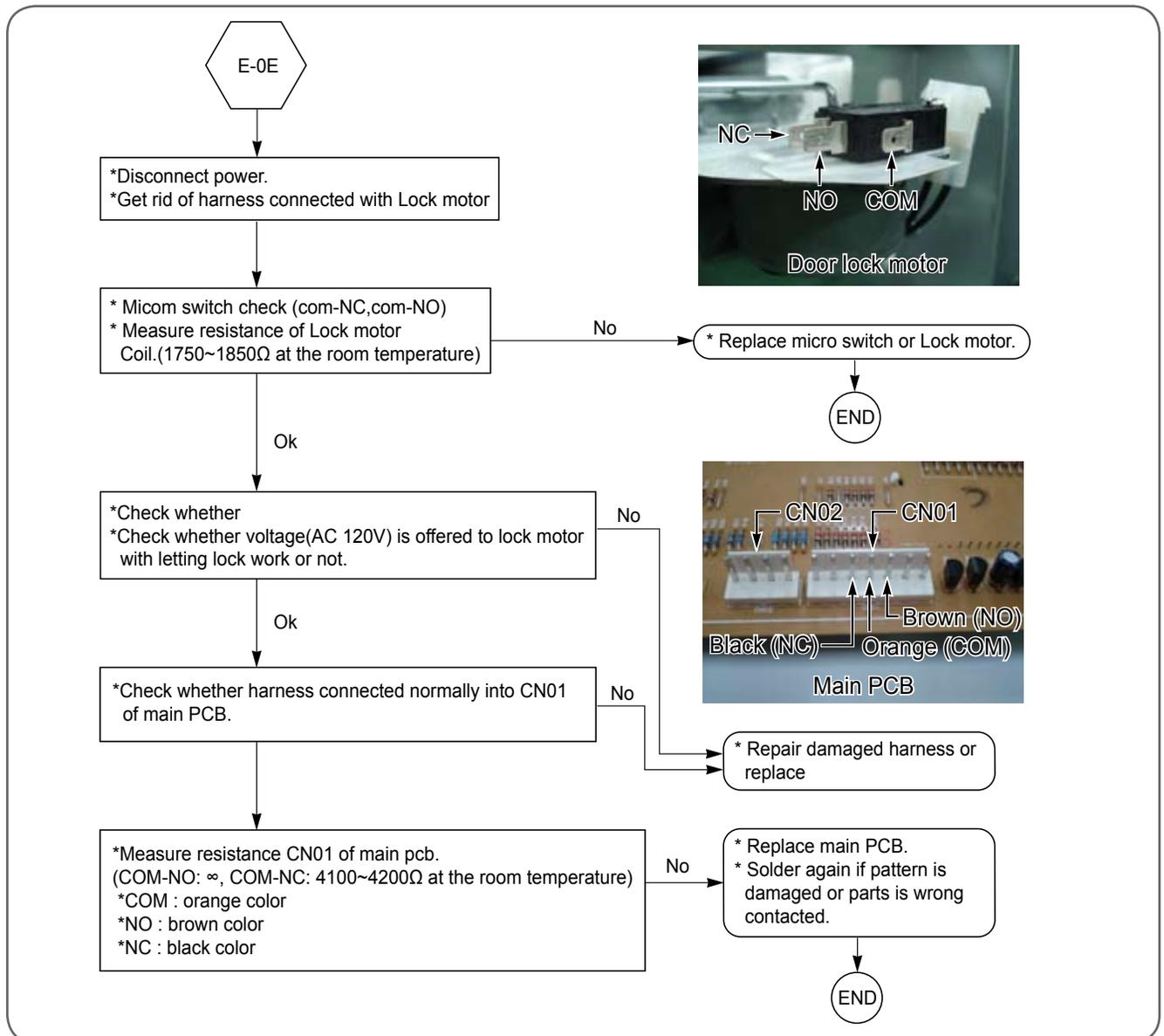
Safety error



4. Troubleshooting

4-1 Failure Display Codes (00 Version)

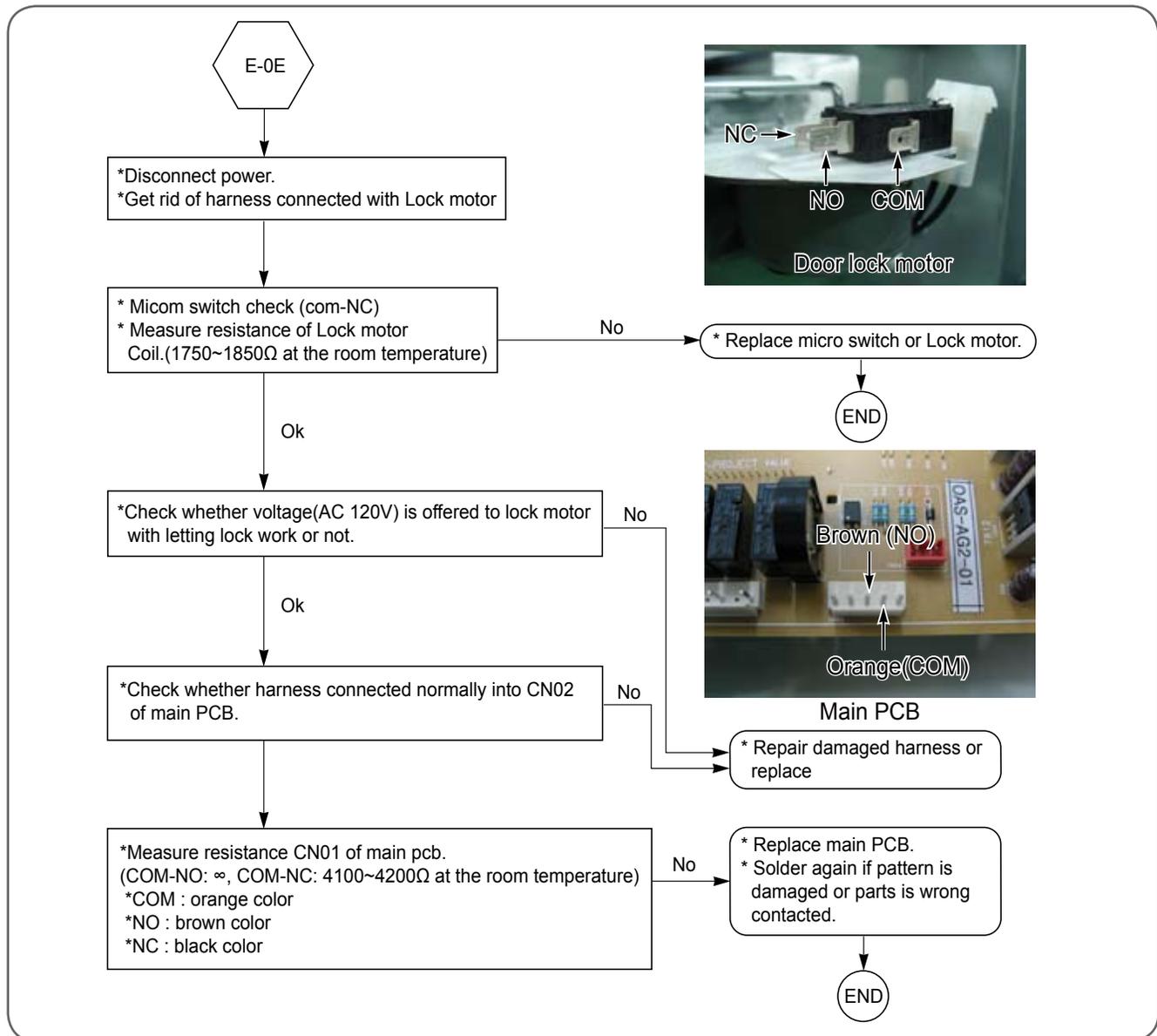
Failure code	CAUSE	SOLUTION
E-0E	Door locking error	<p>*Control lockout(press cooking time and Delay start pads at the same time for 3 seconds.)</p> <p>When 1 minute elapsed, It will display “E-0E” after buzzer is beeping 10 times long, if locking is occurred continually, or door locking is not working during self-cleaning or steam is being operated.</p> <p>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.</p>



4. Troubleshooting

4-1 Failure Display Codes (01 Version)

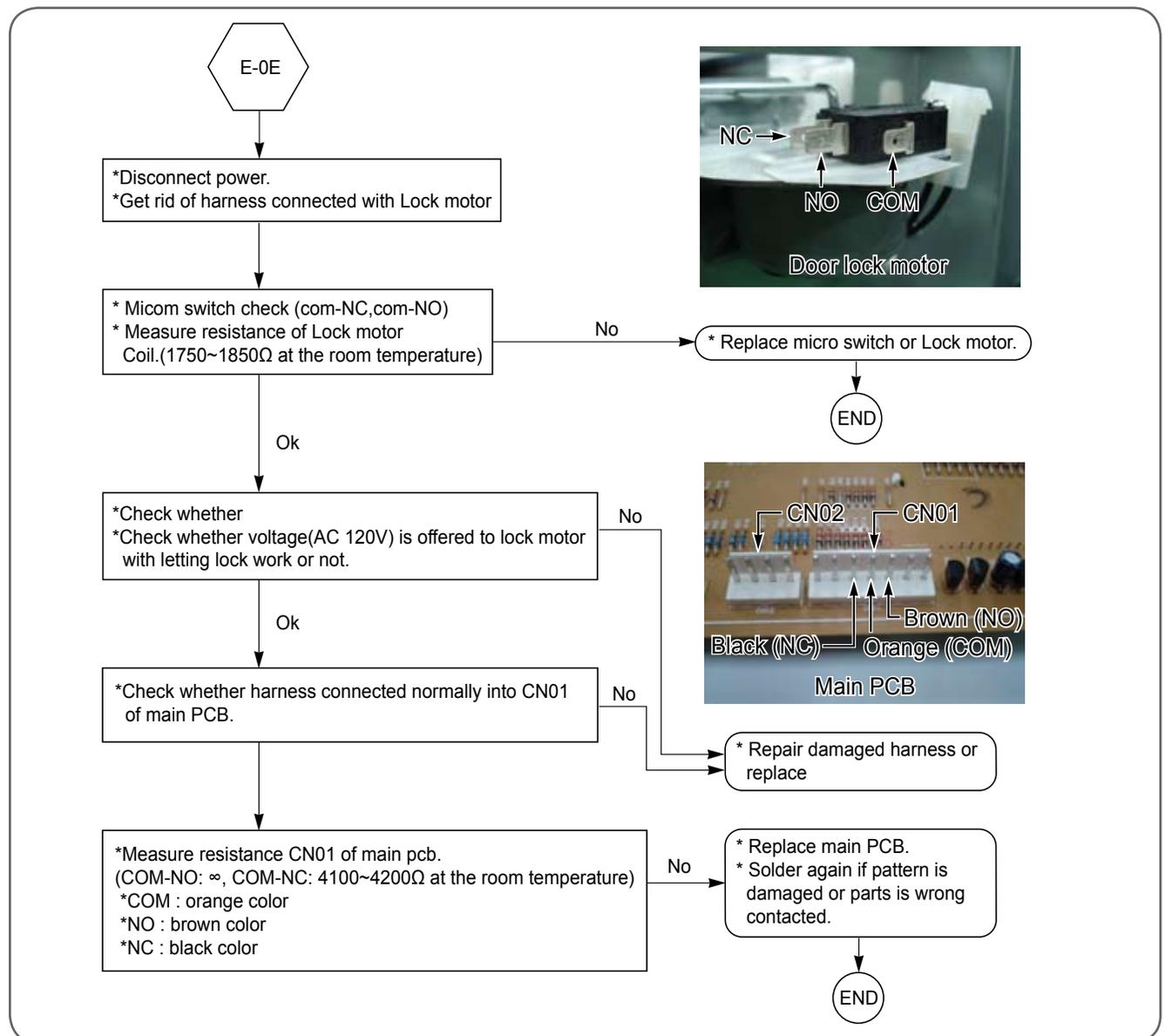
Failure code	CAUSE	SOLUTION
E-0E	Door locking error	<p>*Control lockout(press cooking time and Delay start pads at the same time for 3 seconds.)</p> <p>When 1 minute elapsed, It will display “E-0E” after buzzer is beeping 10 times long, if locking is occurred continually, or door locking is not working during self-cleaning or steam is being operated.</p> <p>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.</p>



4. Troubleshooting

4-1 Failure Display Codes (02 Version)

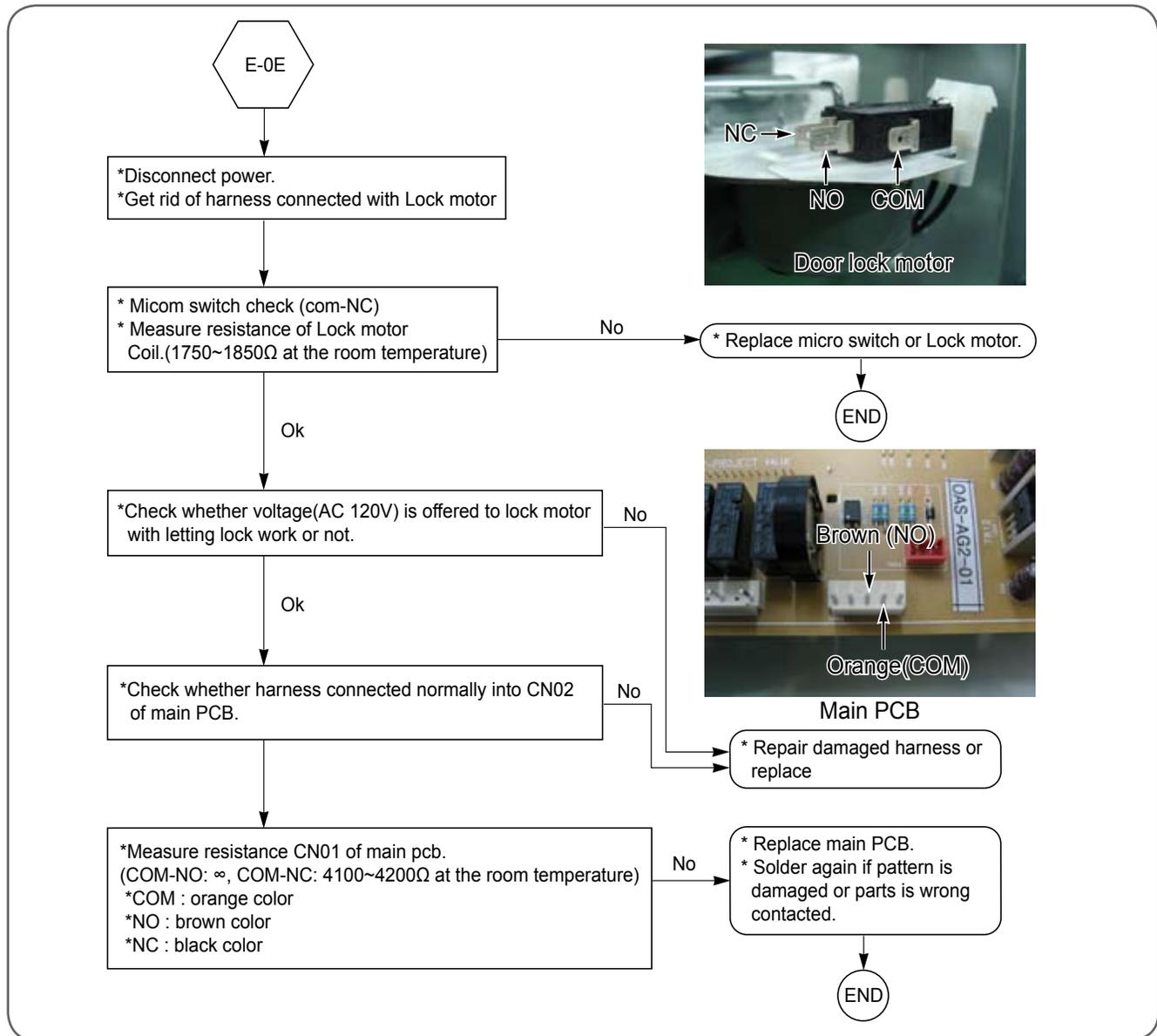
Failure code	CAUSE	SOLUTION
E-0E	Door locking error	<p>*Control lockout(press cooking time and Delay start pads at the same time for 3 seconds.)</p> <p>When 1 minute elapsed, It will display “E-0E” after buzzer is beeping 10 times long, if locking is occurred continually, or door locking is not working during self-cleaning or steam is being operated.</p> <p>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.</p>



4. Troubleshooting

4-1 Failure Display Codes (03 Version)

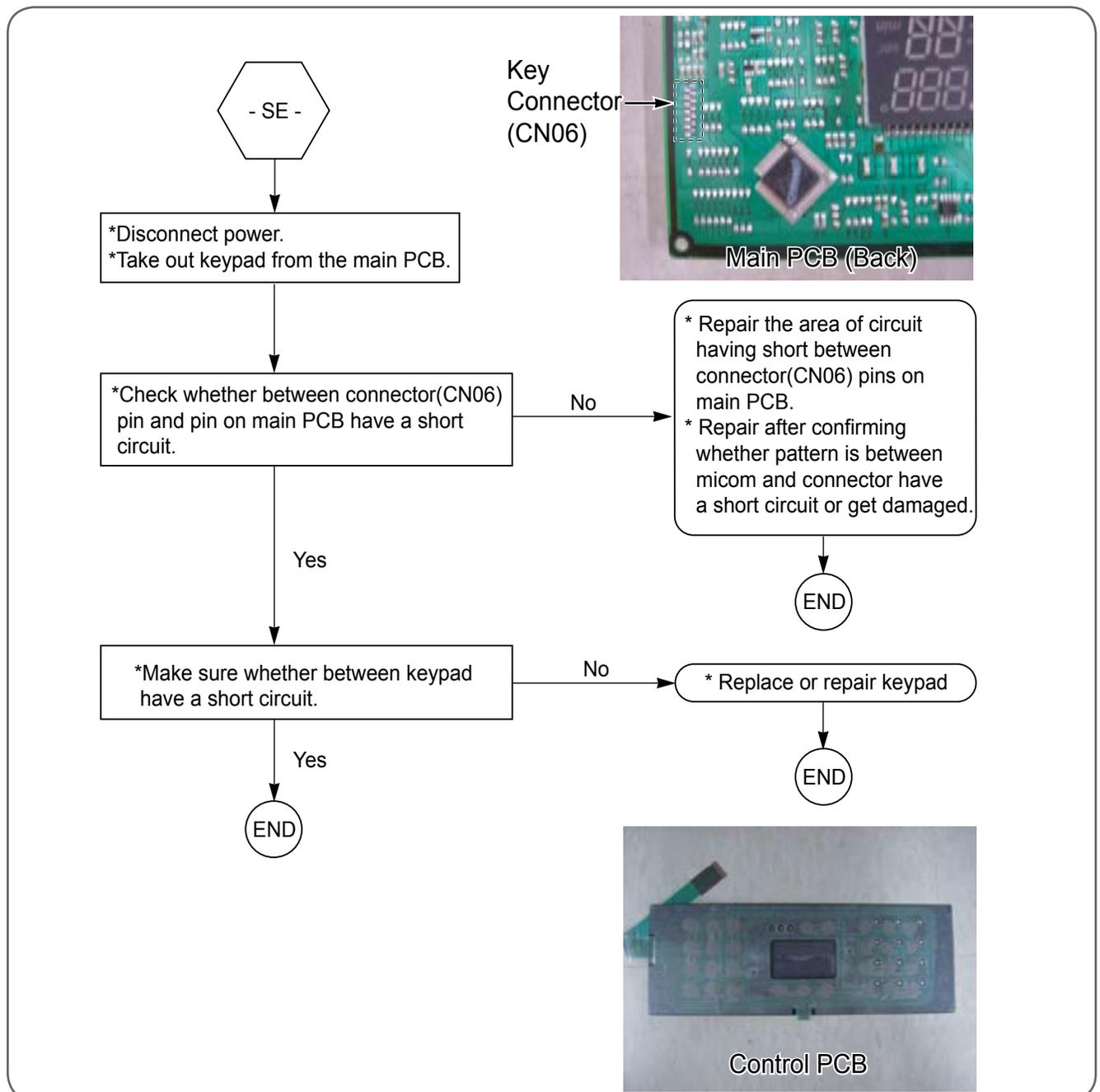
Failure code	CAUSE	SOLUTION
E-0E	Door locking error	<p>*Control lockout(press cooking time and Delay start pads at the same time for 3 seconds.)</p> <p>When 1 minute elapsed, It will display “E-0E” after buzzer is beeping 10 times long, if locking is occurred continually, or door locking is not working during self-cleaning or steam is being operated.</p> <p>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.</p>



4. Troubleshooting

4-1 Failure Display Codes (00 Version)

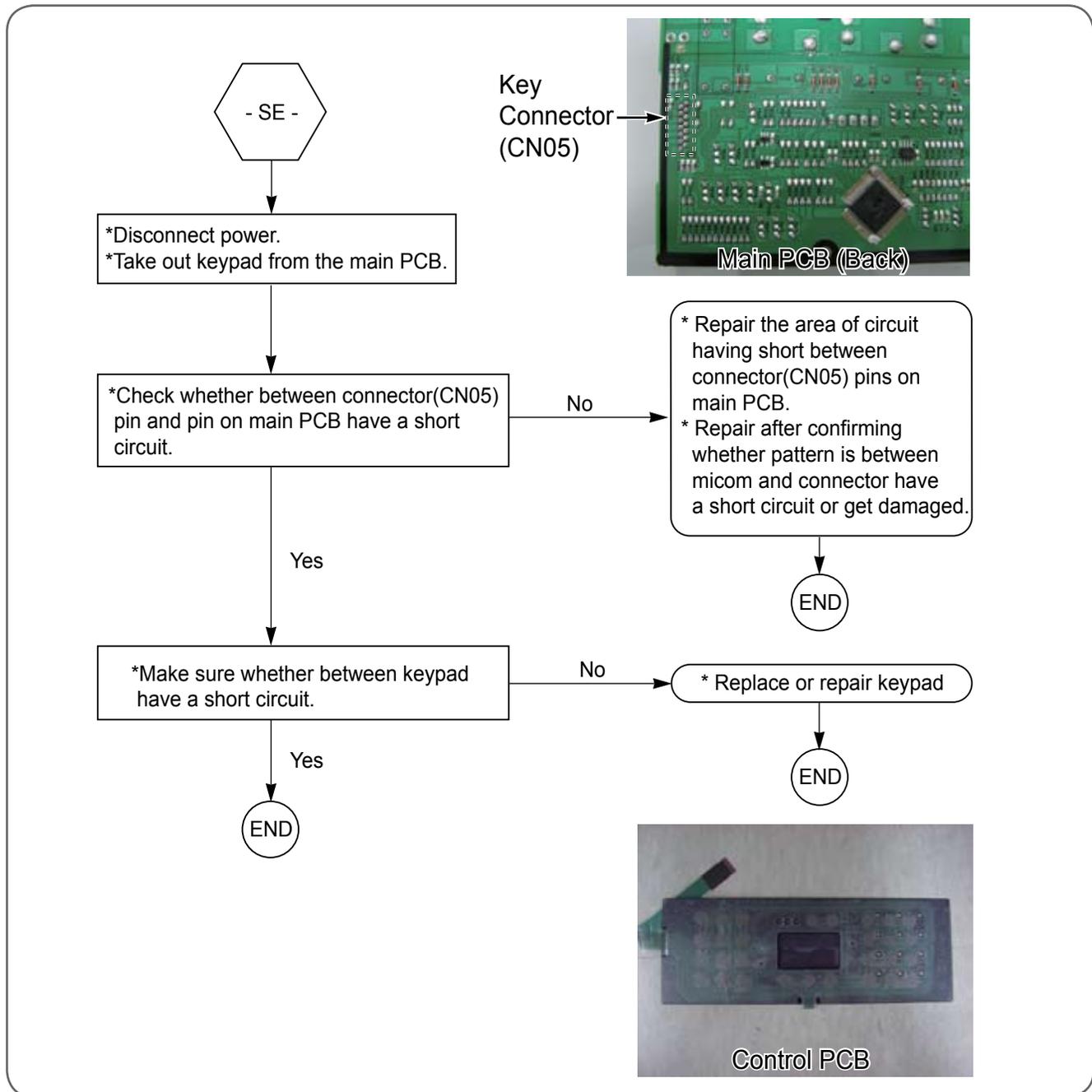
Failure code	CAUSE	SOLUTION
-SE-	short key	<p>When 10 seconds elapses, It will display “-SE-” after buzzer is beeping 10 times long if between main PCB and cable connector or keypad and cable have a short circuit.</p> <p>Please make sure through the method of 4-1 on 30 page if those series of working for informing error take long time or not functioned.</p>



4. Troubleshooting

4-1 Failure Display Codes (01 Version)

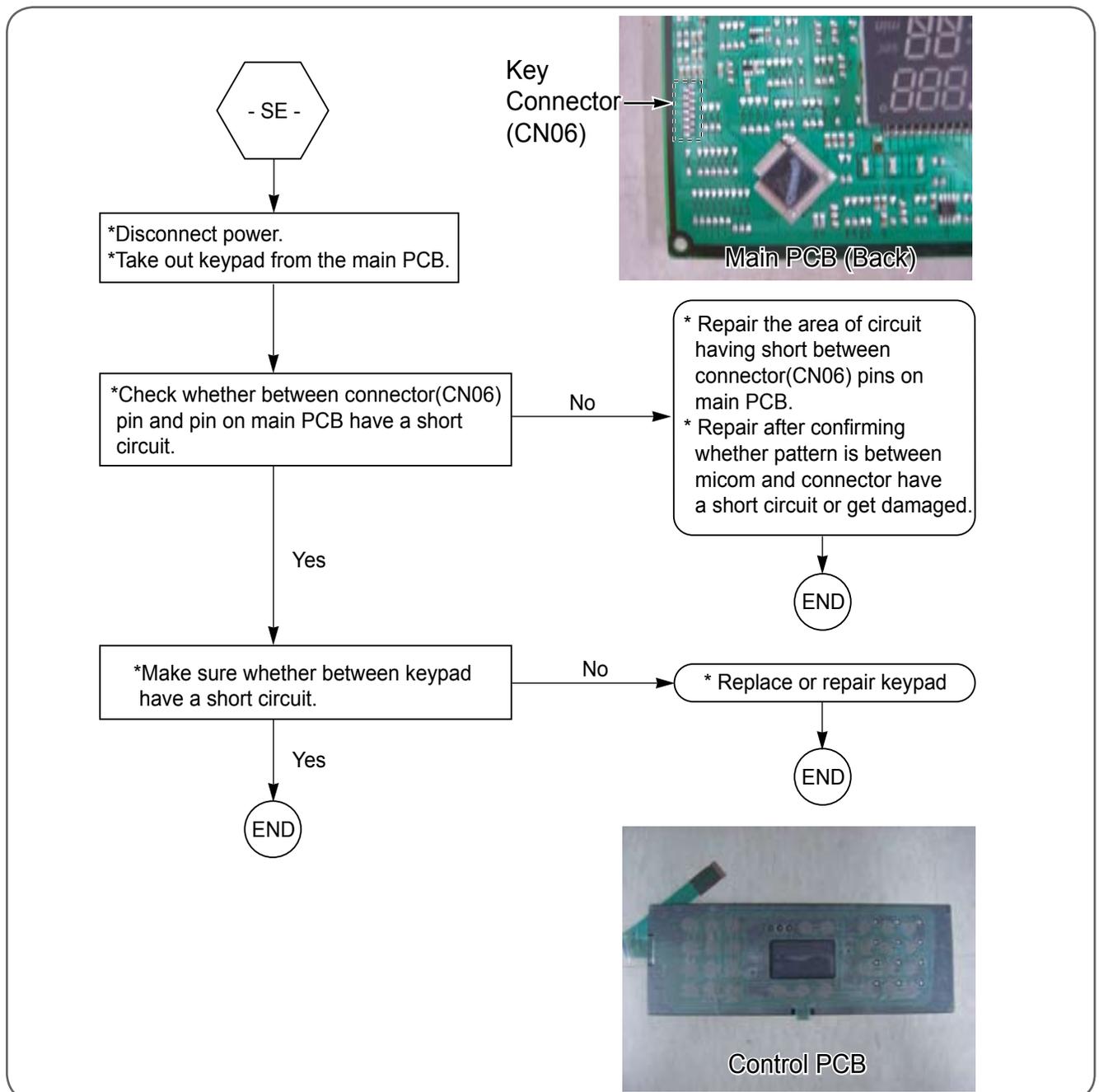
Failure code	CAUSE	SOLUTION
-SE-	short key	<p>When 10 seconds elapses, It will display “-SE-” after buzzer is beeping 10 times long if between main PCB and cable connector or keypad and cable have a short circuit.</p> <p>Please make sure through the method of 4-1 on 30 page if those series of working for informing error take long time or not functioned.</p>



4. Troubleshooting

4-1 Failure Display Codes (02 Version)

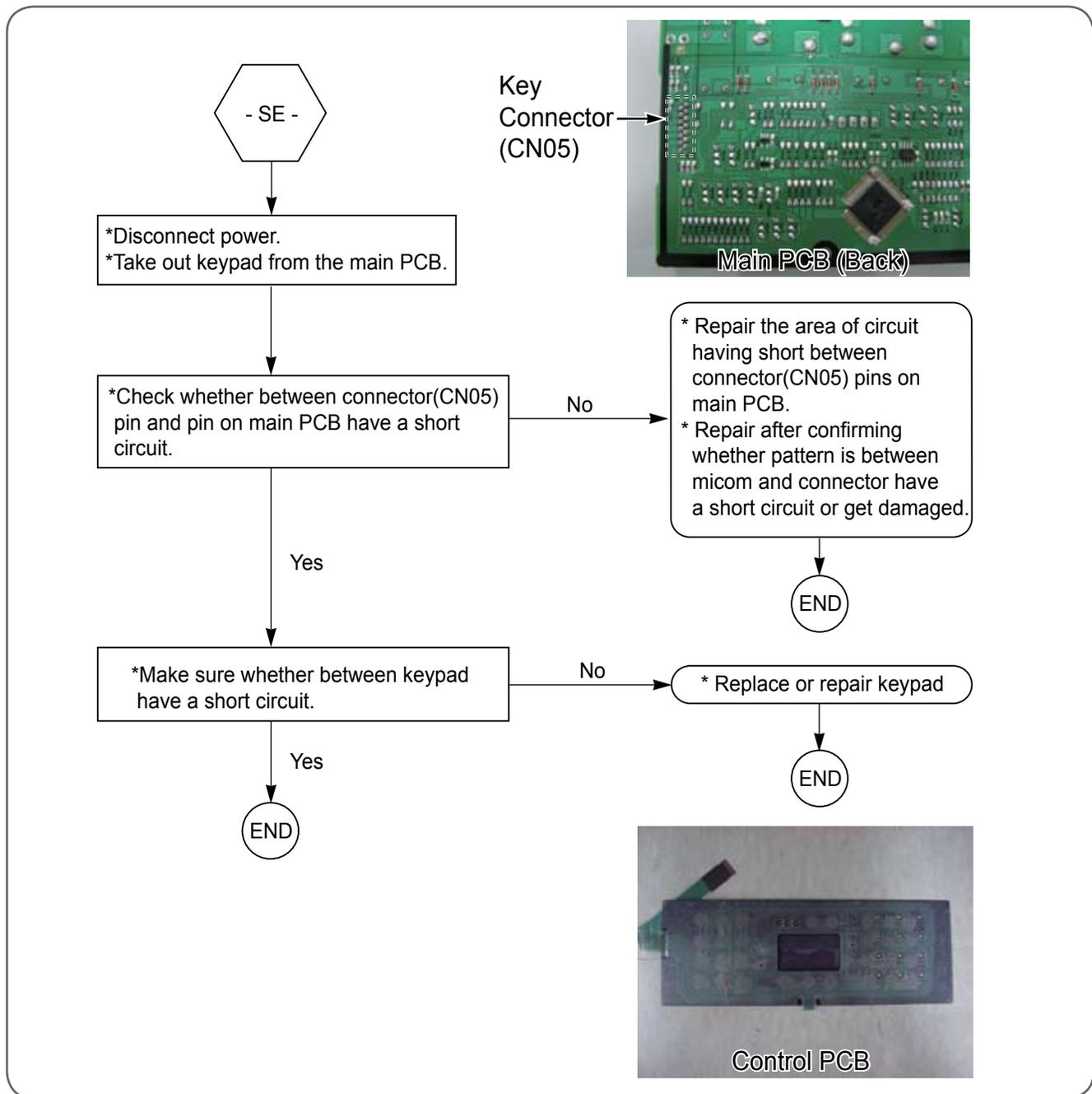
Failure code	CAUSE	SOLUTION
-SE-	short key	<p>When 10 seconds elapses, It will display “-SE-” after buzzer is beeping 10 times long if between main PCB and cable connector or keypad and cable have a short circuit.</p> <p>Please make sure through the method of 4-1 on 30 page if those series of working for informing error take long time or not functioned.</p>



4. Troubleshooting

4-1 Failure Display Codes (03 Version)

Failure code	CAUSE	SOLUTION
-SE-	short key	<p>When 10 seconds elapses, It will display “-SE-” after buzzer is beeping 10 times long if between main PCB and cable connector or keypad and cable have a short circuit.</p> <p>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.</p>



4. Troubleshooting

4-1 Failure Display Codes (00 Version)

Control PCB Operation

Sort of Control PCB

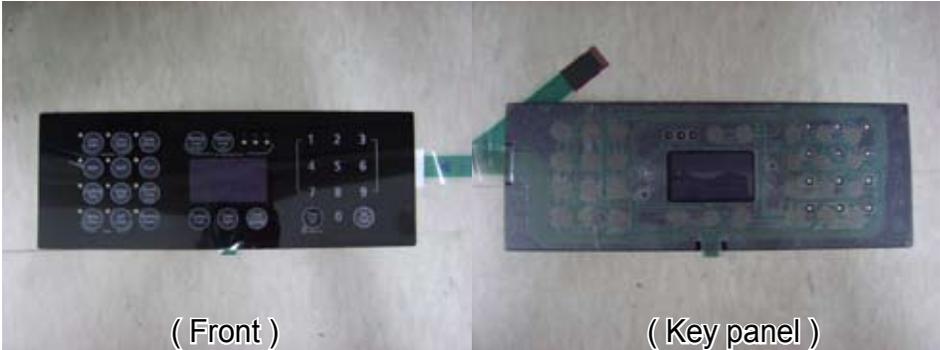
Main PCB



Sub PCB



Touch control PCB



4. Troubleshooting

4-1 Failure Display Codes (01 Version)

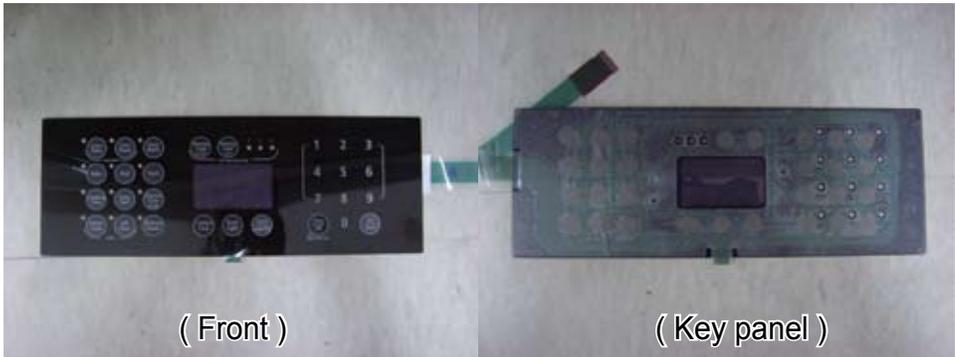
Control PCB Operation

Sort of Control PCB

Main PCB



Touch control PCB



4. Troubleshooting

4-1 Failure Display Codes (02 Version)

Control PCB Operation

Sort of Control PCB

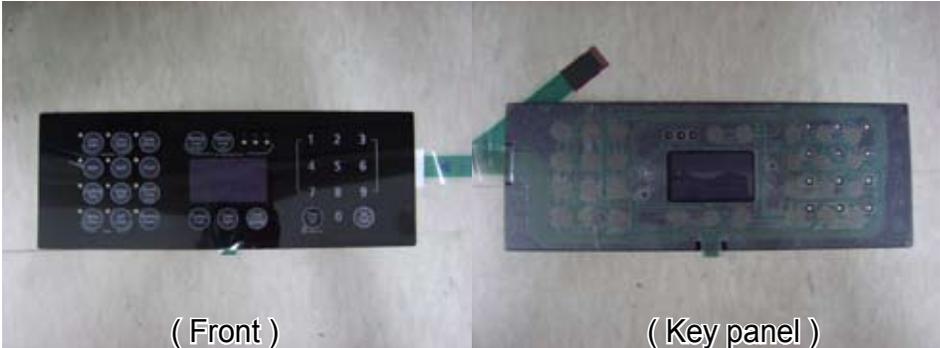
Main PCB



Sub PCB



Touch control PCB



4. Troubleshooting

4-1 Failure Display Codes (03 Version)

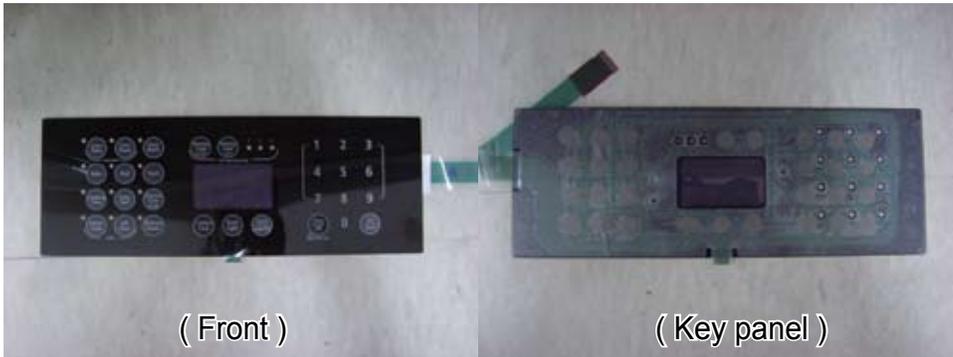
Control PCB Operation

Sort of Control PCB

Main PCB



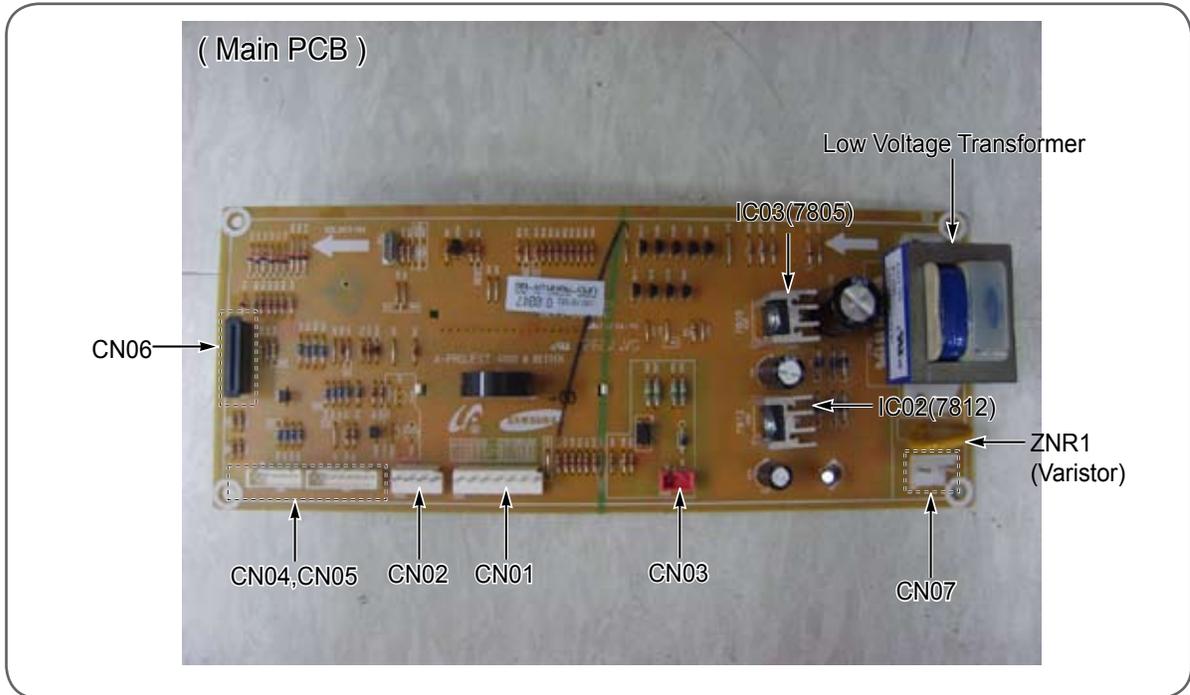
Touch control PCB



4. Troubleshooting

4-1 Failure Display Codes (00 Version)

* Explain of primary parts of Main PCB



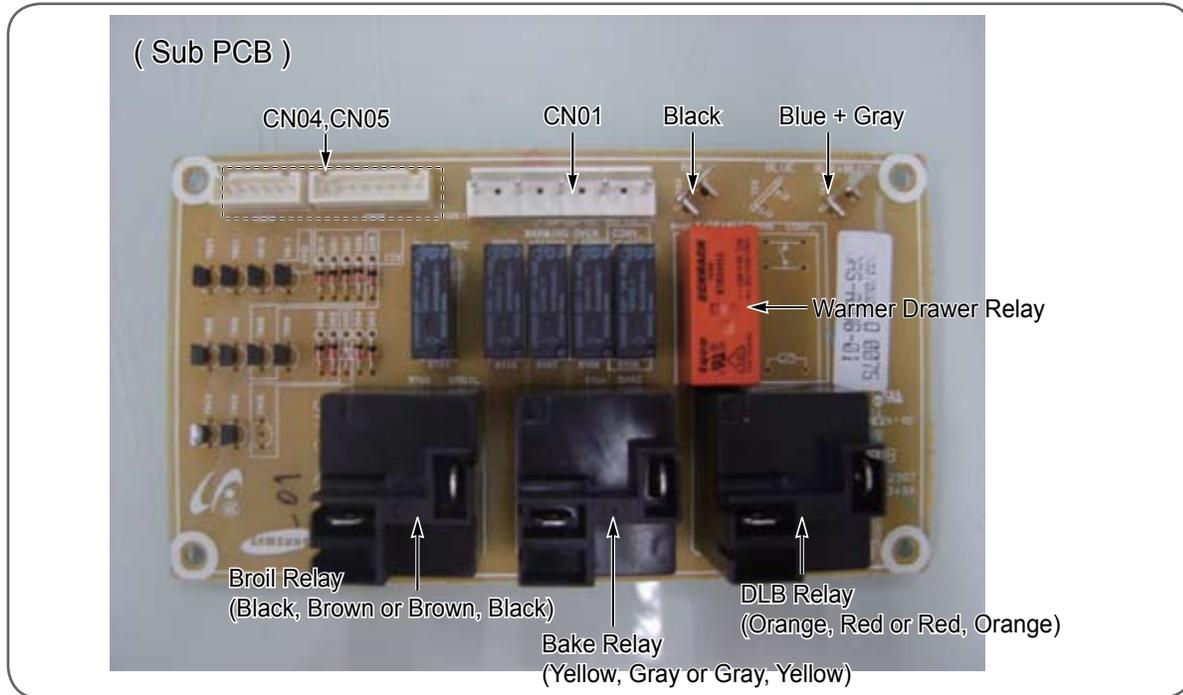
Explain of the function of primary parts.

CN01	This is connector which is connected with Door plunger switch and Door lock switch. (COM-NO, COM-NC)
CN02	This is connector which is connected with oven sensor.
CN03	This is to stop operating self-cleaning and steam mode if hot indicator lamp on cooktop is lighted with being supplied with AC120V(L1, N).
CN04,CN05	This connector is to get all operating of relay on sub PCB to be connected.
CN06	This is consisted of 15 pin and take a role of getting a cable on keypad to connect with touch PCB.
CN07	This is to supply power with primary on Low voltage transformer, and AC120V with main PCB through harness.
ZNR1	This is the element to protect main PCB, getting varistor to work if over voltage is supplied with varistor.
IC02	This is to supply DC12V with main PCB by voltage regulator.
IC03	This is to supply DC5V with main PCB by voltage regulator.

4. Troubleshooting

4-1 Failure Display Codes (00 Version)

Explain primary parts of Sub PCB



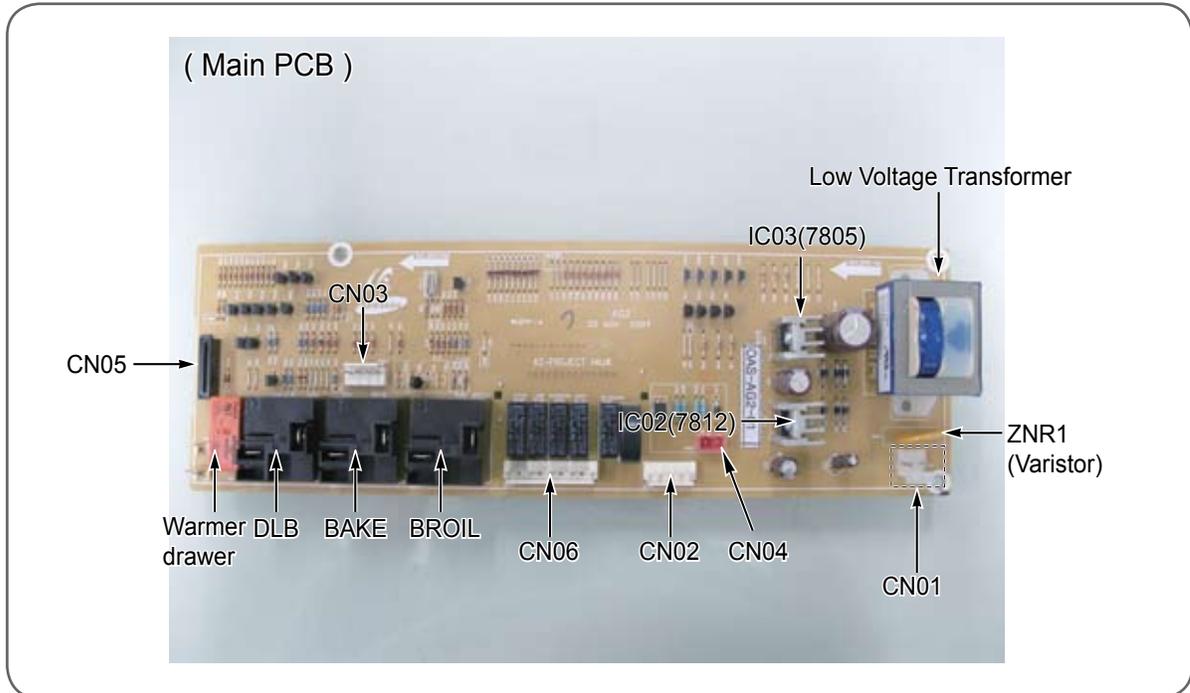
Explain of the function of primary parts.

CN01	This is connector which have Door plunger switch, cooktop warming center, oven lamp and relay of convection fan connected.
CN04,CN05	Connector(CN04,CN05) on sub PCB take a role of getting all of the operation of relay on sub PCB to connect with main PCB(CN04,CN05).
DLB relay(Ry02)	Circuit is designed to have broil relay or convection relay worked after DLB relay is being worked by Double line break. (It will not be problem with reversing the order in insering Orange and Red)
Broil relay(Ry03), Bake relay(Ry04),	Broil relay(Ry03), Bake relay(Ry04), convection relay(Ry05) will be on-off working by micom signal after DLB relay is worked. (Broil relay : It will not be problem with reversing the order in insering Black and Brown) (Bake relay : It will not be problem with reversing the order in insering Yellow and Gray)
Ry-source relay(Ry01)	This is consisted of 15 pin and take a role of getting a cable on keypad to connect with touch PCB.
W/Drawer Relay(Ry06) and T03 terminal	This is terminal to connect harness with relay to get heater on warming drawer work.
T01 terminal	This is the terminal to supply L1 voltage(120V) with warming drawer relay(Ry06),convection relay(Ry05).

4. Troubleshooting

4-1 Failure Display Codes (01 Version)

* Explain of primary parts of Main PCB



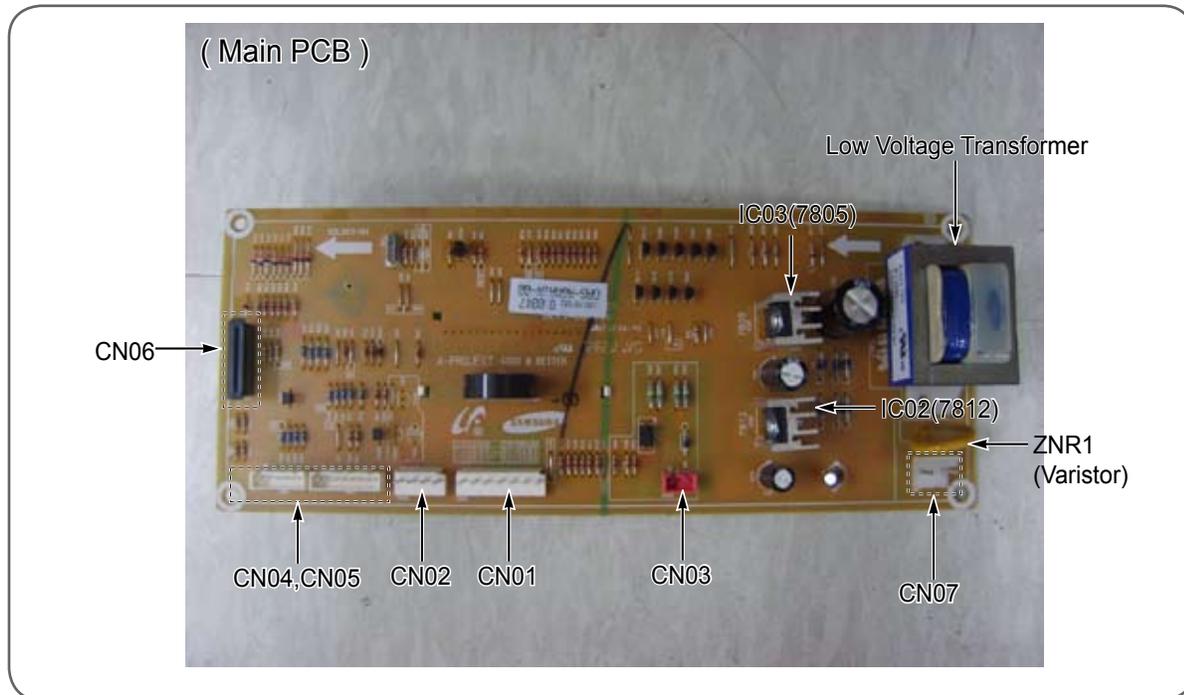
Explain of the function of primary parts.

CN01	This is to supply power with primary on Low voltage transformer, and AC120V with main PCB through harness.
CN02	This is connector which is connected with Door plunger switch and Door lock switch. (COM-NO, COM-NC)
CN03	This is connector which is connected with oven sensor.
CN04(some model)	This is to stop operating self-cleaning and steam mode if hot indicator lamp on cooktop is lighted with being supplied with AC120V(L1, N).
CN05	This is consisted of 15 pin and take a role of getting a cable on keypad to connect with touch PCB.
CN06	This is connector which have door lock motor, cooktop warming center, and relay of oven lamp connected.
Ry-source relay(Ry01)	Circuit is designed to all relay worked after Ry-source relay is being worked. (For safety)
DLB relay(Ry02)	Circuit is designed to have broil relay or worked after DLB relay is being worked by Double line break.
Broil relay(Ry03), Bake relay(Ry04)	Broil relay(Ry03), Bake relay(Ry04), will be on-off working by micom signal after DLB relay is worked. (Broil relay : It will not be problem with reversing the order in insering Black and Brown) (Bake relay : It will not be problem with reversing the order in insering Yellow and Gray)
W/drawer relay(Ry06) and T02 terminal	This is terminal to connect harness with relay to get heater on warming drawer work.
ZNR1	This is the element to protect main PCB, if over voltage is supplied with PCB.
IC02	This is to supply DC12V with main PCB by voltage regulator.
IC03	This is to supply DC5V with main PCB by voltage regulator.
W/Drawer Relay(Ry06) and T02	This is terminal to connect harness with relay to get heater on warming drawer work (some model)
T01 terminal	This is the terminal to supply L1 voltage(120V) with warming drawer relay(Ry06), convection relay(Ry05) (some model)

4. Troubleshooting

4-1 Failure Display Codes (02 Version)

* Explain of primary parts of Main PCB



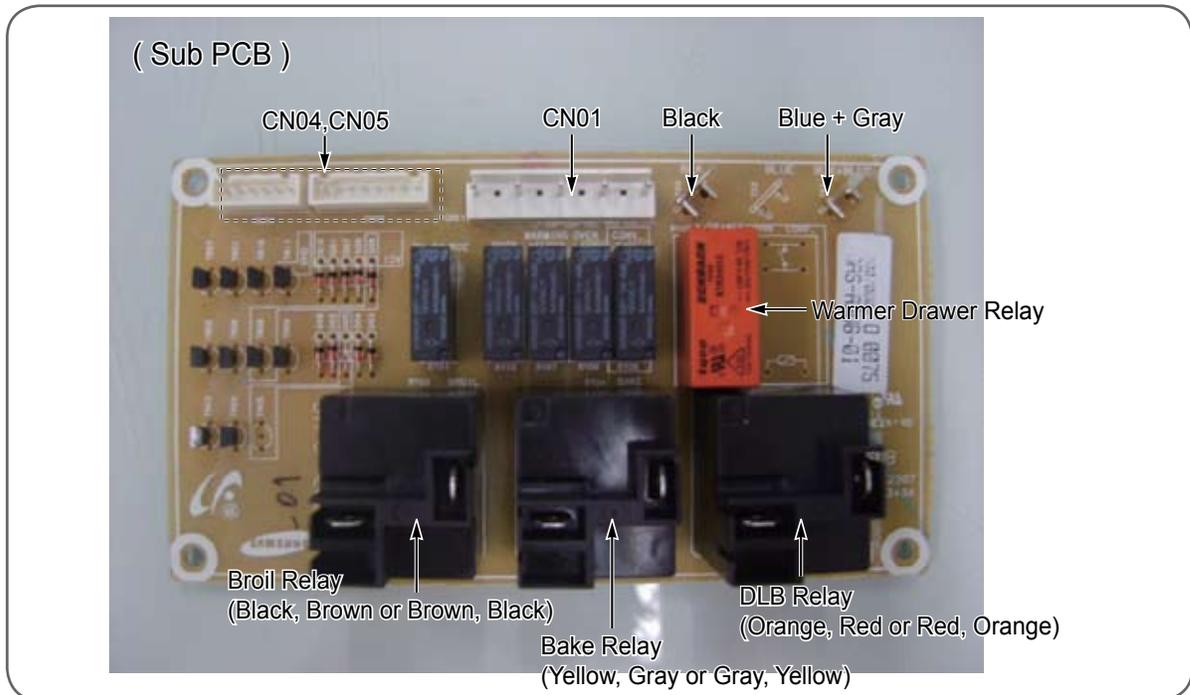
Explain of the function of primary parts.

CN01	This is connector which is connected with Door plunger switch and Door lock switch. (COM-NO, COM-NC)
CN02	This is connector which is connected with oven sensor.
CN03	This is to stop operating self-cleaning and steam mode if hot indicator lamp on cooktop is lighted with being supplied with AC120V(L1, N).
CN04,CN05	This connector is to get all operating of relay on sub PCB to be connected.
CN06	This is consisted of 15 pin and take a role of getting a cable on keypad to connect with touch PCB.
CN07	This is to supply power with primary on Low voltage transformer, and AC120V with main PCB through harness.
ZNR1	This is the element to protect main PCB, getting varistor to work if over voltage is supplied with varistor.
IC02	This is to supply DC12V with main PCB by voltage regulator.
IC03	This is to supply DC5V with main PCB by voltage regulator.

4. Troubleshooting

4-1 Failure Display Codes (02 Version)

Explain primary parts of Sub PCB



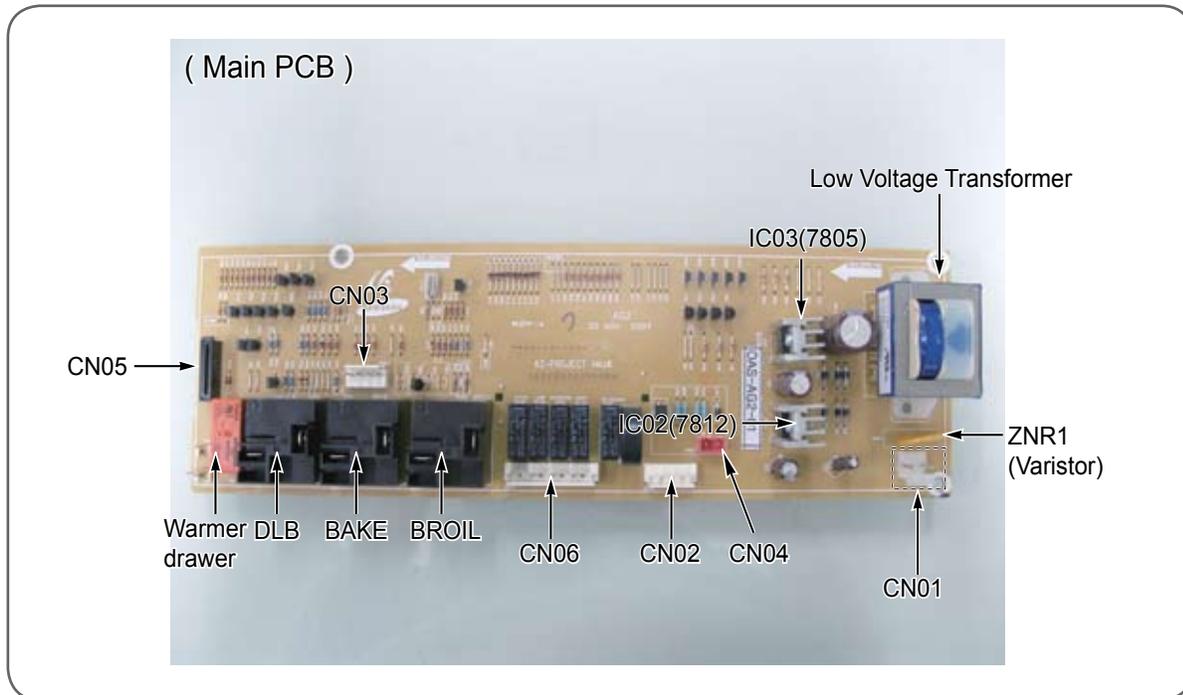
Explain of the function of primary parts.

CN01	This is connector which have Door plunger switch, cooktop warming center, oven lamp and relay of convection fan connected.
CN04,CN05	Connector(CN04,CN05) on sub PCB take a role of getting all of the operation of relay on sub PCB to connect with main PCB(CN04,CN05).
DLB relay(Ry02)	Circuit is designed to have broil relay or convection relay worked after DLB relay is being worked by Double line break. (It will not be problem with reversing the order in insering Orange and Red)
Broil relay(Ry03), Bake relay(Ry04),	Broil relay(Ry03), Bake relay(Ry04), convection relay(Ry05) will be on-off working by micom signal after DLB relay is worked. (Broil relay : It will not be problem with reversing the order in insering Black and Brown) (Bake relay : It will not be problem with reversing the order in insering Yellow and Gray)
Ry-source relay(Ry01)	This is consisted of 15 pin and take a role of getting a cable on keypad to connect with touch PCB.
W/Drawer Relay(Ry06) and T03 terminal	This is terminal to connect harness with relay to get heater on warming drawer work.
T01 terminal	This is the terminal to supply L1 voltage(120V) with warming drawer relay(Ry06),convection relay(Ry05).

4. Troubleshooting

4-1 Failure Display Codes (03 Version)

* Explain of primary parts of Main PCB



Explain of the function of primary parts.

CN01	This is to supply power with primary on Low voltage transformer, and AC120V with main PCB through harness.
CN02	This is connector which is connected with Door plunger switch and Door lock switch. (COM-NO, COM-NC)
CN03	This is connector which is connected with oven sensor.
CN04(some model)	This is to stop operating self-cleaning and steam mode if hot indicator lamp on cooktop is lighted with being supplied with AC120V(L1, N).
CN05	This is consisted of 15 pin and take a role of getting a cable on keypad to connect with touch PCB.
CN06	This is connector which have door lock motor, cooktop warming center, and relay of oven lamp connected.
Ry-source relay(Ry01)	Circuit is designed to all relay worked after Ry-source relay is being worked. (For safety)
DLB relay(Ry02)	Circuit is designed to have broil relay or worked after DLB relay is being worked by Double line break.
Broil relay(Ry03), Bake relay(Ry04)	Broil relay(Ry03), Bake relay(Ry04), will be on-off working by micom signal after DLB relay is worked. (Broil relay : It will not be problem with reversing the order in insering Black and Brown) (Bake relay : It will not be problem with reversing the order in insering Yellow and Gray)
W/drawer relay(Ry06) and T02 terminal	This is terminal to connect harness with relay to get heater on warming drawer work.
ZNR1	This is the element to protect main PCB, if over voltage is supplied with PCB.
IC02	This is to supply DC12V with main PCB by voltage regulator.
IC03	This is to supply DC5V with main PCB by voltage regulator.
W/Drawer Relay(Ry06) and T02	This is terminal to connect harness with relay to get heater on warming drawer work (some model)
T01 terminal	This is the terminal to supply L1 voltage(120V) with warming drawer relay(Ry06), convection relay(Ry05) (some model)

4. Troubleshooting

SYMPTOM	DIAGNOSIS	REMEDY
oven not operating (No power, No display)	<ul style="list-style-type: none"> * Measure an input voltage. (240/120V or 208/120V) * Measure an input voltage of terminal block. 	<ul style="list-style-type: none"> * check circuit breaker. * Make sure that the state of wire is connected with Terminal block.
	<ul style="list-style-type: none"> * Measure voltage of connector(CN01) on main PCB L1~N : 120V * Measure secondary voltage of Low Voltage Transformer. 13.5V and 7V 	<ul style="list-style-type: none"> * Replace or repair if harness has been loosen or disconnected. * Replace if resistance of Low voltage transformer primary coil is over MΩ. (Thermal Fuse out)
	<ul style="list-style-type: none"> * Measure resistance both ends of terminal on thermostat. (normal : 0 ohms) * Check whether harness is connected terminal on thermostat has been loosen or disconnected. * Measure voltage regulator (IC02,IC03) on main PCB. - IC02 : 7812(DC 12V) - IC03 : 7805(DC 5V) 	<ul style="list-style-type: none"> * Replace the thermostat. * Replace or repair harness. * Replace or repair after confirming the state of working of main PCB.
Oven temperature is risen slowly.	<ul style="list-style-type: none"> * It will display "E-08" if it fail to reach 100°F(38°C) within 10 minute in a state of room temperature. 	<ul style="list-style-type: none"> * Replace after checking whether there is any problem with oven sensor. (1080Ω at the Room temperature)
	<ul style="list-style-type: none"> * Make sure whether harness is connected with Broil and Bake heater has been loosen or disconnected. 	<ul style="list-style-type: none"> * Repair and replace harness.
	<ul style="list-style-type: none"> * Make sure whether Broil and Bake, heater has been disconnected. 	<ul style="list-style-type: none"> * After taking out terminal from each heater, measure resistance of heater and then replace that if it is not a normal resistance value.
	<ul style="list-style-type: none"> * Make sure that heater relay and pattern on main PCB. 	<ul style="list-style-type: none"> * Replace or repair relay. * Replace or repair main PCB.

4. Troubleshooting

SYMPTOM	DIAGNOSIS	REMEDY
Oven temperature is risen fast.	* Check whether temperature is risen over 400°F(202°C) within 10 minutes in a state of room temperature.	* Replace or repair it if relay on main PCB have a short circuit.
	* Check whether harness has been misconnected or have a short circuit.	* Replace or repair harness.
	* Measure resistance values of each heater are within a normal extent or not.	* Replace heater is in a abnormal state.
The self-cleaning feature will not operate when warming center or warming drawer is on.	* This is in normal state.	* The self-cleaning feature will not operate when warming center or warming drawer is on.
Keypad is not worked normally in partially or entirely.	* Make sure that keypad cable on main PCB is in normal state.	* Replace after confirming whether it has been loosen or disconnected.
	* Make sure connector (CN05) on main PCB or PCB pattern.	* Replace or repair after confirming whether keypad cable has been loosen or disconncted.
Oven lamp is not working.	* Check the oven lamp relay (Ry09) on PCB and connector (CN06).	* Replace or repair if harness has been loosen or disconnected. * Replace oven lamp relay(Ry09) or Ry-source relay.(Ry01) * Replace main PCB.
	* Measure the resistance value of both ends of lamp terminal.	* Replace lamp if it has been disconnected.(120V / 40W)

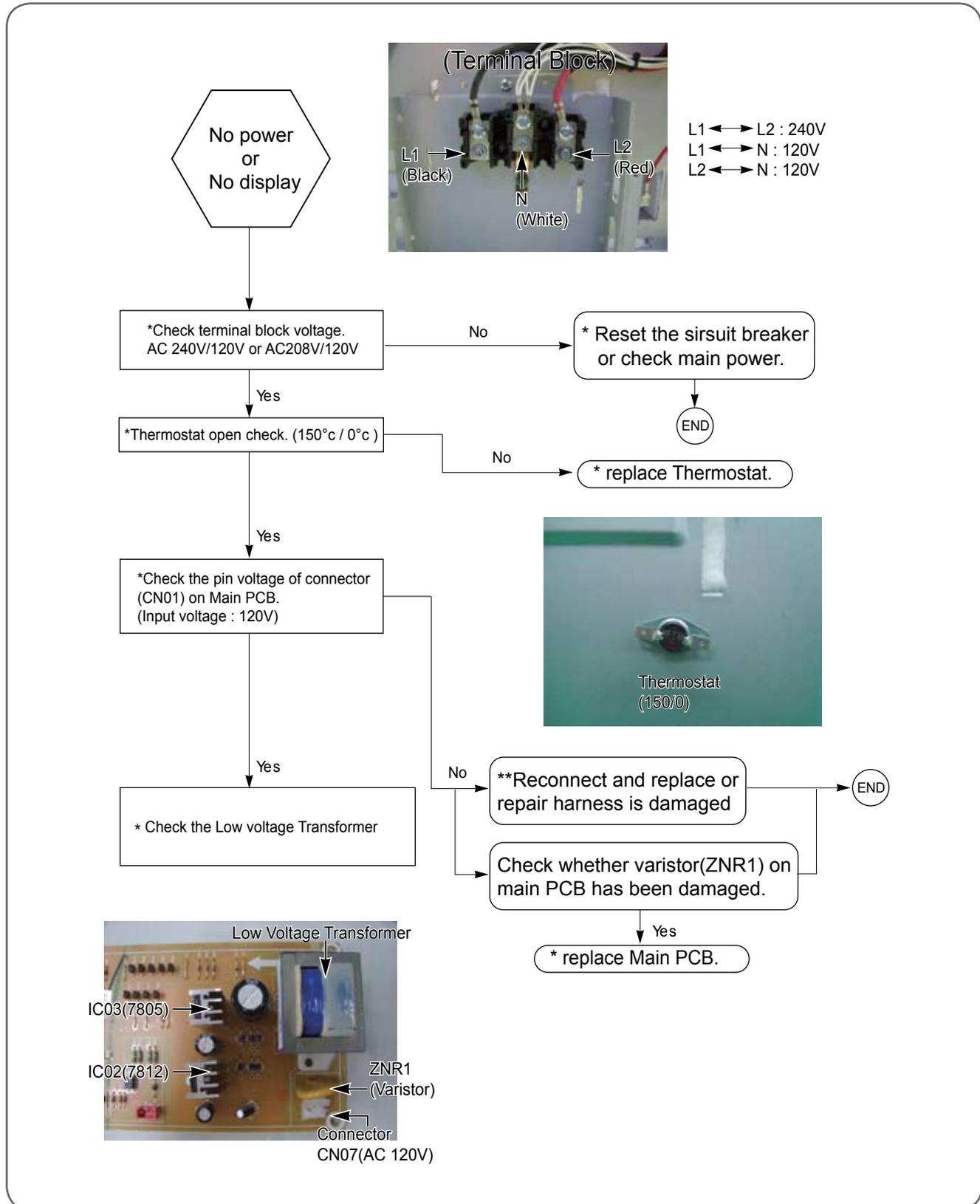
4. Troubleshooting

SYMPTOM	DIAGNOSIS	REMEDY
Cooktop is not working or being occurred a abnormal working.	* Make sure that Radiant element or Infinite switch corresponded RR(Right Rear), RF(Right Front), LR(Left Rear), LF(Left Front).	* Replace Infinite switch or Radiant element.
	* Check whether harness is connected with radiant element or Infinite switch has been loosen or disconnected.	* Replace or repair harness
	* Check whether there is any crack or the area of being disconnected of harness.	
	* Measure whether RC(Rear Center) Heater has been connected with warming center relay(Ry07) on main PCB normally or not.	* Replace or repair Warming Center. relay(Ry07) * Replace or repair Warming Ry-source relay. * Replace main PCB. * Replace or repair if harness has been loosen or disconnected.
It has smell or smoke when oven has been started initially.	* This is in normal state.	* It has smell or smoke with burning dirt in oven or a foreign substance when oven has been working initially. * Ventilate after getting self cleaning mode to work.
LED display is a little bit dim partially or invisible entirely.	* LED display is inferior.	* Replace main PCB.
There is not buzzer beep sound when keypad is being worked.	* Check the state of sound feature. (Hidden key is oven Light and 0) * Check the state of buzzer on main PCB and whether PCB pattern have a short circuit or has been open.	* Change the sound feature "off" to "on" * Replace or repair main PCB.

4. Troubleshooting

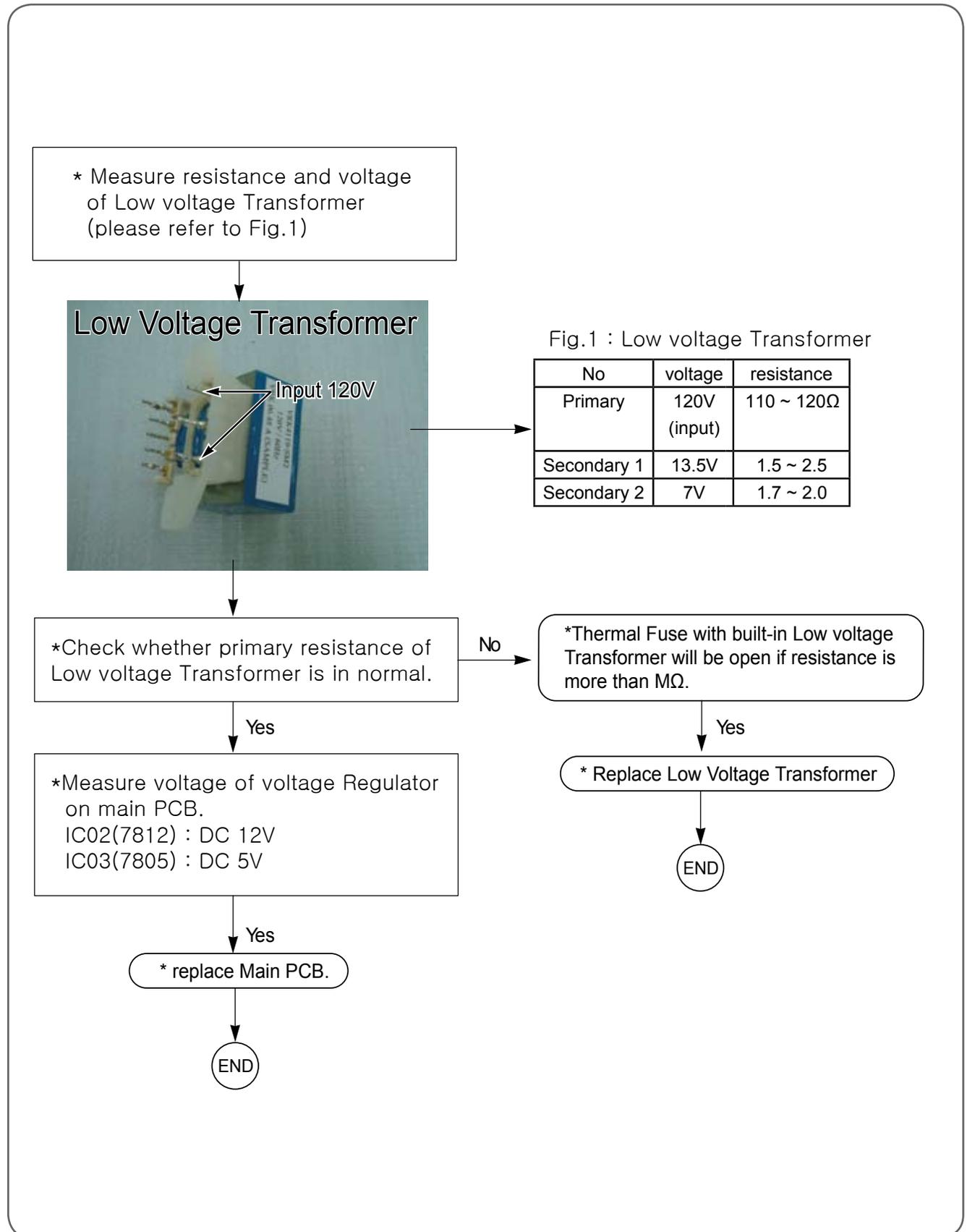
4-2 Electrical Malfunction

Safety error



4. Troubleshooting

4-2 Electrical Malfunction



4. Troubleshooting

4-2 Electrical Malfunction

Cooktop No heating or Abnormal working

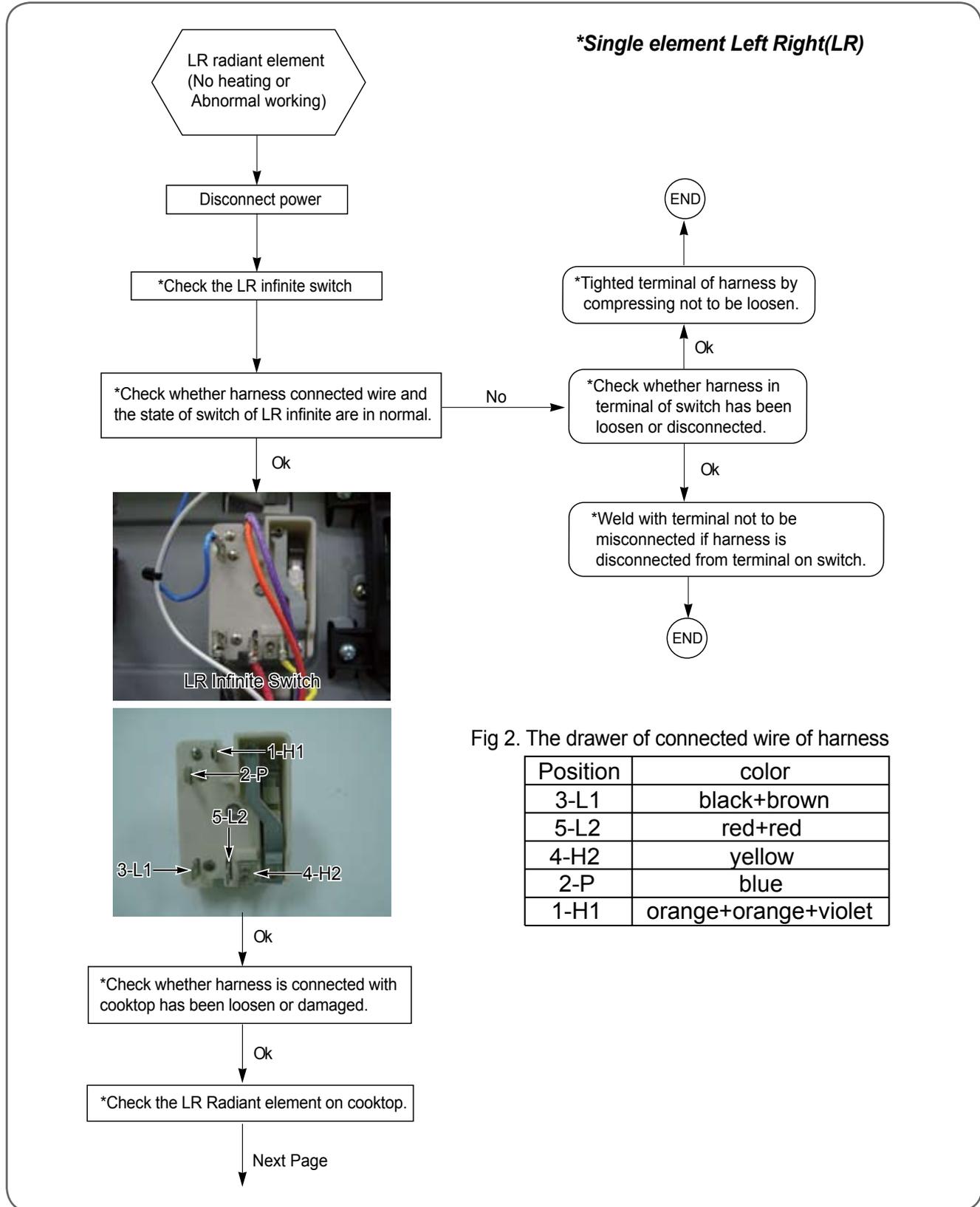
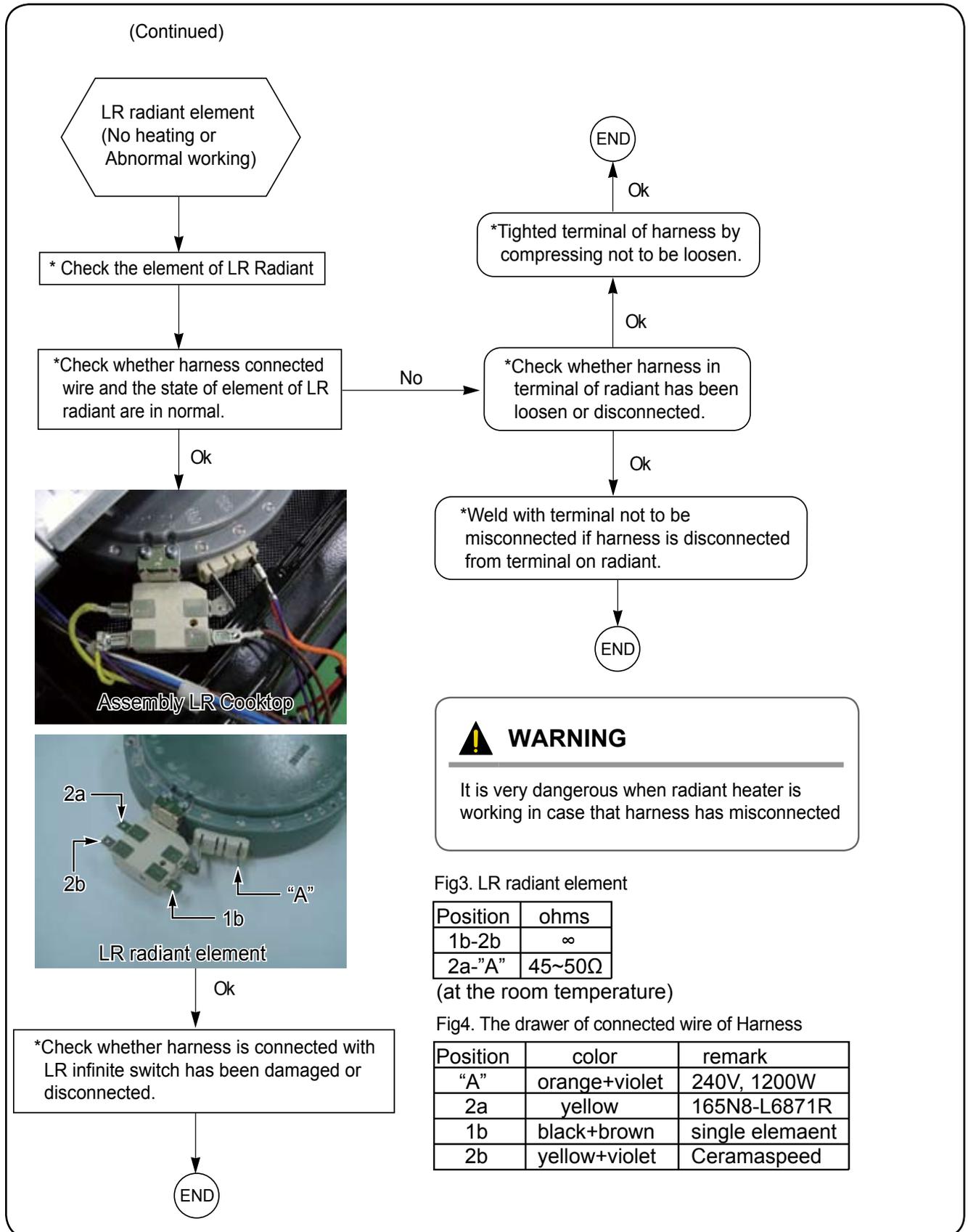


Fig 2. The drawer of connected wire of harness

Position	color
3-L1	black+brown
5-L2	red+red
4-H2	yellow
2-P	blue
1-H1	orange+orange+violet

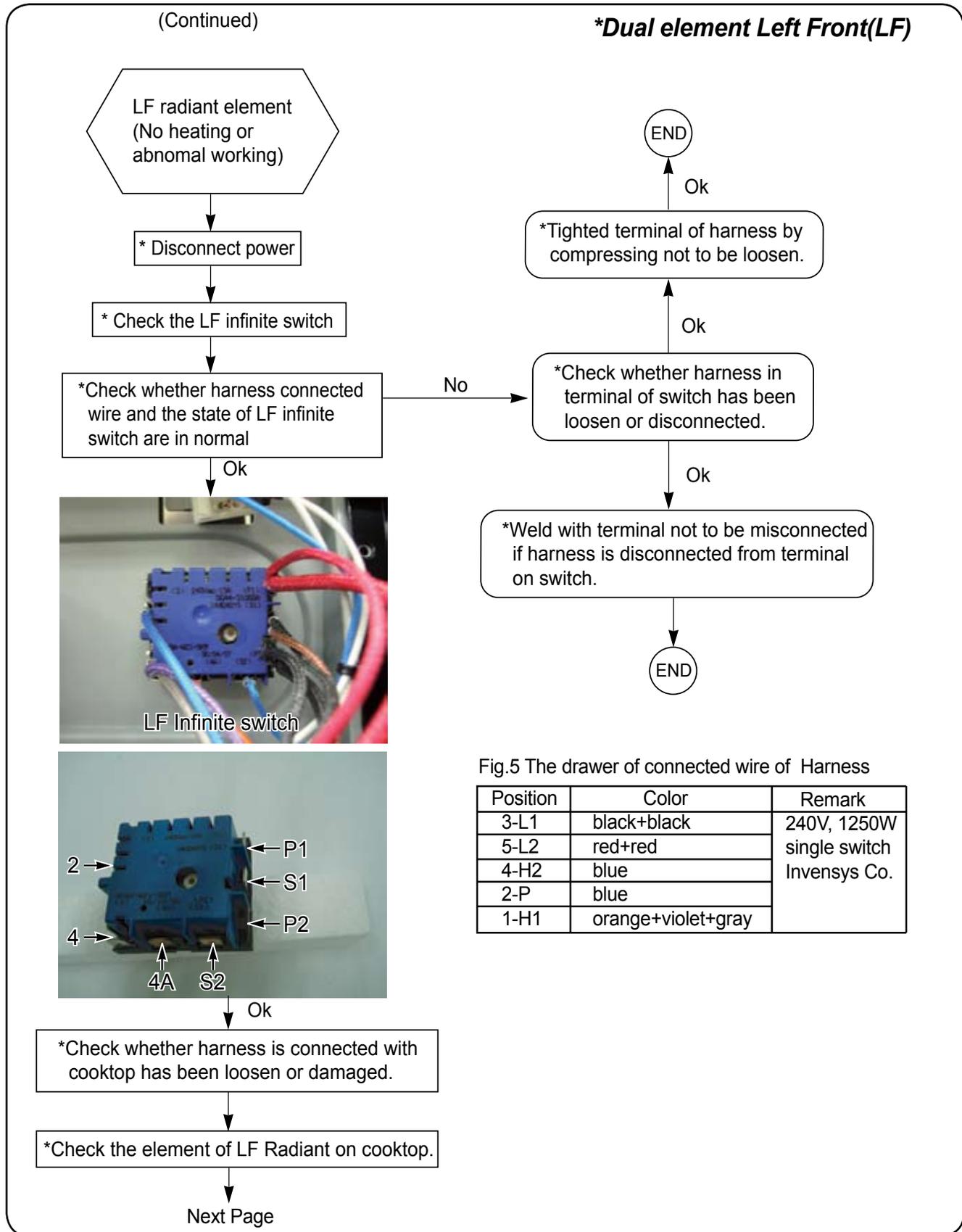
4. Troubleshooting

4-2 Electrical Malfunction



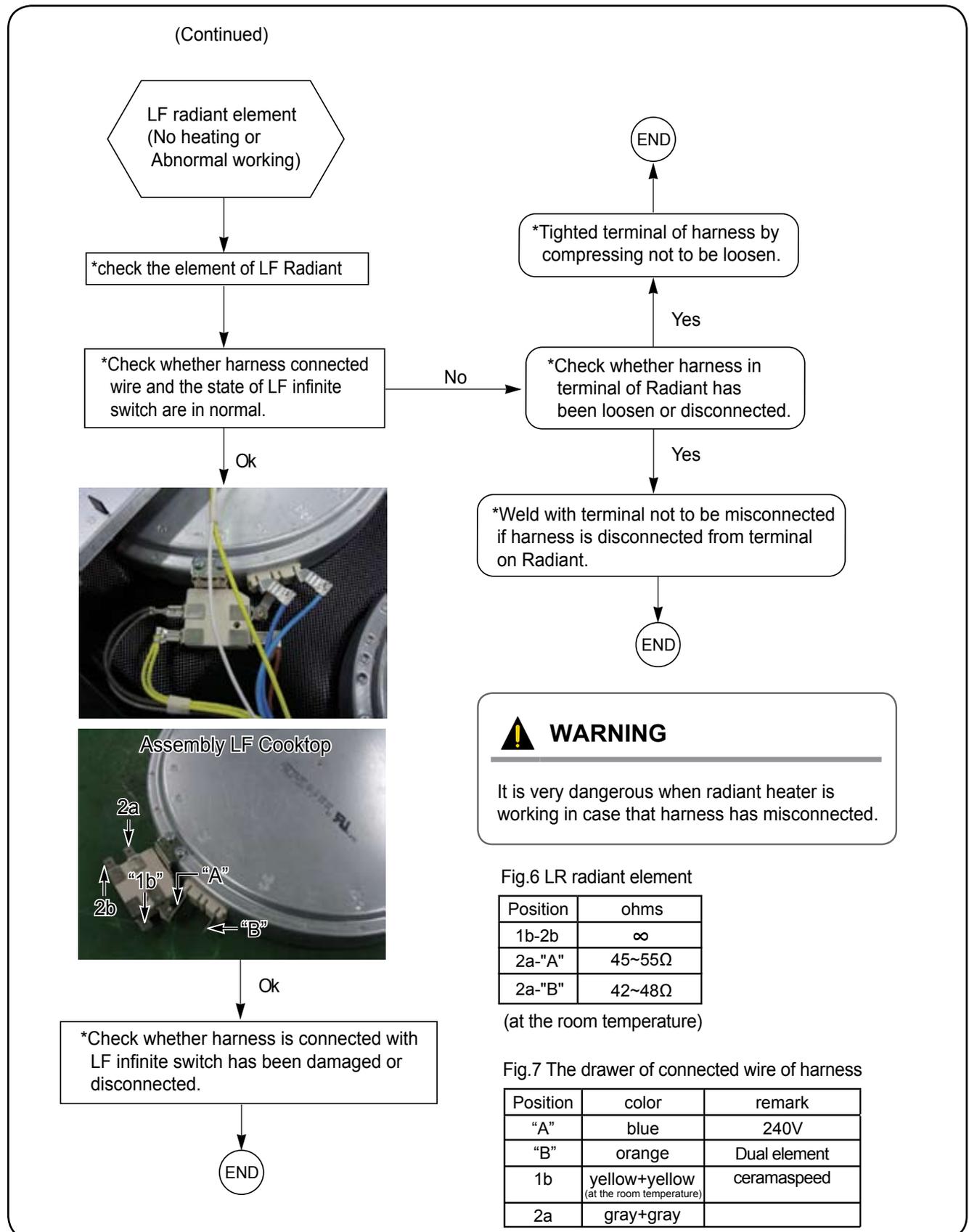
4. Troubleshooting

4-2 Electrical Malfunction



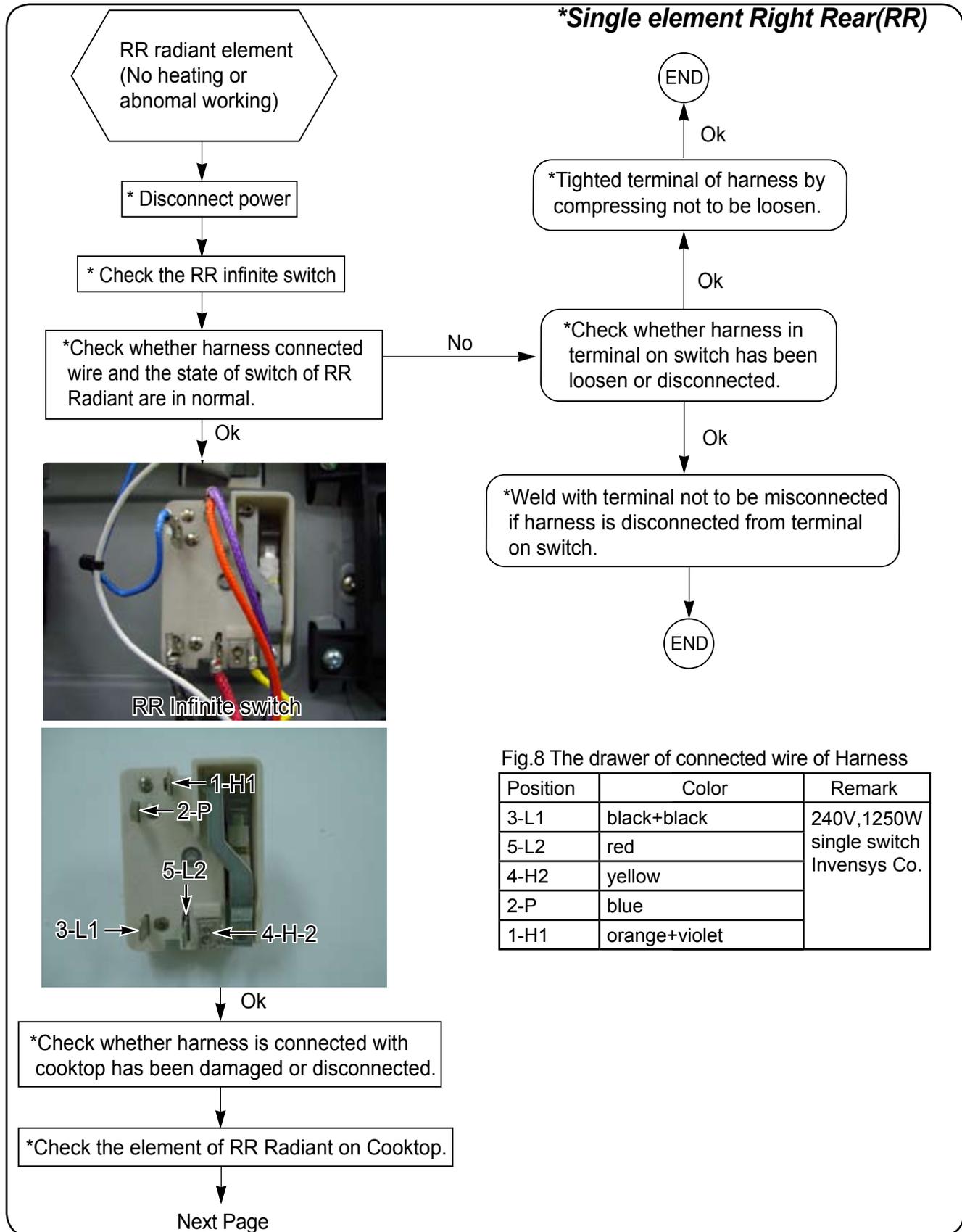
4. Troubleshooting

4-2 Electrical Malfunction



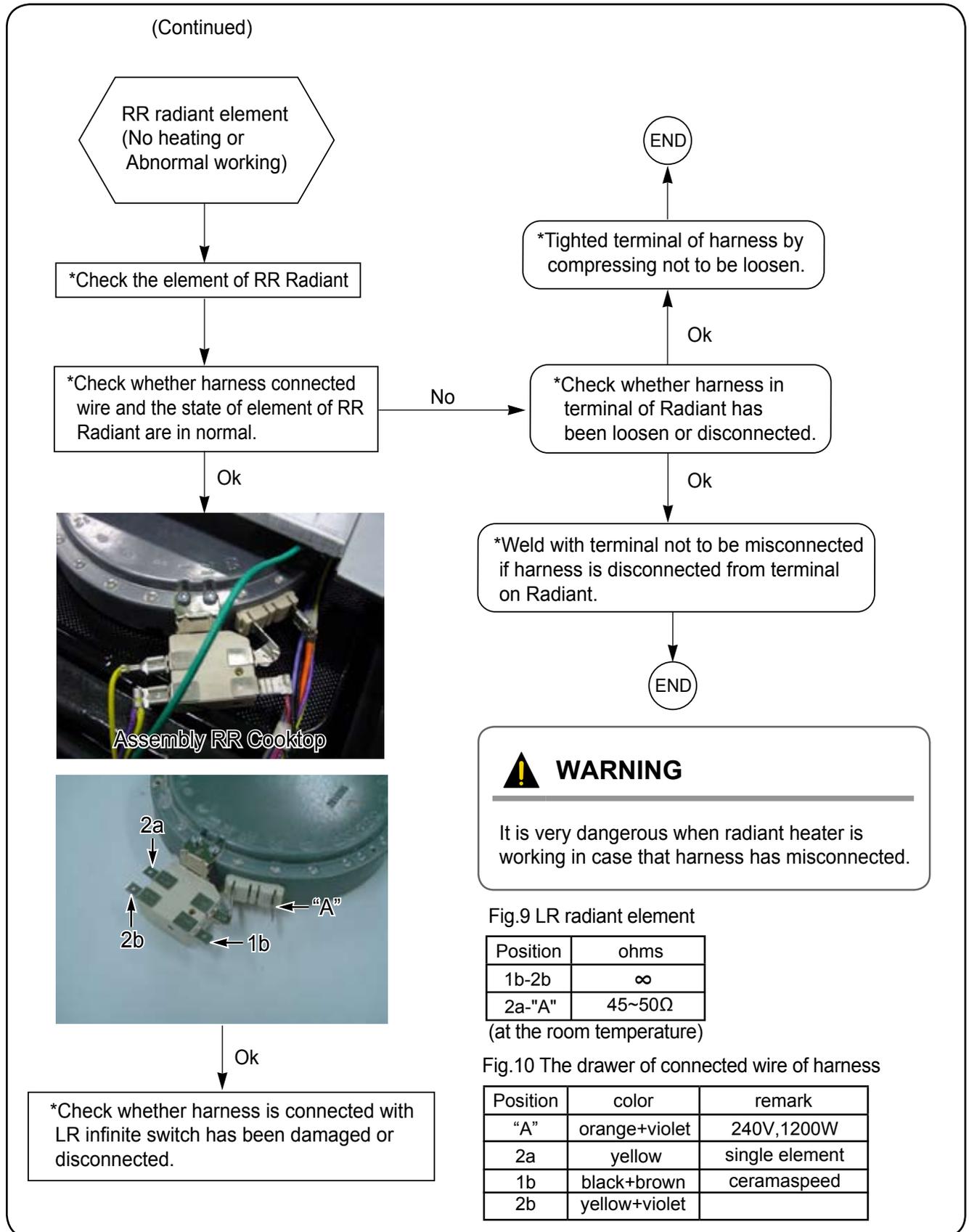
4. Troubleshooting

4-2 Electrical Malfunction



4. Troubleshooting

4-2 Electrical Malfunction



4. Troubleshooting

4-2 Electrical Malfunction

*Dual element Left Front(LF)

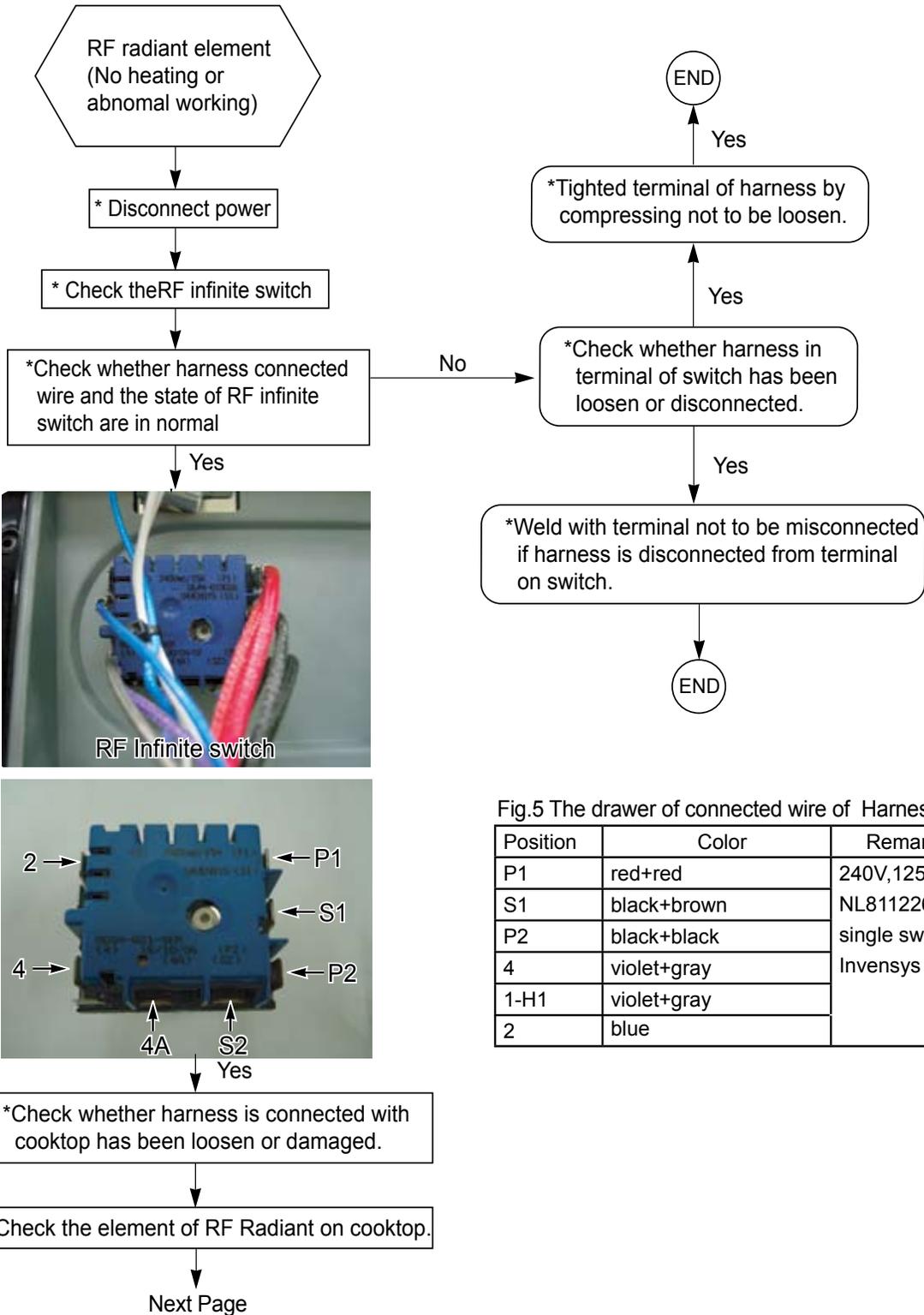


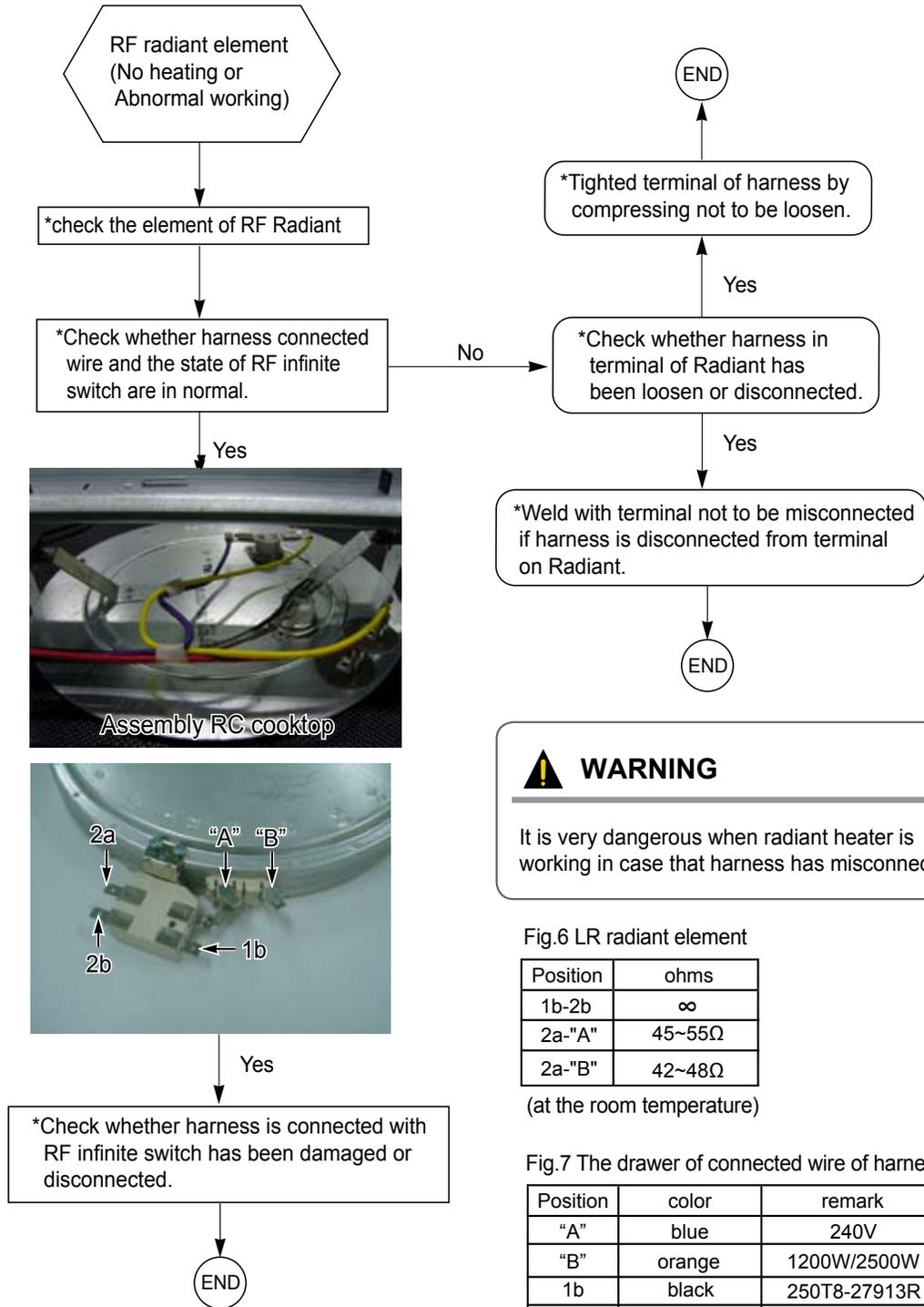
Fig.5 The drawer of connected wire of Harness

Position	Color	Remark
P1	red+red	240V,1250W
S1	black+brown	NL811226
P2	black+black	single switch
4	violet+gray	Invensys Co.
1-H1	violet+gray	
2	blue	

4. Troubleshooting

4-2 Electrical Malfunction

(Continued)



⚠ WARNING

It is very dangerous when radiant heater is working in case that harness has misconnected.

Fig.6 LR radiant element

Position	ohms
1b-2b	∞
2a-"A"	45~55Ω
2a-"B"	42~48Ω

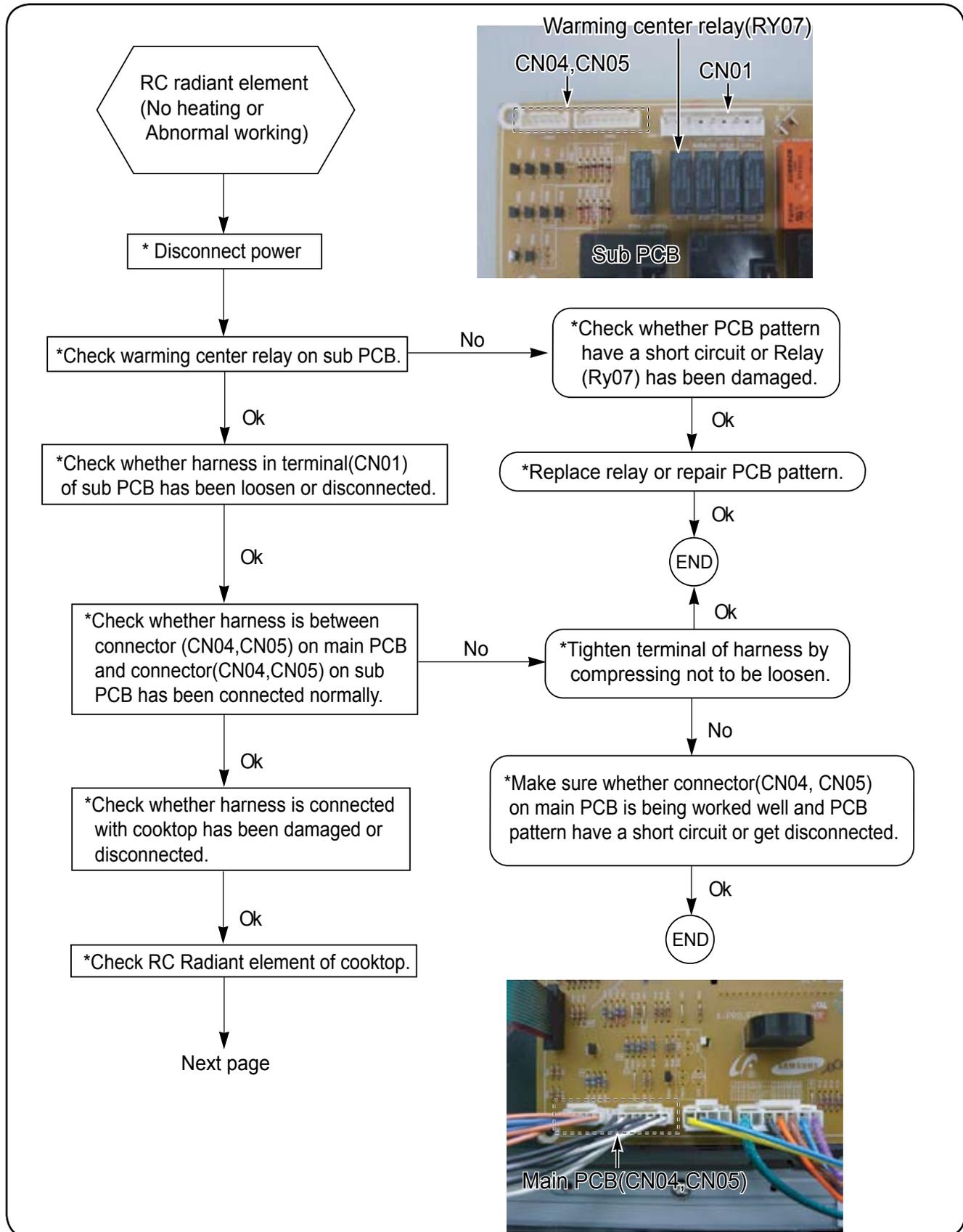
(at the room temperature)

Fig.7 The drawer of connected wire of harness

Position	color	remark
"A"	blue	240V
"B"	orange	1200W/2500W
1b	black	250T8-27913R
2b	yellow+yellow	Dual element
2a	gray	Ceramaspeed Co.

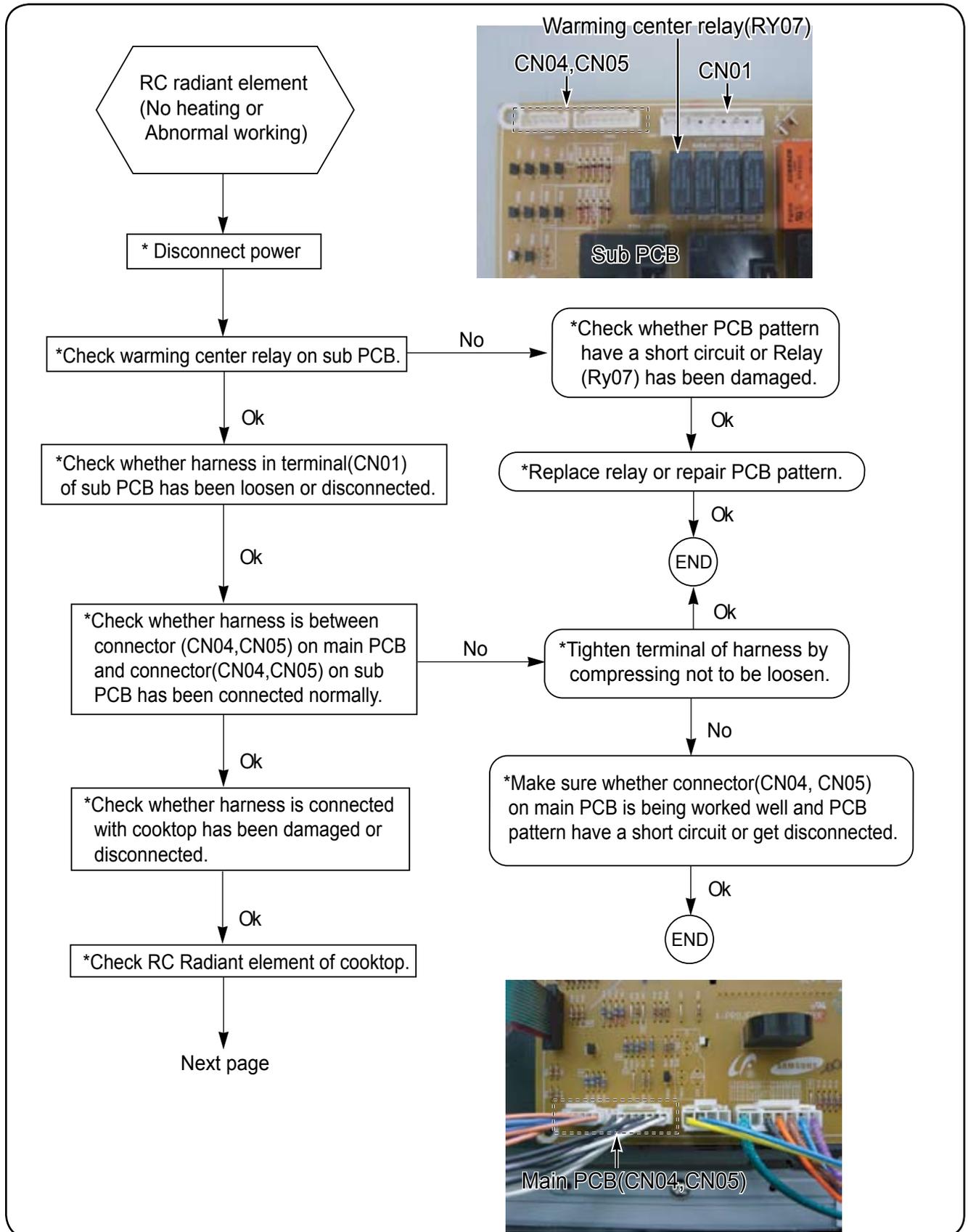
4. Troubleshooting

4-2 Electrical Malfunction (00 Version)



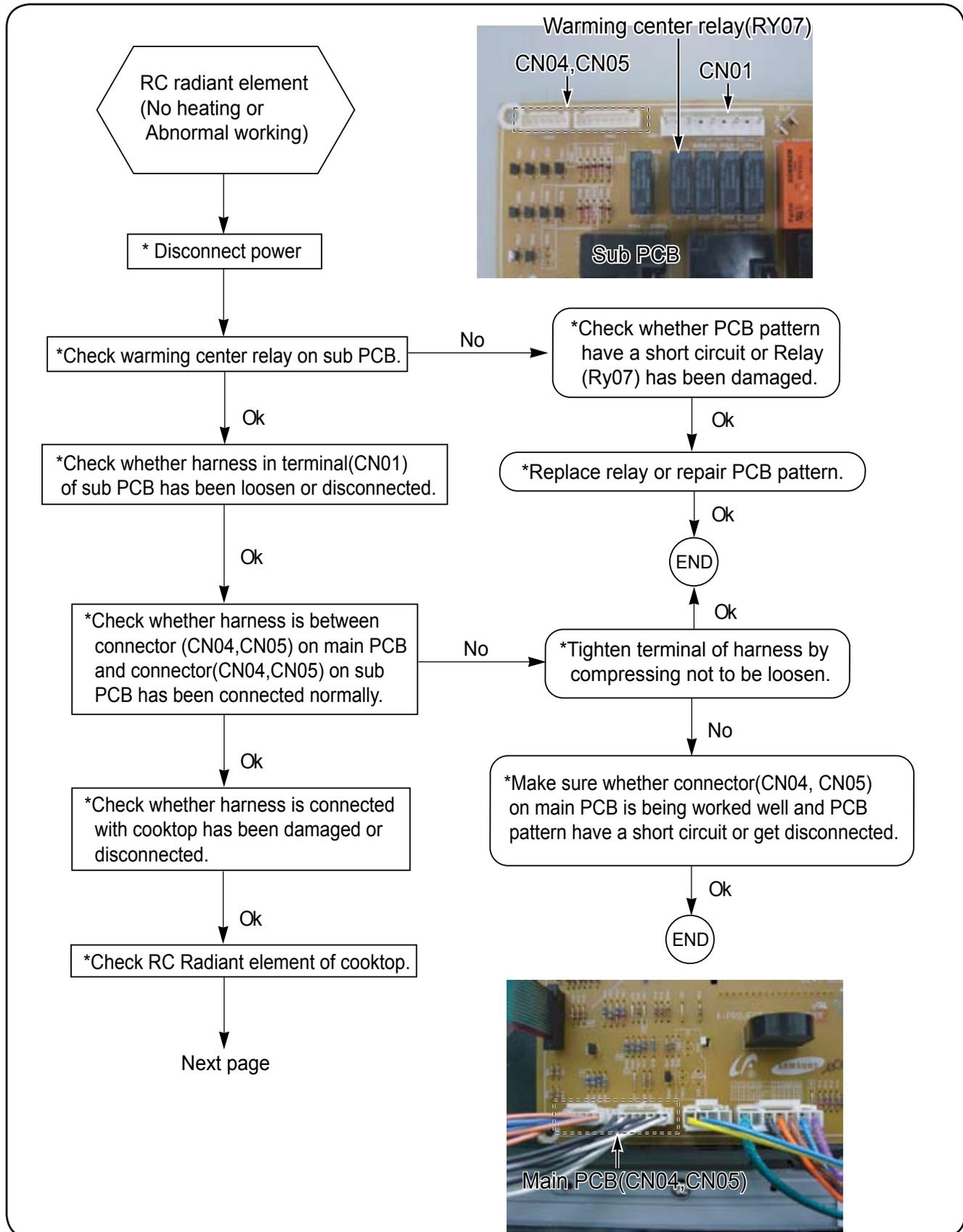
4. Troubleshooting

4-2 Electrical Malfunction (01 Version)



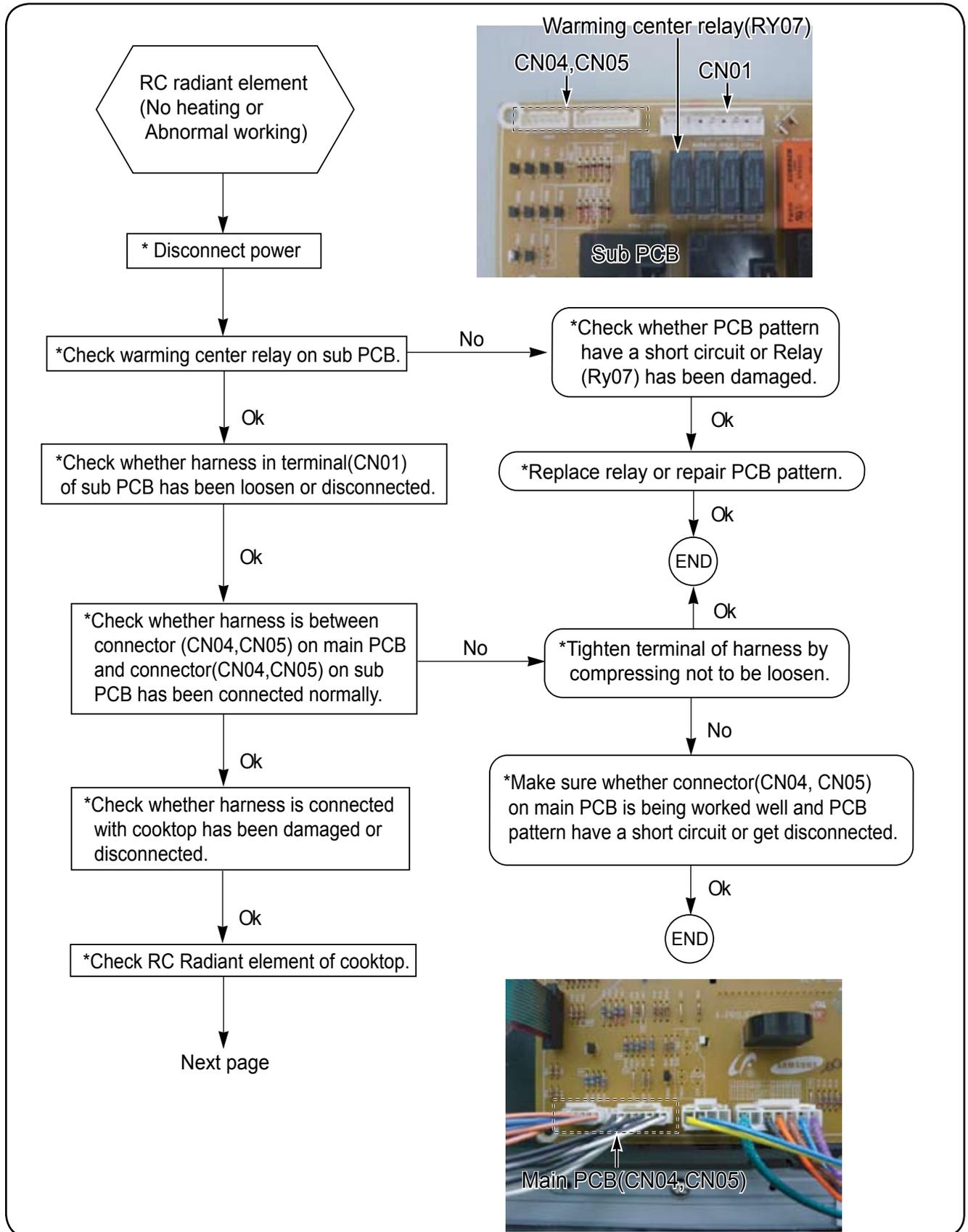
4. Troubleshooting

4-2 Electrical Malfunction (02 Version)



4. Troubleshooting

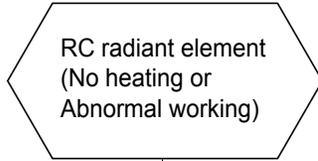
4-2 Electrical Malfunction (03 Version)



4. Troubleshooting

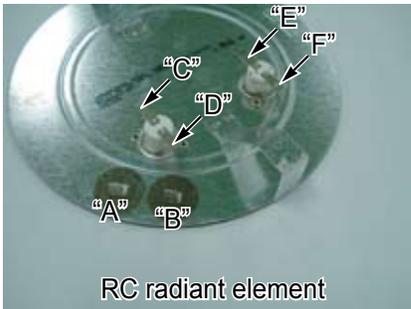
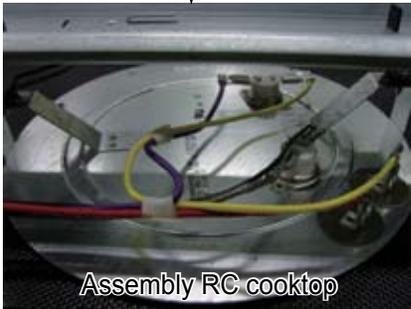
4-2 Electrical Malfunction (00 Version)

(Continued)



*Check element of RC radiant.

*Check whether harness connected wire and the state of element of RC radiant are in normal.



*Check whether harness is connected with warming zone relay on PCB has been damaged or disconnected.

END

No

END

*Tighten terminal of harness by compressing not to be loosen.

*Check whether harness in terminal of radiant has been loosen or disconnected.

*Weld with terminal not to be misconnected if harness is disconnected from terminal on switch.

END

WARNING

It is very dangerous when radiant heater is working in case that harness has misconnected.

Fig.14 RC radiant element

Position	ohms
"A"-"B"	560~600Ω
"C"-"D"	∞Ω
"E"-"F"	0Ω

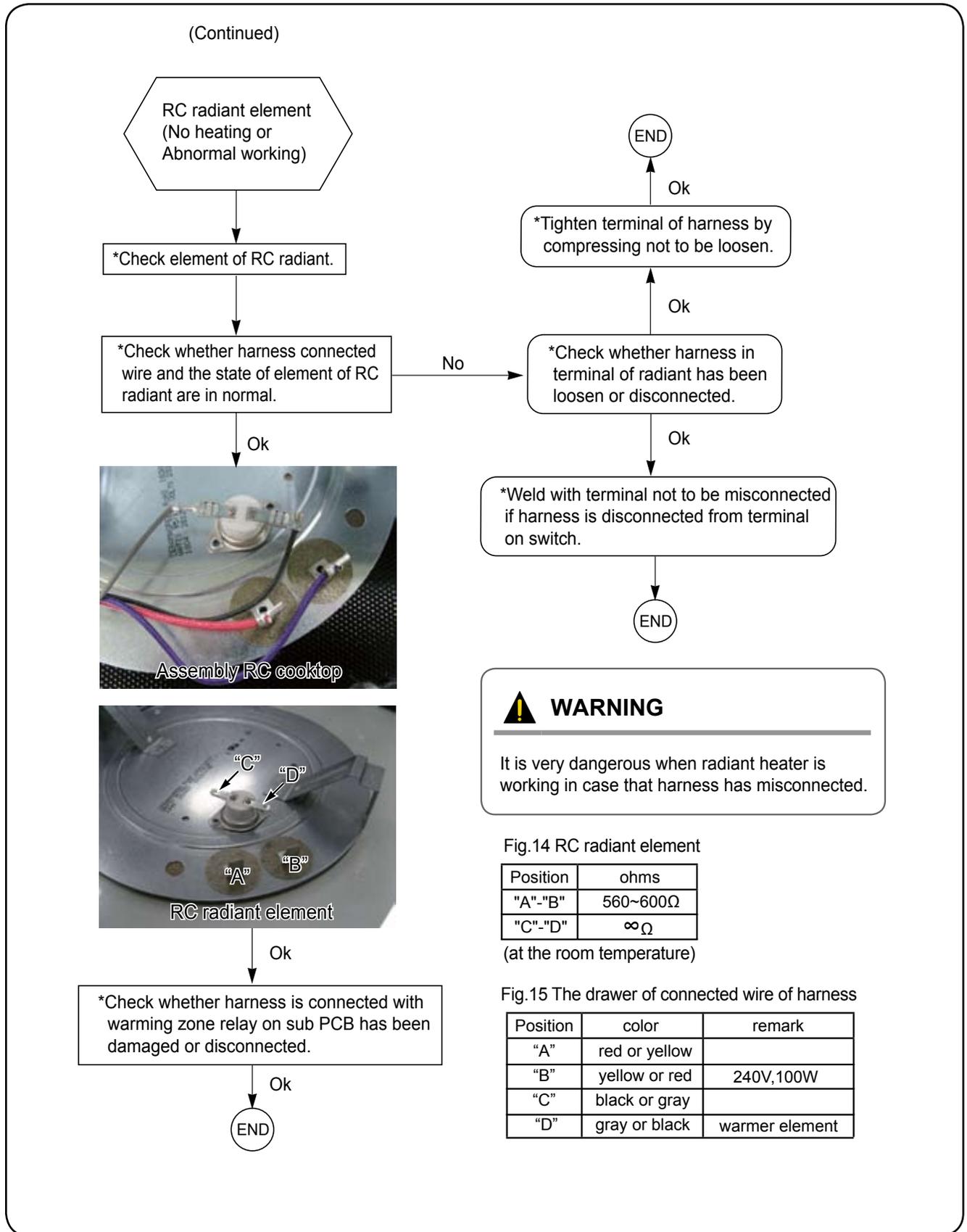
(at the room temperature)

Fig.15 The drawer of connected wire of harness

Position	color	remark
"A"	red or yellow	240V,100W
"B"	yellow or red	
"C"	black or gray	warmer element
"D"	gray or black	
"E"	yellow or violet	
"F"	violet or yellow	

4. Troubleshooting

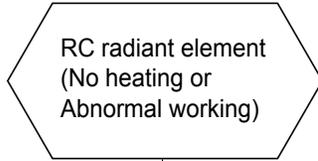
4-2 Electrical Malfunction (01 Version)



4. Troubleshooting

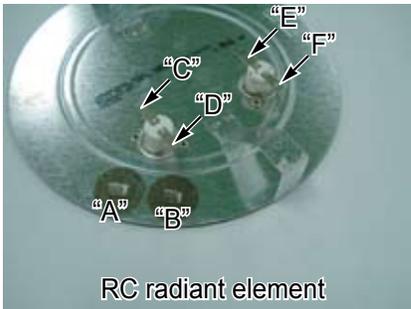
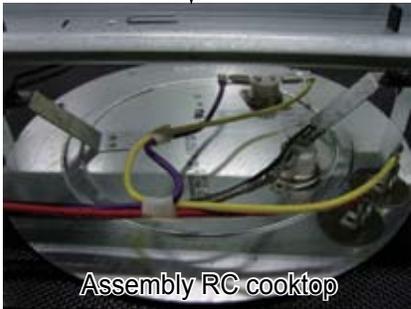
4-2 Electrical Malfunction (02 Version)

(Continued)



*Check element of RC radiant.

*Check whether harness connected wire and the state of element of RC radiant are in normal.



*Check whether harness is connected with warming zone relay on PCB has been damaged or disconnected.

END

No

END

*Tighten terminal of harness by compressing not to be loosen.

*Check whether harness in terminal of radiant has been loosen or disconnected.

*Weld with terminal not to be misconnected if harness is disconnected from terminal on switch.

END

⚠ WARNING

It is very dangerous when radiant heater is working in case that harness has misconnected.

Fig.14 RC radiant element

Position	ohms
"A"- "B"	560~600Ω
"C"- "D"	∞Ω
"E"- "F"	0Ω

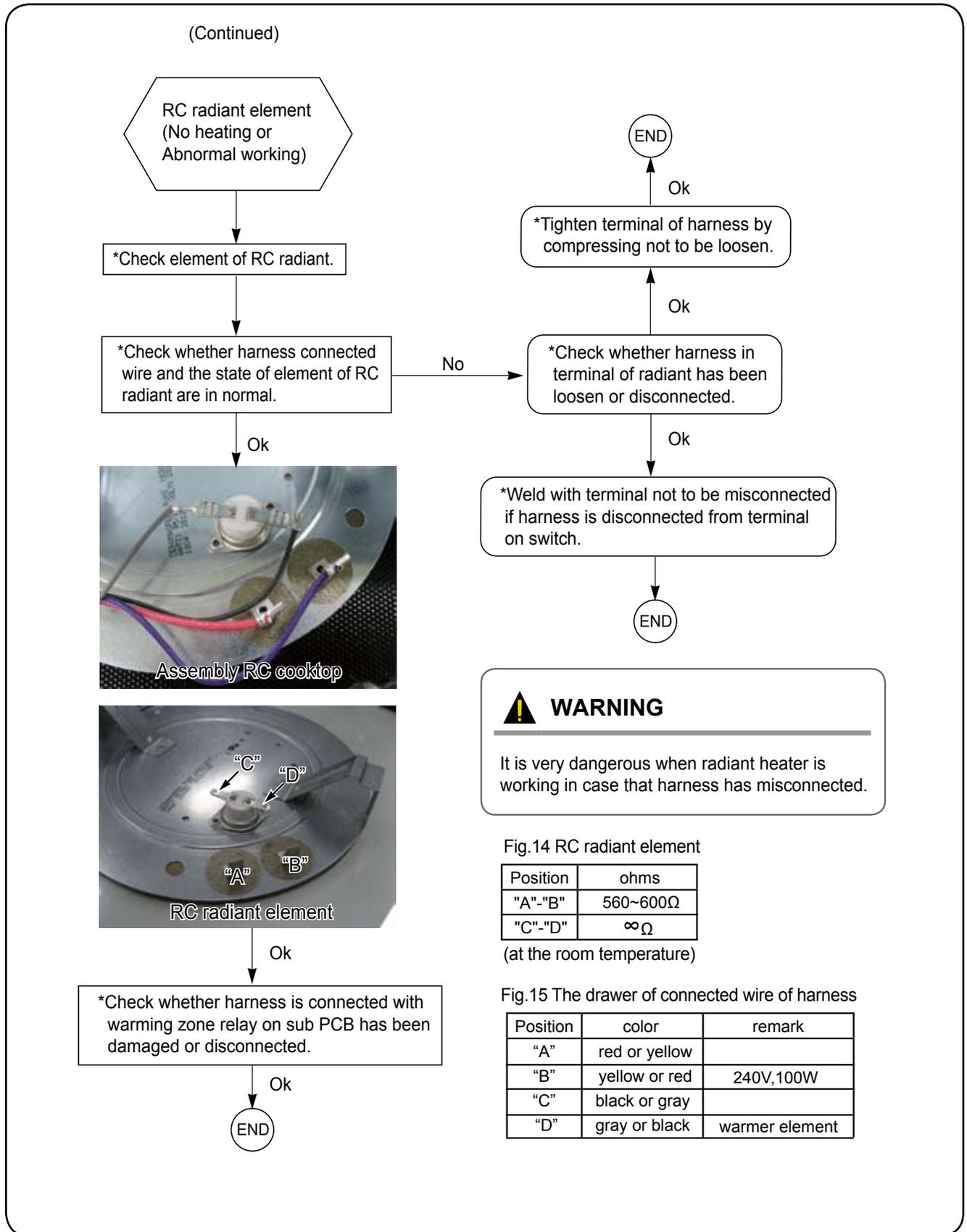
(at the room temperature)

Fig.15 The drawer of connected wire of harness

Position	color	remark
"A"	red or yellow	240V,100W
"B"	yellow or red	
"C"	black or gray	warmer element
"D"	gray or black	
"E"	yellow or violet	
"F"	violet or yellow	

4. Troubleshooting

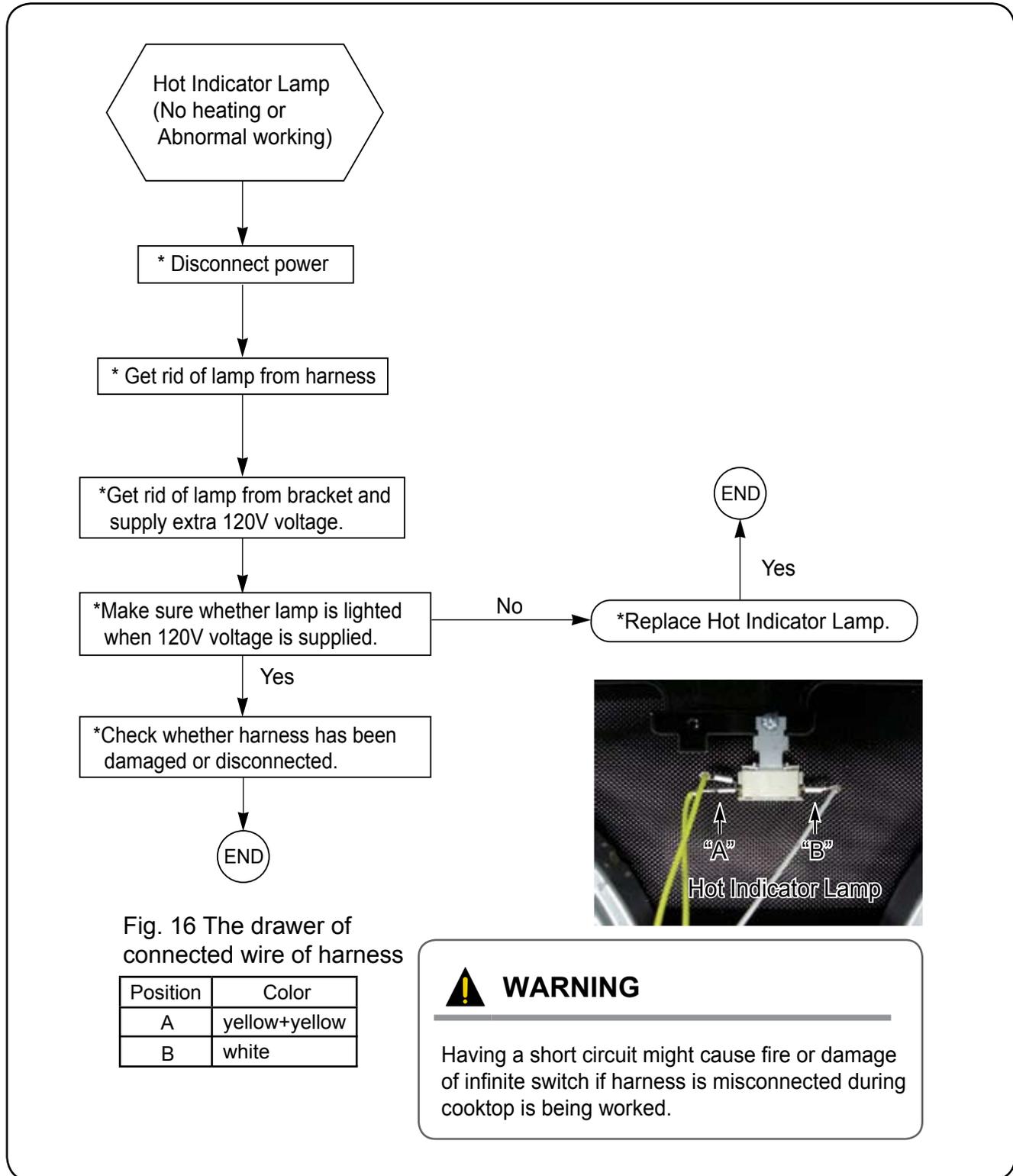
4-2 Electrical Malfunction (03 Version)



4. Troubleshooting

4-2 Electrical Malfunction

Hot indicator Lamp failure (cooktop)



(* Warning : Having a short circuit of harness color to be turned “Yellow+white” might cause fire or damage of infinite switch.)

4. Troubleshooting

4-2 Electrical Malfunction

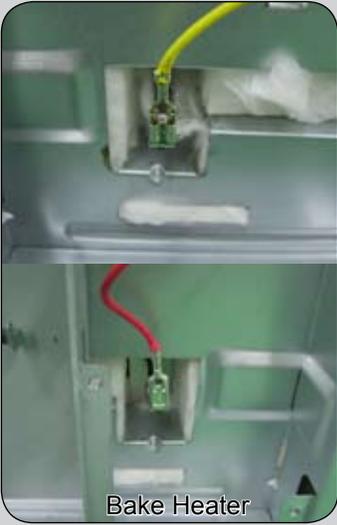
Component testing procedures



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.

FIGURE	TESTS MEASURE	RESULTS
 <p>Broil Heater</p>	<ul style="list-style-type: none"> * Measure resistance values of heater's terminal after taking off harness from heater. * Measure voltage of heater's terminal after making oven work by pressing broil keypad. 	<ul style="list-style-type: none"> * Approx : 13 ~ 16Ω (at the room temperature) * Terminal voltage of Broil heater : AC 240V * Replace or repair harness * Replace or repair PCB
 <p>Bake Heater</p>	<ul style="list-style-type: none"> * Measure resistance values of heater's terminal after taking off harness from heater. * 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.) 	<ul style="list-style-type: none"> * Approx : 26 ~ 30Ω (at the room temperature) * Terminal voltage of bake heater : AC 240V * Replace or repair harness * Replace or repair PCB
 <p>Door Lock</p>	<ul style="list-style-type: none"> * Measure the state of micro switch and motor after taking off harness from the heater. * Check whether lock work normally by pressing cooking time button and delay start keypad at the same time for 3 seconds. 	<ul style="list-style-type: none"> * Lock motor Resistance : 1750 ~ 1850Ω (at the room temperature) voltage : 120V * Micro switch COM-NO , COM-NC * Replace or repair if harness has been loosen or disconnected.

4. Troubleshooting

4-2 Electrical Malfunction

FIGURE	TESTS MEASURE	RESULTS
 <p>Oven Lamp Socket</p>	<ul style="list-style-type: none"> * First of all, make sure that lamp filament is disconnected or not. * Measure resistance socket's terminal after separating harness from heater and removing lamp. * Measure the voltage of socket's terminal after having lamp worked by pressing oven light keypad. 	<ul style="list-style-type: none"> * Approx : $\infty \Omega$ * Terminal voltage of lamp socket : 120V * Replace or repair harness. * Replace or repair PCB
 <p>Convection Fan</p>	<ul style="list-style-type: none"> * Measure resistance value of Motor terminal after taking off harness from Motor. * Measure Voltage of Motor's terminal after making oven work by pressing bake keypad. (Make sure that voltage has to be measured for more than 1 minute because Fan is supposed to on-off Cycling work.) 	<p>Approx</p> <ul style="list-style-type: none"> * Convection Fan : 20 ~ 30Ω * Sub Fan : 85 ~ 100Ω* (Upper, Lower) * Terminal Voltage of Convection Fan and Sub Fan : 120V * Replace or repair harness * Replace or repair PCB
 <p>Sub Fan(Upper)</p>		
 <p>Sub Fan(Lower)</p>		

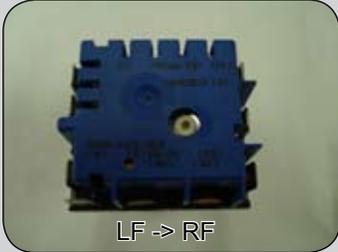
4. Troubleshooting

4-2 Electrical Malfunction

FIGURE	TESTS MEASURE	RESULTS
 <p>LR Infinite Switch (Single)</p>	<ul style="list-style-type: none"> * Check whether harness is connected with switch properly. 3-L1 black+black 5-L2 red+red 4-H2 yellow 2-P blue 1-H1 orange+violet * Measure the voltage and resistance between terminals. (Please refer to schematic diagram) * Check whether power level is right with making LR cooktop work. 	<p>Approx</p> <ul style="list-style-type: none"> * Resistance between terminals when switch is off : ∞ Ω * When switch is on(HI) resistance H1-L1-P : 0Ω L2-H2 : 0Ω * When switch is on(HI) voltage L2=H2 \leftrightarrow H1=L1:240V L1=P \leftrightarrow LR surface Lamp :120V * Replace or repair harness
 <p>RR Infinite Switch (Single)</p>	<ul style="list-style-type: none"> * Check whether harness is connected with switch properly. 3-L1 black+black 5-L2 red 4-H2 yellow 2-P blue 1-H1 orange+violet* Measure voltage and resistance between terminals. (Please refer to schematic diagram) * Check whether power level is right with making RR cooktop work. 	<p>Approx</p> <ul style="list-style-type: none"> * Resistance between terminals when switch is off : ∞ Ω * When switch is on(HI, Max.) P1-2-4A : 0 Ω S1-S2 : 0 Ω P2-4 : 0 Ω * When switch is on(HI, Max.) voltage P1=2=4A \leftrightarrow P2=4 : 240V S1=S2 \leftrightarrow LF surface lamp : 120V * Replace or repair harness.
 <p>LF Infinite Switch (Dual)</p>	<ul style="list-style-type: none"> * Check whether harness is connected with switch properly. P1 red+red S1 black+brown P2 black+black S2 blue (Indicator lamp) 4A orange 4 violet+gray 2 blue * Measure voltage and resistance between terminals. (Please refer to schematic diagram) * Check whether power level is right with making LF cooktop work. 	<p>Approx</p> <ul style="list-style-type: none"> * Resistance between terminals when switch is off : ∞ Ω * When switch is on(HI, Max.) P1-2-4A : 0 Ω S1-S2 : 0 Ω P2-4 : 0 Ω * When switch is on(HI, Max.) voltage P1=2=4A \leftrightarrow P2=4 : 240V S1=S2 \leftrightarrow LF surface lamp : 120V * Replace or repair harness.

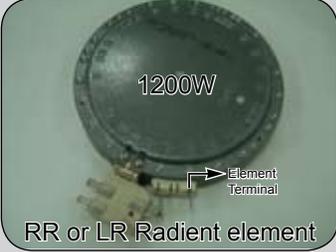
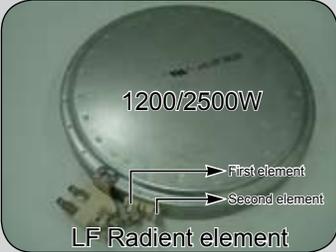
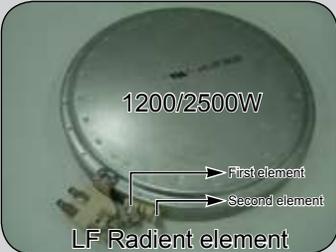
4. Troubleshooting

4-2 Electrical Malfunction

FIGURE	TESTS MEASURE	RESULTS
 <p>LF -> RF</p>	<ul style="list-style-type: none"> * Check whether harness is connected with switch properly. P1 red+red S1 black+brown P2 black+black S2 blue (Indicator lamp) 4A sky 4 violet+gray 2 blue * Measure voltage and resistance between terminals. (Please refer to schematic diagram) * Check whether power level is right with making RF cooktop work. 	<p>Approx</p> <ul style="list-style-type: none"> * Resistance between ∞ terminals when switch is off : Ω * When switch is on(HI, Max.) P1-2-4A : 0 Ω S1-S2 : 0 Ω P2-4 : 0 Ω * When switch is on(HI, Max.) voltage S1=S2 \leftrightarrow RF surface lamp : 120V P1=2=4A \leftrightarrow P2=4 : 240V

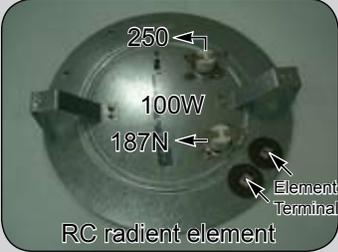
4. Troubleshooting

4-2 Electrical Malfunction

FIGURE	TESTS MEASURE	RESULTS
 <p>1200W RR or LR Radiant element</p>	<ul style="list-style-type: none"> * Check whether harness is connected with terminal of element properly. element terminal :orange+violet “A” orange+violet 2a yellow 1b black+brown 2b yellow+violet * Measure voltage and resistance between terminals. (Please refer to schematic diagram) 	<p>Approx</p> <ul style="list-style-type: none"> * Terminal resistance : 1b-2b= $\infty \Omega$ 2a- element terminal : 45 ~ 50Ω (at the room temperature) * Voltage which supply radiant element 2a - element terminal:240V * Replace or repair harness.
 <p>1200/2500W LF Radiant element</p>	<ul style="list-style-type: none"> * Check whether harness is connected with terminal of element properly. First element terminal : blue Second element terminal : sky “A” blue “B” orange 1b brown+brown 2b yellow+yellow 2a gray+ gray * Measure voltage and resistance between terminals. (Please refer to schematic diagram) 	<p>Approx</p> <ul style="list-style-type: none"> * Terminal resistance : 1b-2b= $\infty \Omega$ 2a-First element terminal: 45 ~ 50Ω 2a-second element terminal: 42 ~ 48Ω (at the room temperature) 2a - first or second terminal :240V * Replace or repair harness.
 <p>1200/2500W LF Radiant element</p>	<ul style="list-style-type: none"> * Check whether harness is connected with terminal of element properly. First element terminal : blue Second element terminal : sky “A” blue “B” orange 1b black 2b yellow+yellow 2a gray * Measure voltage and resistance between terminals. (Please refer to schematic diagram) 	<p>Approx</p> <ul style="list-style-type: none"> * Terminal resistance : 1b-2b= $\infty \Omega$ 2a-First element terminal: 45 ~ 50Ω 2a-second element terminal: 42 ~ 48Ω (at the room temperature) 2a - first or second terminal : 240V * Replace or repair harness.

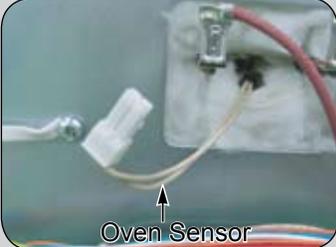
4. Troubleshooting

4-2 Electrical Malfunction

FIGURE	TESTS MEASURE	RESULTS
	<p>* Check whether harness is connected with terminal of element properly.</p> <p>- element terminal : red, violet (It will not be problem with reversing the order in insering yellow and red.)</p> <p>187 type TCO : black, gray (It will not be problem with reversing the order in insering black and violet)</p> <p>250 type TCO : yellow,violet (It will not be problem with reversing the order in insering yellow and violet)</p> <p>* Measure voltage and resistance between terminals. (Please refer to schmatic diagram)</p>	<p>Approx</p> <p>* terminal resistance : 187 type TCO : Ω element terminal : 560 ~ 600Ω (at the room temperature)</p> <p>* element terminal : 240V</p> <p>* Replace or repair harness</p>

4. Troubleshooting

4-2 Electrical Malfunction

FIGURE	TESTS MEASURE	RESULTS
 <p>Door plunger switch</p>	<ul style="list-style-type: none">* Check the state of working of switch.* Make sure whether wire, housing and terminal is connected with switch has been damaged or not.	Normal open : 0Ω Normal close : $\infty\Omega$ <ul style="list-style-type: none">* Replace or repair if wire or terminal has been damaged.
 <p>Oven Sensor</p>	<ul style="list-style-type: none">* Check whether the resistance values of oven sensor is same with a chart's one.* Check whether wire or housing has been loosen or disconnected.	Approx. at the room temperature : 1080Ω

4. Troubleshooting

4-2 Electrical Malfunction

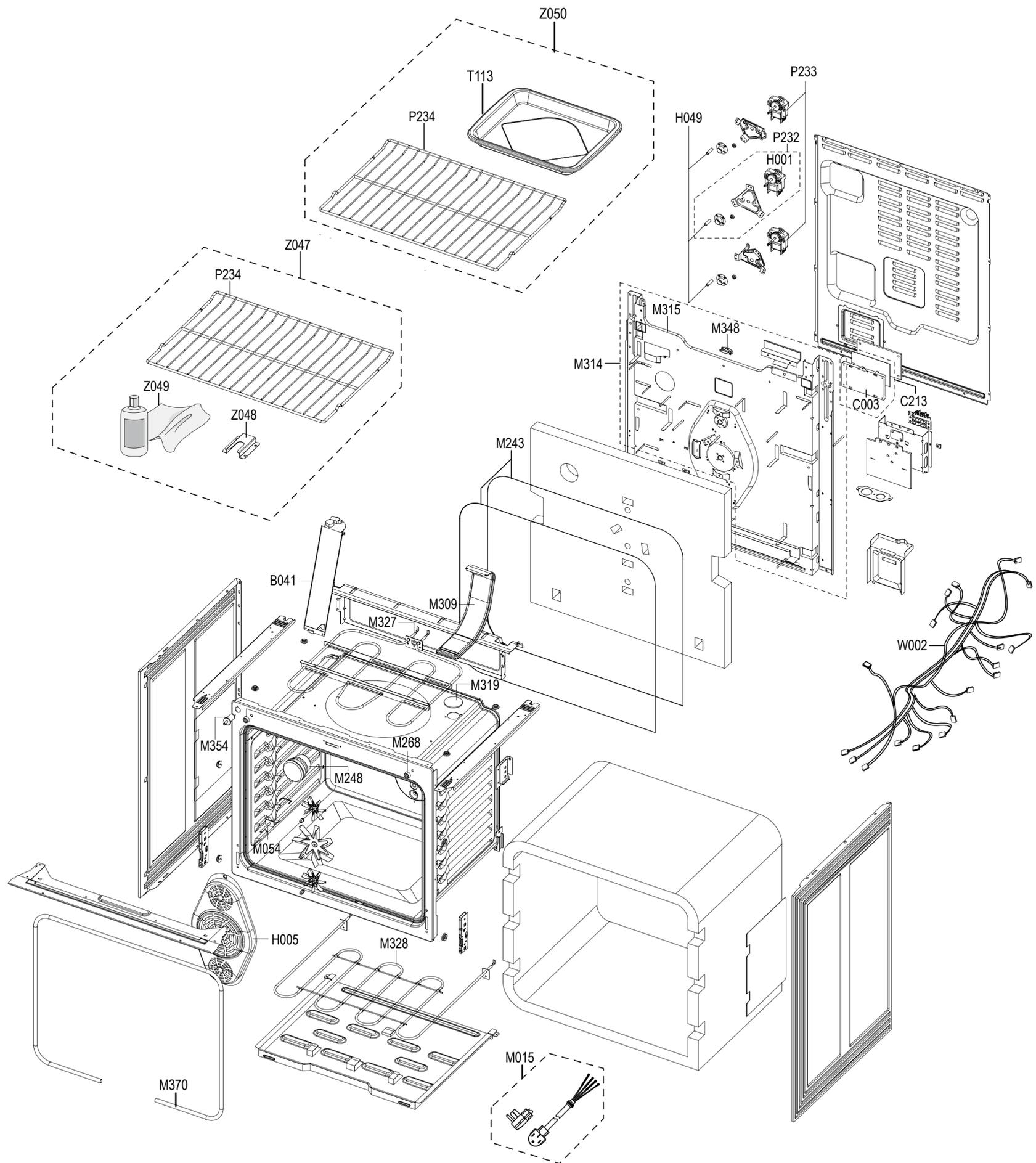
Oven sensor resistance (Temperature vs. Sensor resistance)

$R_0 = 1000 \text{ Ohms (0}^\circ\text{C)}$, $R_P = 2757 \text{ Ohms}$, $U_p = 5V$, $a = 0.00375$

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

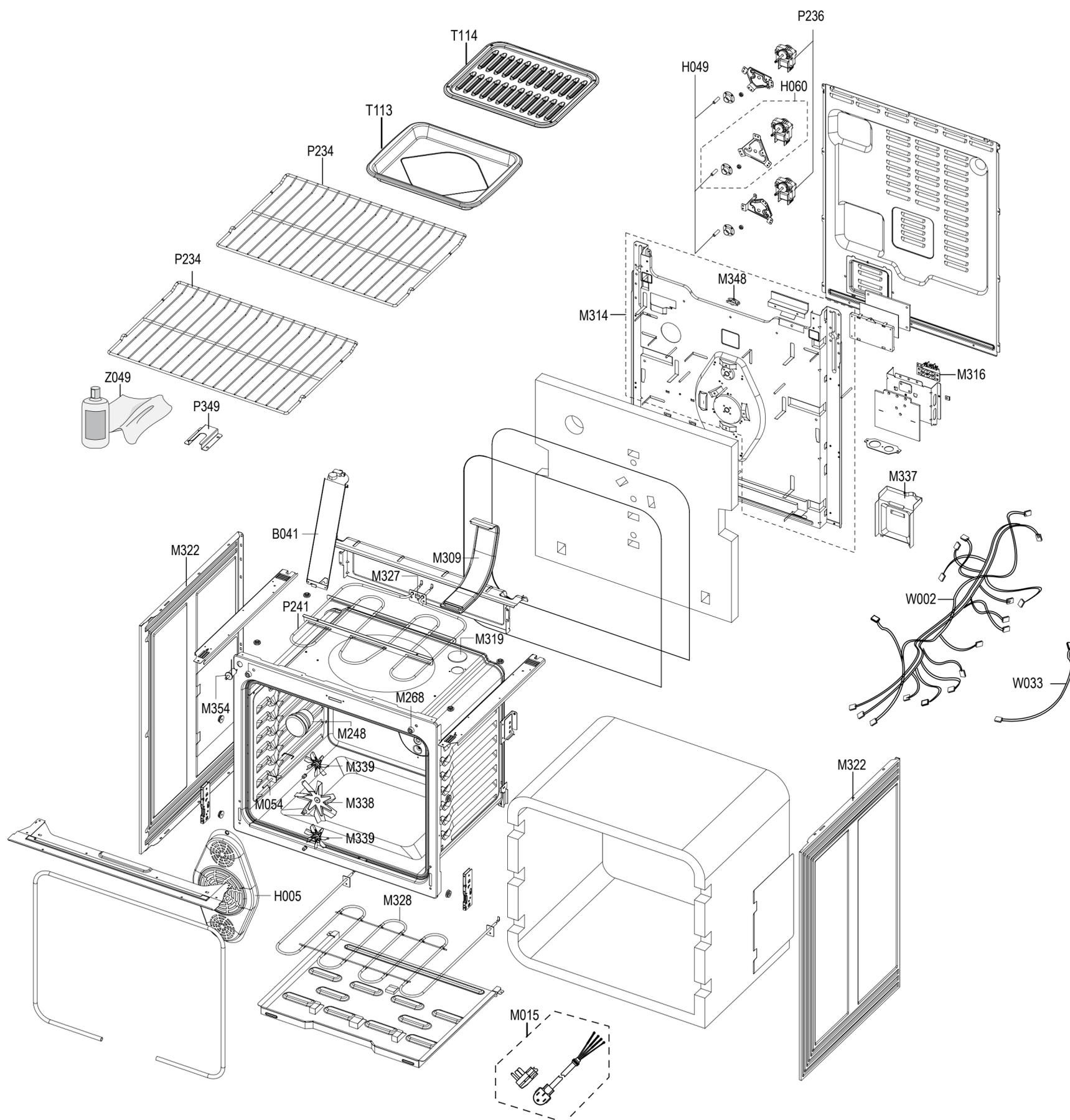
5-1 Exploded Views

(00 Version)



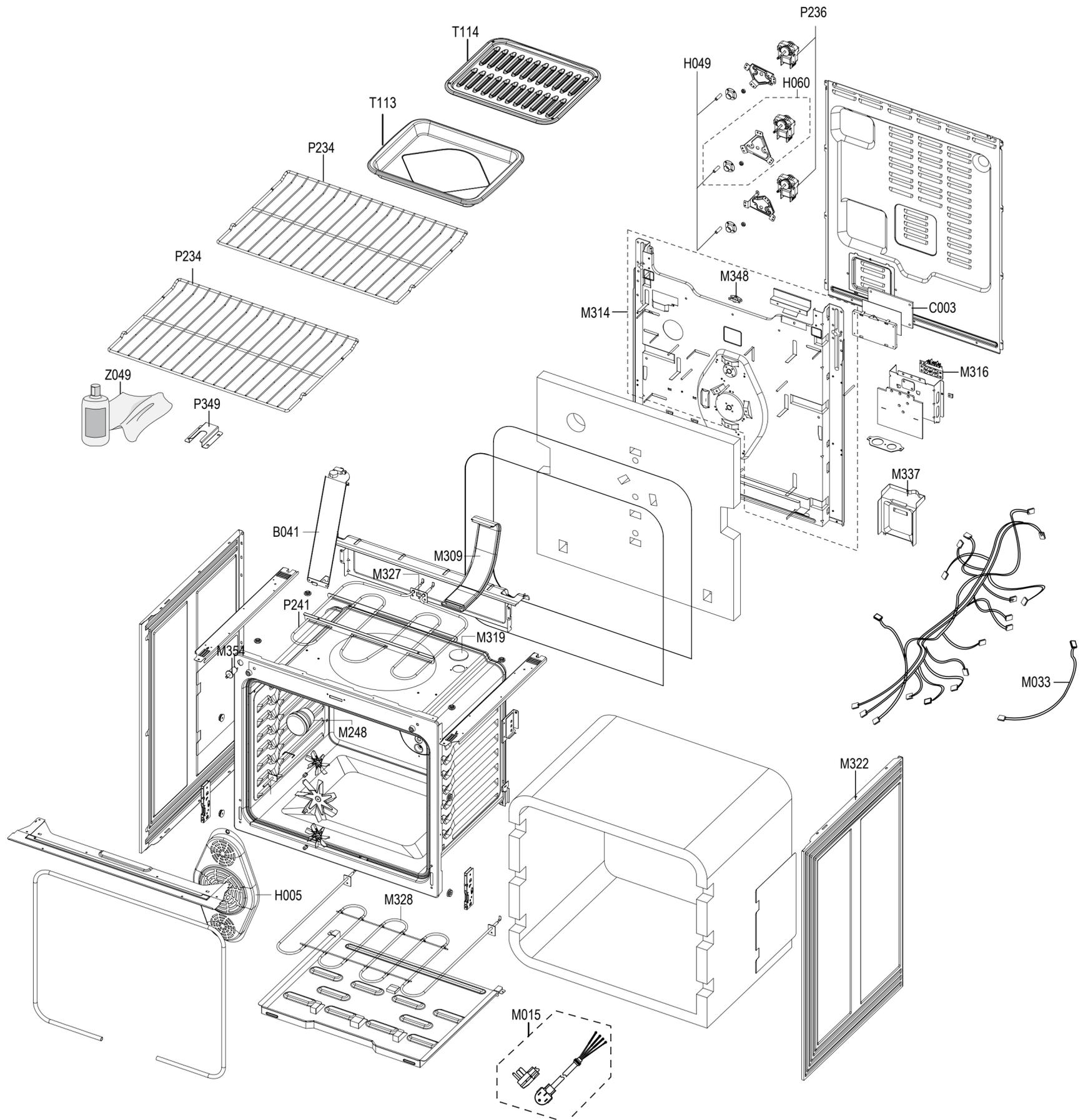
5-1 Exploded Views

(01 Version)



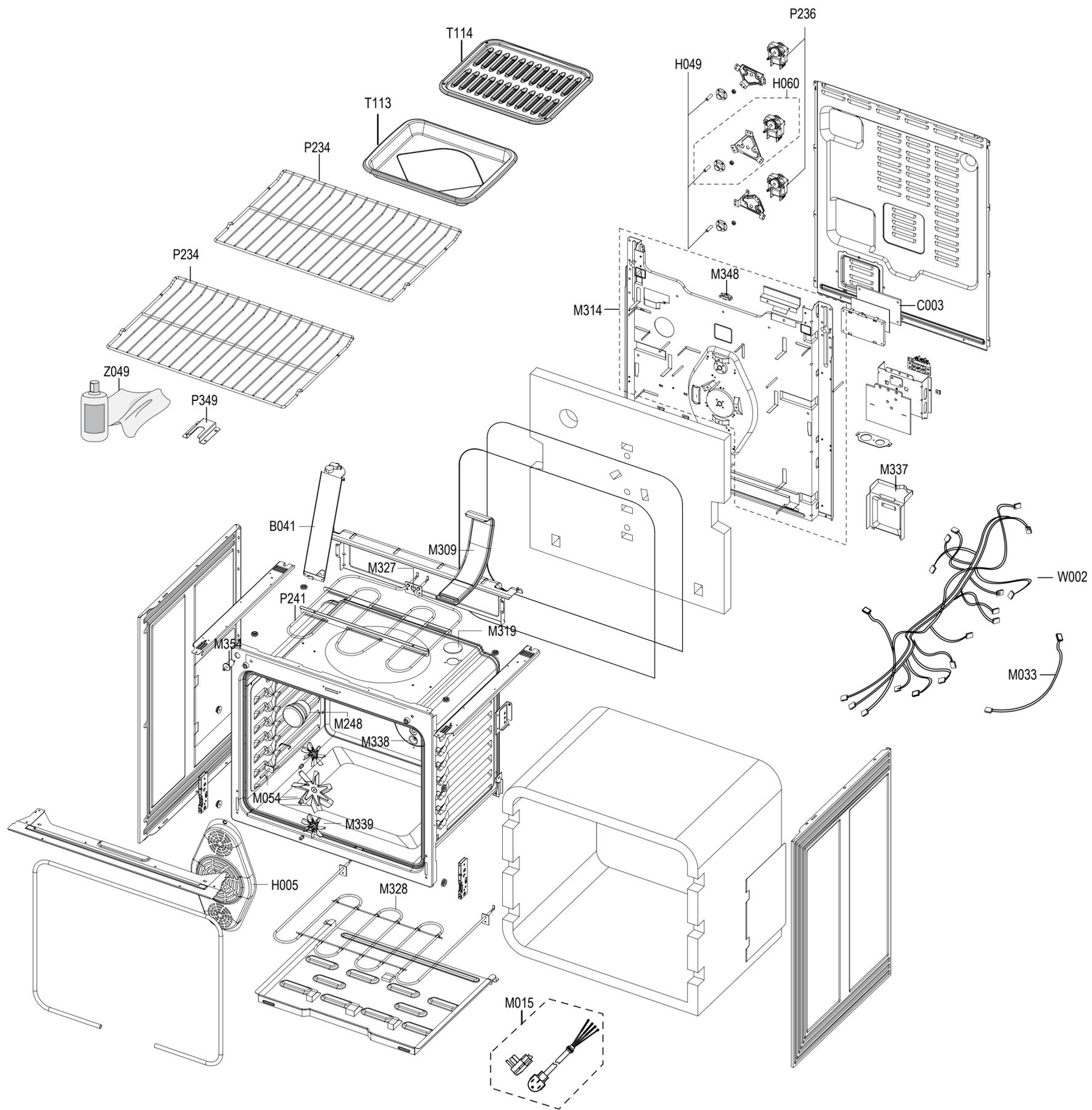
5-1 Exploded Views

(02 Version)



5-1 Exploded Views

(03 Version)



5. Exploded Views and Parts List

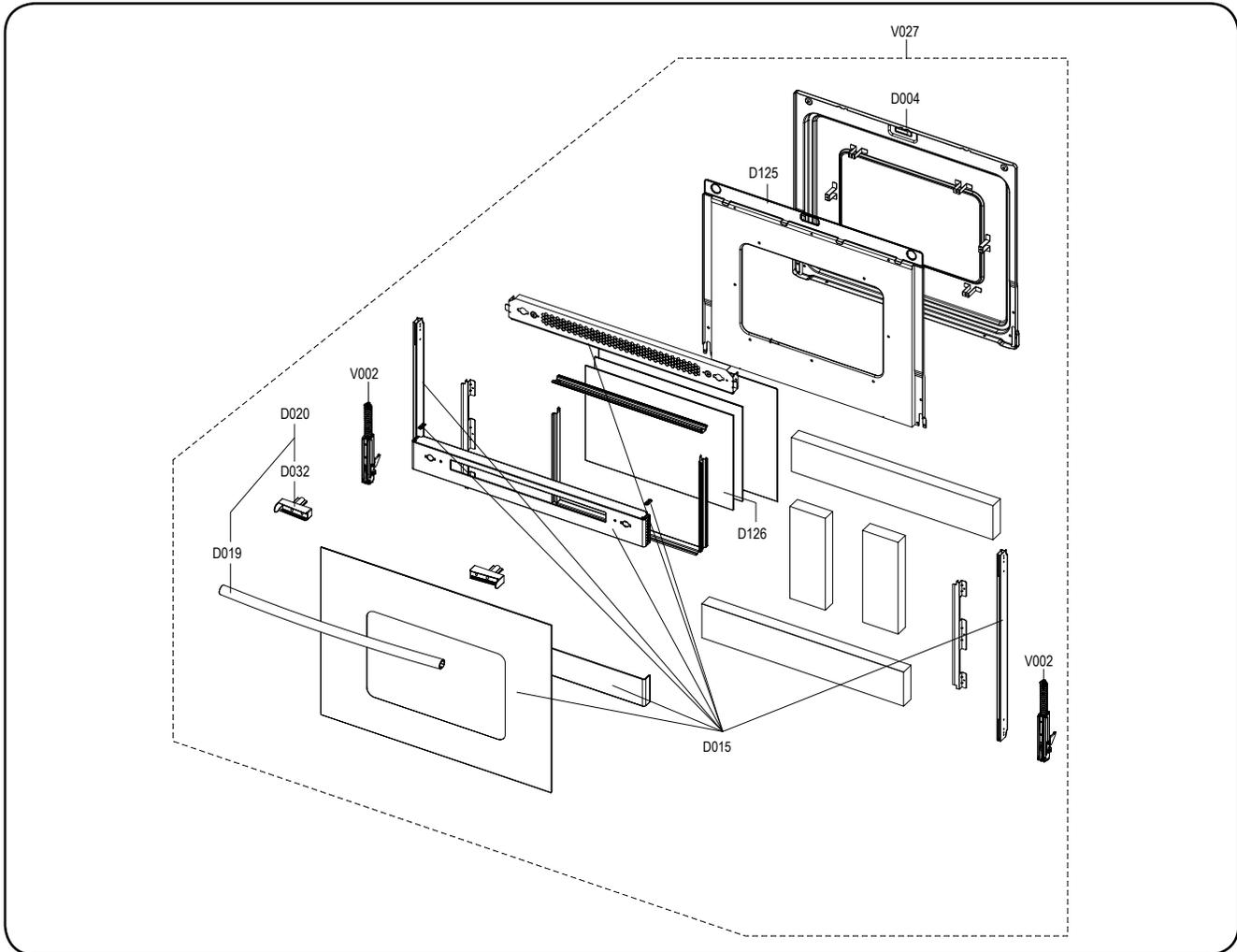
5-2 Main Parts List

(00 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
B041	DG66-00009A	LATCH-DOOR	011-67508-01,-,-,-,30-EOVEN	1	SA	-
C003	OAS-ASUB-01	ASSY PCB PARTS	FTQ352IWUB/XAA , A-BETTER	1	SA	-
C213	DG97-00121B	ASSY-HOLDER PCB SUB	FTQ352IWUW,BETTER	1	SA	-
H001	DG31-00005A	MOTOR CONVECTION	-,SMC-U386A,-,60Hz,-,12	1	SA	-
H005	DG97-00086A	ASSY-COVER CASING	FTQ386LWUX,5.7cu.ft.	1	SA	-
H049	DG60-00001A	SPACER-FAN CONVECTION	BT63BSST,STKM11A,L	1	SA	-
M015	DG96-00048A	ASSY POWER CORD	CSA,Canada,125/250V/40A,	1	SA	-
M054	DG32-00002A	SENSOR-THERMISTOR	-,FTQ386LWUX,-,-,-,-	1	SA	-
M243	DG70-00004A	STEEL WIRE	A-1 PROJECT,MSWR,1.0,2,800,-,	1	SNA	A-MAIN
M248	DG97-00083A	ASSY-LAMP BULB	422-899259-001,LH-01,120V	1	SA	-
M268	DG73-00003A	RUBBER-CUSHION	FTQ386LWUX,SILICON,-,50,-	1	SA	CAVITY-FRONT
M309	DG97-00058A	ASSY-VENT	FTQ386**, FTQ352**,Epoxy	1	SA	-
M314	DG97-00123A	ASSY-COVER BACK MAIN	FTQ386**, FTQ352**,	1	SA	-
M315	DG97-00076A	ASSY-COVER BACK MAIN SUB	FTQ386**, FTQ35	1	SA	-
M319	DG63-00082A	FILTER-VENT	FTQ386LWUX,-,-,-,-,SC21, M	1	SA	-
M327	DG47-00019A	HEATER-BROIL	-,FTQ386LWUX,Incoly840,3800	1	SA	-
M328	DG47-00020A	HEATER-BAKE	-,FTQ386LWUX,Incoly840,3000W	1	SA	-
M348	DG47-00028A	THERMOSTAT	FTQ386LWUX,-,125,15,160,0,-,-	1	SA	-
M354	DG34-00006A	SWITCH-DOOR PLUNGER	~::~::~::~::~,	1	SA	-
M370	DG63-00093A	GASKET-DOOR	FTQ386LWUX,STSS WOVEN WOOL,0	1	SA	-
P232	DG97-00127A	ASSY-CONVECTION MOTOR	A-1 PROJECT,30' EL	1	SA	-
P233	DG97-00128A	ASSY-CONVECTION MOTOR SUB	A-1 PROJECT,30	1	SA	-
P234	DG75-01001A	RACK-FLAT	FTQ386LWUX,MSWR, Ni-Cr,-,630,4	1	SA	-
P234	DG75-01001A	RACK-FLAT	FTQ386LWUX,MSWR, Ni-Cr,-,630,4	1	SA	-
T113	DG63-00106A	TRAY-BROIL COATING	FTQ386LWUX,SPP,-,400,	1	SA	-
W002	DG39-00023A	WIRE HARNESS-A	FTQ352IWX,-,-,-,-,-,-	1	SA	-
Z047	DG97-00118B	ASSY-ACCESSORY A	FTQ386LWX/XAC,CLEANING	1	SNA	-
Z048	DG97-00120B	ASSY-BRACKET ANTI TIP	FTQ386LWX/XCA,A-1	1	SNA	-
Z049	DG97-00085A	ASSY-CLEANING KIT	FTQ386LWUX,-	1	SA	-
Z050	DG97-00119A	ASSY-ACCESSORY B	FTQ386LWUX,TRAY GRATE	1	SA	-

5. Exploded Views and Parts List

5-3 Door Parts List



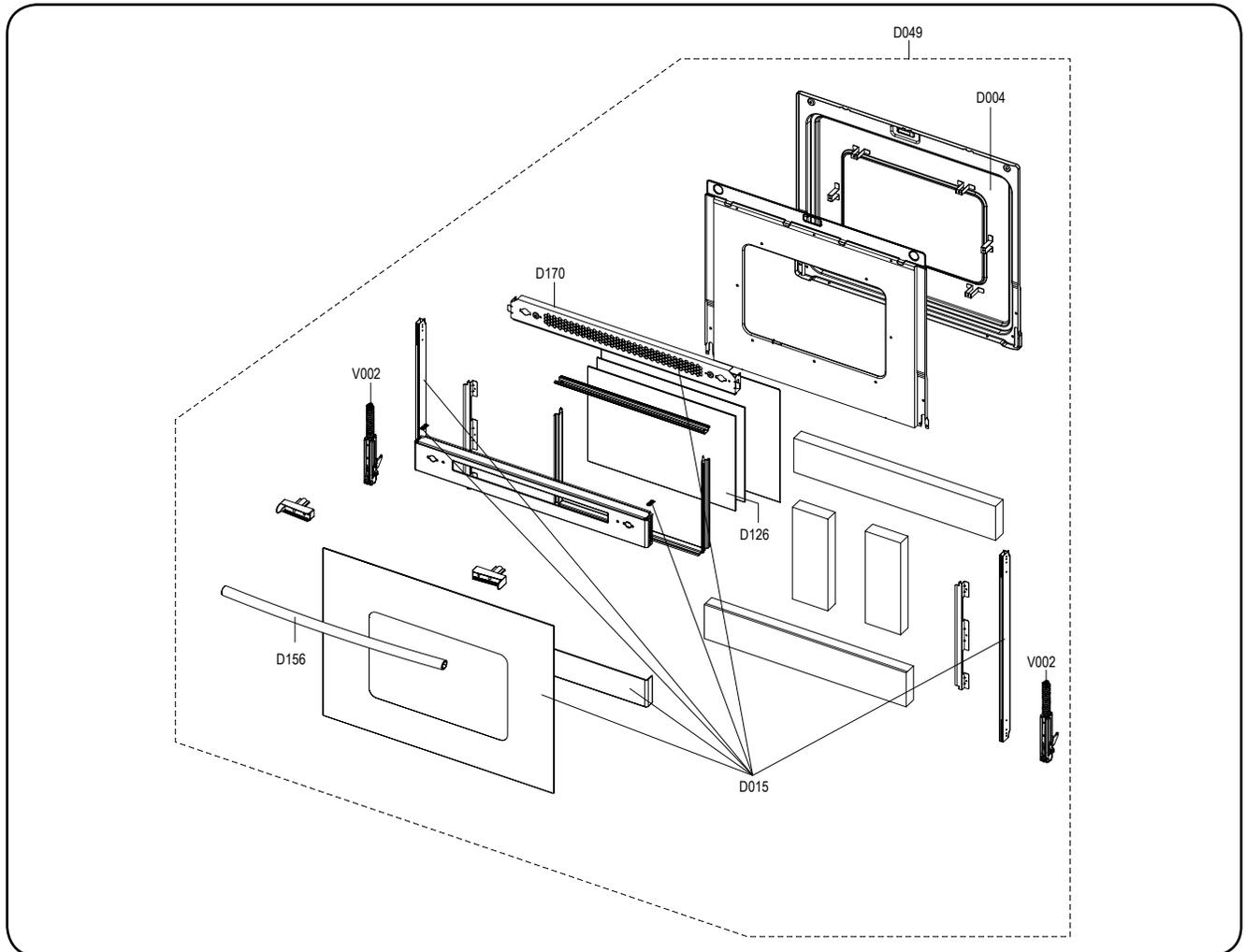
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(00 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
V027	DG97-00052C	ASSY-DOOR	FTQ352IWUW,BETTER,NEW GE WHT	1	SA	-
D004	DG94-00063A	ASSY DOOR-E	FTQ386LWUX,-,CERAMIC ENAMEL	1	SA	-
D015	DG94-00073A	ASSY DOOR-SUB	FTQ352IWUW,-,BETTER WHT	1	SA	-
D019	DG64-00147A	HANDLE-DOOR	A-1 Project,AI,2.5,-,-,AI	1	SNA	-
D020	DG97-00088C	ASSY-HANDLE DOOR	FTQ352IWUW,A-1 PROJECT,	1	SA	-
D032	DG61-00119C	GUIDE-HANDLE	FTQ352IWUW,PBT,55,21,50,NEW	1	SNA	-
D125	DG97-00113A	ASSY-BAFFLE DOOR	A-1 Project,-	1	SA	-
D126	DG64-00092A	GLASS-INNER	FTQ386LWUX/XAA,HEAT REFLECTI	1	SNA	-
V002	DG97-00080B	ASSY-HINGE	FTQ352*,30inch, Better	1	SA	-

5. Exploded Views and Parts List

5-3 Door Parts List



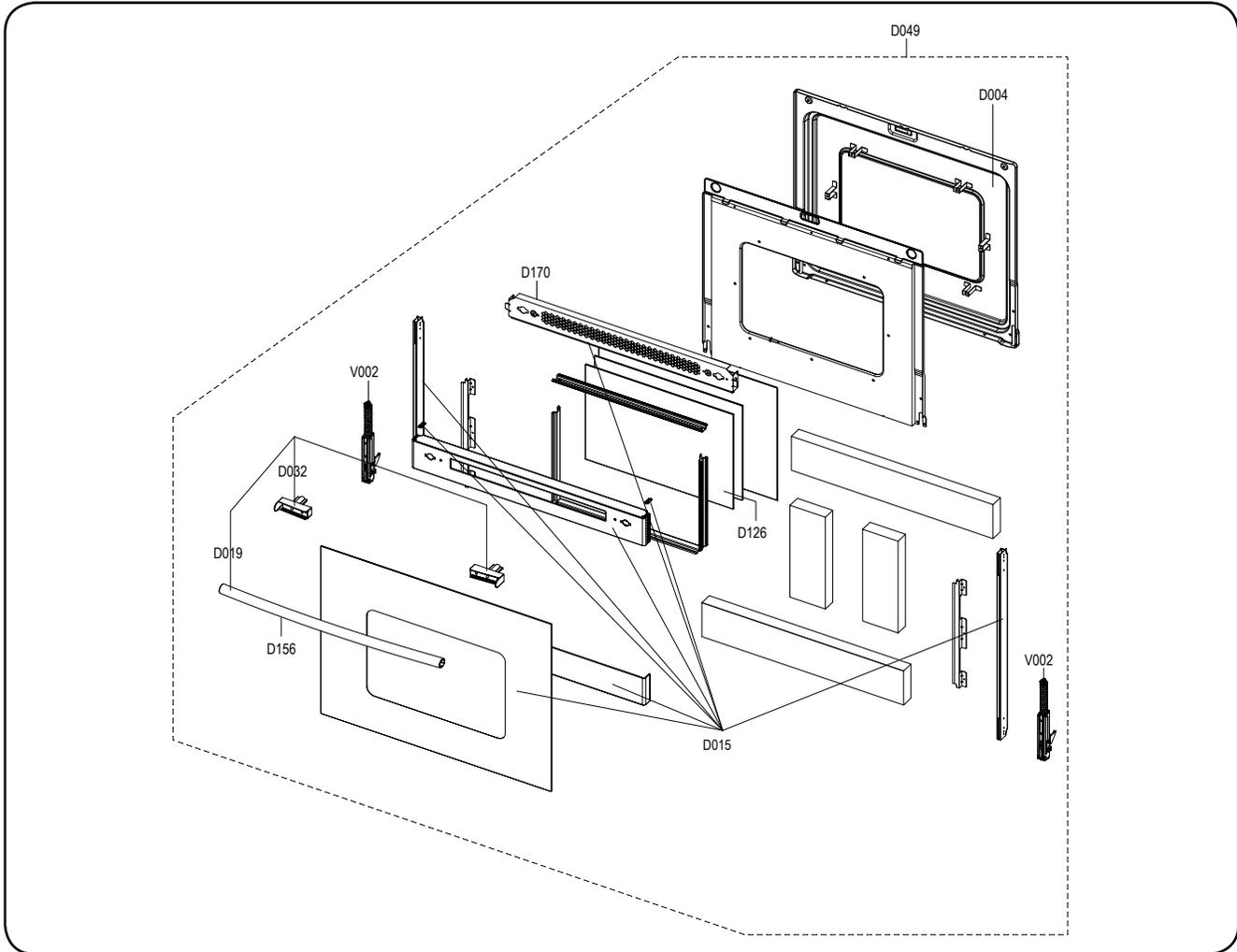
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(01 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
D004	DG94-00063A	ASSY DOOR E	FTQ386LWUX,-,-,CERAMIC ENAME	1	SNA	-
D015	DG94-00073B	ASSY DOOR SUB	FTQ352**, FCQ321**,SECC,WH	1	SNA	-
D049	DG97-00052F	ASSY DOOR	FCQ321HSUX/XAA,-,WHITE,A-2 BET	1	SA	-
D126	DG64-00092A	GLASS-INNER	FTQ386LWUX/XAA,HEAT REFLECTI	2	SA	-
D156	DG97-00088F	ASSY HANDLE-DOOR	FTQ352**, FCQ321** WHIT	1	SA	-
D170	DG97-00113B	ASSY BAFFLE DOOR	FCQ321HSUX,ALCOAT,-,A-2	1	SA	-
V002	DG97-00080B	ASSY HINGE	FTQ352*,-,-,30inch, Better	2	SA	-

5. Exploded Views and Parts List

5-3 Door Parts List



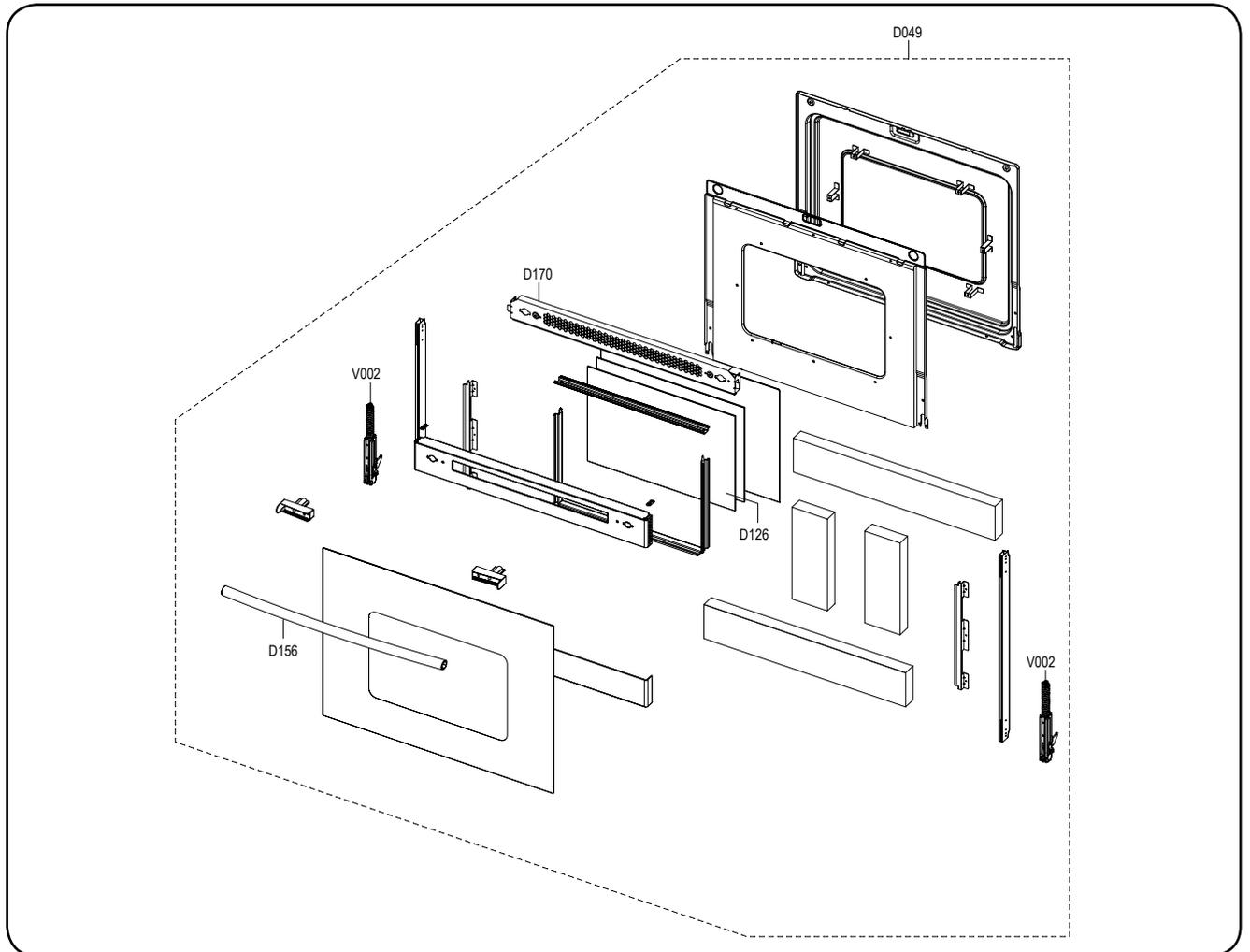
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(02 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
D004	DG94-00063A	ASSY DOOR E	FTQ386LWUX,-,-,CERAMIC ENAME	1	SNA	-
D015	DG94-00073B	ASSY DOOR SUB	FTQ352**, FCQ321**,SECC,WH	1	SNA	-
D019	DG64-00147A	HANDLE-DOOR	A-1 Project,AI,2.5,-,-,AI	1	SNA	-
D032	DG61-00119F	GUIDE-HANDLE	FTQ386**, FTQ352**, FCQ321*	2	SNA	-
D049	DG97-00052F	ASSY DOOR	FCQ321HSUW/XAA,-,WHITE,A-2 BET	1	SA	-
D126	DG64-00092A	GLASS-INNER	FTQ386LWUX/XAA,HEAT REFLECTI	2	SA	-
D156	DG97-00088F	ASSY HANDLE-DOOR	FTQ352**, FCQ321** WHIT	1	SA	-
D170	DG97-00113B	ASSY BAFFLE DOOR	FCQ321HSUX,ALCOAT,-,A-2	1	SA	-
V002	DG97-00080B	ASSY HINGE	FTQ352*,-,-,30inch, Better	2	SA	-

5. Exploded Views and Parts List

5-3 Door Parts List



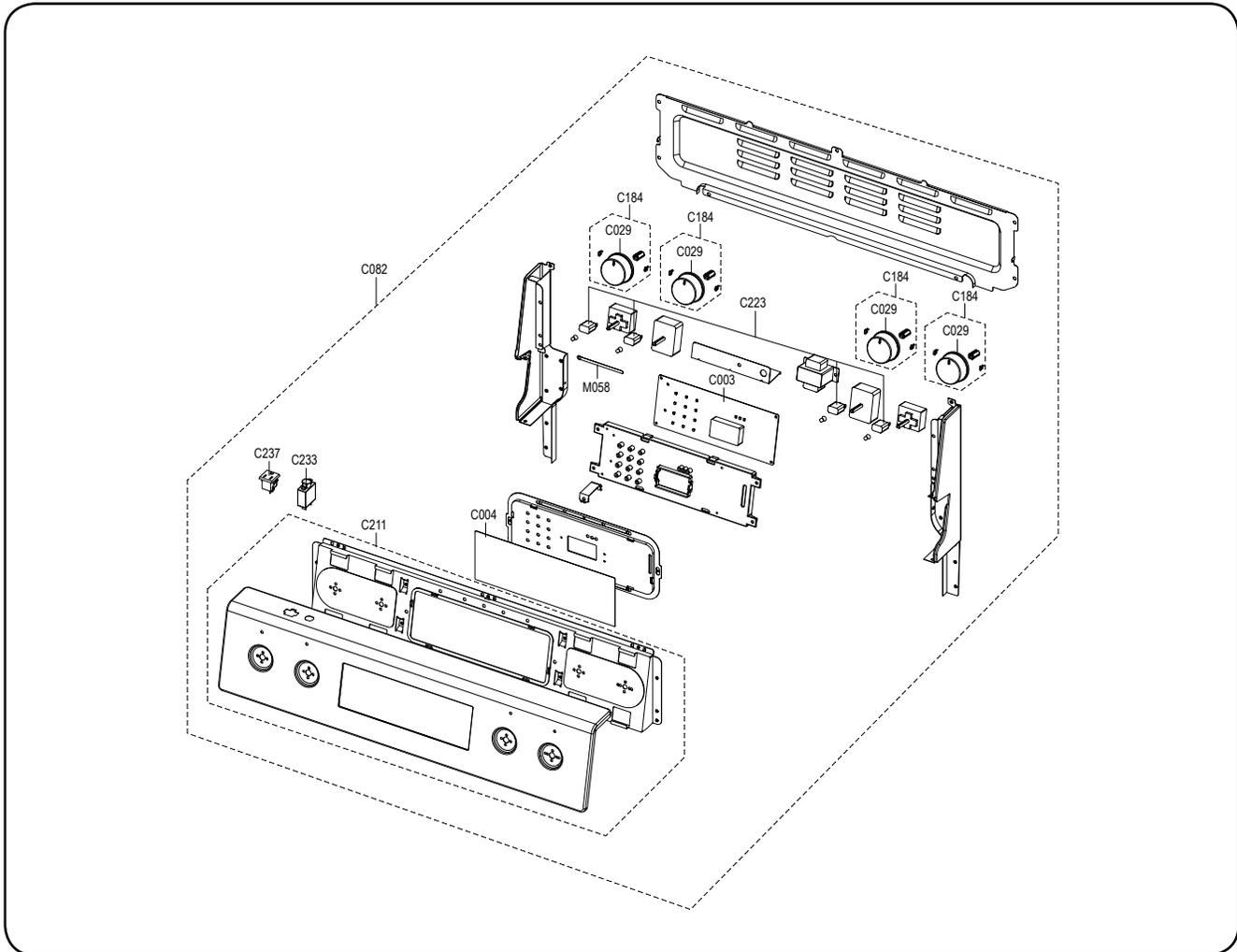
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(03 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
D049	DG97-00052F	ASSY DOOR	FCQ321HSUW/XAA,-,WHITE,A-2 BET	1	SA	-
D126	DG64-00092A	GLASS-INNER	FTQ386LWUX/XAA,HEAT REFLECTI	2	SA	-
D156	DG97-00088F	ASSY HANDLE-DOOR	FTQ352**, FCQ321** WHIT	1	SA	-
D170	DG97-00113B	ASSY BAFFLE DOOR	FCQ321HSUX,ALCOAT,-,A-2	1	SA	-
V002	DG97-00080B	ASSY HINGE	FTQ352*,-,-,30inch, Better	2	SA	-

5. Exploded Views and Parts List

5-4 Control Parts List



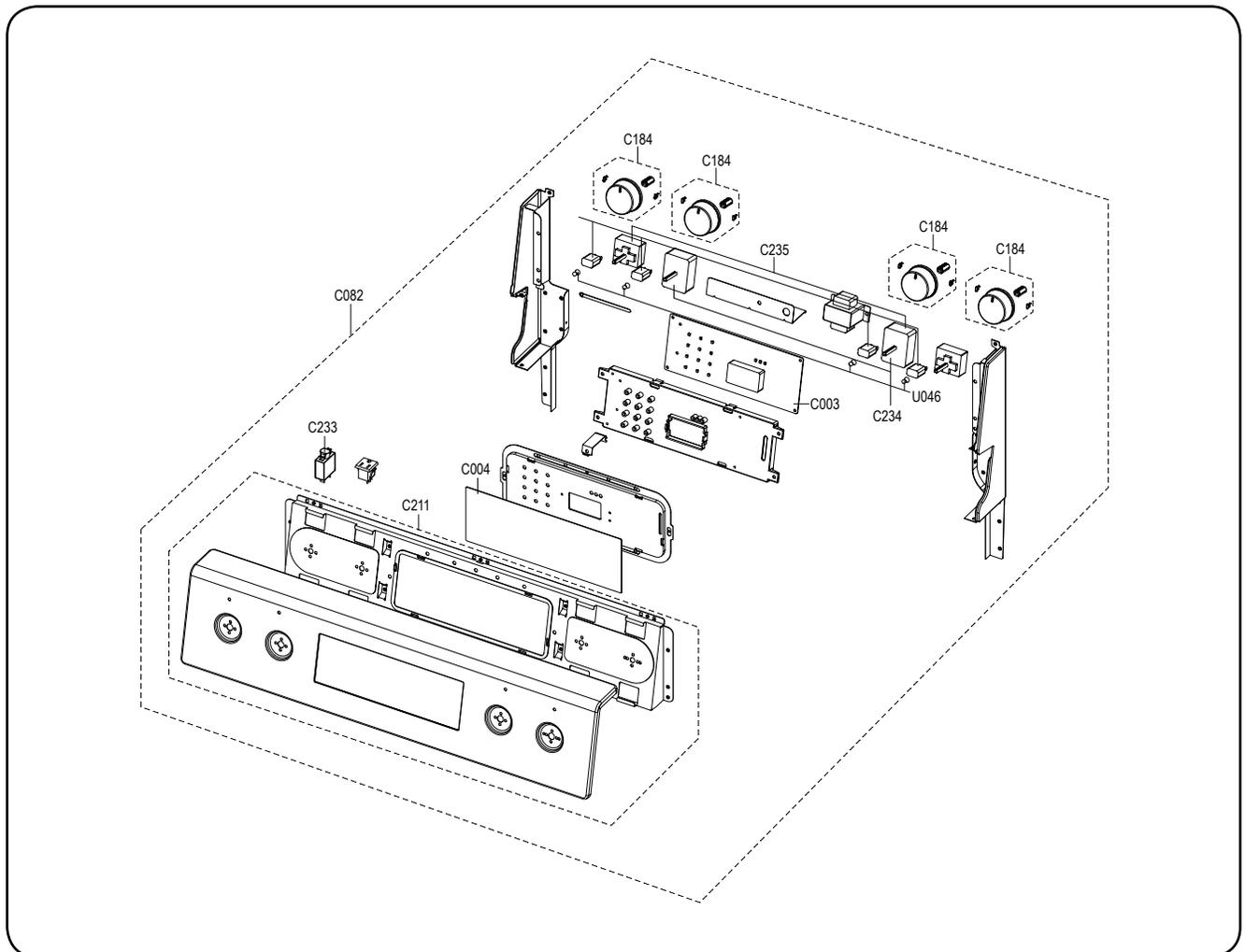
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(00 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
C003	OAS-AGMAIN-00	ASSY PCB PARTS	FTQ352IWUB/XAA,A-BETTER,	1	SA	-
C004	DG34-00007B	SWITCH-MEMBRANE	-, -,PC 0.5T,120V/60Hz,-,	1	SA	-
C029	DG64-00113C	KNOB-DIAL	FTQ352IWUW,PBT,52.5,59,26,-,WH	1	SA	-
C082	DG97-00112F	ASSY-CONTROL BOX	FTQ352IWW/XCA,BETTER,WH	1	SA	-
C184	DG97-00090C	ASSY-KNOB DIAL	FTQ352IWUW.WHITE,5.7cu.ft	1	SA	-
C211	DG97-00114F	ASSY-CONTROL SUB	FTQ352IWW/XCA,BETTER,WH	1	SA	-
C223	DG64-00131A	INDICATOR-LIGHT	FTQ386LWUX,-,-,-,-,SP-	1	SA	-
C233	3603-001266	CIRCUIT BREAKER	120,15,-,-	1	SNA	-
C237	3721-001097	PLUG-AC POWER	3P,15A,125V,STRAIGHT,27x27	1	SNA	-
M058	6502-001117	CABLE CLAMP	DALF-94-2,-,-,EGI STEEL, SIL	1	SNA	-

5. Exploded Views and Parts List

5-4 Control Parts List



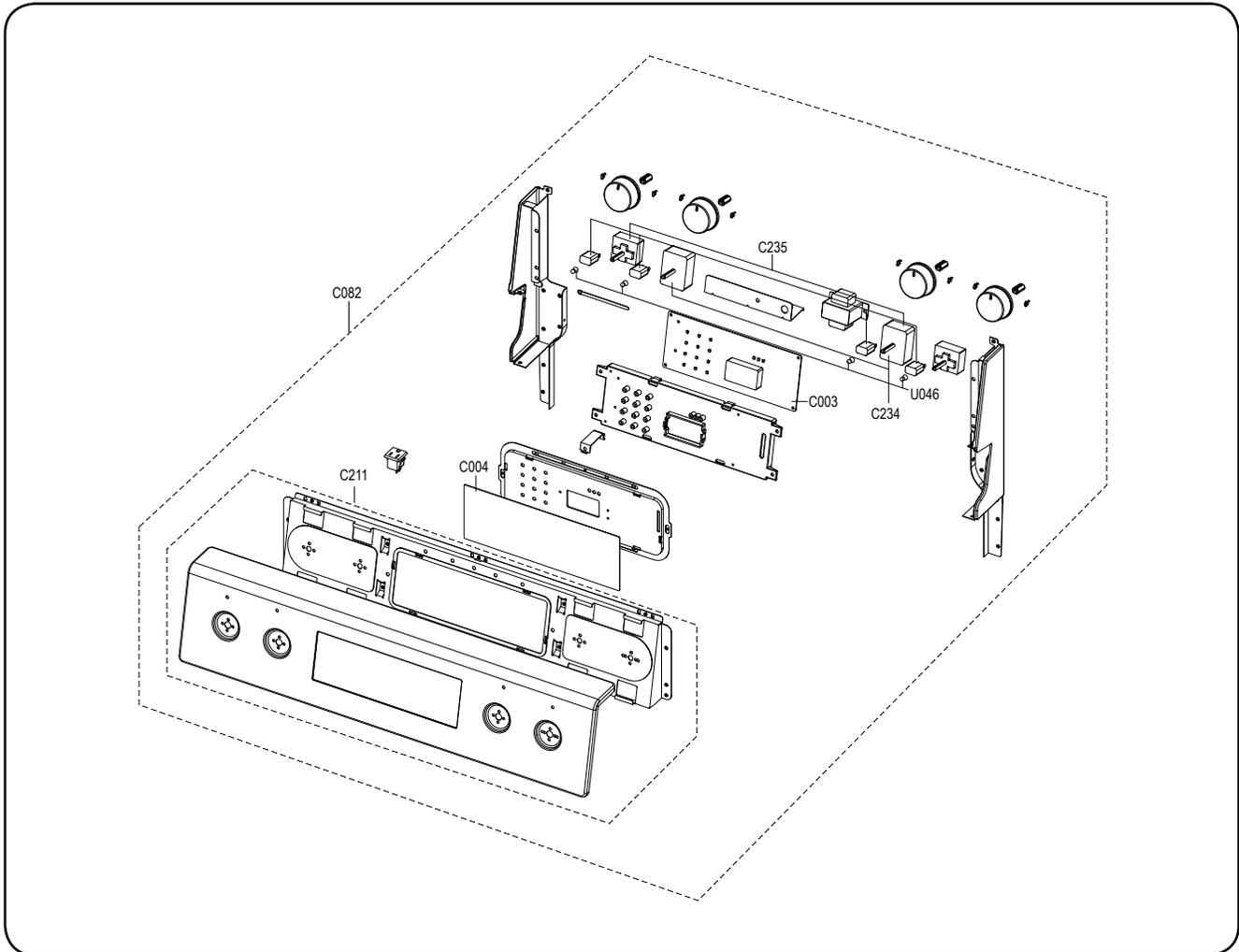
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(01 Version)

No.	Code No.	Description	Specification	Q'ty	SA/ SNA	Remark
C082	DG97-00112Q	ASSY CONTROL BOX	FTQ352IWW/XAC,-,WHITE,S	1	SA	-
C003	OAS-AG2-01	ASSY PCB PARTS	FTQ352IWUB/XAC,A-BETTER_2	1	SA	-
C004	DG34-00007B	SWITCH-MEMBRANE	-,PC 0.5T,120V/60Hz,-,	1	SA	-
C184	DG97-00090F	ASSY KNOB DIAL	FCQ321HTUW/XAC,PBT,-,WHIT	4	SA	-
C211	DG97-00114Q	ASSY CONTROL SUB	FTQ352IWW/XAC,-,WHITE,S	1	SA	-
C223	DG64-00131A	INDICATOR-LIGHT	FTQ386LWUX,-,-,-,-,-,SP-	4	SA	-
C234	DG44-01001A	REGULATOR-ENERGY	NL811226,FTQ386LWUX,-,-	2	SA	-
C235	DG44-01002A	REGULATOR-ENERGY	-,MDSA-W21-SKM,-,-,-,-,	2	SA	-
U046	DG67-00022A	LENS-LIGHT	FTQ386LWUX,-,-,-,-,-,-	4	SA	-

5. Exploded Views and Parts List

5-4 Control Parts List



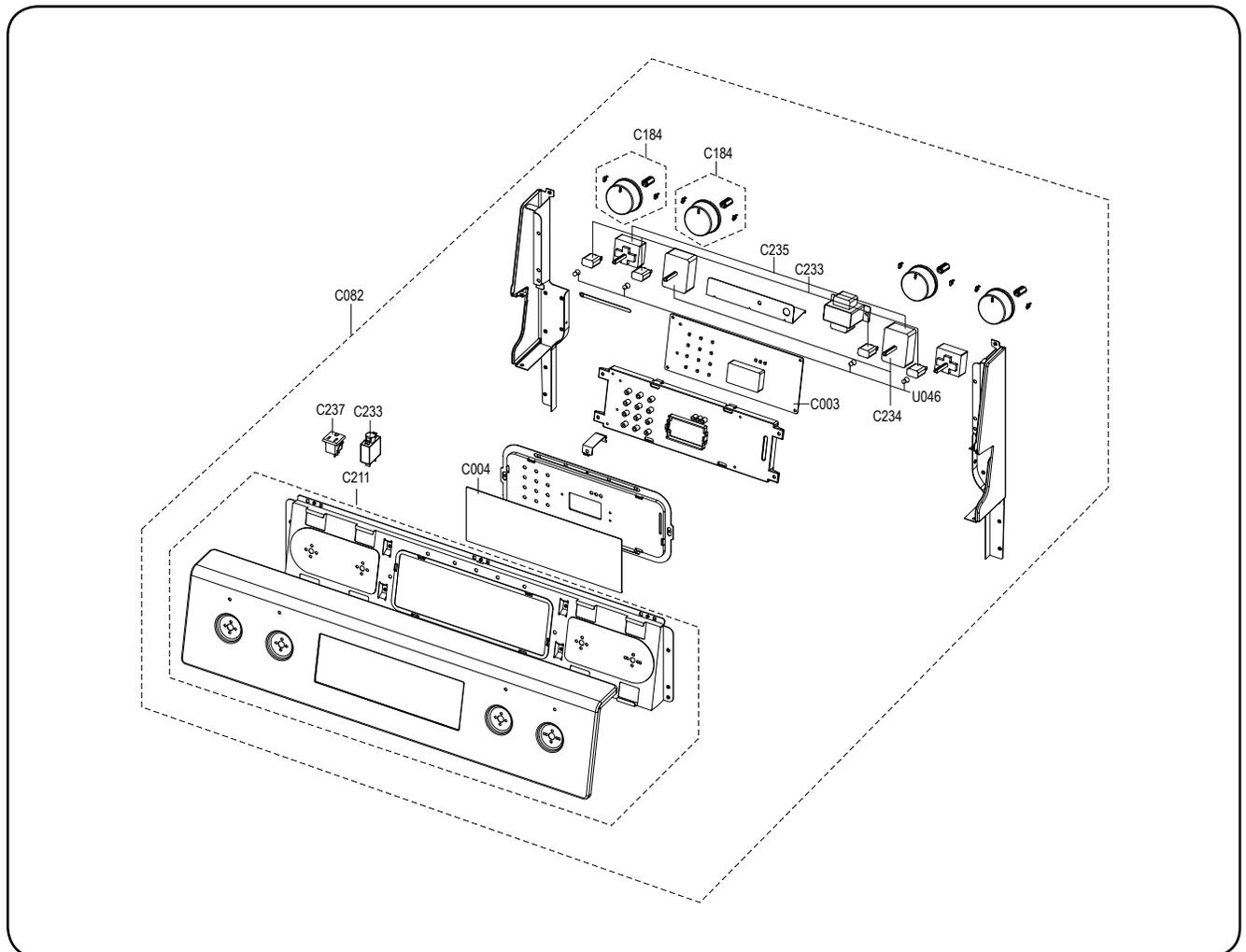
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(02 Version)

No.	Code No.	Description	Specification	Q'ty	SA/ SNA	Remark
C082	DG97-00112Q	ASSY CONTROL BOX	FTQ352IWW/XAC,-,WHITE,S	1	SA	-
C003	OAS-AG2-01	ASSY PCB PARTS	FTQ352IWUB/XAC,A-BETTER_2	1	SA	-
C004	DG34-00007B	SWITCH-MEMBRANE	-,PC 0.5T,120V/60Hz,-,	1	SA	-
C211	DG97-00114Q	ASSY CONTROL SUB	FTQ352IWW/XAC,-,WHITE,S	1	SA	-
C234	DG44-01001A	REGULATOR-ENERGY	NL811226,FTQ386LWUX,-,-	2	SA	-
C235	DG44-01002A	REGULATOR-ENERGY	-,MDSA-W21-SKM,-,-,-,-,	2	SA	-
C235	DG64-00131A	INDICATOR-LIGHT	FTQ386LWUX,-,-,-,-,-,SP-	4	SA	-
U046	DG67-00022A	LENS-LIGHT	FTQ386LWUX,-,-,-,-,-,-	4	SA	-

5. Exploded Views and Parts List

5-4 Control Parts List



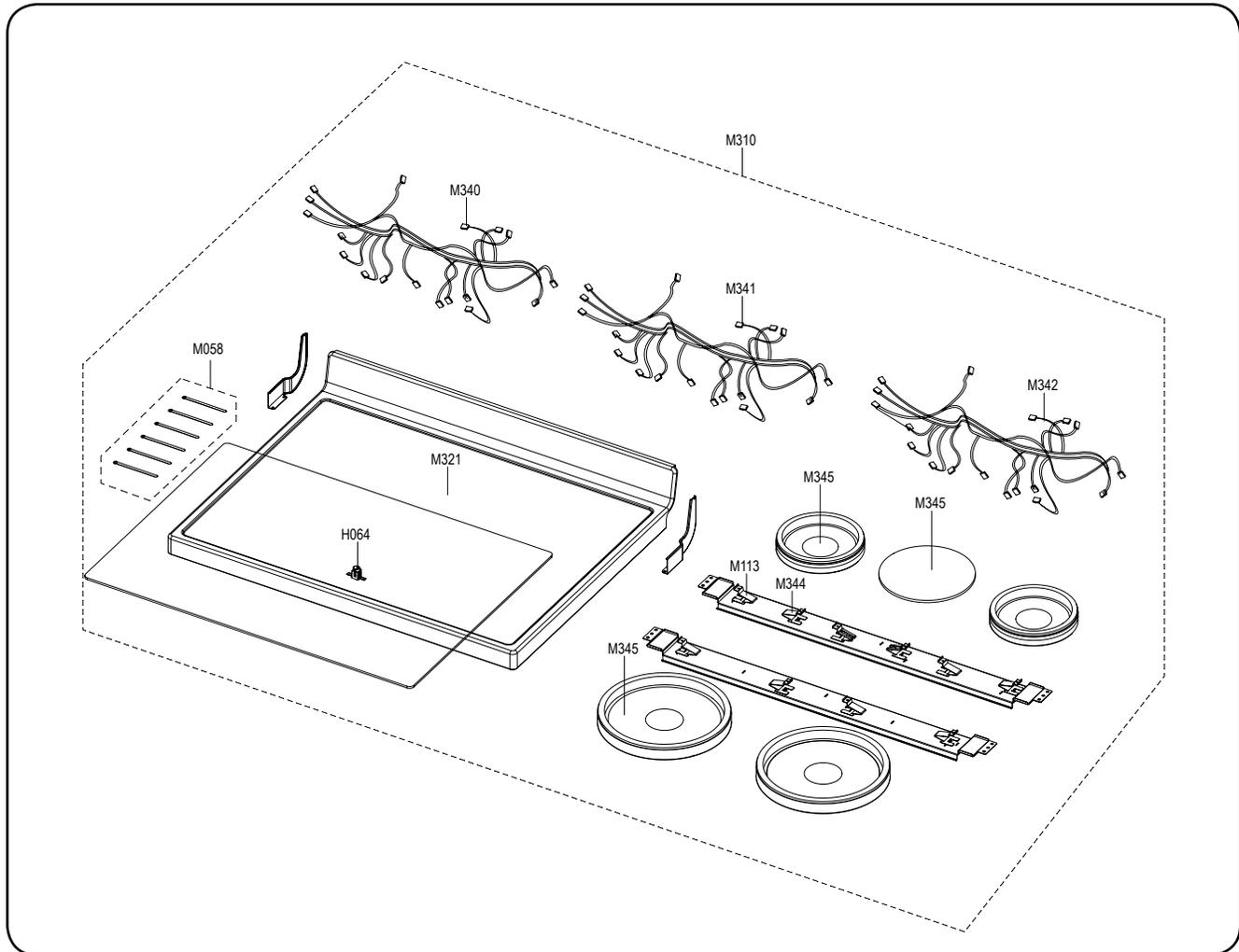
(S.N.A : SERVICE NOT AVAILABLE)

(03 Version)

No.	Code No.	Description	Specification	Q'ty	SA/ SNA	Remark
C082	DG97-00112Q	ASSY CONTROL BOX	FTQ352IWW/XAC,-,WHITE,S	1	SA	-
C003	OAS-AGMAIN-00	ASSY PCB PARTS	FTQ352IWUB/XAA,A-BETTER,	1	SA	-
C004	DG34-00007B	SWITCH-MEMBRANE	-,PC 0.5T,120V/60Hz,-,	1	SA	-
C184	DG97-00090F	ASSY KNOB DIAL	FCQ321HTUW/XAC,PBT,-,WHIT	4	SA	-
C211	DG97-00114Q	ASSY CONTROL SUB	FTQ352IWW/XAC,-,WHITE,S	1	SA	-
C223	DG64-00131A	INDICATOR-LIGHT	FTQ386LWUX,-,-,-,-,-,SP-	4	SA	-
C233	3603-001266	CIRCUIT BREAKER	120,15,-,-	1	SA	-
C234	DG44-01001A	REGULATOR-ENERGY	NL811226,FTQ386LWUX,-,-	2	SA	-
C235	DG44-01002A	REGULATOR-ENERGY	-,MDSA-W21-SKM,-,-,-,-,-,	2	SA	-
C237	3721-001097	PLUG-AC POWER	3P,15A,125V,STRAIGHT,27x27	1	SA	-
U046	DG67-00022A	LENS-LIGHT	FTQ386LWUX,-,-,-,-,-,-	4	SA	-

5. Exploded Views and Parts List

5-5 Cook top Parts List



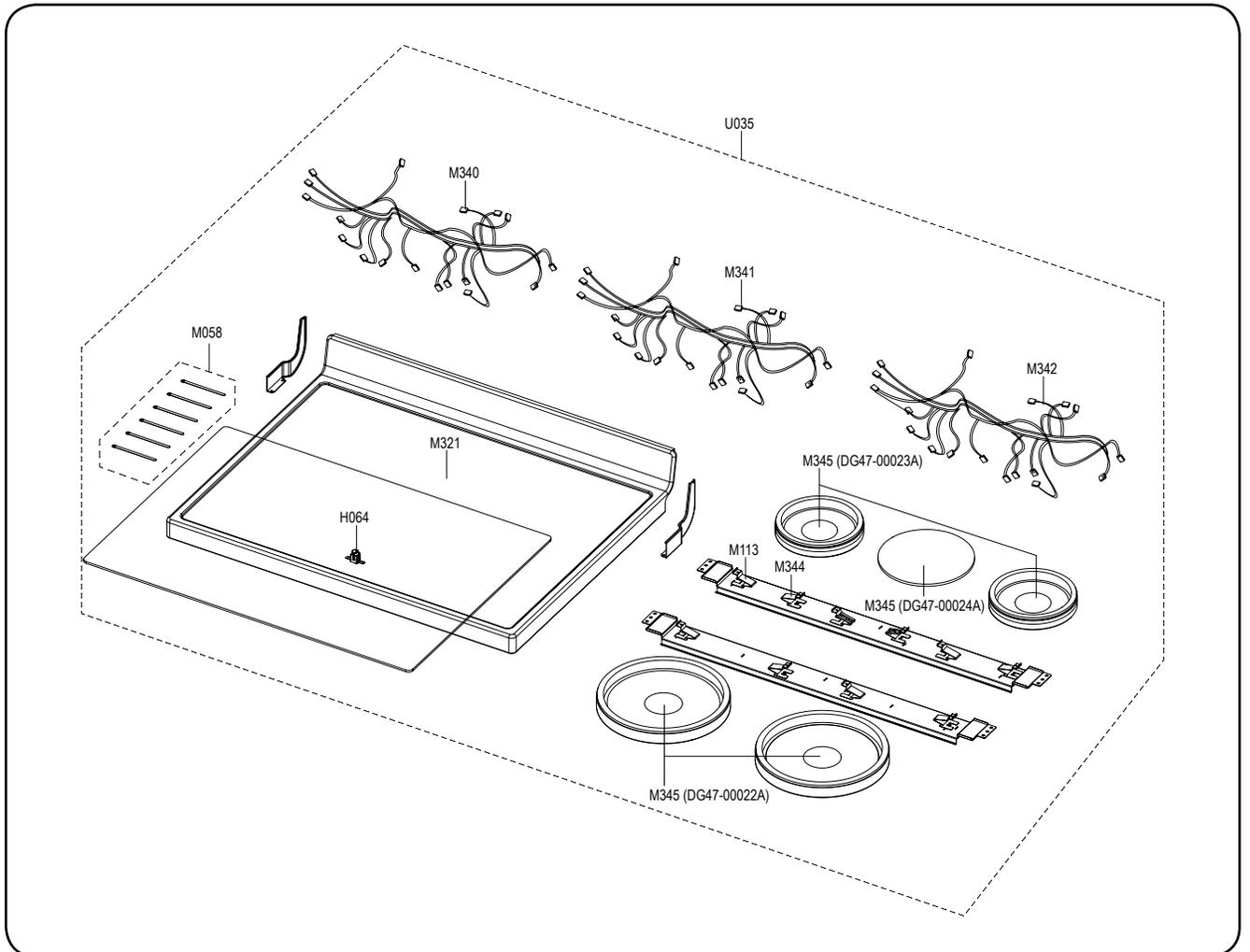
(S.N.A : SERVICE NOT AVAILABLE)

(00 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
M310	DG97-00073C	ASSY-COOKTOP	FTQ352IWUW,BETTER WHITE	1	SA	-
H064	DG64-00132A	INDICATOR-HOT SURFACE	FTQ386LWUX,-,-,-	1	SA	-
M058	6502-001117	CABLE CLAMP	DALF-94-2,-,-,EGI STEEL, SIL	1	SNA	-
M113	DG61-00144A	SUPPORT-HEATER	FSE1310AST,SK-11,0.5,75,3	1	SA	-
M321	DG97-00074C	ASSY-FRAME COOKTOP	FTQ352IWUW,BETTER, WH	1	SA	-
M340	DG39-00017A	WIRE HARNESS-COOKTOP A	FTQ386, FTQ352,-,	1	SA	-
M341	DG39-00020A	WIRE HARNESS-GROUND A	FTQ386,FTQ352,-,-,	1	SA	-
M342	DG39-00024A	WIRE HARNESS-COOKTOP B	FTQ352,-,-,-,-,-,	1	SA	-
M344	DG61-00144B	SUPPORT-WARMING HEATER	FSE1310AST,SK-11,	1	SA	W-H-RADIANT
M345	DG47-00022A	HEATER-RADIANT	250T8L8737RC25140,FTQ386L	1	SA	-
M345	DG47-00023A	HEATER-RADIANT	165N8L8735RC25136,FTQ386L	1	SA	-
M345	DG47-00024A	HEATER-RADIANT	180N98233D000,FTQ386LWUX,	1	SA	-

5. Exploded Views and Parts List

5-5 Cook top Parts List



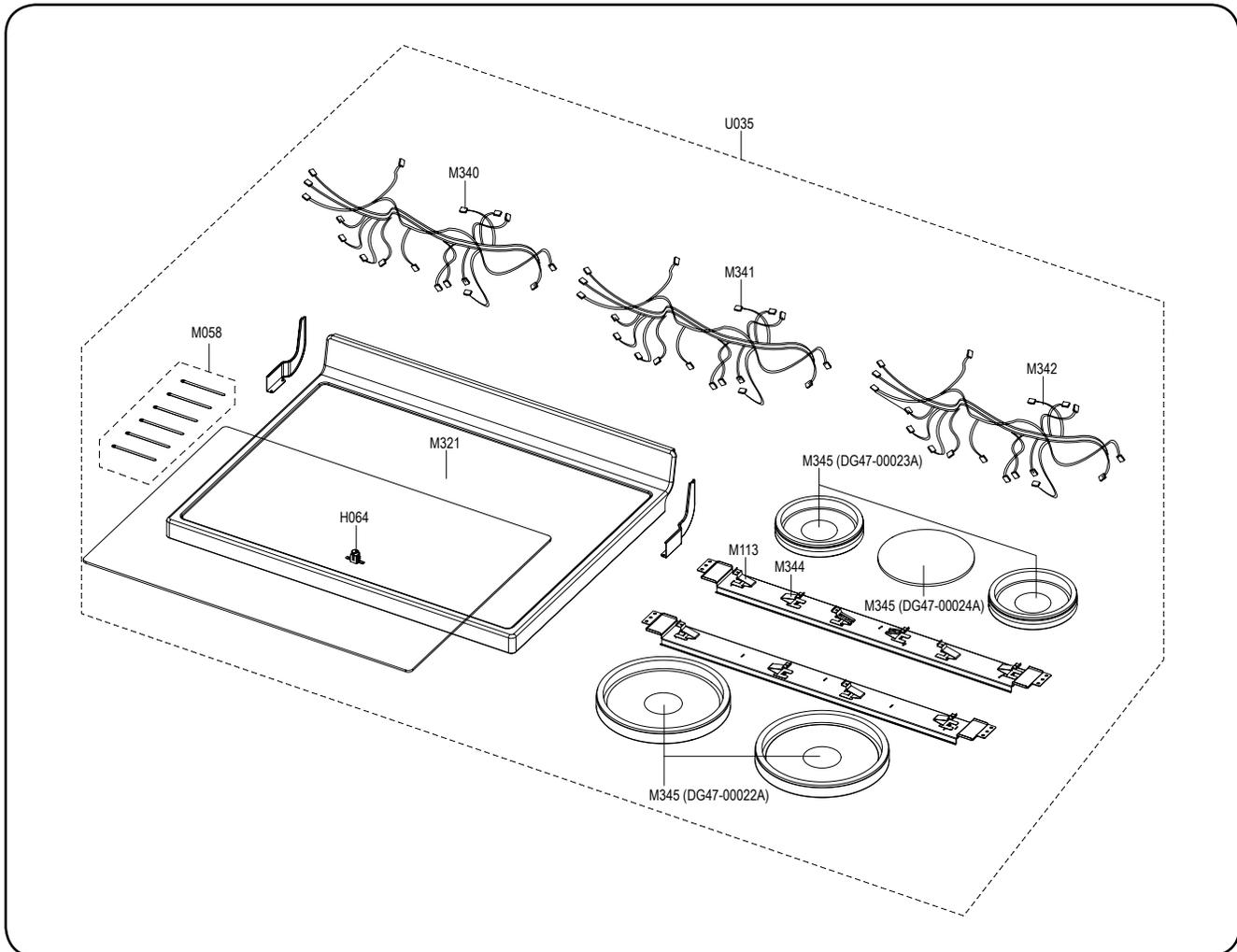
(S.N.A : SERVICE NOT AVAILABLE)

(01 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
H064	DG64-00132A	INDICATOR-HOT SURFACE	FTQ386LWUX,-,-,-,-	1	SA	-
M058	6502-001117	CABLE CLAMP	DALF-94-2,-,-,EGI STEEL, SIL	6	SA	-
M113	DG61-00286A	SUPPORT-HEATER	FCQ321HSUX,SK-5,0.5,-,-,-	8	SA	-
M321	DG97-00074C	ASSY-FRAME COOKTOP	FTQ352IWUW,-,BETTER,W	1	SA	-
M340	DG39-00034B	WIRE HARNESS-COOKTOP A	FTQ386****-A,FTQ3	1	SA	-
M341	DG39-00020A	WIRE HARNESS-GROUND A	FTQ386,FTQ352,-,-,	1	SA	-
M342	DG39-00036A	WIRE HARNESS-COOKTOP B	FTQ352****-A,-,-,	1	SA	-
M344	DG61-00144B	SUPPORT-WARMING HEATER	FSE1310AST,SK-11,	2	SA	-
M345	DG47-00022A	HEATER-RADIANT	250T8L8737RC25140,FTQ386L	2	SA	W-H-RADIANT
M345	DG47-00023A	HEATER-RADIANT	165N8L8735RC25136,FTQ386L	2	SA	-
M345	DG47-00024B	HEATER-RADIANT	180N9-8896D,FCQ321****,FT	1	SA	-

5. Exploded Views and Parts List

5-5 Cook top Parts List



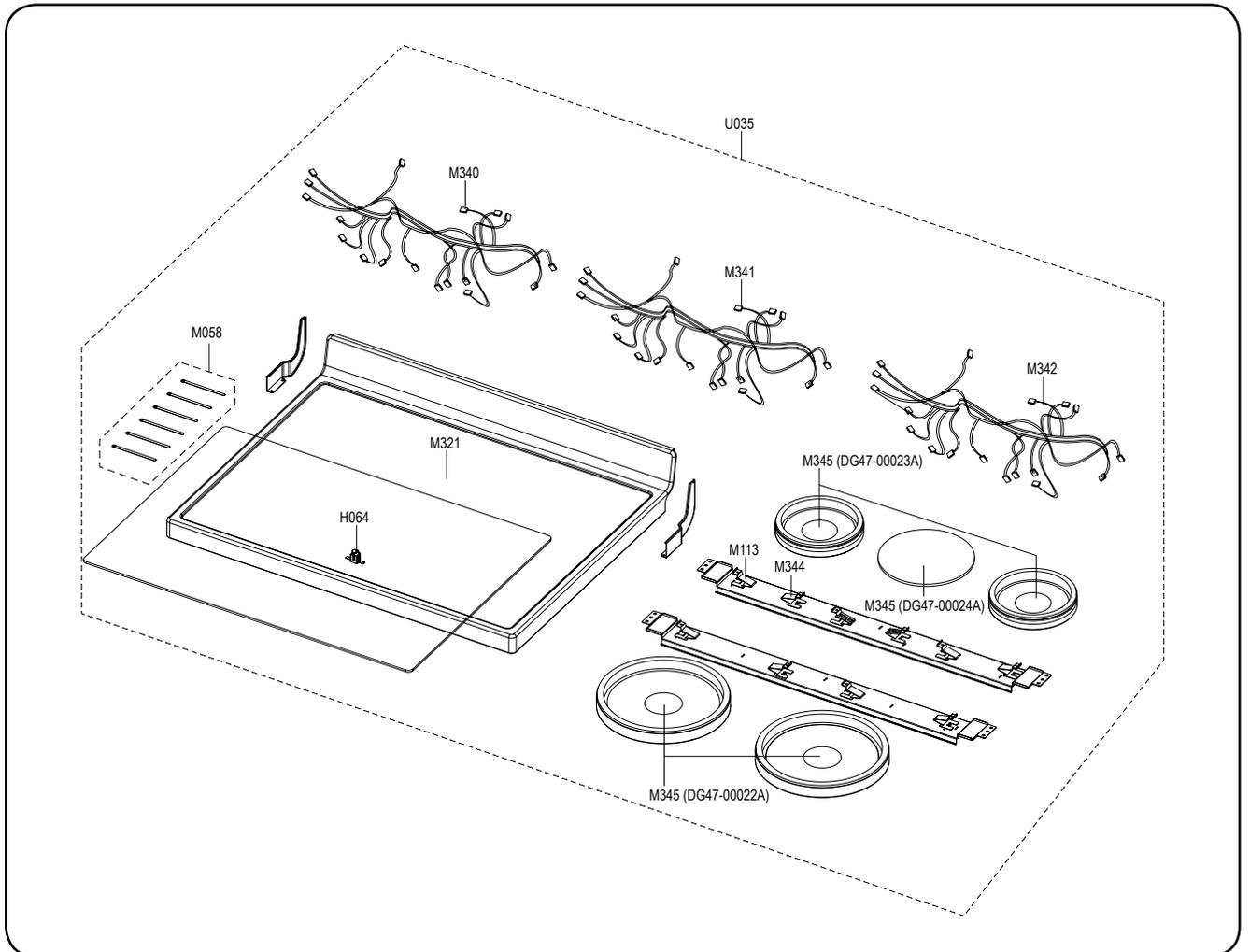
(S.N.A : SERVICE NOT AVAILABLE)

(02 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
H064	DG64-00132A	INDICATOR-HOT SURFACE	FTQ386LWUX,-,-,-,-	1	SA	-
M058	6502-001117	CABLE CLAMP	DALF-94-2,-,-,EGI STEEL, SIL	6	SA	-
M113	DG61-00286A	SUPPORT-HEATER	FCQ321HSUX,SK-5,0.5,-,-,-,-	8	SA	-
M321	DG97-00074C	ASSY-FRAME COOKTOP	FTQ352IWUW,-,BETTER,W	1	SA	-
M340	DG39-00017A	WIRE HARNESS-COOKTOP A	FTQ386, FTQ352,-,-	1	SA	-
M341	DG39-00020A	WIRE HARNESS-GROUND A	FTQ386,FTQ352,-,-,-	1	SA	-
M342	DG39-00024A	WIRE HARNESS-COOKTOP B	FTQ352,-,-,-,-,-,-	1	SA	-
M344	DG61-00144B	SUPPORT-WARMING HEATER	FSE1310AST,SK-11,	2	SA	-
M345	DG47-00022A	HEATER-RADIANT	250T8L8737RC25140,FTQ386L	2	SA	-
M345	DG47-00023A	HEATER-RADIANT	165N8L8735RC25136,FTQ386L	2	SA	-
M345	DG47-00024A	HEATER-RADIANT	180N98233D000,FTQ386LWUX,	1	SA	-
U035	DG97-00073N	ASSY COOKTOP	FTQ352IWW/XAC,VE, CANADA, W	1	SA	-

5. Exploded Views and Parts List

5-5 Cook top Parts List



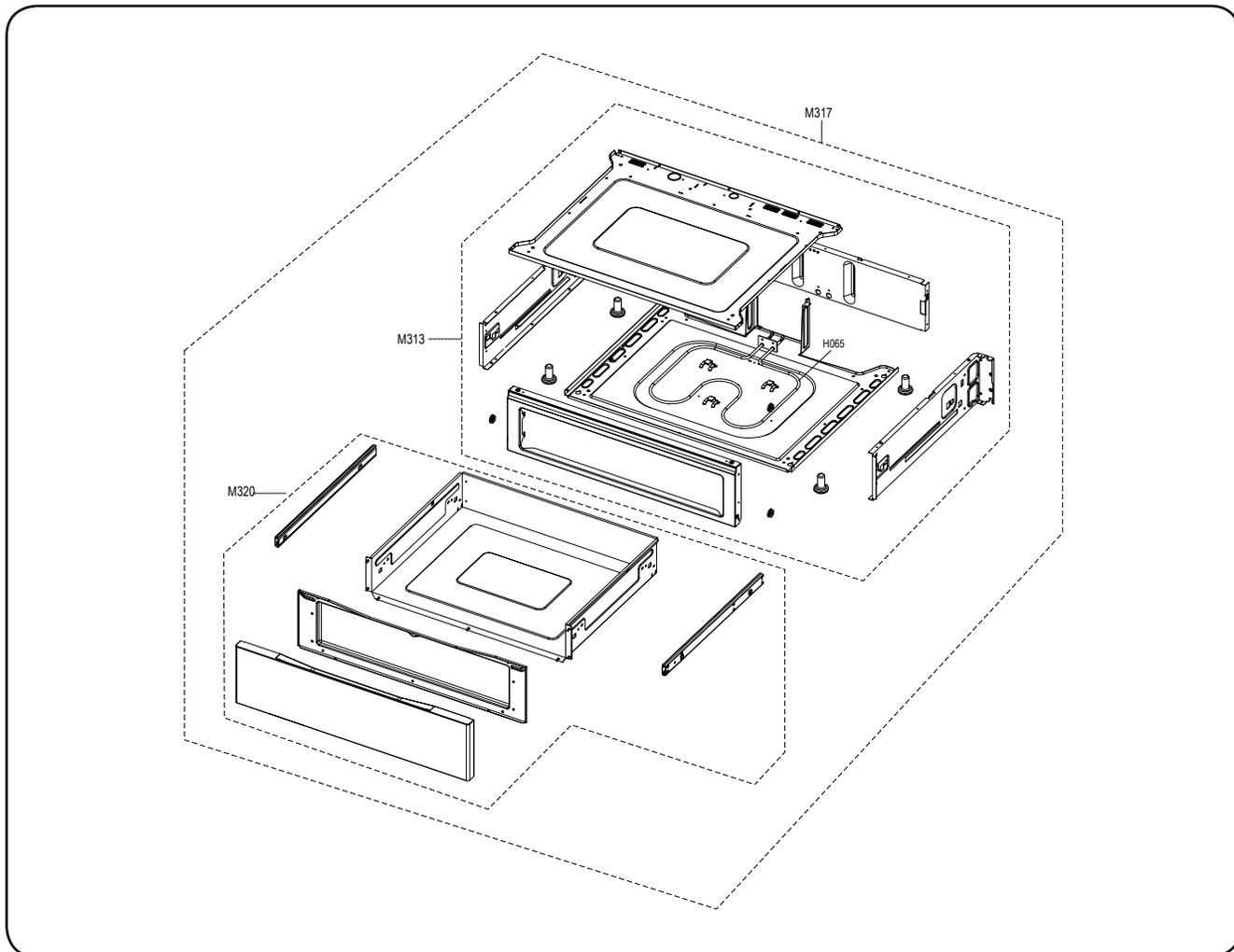
(S.N.A : SERVICE NOT AVAILABLE)

(03 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
H064	DG64-00132A	INDICATOR-HOT SURFACE	FTQ386LWUX,-,-,-,-	1	SA	-
M058	6502-001117	CABLE CLAMP	DALF-94-2,-,-,EGI STEEL, SIL	6	SA	-
M113	DG61-00286A	SUPPORT-HEATER	FCQ321HSUX,SK-5,0.5,-,-,-	8	SA	-
M321	DG97-00074C	ASSY-FRAME COOKTOP	FTQ352IWUW,-,-,BETTER,W	1	SA	-
M340	DG39-00017A	WIRE HARNESS-COOKTOP A	FTQ386, FTQ352,-,-	1	SA	-
M341	DG39-00020A	WIRE HARNESS-GROUND A	FTQ386,FTQ352,-,-,-	1	SA	-
M342	DG39-00024A	WIRE HARNESS-COOKTOP B	FTQ352,-,-,-,-,-,-	1	SA	-
M344	DG61-00144B	SUPPORT-WARMING HEATER	FSE1310AST,SK-11,	2	SA	-
M345	DG47-00022A	HEATER-RADIANT	250T8L8737RC25140,FTQ386L	2	SA	-
M345	DG47-00023A	HEATER-RADIANT	165N8L8735RC25136,FTQ386L	2	SA	-
M345	DG47-00024A	HEATER-RADIANT	180N98233D000,FTQ386LWUX,	1	SA	-
U035	DG97-00073N	ASSY COOKTOP	FTQ352IWW/XAC,VE, CANADA, W	1	SA	-

5. Exploded Views and Parts List

5-6 Drawer Parts List



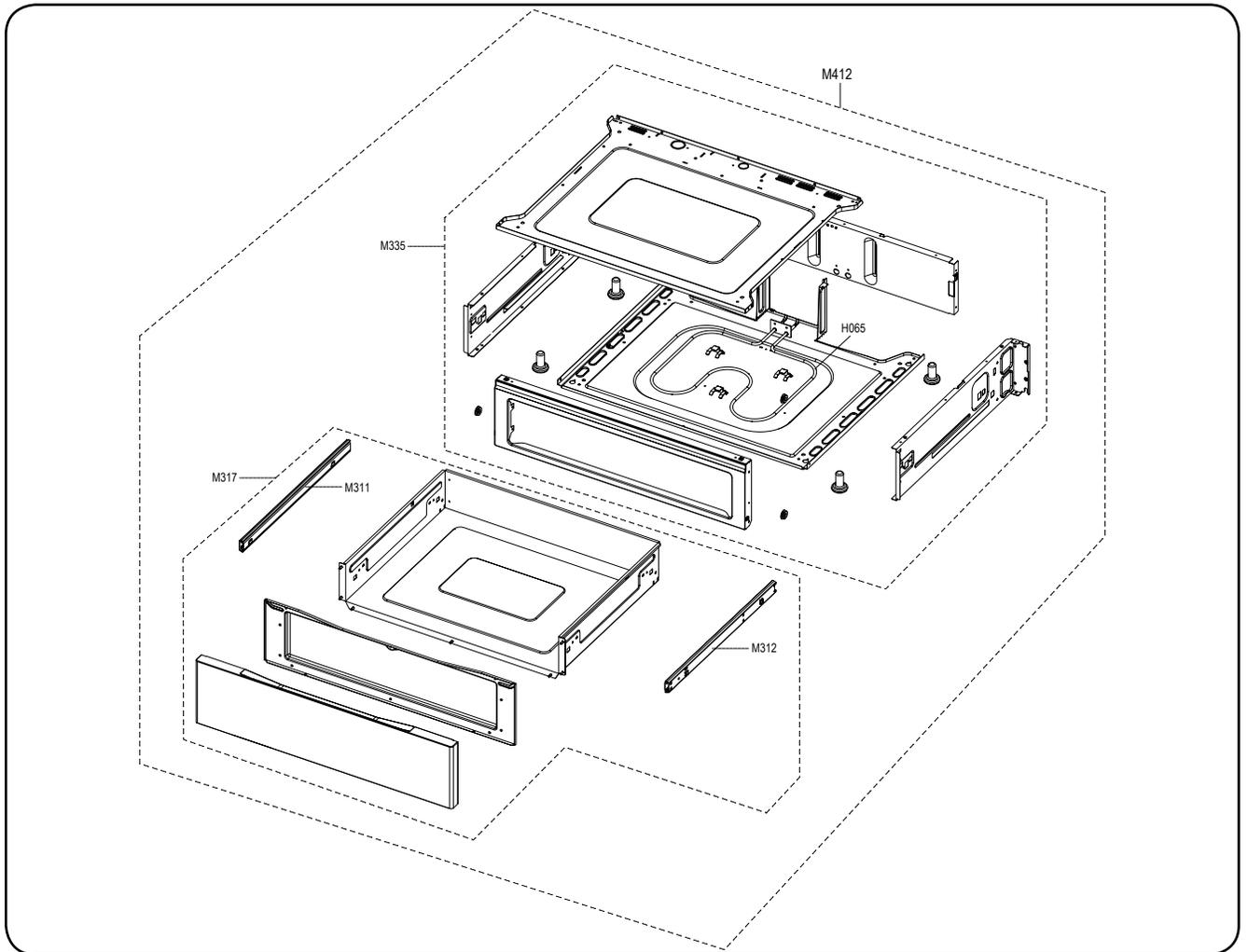
(S.N.A : SERVICE NOT AVAILABLE)

(00 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
M317	DG97-00117D	ASSY-DRAWER MAIN	FTQ352IWUW/XAA,BETTER,	1	SA	-
M313	DG97-00071A	ASSY-PEDESTAL	FTQ386**, FTQ352**,A-1 PJT	1	SA	-
H065	DG47-00018A	HEATER-WARMING DRAWER	-,FTQ386LWUX,Incol	1	SA	-
M320	DG97-00053D	ASSY-DRAWER	FTQ352IWUW,BETTER WHITE	1	SA	-

5. Exploded Views and Parts List

5-6 Drawer Parts List



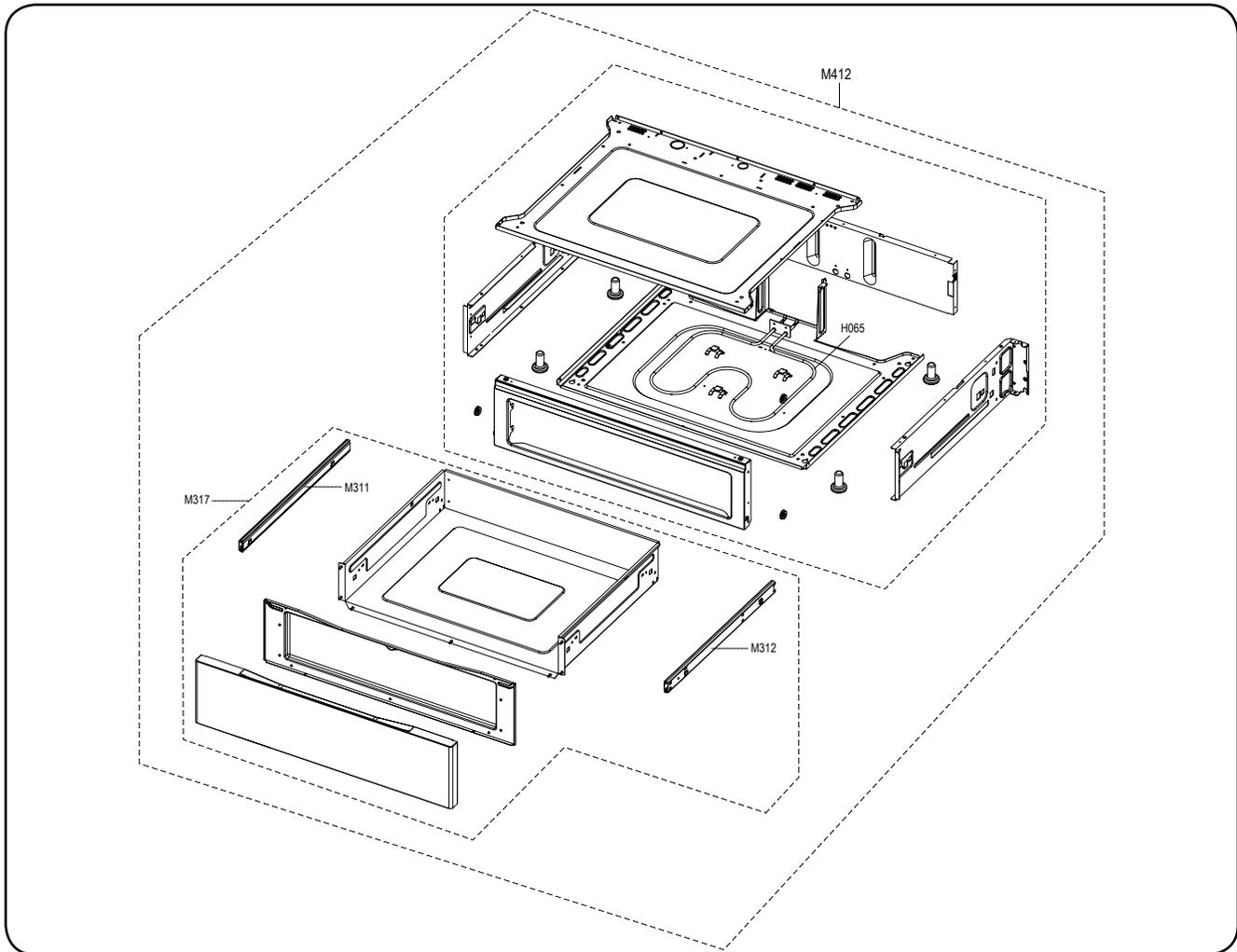
(S.N.A : SERVICE NOT AVAILABLE)

(01 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
H065	DG47-00018A	HEATER-WARMING DRAWER	-,FTQ386LWUX,Incol	1	SA	-
M311	DG97-00091B	ASSY-SLIDER RIGHT	FTQ386**, FTQ352**,-,V	1	SA	-
M312	DG97-00092B	ASSY-SLIDER LEFT	FTQ386**, FTQ352**,-,VE	1	SA	-
M317	DG97-00117L	ASSY DRAWER-MAIN	FTQ352IWUW/XAA, FTQ352I	1	SA	-
M412	DG97-00053P	ASSY DRAWER	FTQ352IWUW/XAA, FTQ352IWW/XA	1	SA	-
P335	DG97-00071D	ASSY PEDESTAL	FTQ386**, FTQ352**,BLACK,V	1	SA	-

5. Exploded Views and Parts List

5-6 Drawer Parts List



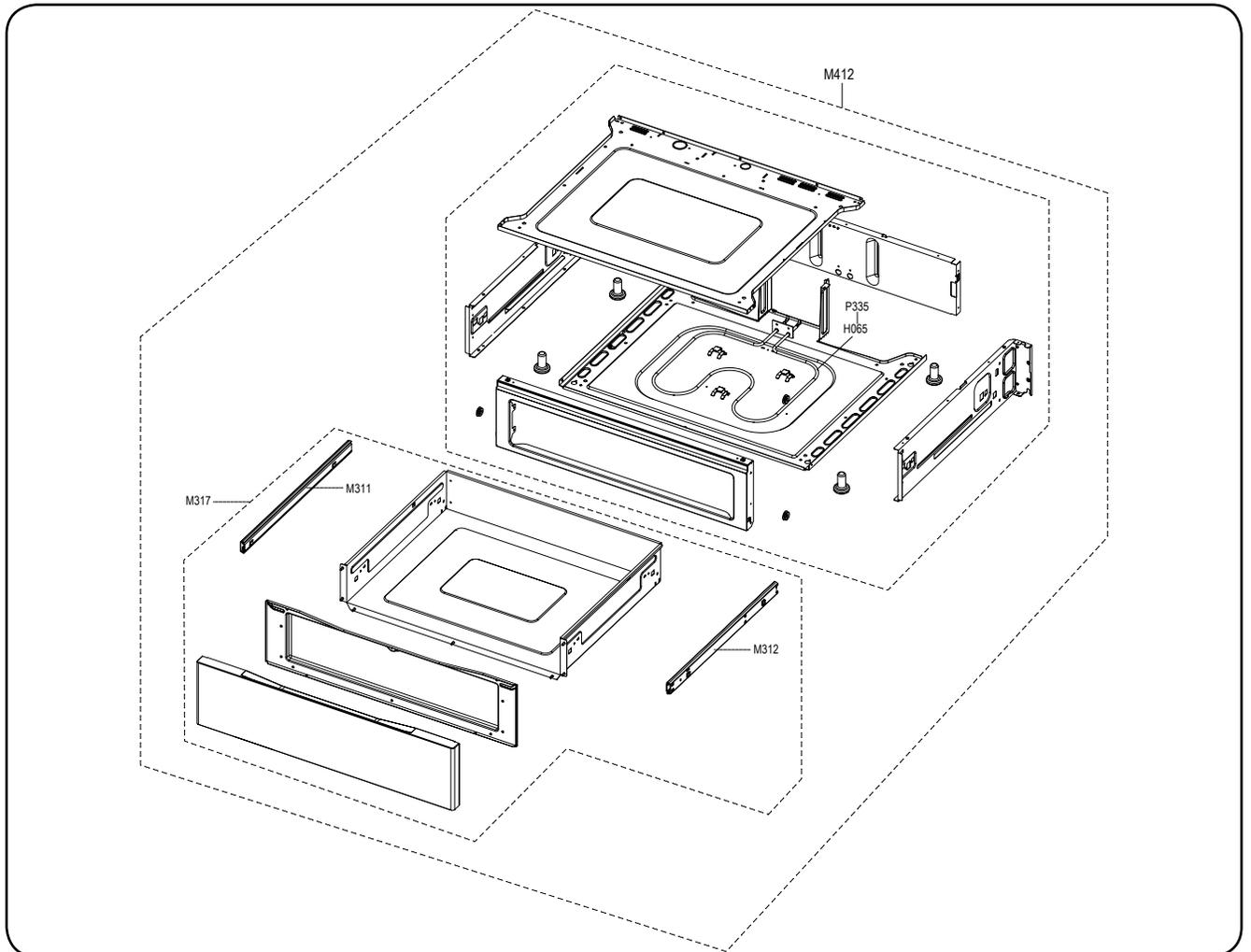
(S.N.A : SERVICE NOT AVAILABLE)

(02 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
H065	DG47-00018A	HEATER-WARMING DRAWER	-,FTQ386LWUX,Incol	1	SA	-
M311	DG97-00091B	ASSY-SLIDER RIGHT	FTQ386**, FTQ352**,-,V	1	SA	-
M312	DG97-00092B	ASSY-SLIDER LEFT	FTQ386**, FTQ352**,-,VE	1	SA	-
M317	DG97-00117L	ASSY DRAWER-MAIN	FTQ352IWUW/XAA, FTQ352I	1	SA	-
M412	DG97-00053P	ASSY DRAWER	FTQ352IWUW/XAA, FTQ352IWW/XA	1	SA	-

5. Exploded Views and Parts List

5-6 Drawer Parts List



(S.N.A : SERVICE NOT AVAILABLE)

(03 Version)

No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
H065	DG47-00018A	HEATER-WARMING DRAWER	-,FTQ386LWUX,Incol	1	SA	-
M311	DG97-00091B	ASSY-SLIDER RIGHT	FTQ386**, FTQ352**,-,V	1	SA	-
M312	DG97-00092B	ASSY-SLIDER LEFT	FTQ386**, FTQ352**,-,VE	1	SA	-
M317	DG97-00117L	ASSY DRAWER-MAIN	FTQ352IWUW/XAA, FTQ352I	1	SNA	-
M412	DG97-00053P	ASSY DRAWER	FTQ352IWUW/XAA, FTQ352IWW/XA	1	SA	-
P335	DG97-00071D	ASSY PEDESTAL	FTQ386**, FTQ352**,BLACK,V	1	SA	-

5. Exploded Views and Parts List

5-7 Standard Parts List

(S.N.A : SERVICE NOT AVAILABLE)

(00 Version)

Level	Code No.	Description	Specification	Q'ty	SA/ SNA	Remark
1-1	6006-001170	SCREW-TAPPING	TH,+,WT,TC,M4,L10,ZPC(WHT)	2	SA	A-C-B-GROUND,H-W-G-A
1-1	6006-001174	SCREW-ASSY TAPP	WE,TH,+,M4,L12,ZPC(YEL)	21	SNA	A-COOKTOP,S-BURNER,S-R-SIGHT,B-C-ACCESS,
1-1	6009-001395	SCREW-SPECIAL	TH,+,WP,M5,L10,PASS,STS XM	1	SNA	S-HINGE
1-1	6021-001208	NUT-HEXAGON CAP	-,M4,NI PLT,SWRCH10A,-	1	SNA	F-C-PLANET
1-1	6021-001211	NUT-HEXAGON CAP	-,M4,NI PLT,SWRCH10A,LEF	1	SA	F-C-MAIN
1-1	DE60-10189A	SCREW MACHINE	-,+,WS(FIBER),M4,L10,ZPC(B	1	SA	L-DOOR
1-2	6006-001174	SCREW-ASSY TAPP	WE,TH,+,M4,L12,ZPC(YEL)	1	SNA	S-S-PANEL
1-2	6002-000171	SCREW-TAPPING	PH,+,2S,M4,L10,ZPC(YEL),SW	2	SNA	S-HEATER,CABLE-CLAMP
1-2	6002-000630	SCREW-TAPPING	PH,+,2S,M3,L8,ZPC(YEL),SWR	1	SA	I-H-SURFACE
1-2	6006-001170	SCREW-TAPPING	TH,+,WT,TC,M4,L10,ZPC(WHT)	1	SA	H-W-G-A
1-2	6002-001237	SCREW-TAPPING	PWH,+,-,2,M3,L12,ZPC(WHT),	1	SNA	A-P-MAIN
1-2	6006-001174	SCREW-ASSY TAPP	WE,TH,+,M4,L12,ZPC(YEL)	4	SNA	A-C-BOX,-,H-DISPLAY,B-C-PANEL
1-2	DE60-00001A	SCREW MACHINE	TH,+,-,M4,L6,NI PLT,STS430	1	SNA	R-ENERGY
1-2	DE60-10065A	SCREW-TAPPING	-,-,FE-FZY,-,TH,M4,-,L6,-,	1	SNA	B-GLASS
1-3	6002-000630	SCREW-TAPPING	PH,+,2S,M3,L8,ZPC(YEL),SWR	1	SA	NULL10
1-3	6006-001174	SCREW-ASSY TAPP	WE,TH,+,M4,L12,ZPC(YEL)	5	SNA	S-U-DRAWER,B-W-DRAWER,H-W-DRAWER,S-S-DRA
1-3	6006-001176	SCREW-ASSY TAPT	WT,PH,+,M4,L8,ZPC(YEL)	1	SNA	B-W-HEATER
1-3	DE60-10062A	SCREW-TAPPING	-,-,FEFZB,-,TH,M4,-,L12,-,	1	SNA	T-P-FRONT
1-3	DE60-10059A	SCREW-TAPPING	TH,+,-,2,M4,L8,NI PLT,SUS4	1	SNA	SLIDER
1-3	DE60-10059A	SCREW-TAPPING	TH,+,-,2,M4,L8,NI PLT,SUS4	1	SNA	P-W-DRAWER
1-3	DE60-10034A	SCREW MACHINE	TH,+,-,M4,L4,-,STS410,-,-	1	SNA	-
1-4	DE60-10027A	SCREW-TAPPING	M4,+,-,L12,WP(Fiber),TH,Ta	1	SA	-
1-2	6006-001174	SCREW-ASSY TAPP	WE,TH,+,M4,L12,ZPC(YEL)	1	SNA	THERMOSTAT
1-2	6001-000547	SCREW-MACHINE	TH,+,-,M4,L25,ZPC(WHT),SWR	1	SA	-
1-2	6006-001170	SCREW-TAPPING	TH,+,WT,TC,M4,L10,ZPC(WHT)	1	SA	-
1-2	DE60-30016A	NUT-FLANGE	M4,MSWR10,-,-,-,-,-,-	1	SA	-
1-2	6001-000547	SCREW-MACHINE	TH,+,-,M4,L25,ZPC(WHT),SWR	1	SA	-
1-2	DE60-30016A	NUT-FLANGE	M4,MSWR10,-,-,-,-,-,-	1	SA	-
1-1	6003-001622	SCREW-TAPTITE	HEX,+,TH,S-TITE,M5,L10,ZPC	1	SA	-
1-1	6001-000033	SCREW-MACHINE	TH,+,-,M4,L10,PASS,STS304,	1	SNA	-
1-1	DE60-10193A	SCREW-TAPPING	-,YEL,MSWR18,FEFZY,TH,M4,-	2	SNA	H-P-SUB,T-BLOCK
1-1	DE60-10199A	SCREW-MACHINE	HEX,+,WT,M5,L10,CR PLT,SWR	1	SA	A-T-BLOCK
1-1	DE60-10028A	SCREW MACHINE	HEX,+,-,M6,L10,ZPC(WHT),SW	1	SNA	A-T-BLOCK
1-2	6001-001377	SCREW-MACHINE	TH,+,-,M5,L25,ZPC(WHT),SWR	1	SA	A-H-DOOR
1-2	6006-001174	SCREW-ASSY TAPP	WE,TH,+,M4,L12,ZPC(YEL)	3	SNA	A-D-E,B-I-GLASS,A-B-DOOR
1-2	6009-001395	SCREW-SPECIAL	TH,+,WP,M5,L10,PASS,STS XM	1	SNA	A-HINGE
1-2	DE60-10091A	SCREW MACHINE	PH,UP,FIBER,-,L80(22),PASS	1	SA	A-H-DOOR
1-3	DE60-10062A	SCREW-TAPPING	-,-,FEFZB,-,TH,M4,-,L12,-,	1	SNA	T-DOOR
1-3	6001-001377	SCREW-MACHINE	TH,+,-,M5,L25,ZPC(WHT),SWR	1	SA	-

5. Exploded Views and Parts List

5-7 Standard Parts List

(S.N.A : SERVICE NOT AVAILABLE)

(01 Version)

Level	Code No.	Description	Specification	Q'ty	SA/ SNA	Remark
1-1	6006-001170	SCREW-TAPPING	TH,+ ,WT,TC,M4,L10,ZPC(WHT)	2	SNA	A-C-B-GROUND,H-W-G-A
1-1	6006-001174	SCREW-ASSY TAPP	WE,TH,+ ,M4,L12,ZPC(YEL)	62	SNA	A-COOKTOP,B-M-CONNECTOR,B-M-TOP,C-ACCESS,C-FRONT,C-WARMER,G-COOKTOP,H-BAKE,L-DOOR,M-C-SUB,M-CONVECTI
1-1	6009-001395	SCREW-SPECIAL	TH,+ ,WP,M5,L10,PASS,STS XM	4	SNA	S-HINGE
1-1	DE60-10059A	SCREW-TAPPING	TH,+ ,-,2,M4,L8,NI PLT,SUS4	8	SNA	A-C-CASING,A-VENT,H-BROIL,A-VENT_C-B-MAIN
1-1	DE60-10189A	SCREW MACHINE	-,+ ,WS(FIBER),M4,L10,ZPC(B	2	SA	L-DOOR
1-2	6001-000547	SCREW-MACHINE	TH,+ ,-,M4,L25,ZPC(WHT),SWR	1	SNA	-
1-2	6006-001170	SCREW-TAPPING	TH,+ ,WT,TC,M4,L10,ZPC(WHT)	2	SNA	-
1-2	6001-000547	SCREW-MACHINE	TH,+ ,-,M4,L25,ZPC(WHT),SWR	2	SNA	-
1-2	6006-001170	SCREW-TAPPING	TH,+ ,WT,TC,M4,L10,ZPC(WHT)	4	SNA	-
1-1	DE60-10199A	SCREW-MACHINE	HEX,+ ,WT,M5,L10,CR PLT,SWR	3	SA	A-T-BLOCK
1-1	DE60-10028A	SCREW MACHINE	HEX,+ ,-,M6,L10,ZPC(WHT),SW	3	SNA	A-T-BLOCK
1-2	6001-001377	SCREW-MACHINE	TH,+ ,-,M5,L25,ZPC(WHT),SWR	4	SNA	A-H-DOOR
1-2	6006-001174	SCREW-ASSY TAPP	WE,TH,+ ,M4,L12,ZPC(YEL)	14	SNA	A-B-DOOR,B-I-GLASS,CHASSIS-DOOR
1-2	6009-001395	SCREW-SPECIAL	TH,+ ,WP,M5,L10,PASS,STS XM	6	SNA	A-HINGE
1-2	DE60-10091A	SCREW MACHINE	PH,UP,BLACK FIBER,-,L80(22	2	SNA	A-H-DOOR
1-3	DE60-10062A	SCREW-TAPPING	-,-,FEFZB,-,TH,M4,-,L12,-,	6	SNA	T-DOOR
1-3	6001-001377	SCREW-MACHINE	TH,+ ,-,M5,L25,ZPC(WHT),SWR	2	SNA	-
1-2	6002-000630	SCREW-TAPPING	PH,+ ,2S,M3,L8,ZPC(YEL),SWR	1	SNA	I-H SURFACE
1-2	6002-000643	SCREW-TAPPING	TH,+ ,2S,M4,L10,ZPC(YEL),SW	8	SNA	B-HEATER
1-2	6006-001170	SCREW-TAPPING	TH,+ ,WT,TC,M4,L10,ZPC(WHT)	1	SNA	H-W-G-A
1-2	DE60-00003A	SCREW-TAPPING	M3.5,+ ,-,L9,-,TH,ZPC(WHT),	8	SNA	CABLE-CLAMP,MICA HEATER
1-2	6002-001237	SCREW-TAPPING	PWH,+ ,-,2,M3,L12,ZPC(WHT),	2	SNA	B-C-P-SUB
1-2	6006-001174	SCREW-ASSY TAPP	WE,TH,+ ,M4,L12,ZPC(YEL)	11	SNA	A-C-BOX,B-C-PANEL,H-DISPLAY
1-2	DE60-00001A	SCREW MACHINE	TH,+ ,-,M4,L6,NI PLT,STS430	8	SNA	R-ENERGY
1-2	DE60-10065A	SCREW-TAPPING	-,-,FE-FZY,-,TH,M4,-,L6,-,	2	SNA	B-C-P-SUB
1-1	6002-000432	SCREW-TAPPING	TH,+ ,-,B,M4,L10,ZPC(WHT),S	5	SNA	CAVITY-B_COVER-B-M
1-1	6003-001622	SCREW-TAPTITE	HEX,+ ,TH,S-TITE,M5,L10,ZPC	1	SNA	B-GROUND
1-3	DE60-10034A	SCREW MACHINE	TH,+ ,-,M4,L4,-,STS410,-,-	4	SNA	SLIDER
1-3	DE60-10059A	SCREW-TAPPING	TH,+ ,-,2,M4,L8,NI PLT,SUS4	7	SNA	P-W-DRAWER
1-4	DE60-10062A	SCREW-TAPPING	-,-,FEFZB,-,TH,M4,-,L12,-,	3	SNA	A-C-DRAWER
1-3	6006-001174	SCREW-ASSY TAPP	WE,TH,+ ,M4,L12,ZPC(YEL)	23	SNA	B-W-DRAWER,H-W-DRAWER,S-S-DRAWER,S-U-DRAWER
1-3	6006-001176	SCREW-ASSY TAPT	WT,PH,+ ,M4,L8,ZPC(YEL)	3	SNA	B-W-HEATER
1-3	DE60-10059A	SCREW-TAPPING	TH,+ ,-,2,M4,L8,NI PLT,SUS4	2	SNA	SLIDER
1-3	DE60-10062A	SCREW-TAPPING	-,-,FEFZB,-,TH,M4,-,L12,-,	9	SNA	T-P-FRONT
1-1	6001-000033	SCREW-MACHINE	TH,+ ,-,M4,L10,PASS,STS304,	1	SNA	SENSOR-TH
1-1	6021-001208	NUT-HEXAGON CAP	- ,M4,NI PLT,SWRCH10A,-	2	SNA	F-C-PLANET
1-1	6021-001211	NUT-HEXAGON CAP	- ,M4,NI PLT,SWRCH10A,LEF	1	SNA	F-C-MAIN
1-2	DE60-30016A	NUT-FLANGE	M4,MSWR10,-,-,-,-,-,-	1	SNA	-
1-2	DE60-30016A	NUT-FLANGE	M4,MSWR10,-,-,-,-,-,-	2	SNA	-

5. Exploded Views and Parts List

5-7 Standard Parts List

(S.N.A : SERVICE NOT AVAILABLE)

(02 Version)

Level	Code No.	Description	Specification	Q'ty	SA/ SNA	Remark
1-1	6006-001170	SCREW-TAPPING	TH,+,WT,TC,M4,L10,ZPC(WHT)	2	SNA	A-C-B-GROUND,H-W-G-A
1-1	6006-001174	SCREW-ASSY TAPP	WE,TH,+,M4,L12,ZPC(YEL)	62	SNA	A-COOKTOP,B-M-CONNECTOR,B-M-TOP,C-ACCESS,C-FRONT,C-WARMER,G-COOKTOP,H-BAKE,L-DOOR,M-C-SUB,M-CONVECTI
1-1	6009-001395	SCREW-SPECIAL	TH,+,WP,M5,L10,PASS,STS XM	4	SNA	S-HINGE
1-1	DE60-10059A	SCREW-TAPPING	TH,+,-,2,M4,L8,NI PLT,SUS4	8	SNA	A-C-CASING,A-VENT,H-BROIL,A-VENT_C-B-MAIN
1-1	DE60-10189A	SCREW MACHINE	-,+,WS(FIBER),M4,L10,ZPC(B	2	SA	L-DOOR
1-2	6001-000547	SCREW-MACHINE	TH,+,-,M4,L25,ZPC(WHT),SWR	1	SNA	-
1-2	6006-001170	SCREW-TAPPING	TH,+,WT,TC,M4,L10,ZPC(WHT)	2	SNA	-
1-2	6001-000547	SCREW-MACHINE	TH,+,-,M4,L25,ZPC(WHT),SWR	2	SNA	-
1-2	6006-001170	SCREW-TAPPING	TH,+,WT,TC,M4,L10,ZPC(WHT)	4	SNA	-
1-1	DE60-10193A	SCREW-TAPPING	-,YEL,MSWR18,FEFZY,TH,M4,-	5	SNA	T-BLOCK,H-P-SUB
1-1	DE60-10199A	SCREW-MACHINE	HEX,+,WT,M5,L10,CR PLT,SWR	3	SA	A-T-BLOCK
1-1	DE60-10028A	SCREW MACHINE	HEX,+,-,M6,L10,ZPC(WHT),SW	3	SNA	A-T-BLOCK
1-2	6001-001377	SCREW-MACHINE	TH,+,-,M5,L25,ZPC(WHT),SWR	4	SNA	A-H-DOOR
1-2	6006-001174	SCREW-ASSY TAPP	WE,TH,+,M4,L12,ZPC(YEL)	14	SNA	A-B-DOOR,B-I-GLASS,CHASSIS-DOOR
1-2	6009-001395	SCREW-SPECIAL	TH,+,WP,M5,L10,PASS,STS XM	6	SNA	A-HINGE
1-2	DE60-10091A	SCREW MACHINE	PH,UP,BLACK FIBER,-,L80(22	2	SNA	A-H-DOOR
1-3	DE60-10062A	SCREW-TAPPING	-,-,FEFZB,-,TH,M4,-,L12,-,	6	SNA	T-DOOR
1-3	6001-001377	SCREW-MACHINE	TH,+,-,M5,L25,ZPC(WHT),SWR	2	SNA	-
1-2	6002-000643	SCREW-TAPPING	TH,+,2S,M4,L10,ZPC(YEL),SW	8	SNA	B-HEATER
1-2	6006-001170	SCREW-TAPPING	TH,+,WT,TC,M4,L10,ZPC(WHT)	1	SNA	H-W-G-A
1-2	DE60-00003A	SCREW-TAPPING	M3.5,+,-,L9,-,TH,ZPC(WHT),	8	SNA	CABLE-CLAMP,MICA HEATER
1-2	6002-001237	SCREW-TAPPING	PWH,+,-,2,M3,L12,ZPC(WHT),	2	SNA	B-C-P-SUB
1-2	6006-001174	SCREW-ASSY TAPP	WE,TH,+,M4,L12,ZPC(YEL)	11	SNA	A-C-BOX,B-C-PANEL,H-DISPLAY
1-2	DE60-00001A	SCREW MACHINE	TH,+,-,M4,L6,NI PLT,STS430	8	SNA	R-ENERGY
1-2	DE60-10065A	SCREW-TAPPING	-,-,FE-FZY,-,TH,M4,-,L6,-,	2	SNA	B-C-P-SUB
1-1	6002-000432	SCREW-TAPPING	TH,+,-,B,M4,L10,ZPC(WHT),S	5	SNA	CAVITY-B_COVER-B-M
1-1	6003-001622	SCREW-TAPTITE	HEX,+,TH,S-TITE,M5,L10,ZPC	1	SNA	B-GROUND
1-3	DE60-10034A	SCREW MACHINE	TH,+,-,M4,L4,-,STS410,-,-	4	SNA	SLIDER
1-3	DE60-10059A	SCREW-TAPPING	TH,+,-,2,M4,L8,NI PLT,SUS4	7	SNA	P-W-DRAWER
1-4	DE60-10062A	SCREW-TAPPING	-,-,FEFZB,-,TH,M4,-,L12,-,	3	SNA	A-C-DRAWER
1-3	6006-001174	SCREW-ASSY TAPP	WE,TH,+,M4,L12,ZPC(YEL)	23	SNA	B-W-DRAWER,H-W-DRAWER,S-S-DRAWER,S-U-DRAWER
1-3	6006-001176	SCREW-ASSY TAPT	WT,PH,+,M4,L8,ZPC(YEL)	3	SNA	B-W-HEATER
1-3	DE60-10059A	SCREW-TAPPING	TH,+,-,2,M4,L8,NI PLT,SUS4	2	SNA	SLIDER
1-3	DE60-10062A	SCREW-TAPPING	-,-,FEFZB,-,TH,M4,-,L12,-,	9	SNA	T-P-FRONT
1-1	6001-000033	SCREW-MACHINE	TH,+,-,M4,L10,PASS,STS304,	1	SNA	SENSOR-TH
1-1	6021-001208	NUT-HEXAGON CAP	-,M4,NI PLT,SWRCH10A,-	2	SNA	F-C-PLANET
1-1	6021-001211	NUT-HEXAGON CAP	-,M4,NI PLT,SWRCH10A,LEF	1	SNA	F-C-MAIN
1-2	DE60-30016A	NUT-FLANGE	M4,MSWR10,-,-,-,-,-,-,-	1	SNA	-
1-2	DE60-30016A	NUT-FLANGE	M4,MSWR10,-,-,-,-,-,-,-	2	SNA	-

5. Exploded Views and Parts List

5-7 Standard Parts List

(S.N.A : SERVICE NOT AVAILABLE)

(03 Version)

Level	Code No.	Description	Specification	Q'ty	SA/ SNA	Remark
1-1	6006-001170	SCREW-TAPPING	TH,+ ,WT,TC,M4,L10,ZPC(WHT)	2	SNA	A-C-B-GROUND,H-W-G-A
1-1	6006-001174	SCREW-ASSY TAPP	WE,TH,+ ,M4,L12,ZPC(YEL)	62	SNA	A-COOKTOP,B-M-CONNECTOR,B-M-TOP,C-ACCESS,C-FRONT,C-WARMER,G-COOKTOP,H-BAKE,L-DOOR,M-C-SUB,M-CONNECTI
1-1	6009-001395	SCREW-SPECIAL	TH,+ ,WP,M5,L10,PASS,STS XM	4	SNA	S-HINGE
1-1	6021-001208	NUT-HEXAGON CAP	- ,M4,NI PLT,SWRCH10A,-	2	SNA	F-C-PLANET
1-1	6021-001211	NUT-HEXAGON CAP	- ,M4,NI PLT,SWRCH10A,LEF	1	SNA	F-C-MAIN
1-1	DE60-10059A	SCREW-TAPPING	TH,+ ,-,2,M4,L8,NI PLT,SUS4	8	SNA	A-C-CASING,A-VENT,H-BROIL,A-VENT_C-B-MAIN
1-1	DE60-10189A	SCREW MACHINE	- ,+,WS(FIBER),M4,L10,ZPC(B	2	SA	L-DOOR
1-2	6001-000547	SCREW-MACHINE	TH,+ ,-,M4,L25,ZPC(WHT),SWR	1	SNA	-
1-2	6006-001170	SCREW-TAPPING	TH,+ ,WT,TC,M4,L10,ZPC(WHT)	2	SNA	-
1-2	DE60-30016A	NUT-FLANGE	M4,MSWR10,-,-,-,-,-,-,-	1	SNA	-
1-2	6001-000547	SCREW-MACHINE	TH,+ ,-,M4,L25,ZPC(WHT),SWR	2	SNA	-
1-2	DE60-30016A	NUT-FLANGE	M4,MSWR10,-,-,-,-,-,-,-	2	SNA	-
1-2	6006-001170	SCREW-TAPPING	TH,+ ,WT,TC,M4,L10,ZPC(WHT)	4	SNA	-
1-3	6002-001309	SCREW-TAPPING	TH,+ ,-,1,M5,L25,ZPC(WHT),S	2	SNA	-
1-1	DE60-10193A	SCREW-TAPPING	- ,YEL,MSWR18,FEFZY,TH,M4,-	5	SNA	T-BLOCK,H-P-SUB
1-1	DE60-10199A	SCREW-MACHINE	HEX,+ ,WT,M5,L10,CR PLT,SWR	3	SA	A-T-BLOCK
1-1	DE60-10028A	SCREW MACHINE	HEX,+ ,-,M6,L10,ZPC(WHT),SW	3	SNA	A-T-BLOCK
1-2	6001-001377	SCREW-MACHINE	TH,+ ,-,M5,L25,ZPC(WHT),SWR	4	SNA	A-H-DOOR
1-2	6006-001174	SCREW-ASSY TAPP	WE,TH,+ ,M4,L12,ZPC(YEL)	14	SNA	A-B-DOOR,B-I-GLASS,CHASSIS-DOOR
1-2	6009-001395	SCREW-SPECIAL	TH,+ ,WP,M5,L10,PASS,STS XM	6	SNA	A-HINGE
1-2	DE60-10091A	SCREW MACHINE	PH,UP,BLACK FIBER,- ,L80(22	2	SA	A-H-DOOR
1-3	DE60-10062A	SCREW-TAPPING	- ,-,FEFZB,- ,TH,M4,- ,L12,- ,	6	SNA	T-DOOR
1-3	6001-001377	SCREW-MACHINE	TH,+ ,-,M5,L25,ZPC(WHT),SWR	2	SNA	-
1-2	6002-000630	SCREW-TAPPING	PH,+ ,2S,M3,L8,ZPC(YEL),SWR	1	SNA	I-H SURFACE
1-2	6002-000643	SCREW-TAPPING	TH,+ ,2S,M4,L10,ZPC(YEL),SW	8	SNA	B-HEATER
1-2	6006-001170	SCREW-TAPPING	TH,+ ,WT,TC,M4,L10,ZPC(WHT)	1	SNA	H-W-G-A
1-2	DE60-00003A	SCREW-TAPPING	M3.5,+ ,-,L9,- ,TH,ZPC(WHT),	8	SNA	CABLE-CLAMP,MICA HEATER
1-2	6002-001237	SCREW-TAPPING	PWH,+ ,-,2,M3,L12,ZPC(WHT),	2	SA	B-C-P-SUB
1-2	6006-001174	SCREW-ASSY TAPP	WE,TH,+ ,M4,L12,ZPC(YEL)	11	SNA	A-C-BOX,B-C-PANEL,H-DISPLAY
1-2	DE60-00001A	SCREW MACHINE	TH,+ ,-,M4,L6,NI PLT,STS430	8	SNA	R-ENERGY
1-3	DE60-10034A	SCREW MACHINE	TH,+ ,-,M4,L4,- ,STS410,- ,	4	SNA	SLIDER
1-3	DE60-10059A	SCREW-TAPPING	TH,+ ,-,2,M4,L8,NI PLT,SUS4	7	SNA	P-W-DRAWER
1-4	DE60-10062A	SCREW-TAPPING	- ,-,FEFZB,- ,TH,M4,- ,L12,- ,	3	SNA	A-C-DRAWER
1-3	6006-001174	SCREW-ASSY TAPP	WE,TH,+ ,M4,L12,ZPC(YEL)	23	SNA	B-W-DRAWER,H-W-DRAWER,S-S-DRAWER,S-U-DRAWER
1-3	6006-001176	SCREW-ASSY TAPT	WT,PH,+ ,M4,L8,ZPC(YEL)	3	SNA	B-W-HEATER
1-3	DE60-10059A	SCREW-TAPPING	TH,+ ,-,2,M4,L8,NI PLT,SUS4	2	SNA	SLIDER
1-3	DE60-10062A	SCREW-TAPPING	- ,-,FEFZB,- ,TH,M4,- ,L12,- ,	9	SNA	T-P-FRONT
1-1	6001-000033	SCREW-MACHINE	TH,+ ,-,M4,L10,PASS,STS304,	1	SNA	SENSOR-TH

5. Exploded Views and Parts List

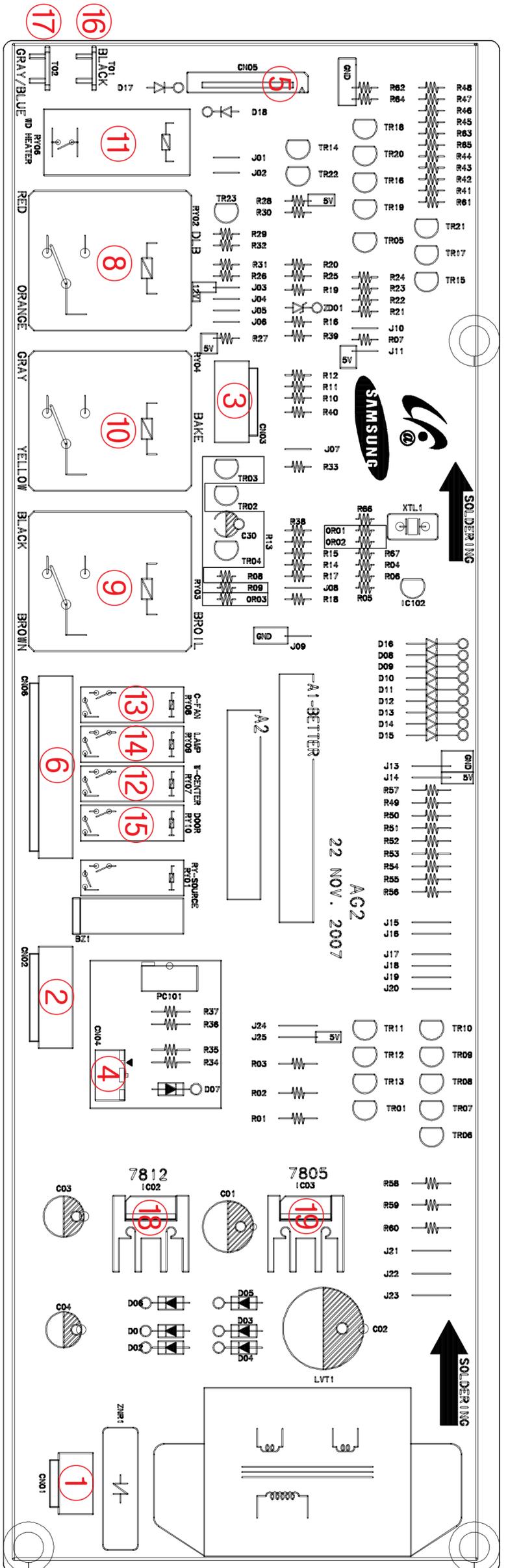
5-8 Version Parts List

(S.N.A : SERVICE NOT AVAILABLE)

Level.	No.	Code No.	Version	Description	Specification	Q'ty	SA/ SNA	Remark
1-1	Z066	DG69-00066A	01,02,03	PAD-RACK FLAT	A-1 PROJECT,-,-,W100,L80,-	4	SNA	-
1-1	H060	DG97-00127A	01,02,03	ASSY MOTOR CONVECTION	A-1 PROJECT,-,-,-,	1	SA	-
1-1	P348	DG97-00118B	01,02,03	ASSY ACCESSORY-A	-,FTQ386LWX/,CLEANING K	1	SNA	-
1-1	M398	6922-000001	01,02,03	BAND PP	PP,T0.8,W18,L1650M,YEL, DA69-90	17	SNA	-
1-1	H068	DG67-00028A	01,02,03	CAP-MOTOR CONVECTION	BT62FQBPST,GI,T0.6,	3	SNA	-
1-1	Z064	DG69-00062A	01,02,03	CUSHION-DRAWER R	FTQ386LWUX,-,-,-,-,-,-,-,	1	SNA	-
1-1	Z065	DG69-00062B	01,02,03	CUSHION-DRAWER L	FTQ386LWUX,EPS,-,-,-,-,-,-,	1	SNA	-
1-1	D049	DG97-00052F	01,02,03	ASSY DOOR	FCQ321HSUW/XAA,- ,WHITE,A-2 BET	1	SA	-
1-1	M309	DG97-00058B	01,02,03	ASSY-VENT	FCQ321HSUX/XAA,-,A-2 PROJECT	1	SA	-
1-1	U035	DG97-00073N	01,02,03	ASSY COOKTOP	FTQ352IWW/XAC,VE, CANADA, W	1	SA	-
1-1	C082	DG97-00112Q	01,02,03	ASSY CONTROL BOX	FTQ352IWW/XAC,-,WHITE,S	1	SA	-
1-1	X009	6002-000432	01,02,03	SCREW-TAPPING	TH,+,-,B,M4,L10,ZPC(WHT),S	5	SNA	CAVITY-B_ COVER-B-M
1-1	M355	DG61-00148B	01,02,03	GUIDE-COOK TOP	FTQ386**, FTQ352**, FCQ32	4	SNA	-
1-1	Z058	DG61-00168B	01,02,03	BRACKET-COVER ACCESS	FCQ321HSUX,SECC,0.6	1	SNA	-
1-1	D162	DG62-00020B	01,02,03	BAFFLE-DOOR SHEET	FTQ386LWUX,ALCOAT,-,24	2	SNA	-
1-1	M334	DG63-00058B	01,02,03	COVER-BACK GUARD WIRE	FCQ321HSUX,SGCC,0.	1	SNA	-
1-1	M356	DG63-00061B	01,02,03	COVER-ACCESS	FCQ321HSUX,SGCC,0.5,1 27,173	1	SNA	-
1-1	M335	DG63-00062B	01,02,03	COVER-BACK MAIN WIRE	FCQ321HSUX,SGCC,0.5	1	SNA	-
1-1	M336	DG63-00065C	01,02,03	COVER-BAKE HEATER	FTQ386**, FTQ352**,ALC	1	SNA	-
1-1	M317	DG97-00117L	01,02,03	ASSY DRAWER-MAIN	FTQ352IWUW/XAA, FTQ352I	1	SNA	-
1-1	S060	DG65-00004B	03	TERMINAL-BLOCK	FTQ386LWX,PBT, AI, Copper	1	SNA	-
1-1	W002	DG39-00033A	01,03	WIRE HARNESS-A	FTQ352IWX-A,-,-,-,-,-,-,-,-	1	SA	-

6-1 PCB Diagrams (Main)

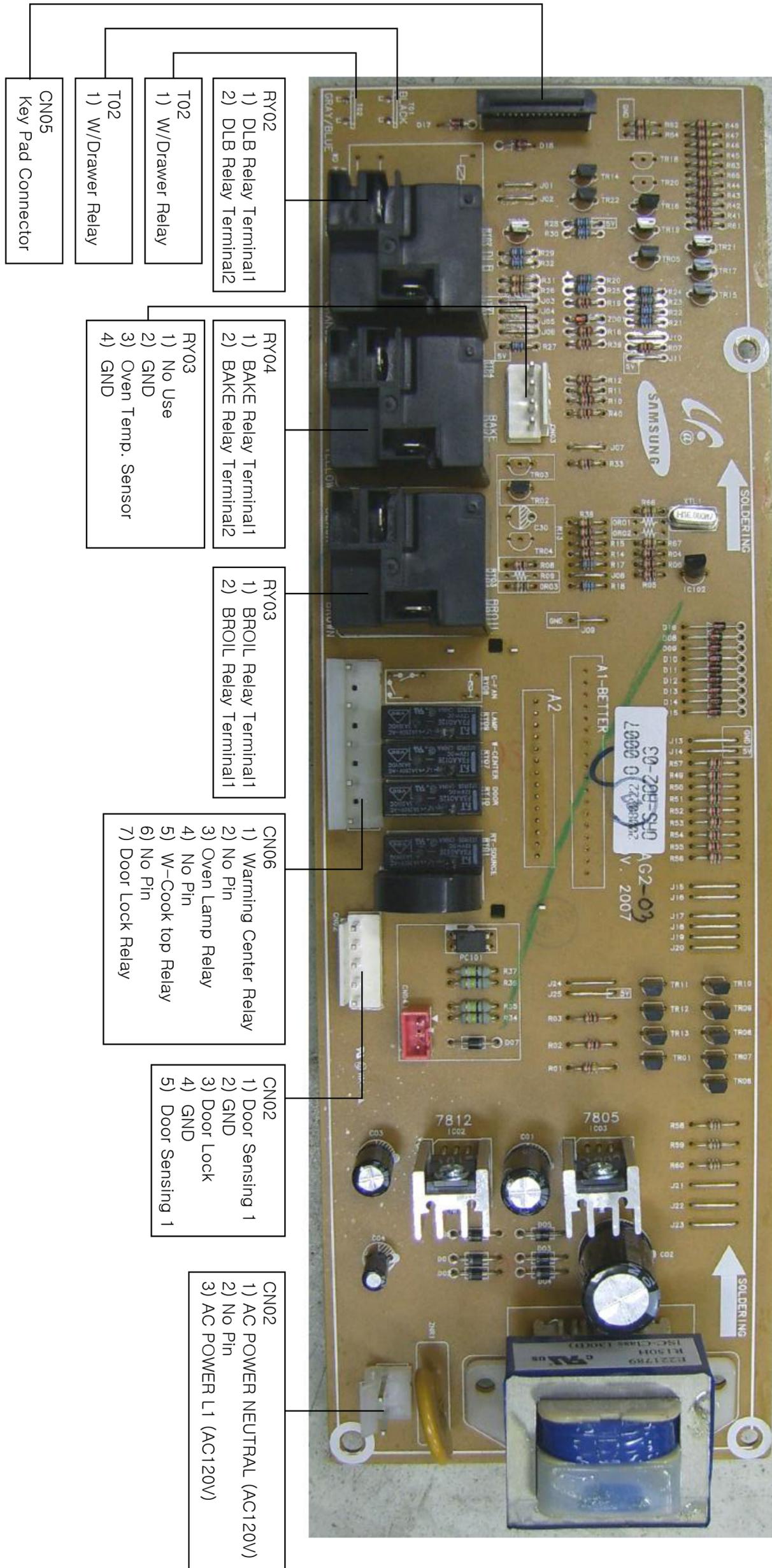
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No.	Parts Number	Part Name	Function and Rule
1	CN01	Power Connector	This is connector which supply AC 120V(L~N).
2	CN02	Door s/w , Door Lock s/w Connector	This is connector which connect door switch with door lock switch.
3	CN03	Oven Sensor Connector	This is connector which is connected with oven sensor..
4	CN04	Cook Top Sensing Connector	This is connector which connect regulator-energy with sense cook-top operate.
5	CN05	Key Pad Connector	This consist of 15 pin and take a role of getting a cable on keypad to connect with touch PCB.
6	CN06	Relay Connector	This is connector which connect control relay with warming center, oven lamp, convection fan, door lock switch.
7	RY01	RY-Source Control Relay	This is relay which control source of DLB,BAKE,BROIL, W/Drawer relay.
8	RY02	DLB Relay	Circuit is designed to have broil relay or convection relay worked after DLB relay is being worked by Double line break.
9	RY03	BROIL Relay	Broil relay(Ry03), Bake relay(Ry04) will be on-off working by micom signal after DLB relay is worked.
10	RY04	BAKE Relay	(Broil relay : It will not be problem with reversing the order in inserting Black and Brown) (Bake relay : It will not be problem with reversing the order in inserting Yellow and Gray)
11	RY06	W/Drawer Relay	This is relay which is connected with W/Drawer.
12	RY07	Warming Center Relay	This is relay which is connected with Warming Center.
13	RY08	Conv. Fan Relay	This is relay which is connected with Conv. Fan.
14	RY09	Lamp Relay	This is relay which is connected with Lamp.
15	RY10	Door Relay	This is relay which is connected with door lock motor.
16	T01	W/Drawer Relay Terminal	This is the terminal to connect W/Drawer heater with W/Drawer relay.
17	T02	Live1 Terminal	This is the terminal to supply L 1 voltage(120V) with warming drawer relay(Ry06)
18	IC02	DC 12V Regulator IC	This is to supply DC12V with main PCB by voltage regulator.
19	IC03	DC 5V Regulator IC	This is to supply DC5V with main PCB by voltage regulator.

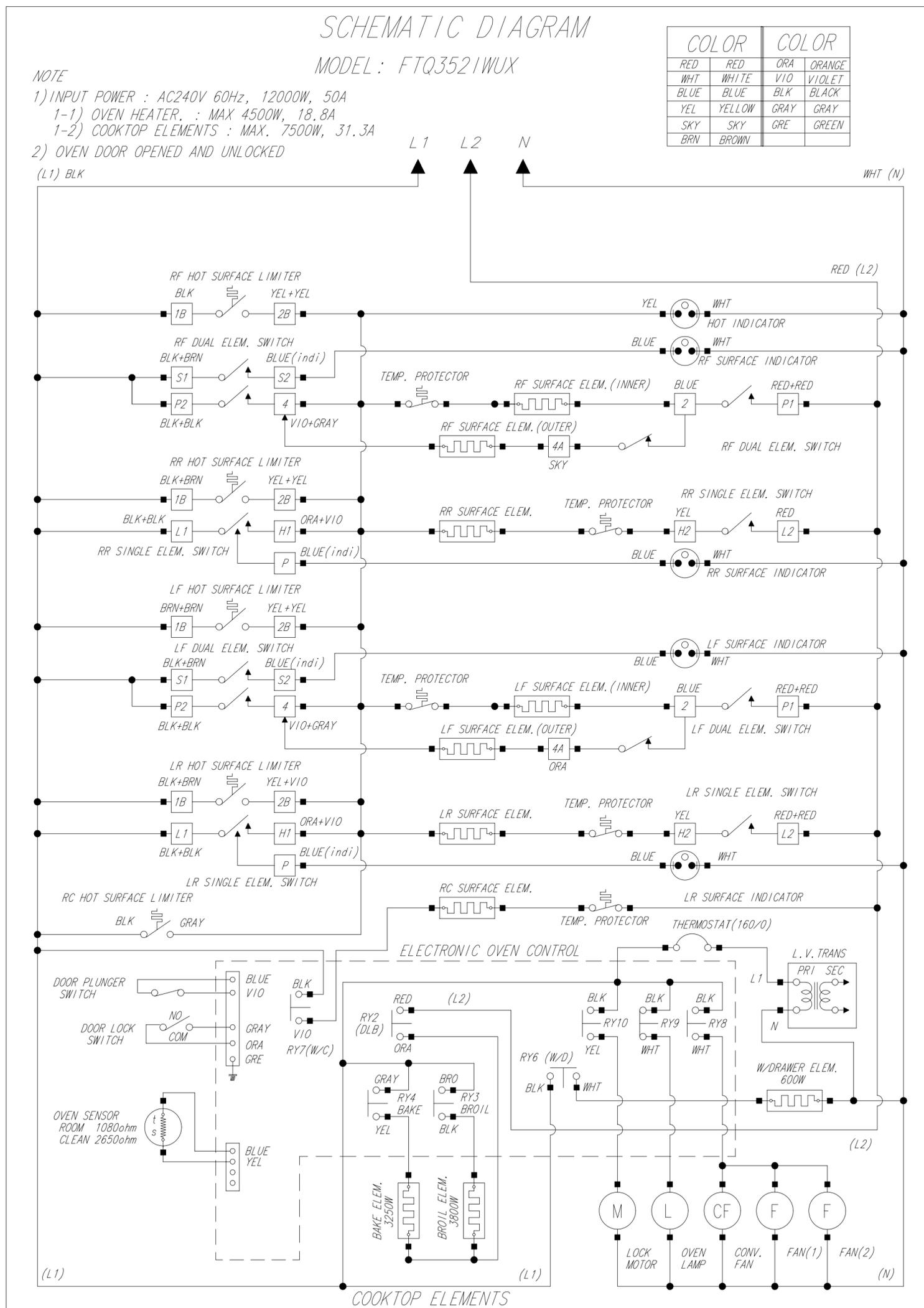
6-2 PCB Diagrams

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7-1 Wiring Diagrams

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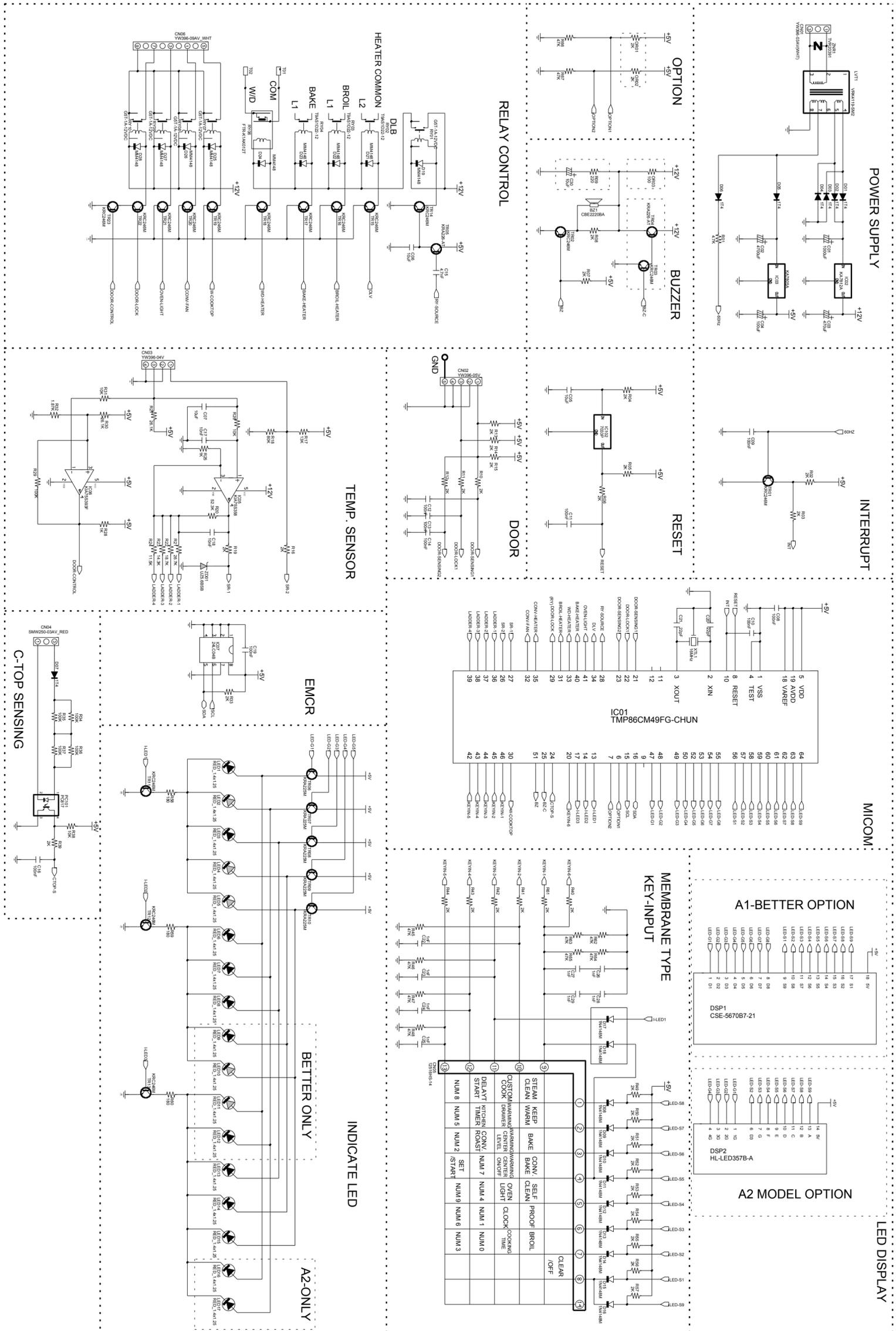


COOKTOP ELEMENTS		
COMPONENTS	INPUT	WATTAGE
RF DUAL ELEMENT	240V	1200W / 2500W
LF DUAL ELEMENT	240V	1200W / 2500W
RR SINGLE ELEMENT	240V	1200W
RL SIGLE ELEMENT	240V	1200W
RC SINGLE ELEMENT	240V	100W

OVEN HEATING ELEGMENTS		
COMPONENTS	INPUT	WATTAGE
BAKE	240V	3250W
BROIL	240V	3800W
WARM DRAWER	120V	600W

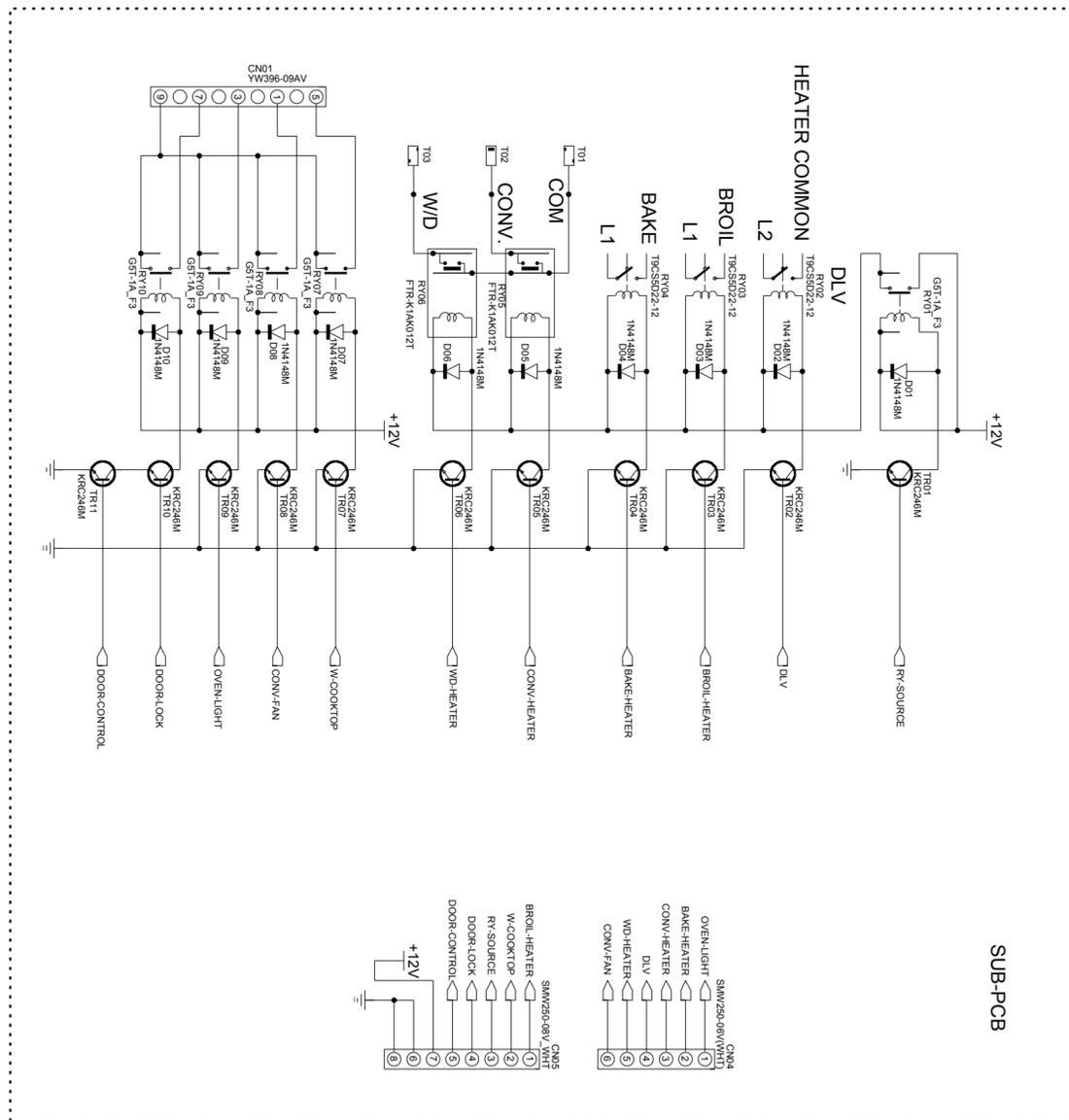
8-1 Schematic Diagrams

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8-2 Schematic Diagrams

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