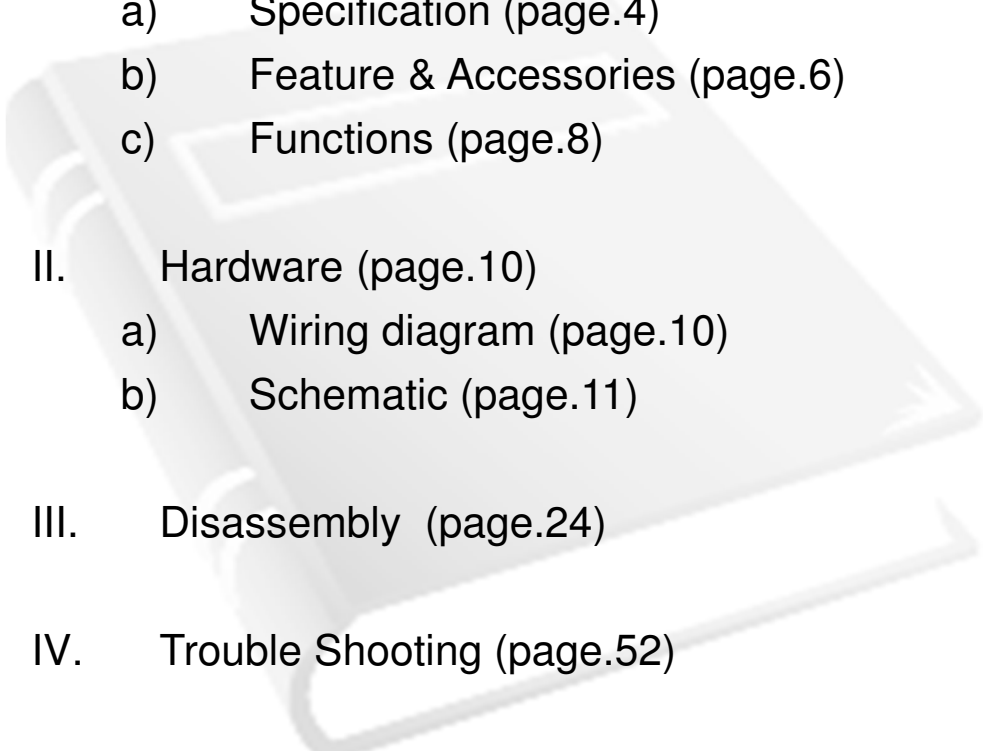


NE58K9560 series training



K&C RND GROUP

Agenda

- 
- I. General Specification (page.3)
 - a) Specification (page.4)
 - b) Feature & Accessories (page.6)
 - c) Functions (page.8)
 - II. Hardware (page.10)
 - a) Wiring diagram (page.10)
 - b) Schematic (page.11)
 - III. Disassembly (page.24)
 - IV. Trouble Shooting (page.52)
 - V. Reference (page.84)

General Specification

New Appearance Design

- VIRTUAL FLAME
- DUAL TRUE CONVECTION
- WI-FI
- VFD DISPLAY
- INDUCTION RANGE



Specification

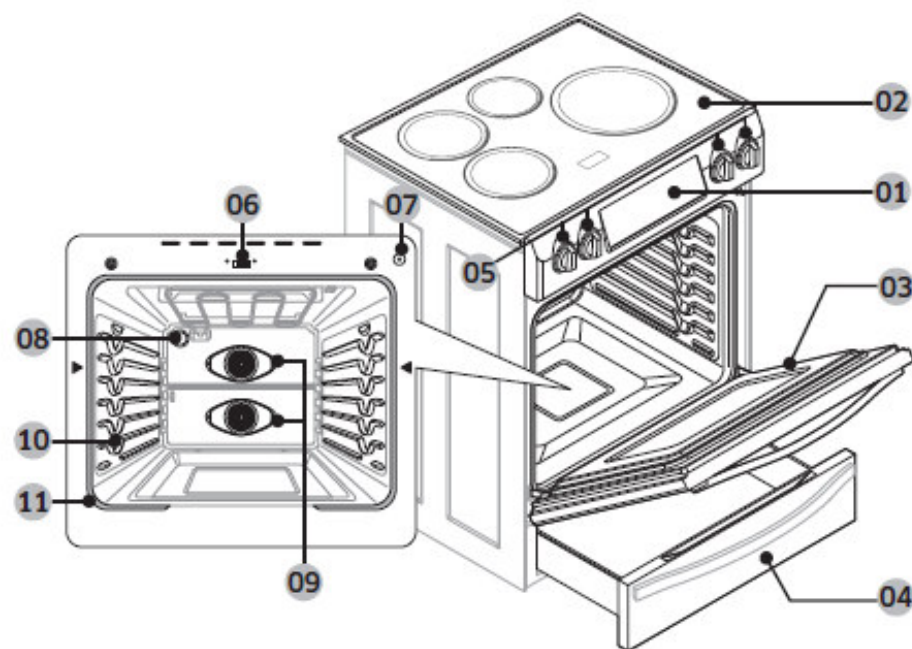
| Model | | Basic(NE58H9970WS) | New(NE58K9560WS) |
|----------|-------------------------|--------------------|-------------------|
| Category | | Convection | Convection |
| Overall | Width | 30" | 30" |
| | Installation type | Slide in | Slide in |
| | Color availability | STS | STS |
| Control | Oven | Touch | Touch |
| | Cook top | Knob | Knob |
| | Display | VFD | LED |
| | Electronic clock | Yes | Yes |
| | Control lock capability | Yes | Yes |
| | Audible preheat signal | Yes | Yes |
| Cook top | Material | Ceramic glass | Ceramic glass |
| | # of element | 4 | 4 |
| Power | LR | 7"-1,800/2,300W | 7"-1,800/2,300W |
| | RR | 6" - 1,200/2,000W | 6" - 1,200/2,000W |
| | CR | - | - |
| | LF | 7"-1,800/2,300W | 7"-1,800/2,300W |
| | RF | 11"-2,400/3,300W | 11"-2,400/3,300W |

Specification

| Model | | Basic(NE58H9970WS) | New(NE58K9560WS) |
|-------------------|---------------------------|---|---|
| Oven | Capacity(cu.ft) | 5.8 | 5.8 |
| | Broil element | 4,200 watts | 4,200 watts |
| | Bake element | 3,000 watts | 3,000 watts |
| | Convection system | Yes | Yes |
| | Convection element | Yes(1,250W/240V) | Yes(1,250W/240V) |
| | # of Racks | 3 | 3 |
| | Interior oven light | 120V,40 watts | 120V,40 watts |
| | Cleaning | Pyrolytic & Steam | Pyrolytic & Steam |
| Drawer | Type | Warming drawer | Warming drawer |
| | Element | 600 watts | 600 watts |
| | Warming rack | No | No |
| Dimensions (inch) | Oven interior (W x H x D) | 25 x 21 8/1 x 19 | 25 x 21 8/1 x 19 |
| | Exterior - Width | 31 (Cook top) : 787mm 29 4/5 (Body) : 757mm | 31 (Cook top) : 787mm 29 4/5 (Body) : 757mm |
| | Exterior - Height | 36 (cook top) : 913mm | 36 (cook top) : 913mm |
| | Exterior - Depth | 26 3/10 (Door), : 667.7mm 28 3/5 (with handle) : 727.7mm | 26 3/10 (Door), : 667.7mm 28 3/5 (with handle) : 727.7mm |
| | Net weight : Kg | 105Kg | 100Kg |
| Power | Rating(240V 60Hz) | Range : 6,300W Cook top : 7,100W | Range : 5,200W Cook top : 7,100W |

Features & Accessories

Oven Features



- | | | |
|--|--|----------------------------------|
| 01 Oven control panel (See page 29 for more information) | 02 Glass surface | 03 Oven door |
| 04 Warming drawer | 05 Surface control knobs* (See page 21 for more information) | 06 Self/Steam clean latch |
| 07 Automatic oven light switch | 08 Oven light* | 09 Convection fan |
| 10 Shelf position | 11 Gasket | |

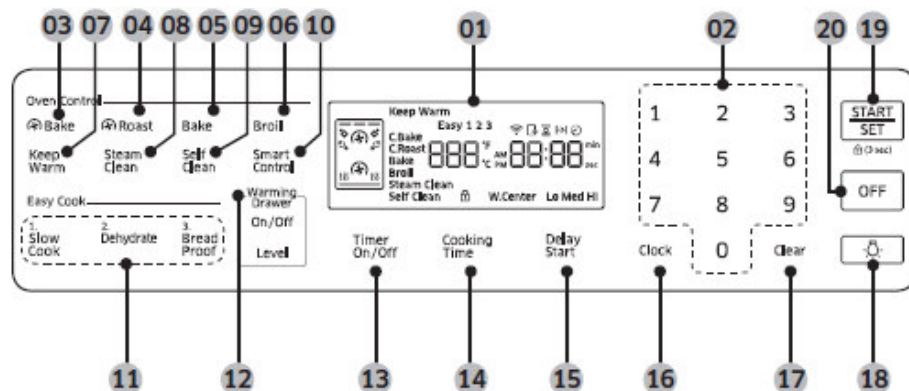
Features & Accessories

★ Accessories

| Item | Description | Code No. | Q'ty |
|--|------------------|-------------|------|
|  | Rack Flat | DG67-00108A | 2 |
|  | Rack Wire-Bottom | DG75-01056A | 1 |

Functions

Control Panel - Oven



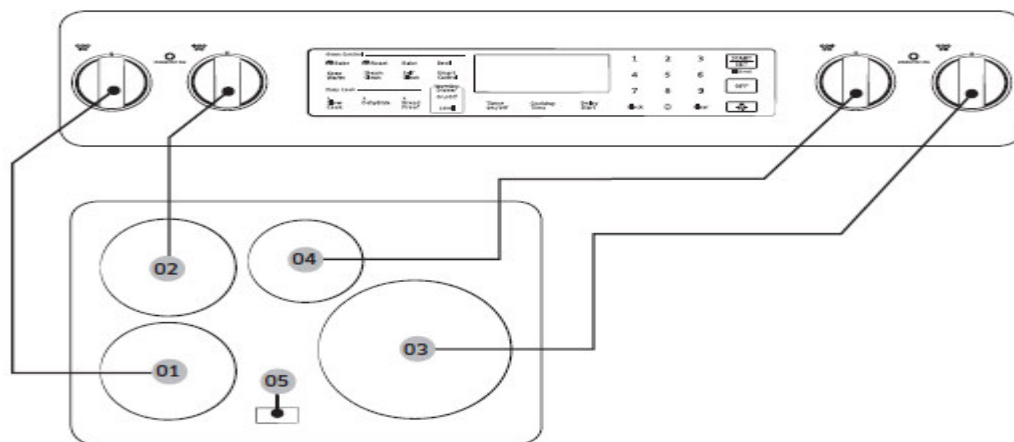
Common functions

- DISPLAY:** Shows the time of day, oven temperature, whether the oven is in the bake, broil or self-cleaning mode, and the time set for the timer or automatic oven operations.
 - ✧ : When you use the self-cleaning feature, this icon appears in the display.
 - ☁ : When you use the steam cleaning feature, this icon appears in the display.
 - ☹ : When the oven is pre-heating, this icon appears in the display.
- NUMBER PAD:** Use to set any function requiring numbers such as the time of day on the clock, the timer, the oven temperature, the start time, and length of operation for timed baking.
- CONVECTION BAKE:** Use to select the Convection bake function of the oven.

- CONVECTION ROAST:** Use to select the Convection roast function of the oven.
- BAKE:** Use to select the bake function of the oven.
- BROIL:** Use to select the broil function of the oven.
- KEEP WARM:** Use to select the keep warm function of the oven to keep cooked foods warm.
- STEAM CLEAN:** Use to select the steam cleaning function of the oven.
- SELF CLEAN:** Use to select the Self-cleaning function of the oven.
- SMART CONTROL:** Use to select the smart control feature.
- EASY COOK:** Use to recall the easy cook recipe setting of the oven.
- WARMING DRAWER:** Use to set warming drawer function of the oven.
- TIMER ON/OFF:** Use to set or cancel the minute timer. The minute timer does not start or stop cooking.
- COOKING TIME:** Press, and then use the number pad to set the amount of time you want your food to cook. The oven will shut off when the cooking time has run out.
- DELAY START:** Press to set the oven to start and stop automatically at a time you set. (Bake, Conv.bake/Roast, Cooking Time, and self clean only.)
- CLOCK:** Use to set the time of day.
- CLEAR:** Use to cancel previously entered temperature or times.
- LAMP:** Press to turn the oven light on or off.
- START/SET:** Press to start any cooking or cleaning function in the oven.
- OFF:** Press to cancel all oven operations except the clock and timer.

Functions

Control Panel - Surface cooking

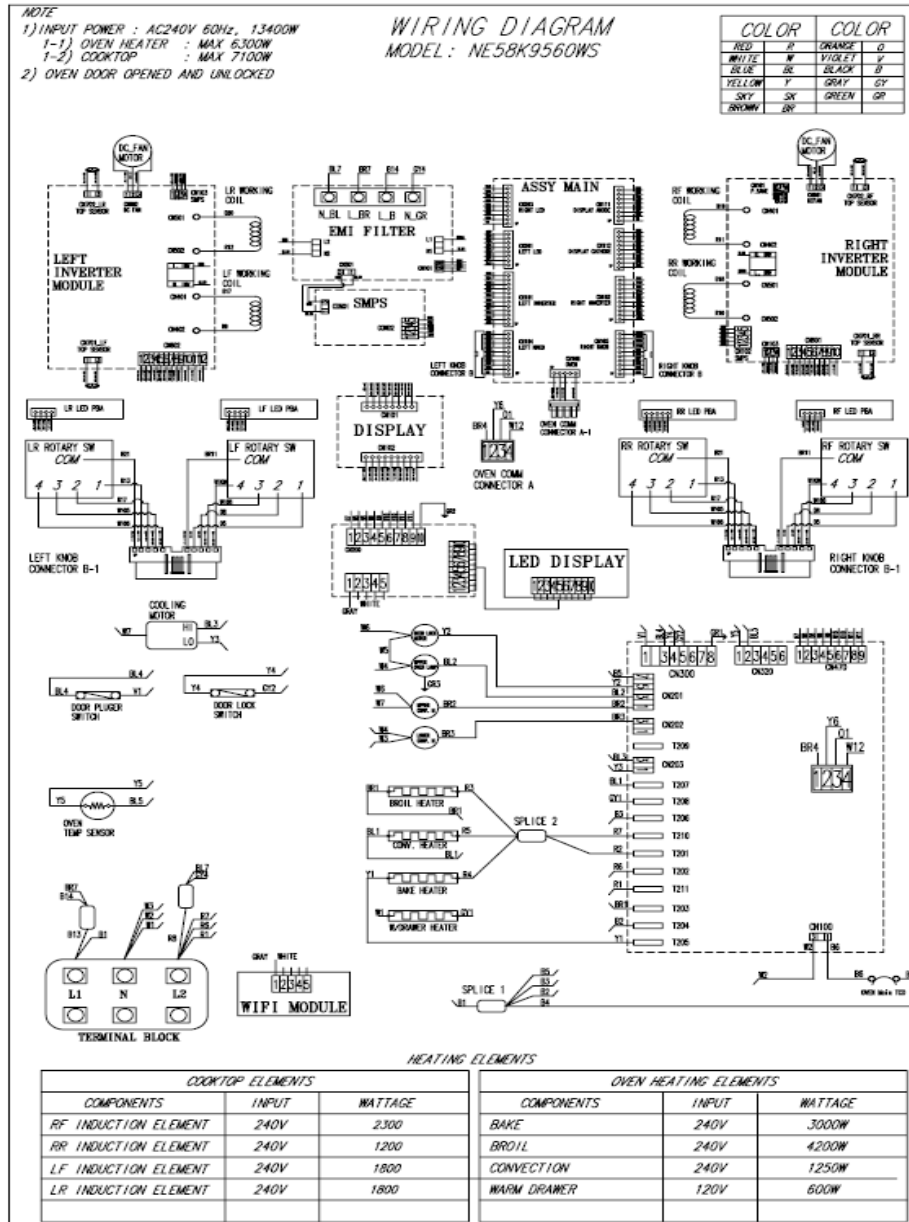


- 01** Left Front: 7", 1,800 / 2,300 W **02** Left Rear: 7", 1,800 / 2,300 W
03 Right Front: 11", 2,300 / 3,300 W **04** Right Rear: 6", 1,200 / 1,800 W
05 Digital display

Digital Display

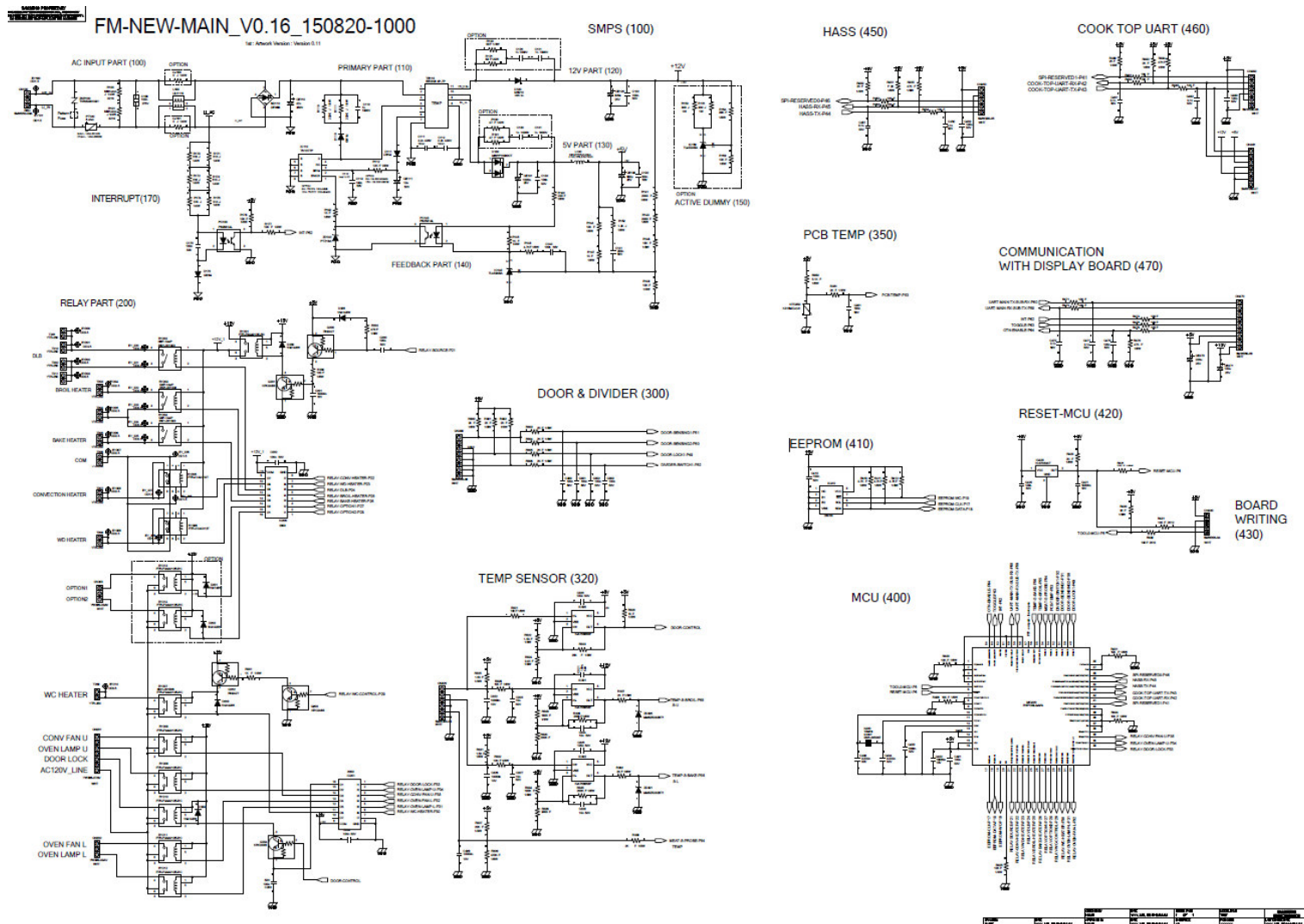
- P** Power Boost : Use this setting to heat up the contents of a pot or pan faster than the maximum power level '9' (Hi).
- Displayed if an element knob was accidentally set to an On position when the range was in Sabbath or Self-clean mode, and the Sabbath or Self-clean mode has ended or been cancelled. To return the display to normal and use the cooktop, turn the knob to the Off position.
- E1** Error message. Displayed if the induction cooktop has overheated because of abnormal operation.
Example : Operating with empty cookware
- E2** Error message. Displayed if the cookware on an element is unsuitable or too small or no cookware has been placed on the cooking zone.
- Sb, SC** Displayed when the Sabbath or Self clean mode is operation.

Wiring Diagram



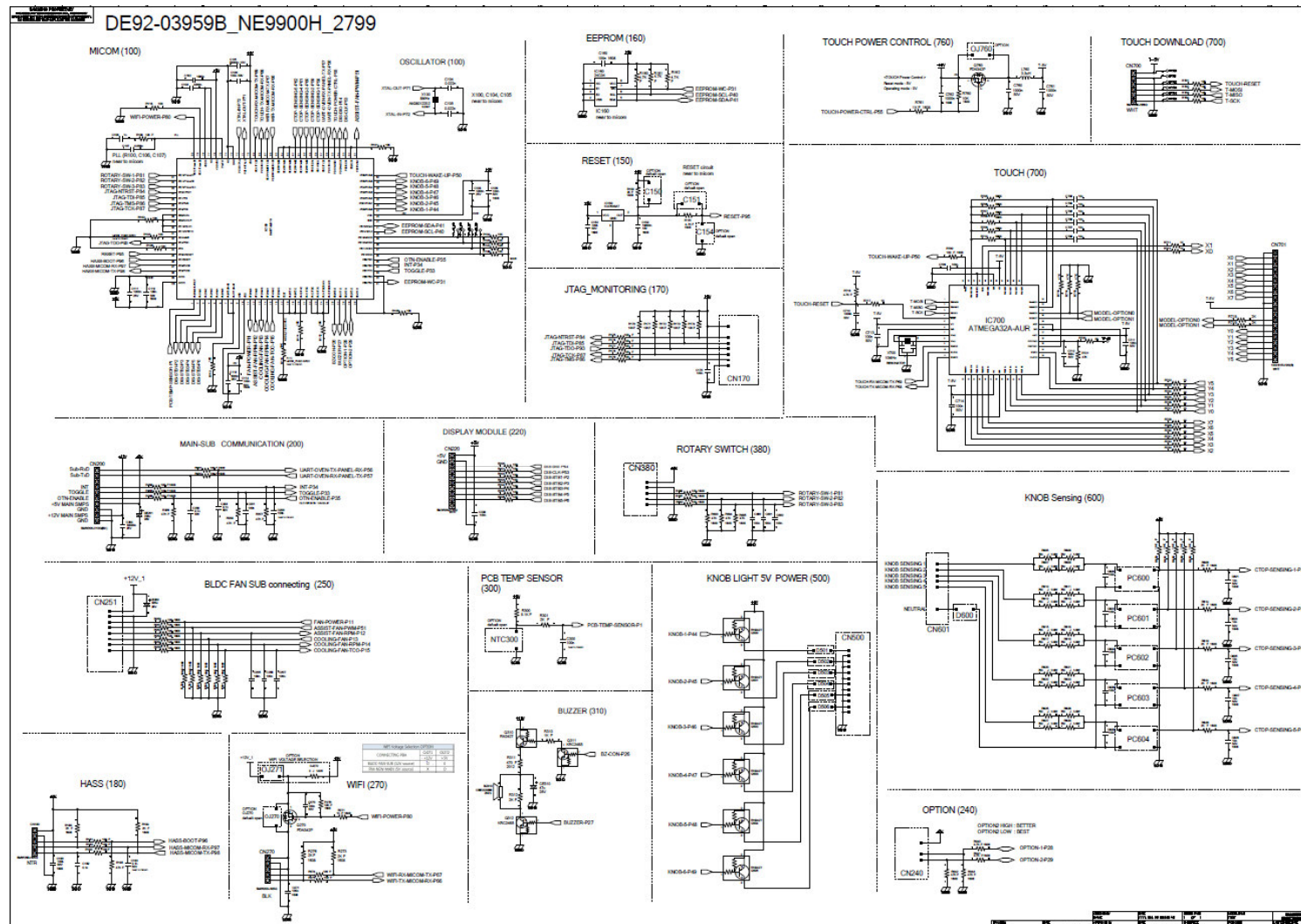
2799

Schematic



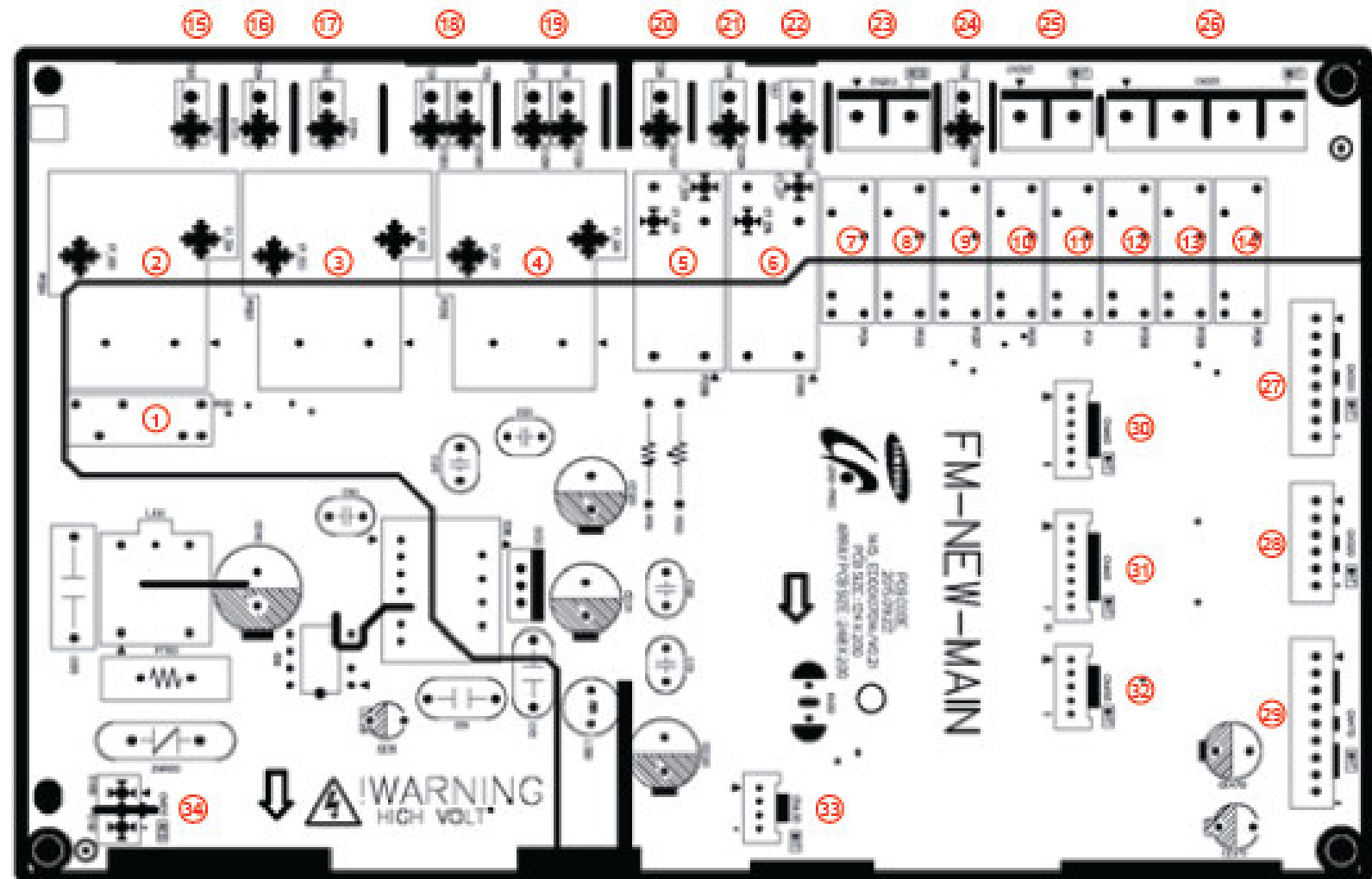
circuit

Schematic



SLIDE IN SUB

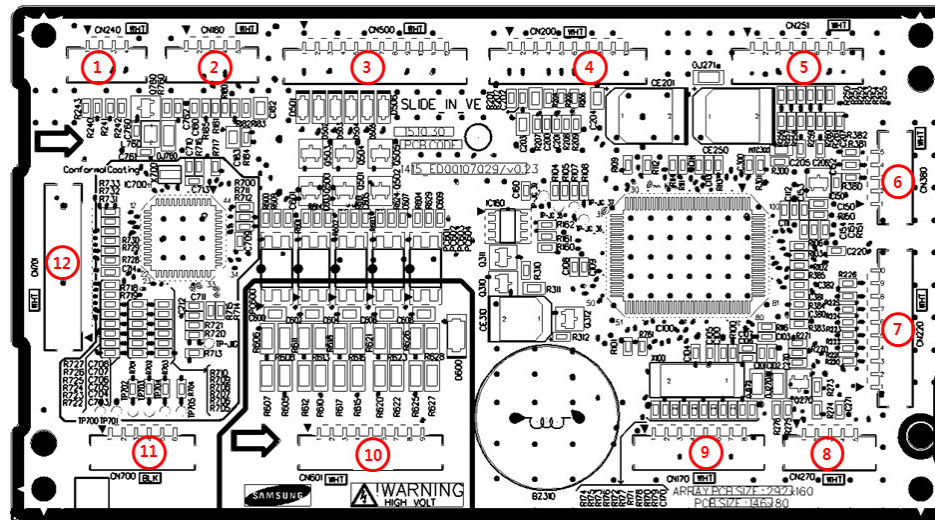
Schematic



Schematic

| | | | |
|----|-------|------------------------------|--|
| 1 | RY201 | RY-Source Relay | This is relay which control source of DLB, BAKE, BROIL, W/Drawer relay |
| 2 | RY204 | Bake-Heater Relay | 'Broil relay(Ry203), Bake relay(Ry204), convection relay(Ry205) will be on-off working by mi-com signal after DLB relay is worked. (Broil relay : It will not be problem with reversing the order in inserting Brown) (Bake relay : It will not be problem with reversing the order in inserting Blue) |
| 3 | RY203 | Broil-Heater Relay | 'Broil relay(Ry203), Bake relay(Ry204), convection relay(Ry205) will be on-off working by mi-com signal after DLB relay is worked. (Broil relay : It will not be problem with reversing the order in inserting Brown) (Bake relay : It will not be problem with reversing the order in inserting Blue) |
| 4 | RY202 | DLB Relay | Circuit is designed to have broil relay or convection relay worked after DLB relay is being worked by Double line break. (It will not be problem with reversing the order in inserting Red) |
| 5 | RY206 | Warming Drawer Heater Relay | This is Relay to control Warming Drawer-Heater. |
| 6 | RY205 | Convection Relay | 'Broil relay(Ry203), Bake relay(Ry204), convection relay(Ry205) will be on-off working by mi-com signal after DLB relay is worked. (Broil relay : It will not be problem with reversing the order in inserting Brown) (Bake relay : It will not be problem with reversing the order in inserting Blue) |
| 7 | RY214 | OPTION (Cooling Fan) | This is a spare relay. (This relay is connected with Cooling fan Lo in this model) |
| 8 | RY213 | OPTION (Cooling Fan) | This is a spare relay. (This relay is connected with Cooling fan Hi in this model) |
| 9 | RY207 | WC-Heater Relay | This is Relay to control Warming Centor-Heater. |
| 10 | RY212 | Oven-Lamp-L Relay | This is relay which is connected with Oven-Lamp-Low. |
| 11 | RY211 | Oven-Fan-L Relay | This is relay which is connected with Oven-Fan-Low. |
| 12 | RY208 | Conv-Fan-U Relay | This is relay which is connected with Conv. Fan. |
| 13 | RY209 | Conv-Lamp-U Relay | This is relay which is connected with Conv-Lamp-Upper |
| 14 | RY210 | Door Lock Relay | This is relay which is connected with door lock motor. |
| 15 | T205 | Bake Terminal | This is terminal to connect harness with Bake relay. |
| 16 | T204 | DLB Terminal | This is terminal to connect harness with DLB relay. |
| 17 | T203 | | |
| 18 | T211 | | |
| | T202 | | |
| 19 | T201 | Convection-Heater Terminal | This is terminal to connect harness with convection-heater relay. |
| | T210 | | |
| 20 | T206 | | |
| 22 | T207 | WD-Heater Terminal | This is terminal to connect harness with relay to get heater on warming drawer work. |
| 21 | T208 | | |
| 23 | CN203 | spare connector | This is for spare relays (RY213, RY214). (This connector is connected with Cooling fan in this model.) |
| 24 | T209 | WC-Heater Terminal | This is terminal to connect harness with relay to get heater on warming centor work. |
| 25 | CN202 | Relay Connector | OVEN FAN L, OVEN LAMP L |
| 26 | CN201 | Relay Connector | CONV FAN U, OVEN LAMP U, DOOR LOCK, AC120V_LINE |
| 27 | CN300 | Door Lock, Divider Connector | This is connector which is connected with Door plunge switch and Door lock switch, divider switch. |
| 28 | CN320 | Oven Sensing Connector | This connector which is connected with oven sensor. |
| 29 | CN470 | Sub Communication Connector | This is connector which is connected with Sub PCB to communicate. |
| 30 | CN460 | COOK TOP UART | (For ELEC OVEN) This is to connect Cook-Top to FM-NEW-MAIN PBA. |
| 31 | CN461 | COOK TOP UART | (For GAS OVEN) This is to connect BLDC-FAN-SUB PBA to FM-NEW-MAIN PBA. |
| 32 | CN450 | HASS | This is to connect HASS. |
| 33 | CN430 | On Board Writing Connector | When do micom revision, connect to micom writer. And this connector which is connected with Touch PCB to communicate. |
| 34 | CN100 | Power Connector | This is to supply power with SMPS. |

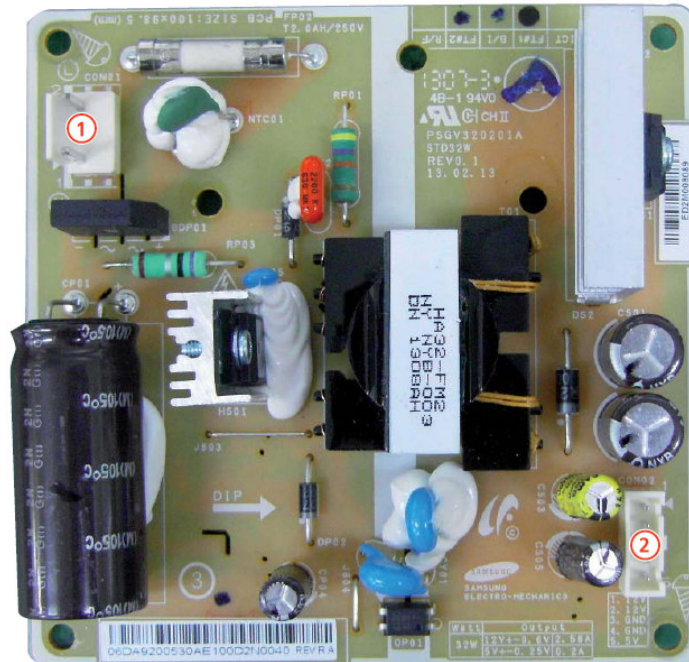
Schematic



| | | | |
|----|-------|----------------------------------|--|
| 1 | CN240 | Option Connector | This is connector to select H/W option. |
| 2 | CN180 | HASS Connector | This is connector for HASS. |
| 3 | CN500 | Knob Light 5Volt Power connector | This is connector to provide 5V power to knob light. |
| 4 | CN200 | Main Communication Connector | This is connector which is connected with Main PCB to communicate. |
| 5 | CN251 | BLDC-FAN-SUB Control Connector | This is to connect BLDC-FAN-SUB PBA. (For GAS Model) |
| 6 | CN380 | Rotary Switch Connector | This is connector for Rotary Switch. |
| 7 | CN220 | LED Module Connector | This is connector for LED Display Module. |
| 8 | CN270 | WIFI Connector | This is connector to connect WIFI Module. |
| 9 | CN170 | JTAG Monitoring Connector | This is connector for JTAG equipment. |
| 10 | CN601 | Knob sensing Connector | This is connector to check knob ON/OFF. |
| 11 | CN700 | Touch Download Connector | This is connector to download program for touch IC. |
| 12 | CN701 | Touch Film Connector | This is to connect Touch-Film. |

Schematic

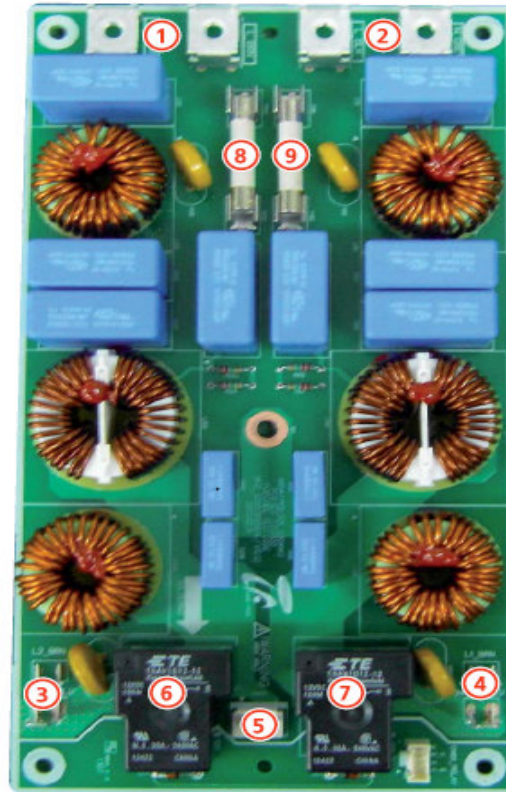
PCB Diagrams (SMPS PCB)



Explanation of the function of primary parts.

| NO. | Parts Number | Part Name | Function and Role |
|-----|--------------|---------------------|--------------------------------|
| 1 | CON01 | AC Input connector | AC Voltage input of SMPS PCB |
| 2 | CON02 | DC Output connector | DC 12V, 5V supply to other PCB |

PCB Diagrams (Filter PCB)



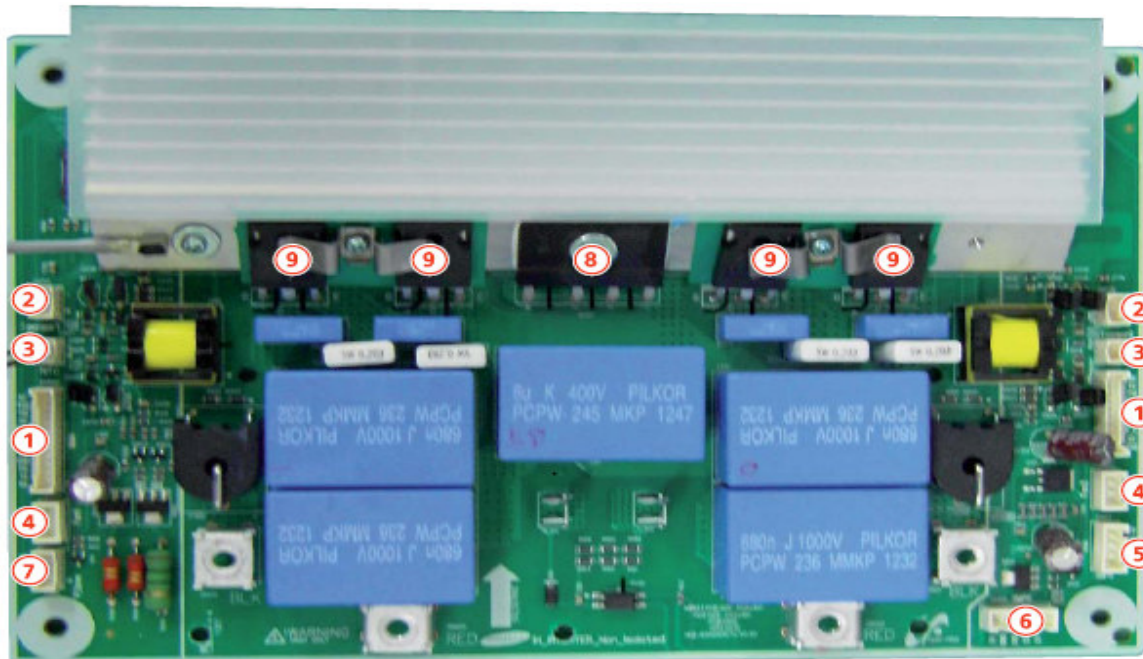
Explanation of the function of primary parts.

| NO. | Parts Number | Part Name | Function and Role |
|-----|-------------------|--------------------|---|
| 1 | L_BRN, N_SKYBLU | AC Input connector | AC Input connector for Left line of Filter PCB |
| 2 | L_BLK, N_GREY | AC Input connector | AC Input connector for Right line of Filter PCB |
| 3 | L2_BRN, N2_SKYBLU | AC Input connector | AC Output connector for Left side Inverter PCB |

Schematic

| NO. | Parts Number | Part Name | Function and Role |
|-----|-------------------|--------------------|---|
| 4 | L1_BRN, N1_SKYBLU | AC Input connector | AC Output connector for Right side Inverter PCB |
| 5 | CN201 | AC Input connector | AC Output connector for SMPS PCB |
| 6 | RY 201 | Main Relay | Relay for Left side Inverter PCB power source |
| 7 | RY101 | Main Relay | Relay for Right side Inverter PCB power source |
| 8 | - | Main Fuse | Fuse for Left side Inverter PCB power source |
| 9 | - | Main Fuse | Fuse for Right side Inverter PCB power source |

PCB Diagrams (Inverter PCB)



Explanation of the function of primary parts.

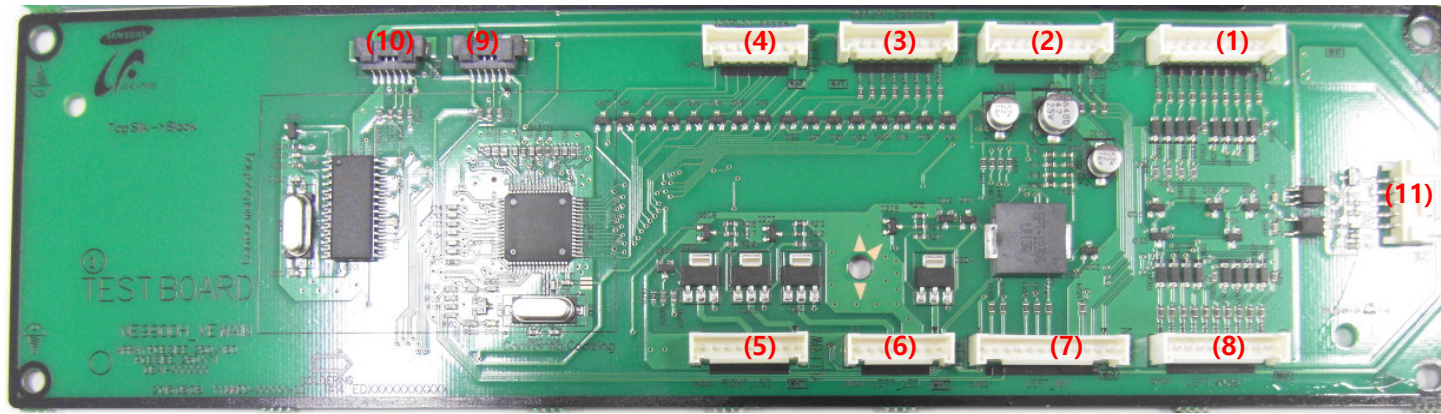
| NO. | Parts Number | Part Name | Function and Role |
|-----|--------------|----------------------------|--------------------------------|
| 1 | CN601, CN602 | Control PCB wire connector | communication with Control PCB |
| 2 | CN701, CN702 | Top-Sensor wire connector | Connector Top-Sensor wire |
| 3 | CN703,N704 | IGBT-Sensor wire connector | Connector IGBT-Sensor wire |

PCB Diagrams (Inverter PCB)

| NO. | Parts Number | Part Name | Function and Role |
|-----|--------------------------|---------------------------|--|
| 4 | CN901, CN902 | DC Motor wire connector | Connector DC Motor wire |
| 5 | CN103 | Inverter wire connector | Connector Left Inverter PBA and Right Inverter PBA |
| 6 | CN102 | SMPS PBA wire connector | Connector SMPS PBA's DC supply voltage |
| 7 | CN101 | Filter PBA wire connector | Connector Right Inverter PBA and Filter PBA for Main Relay operation |
| 8 | BD101 | Bridge Diode IC | Full-Bridge rectifier IC |
| 9 | Q401, Q402 Q501, Q502 | IGBT IC | High frequency switching IC |

Schematic

PCB Diagrams (Main Control)



Explanation of the function of primary parts.

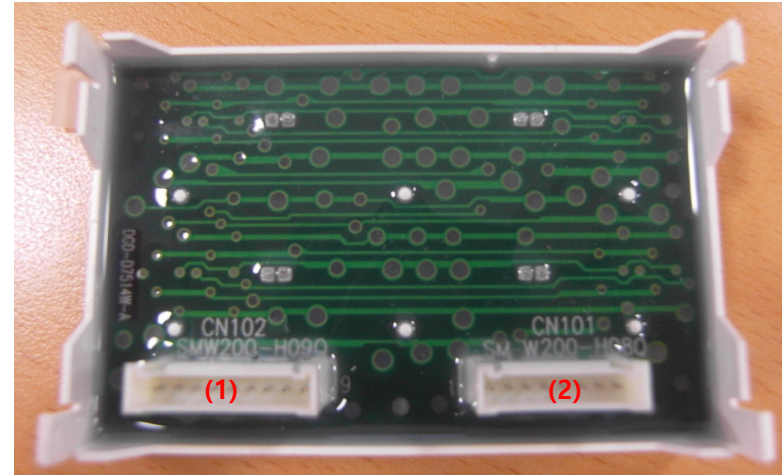
| NO. | Parts Number | Part Name | Function and Role |
|-----|--------------|----------------------------------|---|
| 1 | CN105 | Right Knob wire connector | Connect RF, RR burner control knob wire |
| 2 | CN101 | Right Inverter wire connector | Communication with right inverter PBA |
| 3 | CN112 | 7-segment Cathode wire connector | 7-segment(88) display assy led cathode control wire |
| 4 | CN111 | 7-segment Cathode wire connector | 7-segment(88) display assy led anode control wire |
| 5 | CN203 | Right LED wire connector | Connect RF,RR burner control knob wire |

Schematic

| NO. | Parts Number | Part Name | Function and Role |
|-----|--------------|------------------------------|--|
| 6 | CN201 | Left LED wire connector | Connect LF,LR burner control knob wire |
| 7 | CN102 | Left Inverter wire connector | Connect RF,RR burner control knob wire |
| 8 | CN104 | Left Knob wire connector | Connect LF,LR burner control knob wire |
| 9 | CN103 | MCU writing connector | Main MCU writing |
| 10 | CN202 | LED IC writing connector | LED driver IC writing |
| 11 | CN106 | Oven wire connector | UART communication with oven |

Schematic

PCB Diagrams (88Segment)







Explanation of the function of primary parts.

| NO. | Parts Number | Part Name | Function and Role |
|-----|--------------|----------------------------------|---|
| 1 | CN102 | 7-segment Cathode wire connector | 7-segment(88) display assy led cathode control wire |
| 2 | CN101 | 7-segment Anode wire connector | 7-segment(88) display assy led anode control wire |
| 3 | - | Film | Scratch proof film (remove before assemble) |

Disassembly

Tool for assembly and disassembly

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

COVER-BACK MAIN WIRE

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 9 screws from the Cover-back main wire.



Cover-Back
Main Wire

WARNING

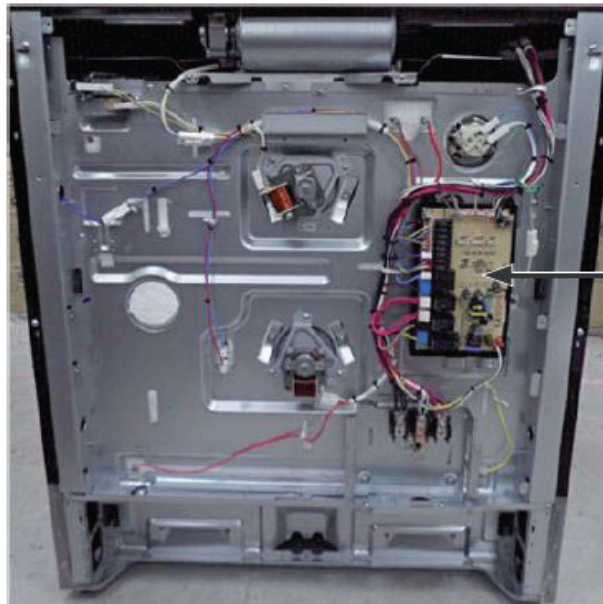
Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

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.

Disassembly

PCB MAIN



PCB-Main

WARNING

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

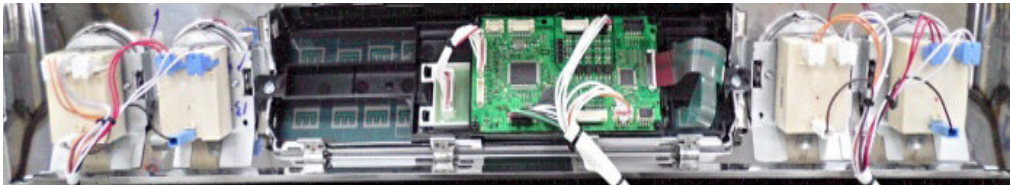
CAUTION

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.

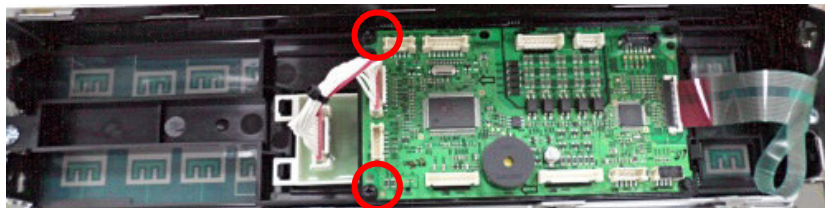
1. Turn off the electrical supply going to the range.
2. Pull the range away from the wall so that you can access the rear panel.
3. Remove cover back main wire.
4. There is 1 PCB on the rear of the range.

Disassembly

SUB PCB



1. Turn off the electrical supply going to the range.
2. Remove 4 screws under the control box.
3. Remove connector on SUB PCB.



4. Remove 2 screws.

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.

Disassembly

Assy-Cook top

CERAMIC GLASS COOKTOP REMOVAL

1. Unplug the cord or disconnect power
2. Open oven door and remove the 4 screws located at the under control box, then close the door.
3. Disconnect 6 wire harness connectors. Then remove the 2 screws.
4. Be careful to locking, please lift in the direction of the arrow control box.
5. Remove 2 screws at the rear (Right, Left)
6. Remove cover back main wire.

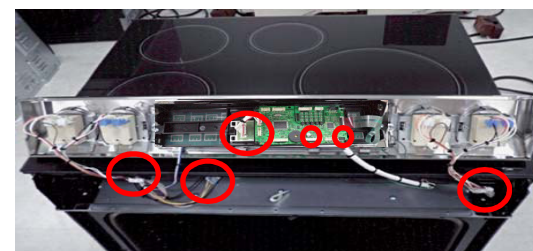


WARNING

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.



Disassembly

Removing-Cook top

WARNING

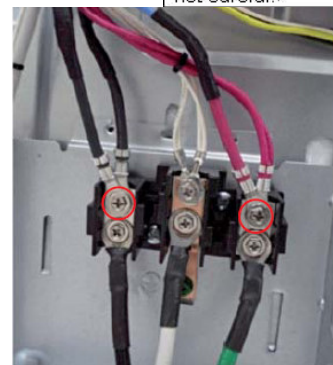
Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

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.

SURFACE ELEMENTS AND CERAMIC GLASS COOKTOP

6. Remove the cover main and cover back guard wire.
7. Slightly lift up.
8. Remove 3 screw both side of Bracket mountain.



Attention

The Ceramic Glass may break if you use force especially on the edge.

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 in to the cooktop

Disassembly

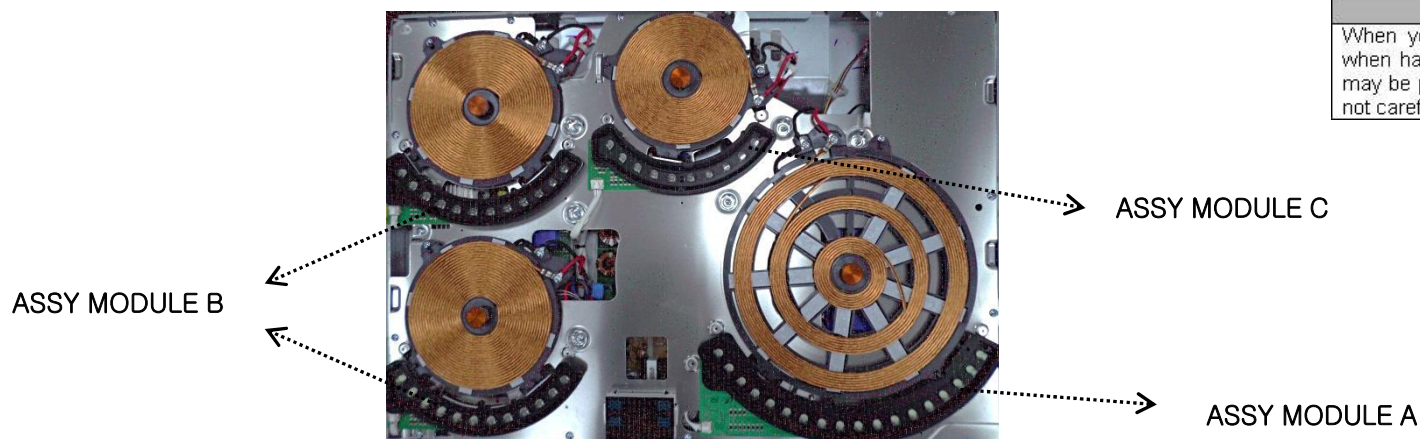
Replacement of the Assy Module, Assy- Working Coil

WARNING

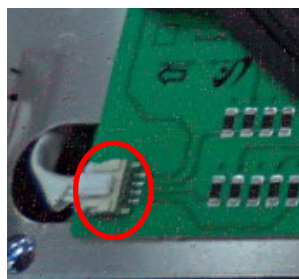
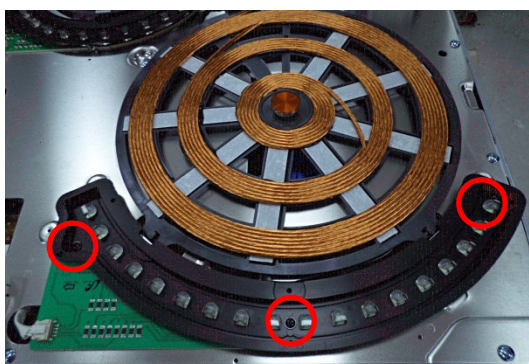
Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

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.



Assy Module



1. Remove the 3 screws and then disconnect wire located on the LED light PCB.

Disassembly

Replacement of the Assy Module, Assy- Working Coil



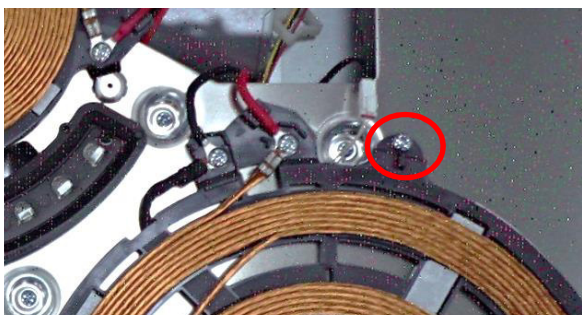
WARNING

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.

Assy Working Coil

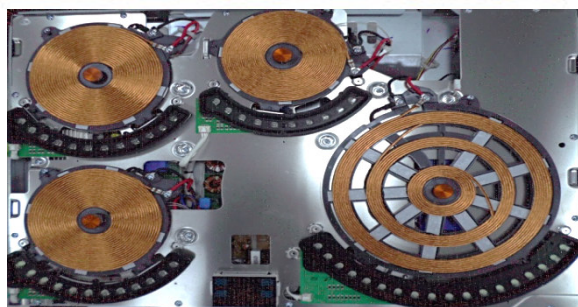
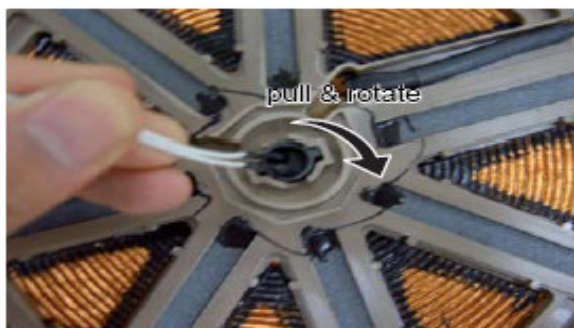
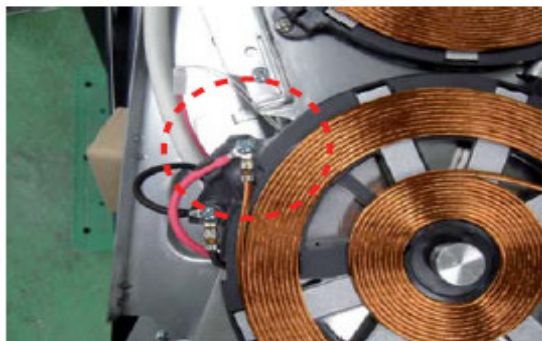


1. Remove the 1 screw to replace Assy-Working Coil.

Disassembly

Replacement of the Assy Module, Assy- Working Coil

Assy Working Coil



2. Disconnect all lead wires from the Assy-Working Coil.

3. For the replacement of Sensor-Top, pull the Sensor-Top toward bottom side.

4. Rotate the Sensor-Wire by 90degree until the Sensor-Top can be remove from the Coil-Working.

5. After replacement, connect the Sensor-Top and all lead wires.

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.

Warning

Wire connecting position is very important. Please pay attention to the routing of the wires.

Disassembly

Replacement of the Assy-Induction Module

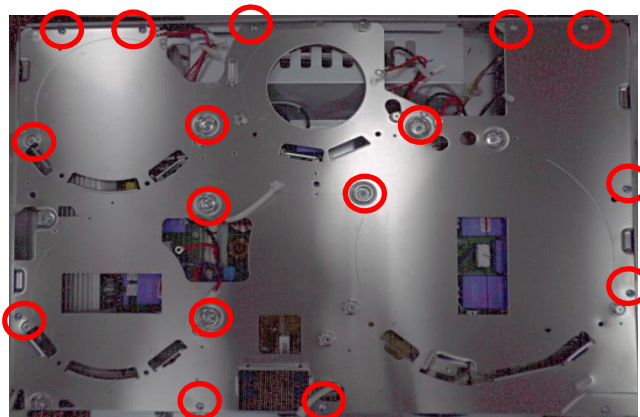
WARNING

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

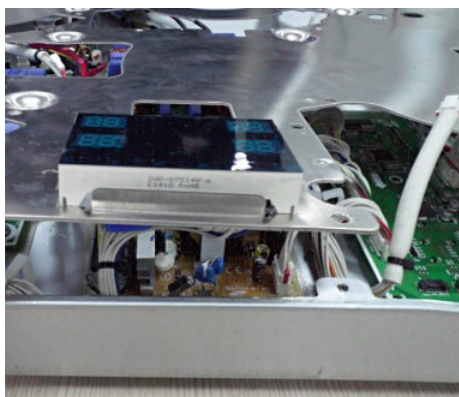
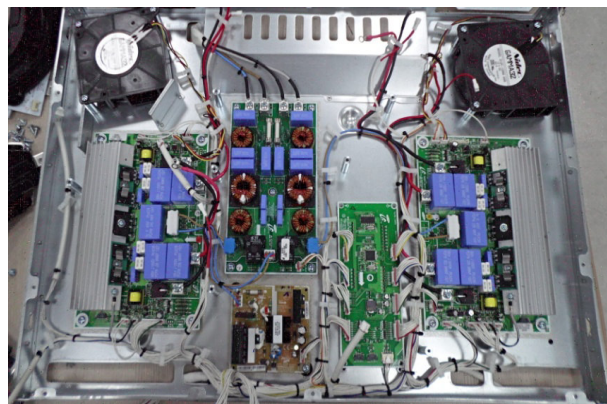
CAUTION

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.

Assy-Induction Module



1. Remove 16 screws on Case-Induction.



2. Lift up the case induction, and disconnect 2 wires On the 88 segment.

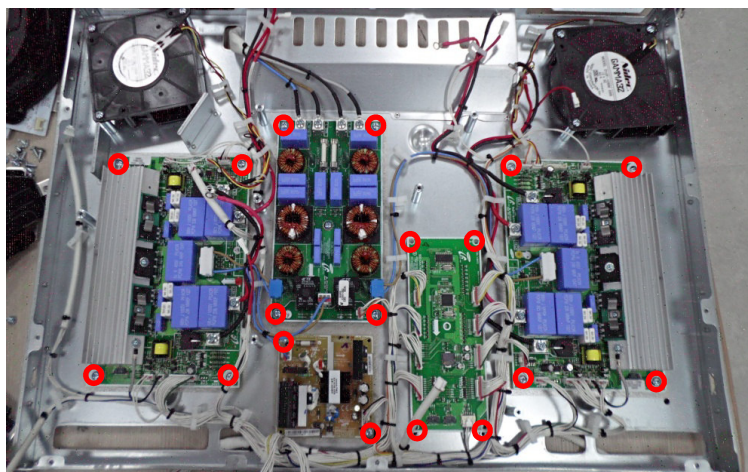
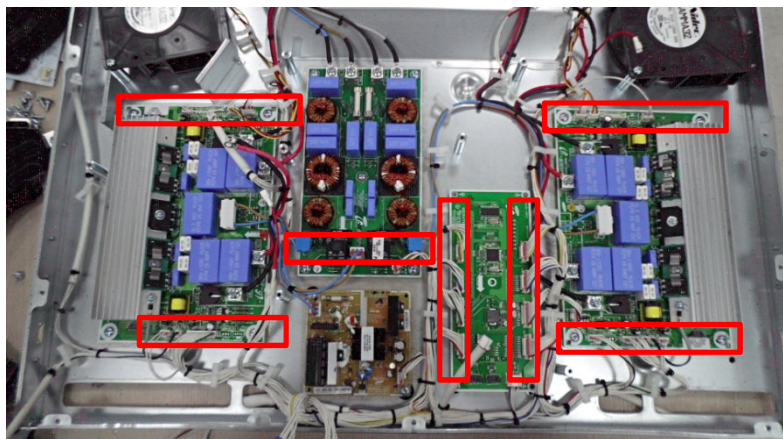
Warning

Wire connecting position is very important. Please pay attention to the routing of the wires.

Disassembly

Replacement of the Assy-Induction Module

Assy-Induction Module



3. Remove the sub wire of Communication and Inverter.

4. Remove the 18 screws.

5. Lift up PCB

WARNING

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

CAUTION

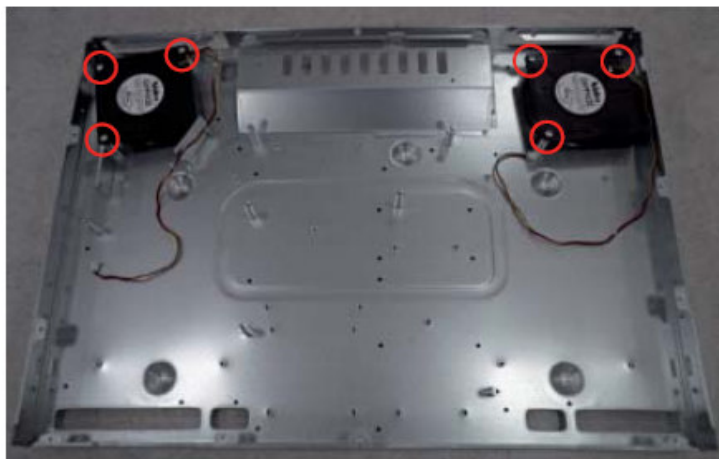
When you work on the electric range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

Warning

Wire connecting position is very important. Please pay attention to the routing of the wires.

Replacement of the Assy-Induction Module

Assy-Induction Module



6. Remove the 6 screws.



7. Lift up Fan motor.

WARNING

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

CAUTION

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Disassembly

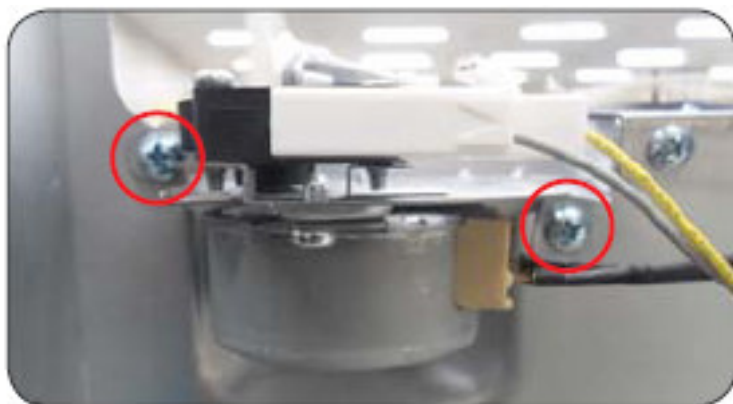
LATCH-DOOR AND SWICH-DOOR PLUNGER

- 1> Turn off the electrical supply going to the range.
- 2> Open the oven door.
- 3> Raise the cooktop
- 4> To remove the door latch:

a) Remove two screws from the front of cavity.



b) Remove two screw from Cover-Back Guard and remove latch-door.



WARNING

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

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.

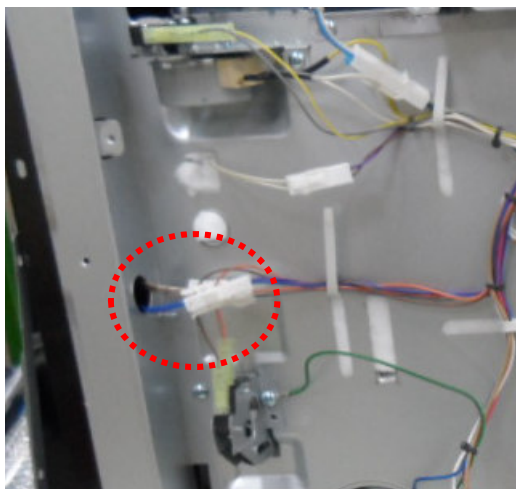
LATCH-DOOR AND SWITCH-DOOR PLUNGER

WARNING

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

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.



To Remove the Switch-Door Plunger

- 1> Remove The Cover-Back Guard wire.
- 2> Release the connector.
- 3> Remove the Switch –Door Plunger from the range. Take out carefully with shaking up and down by using tool

Disassembly

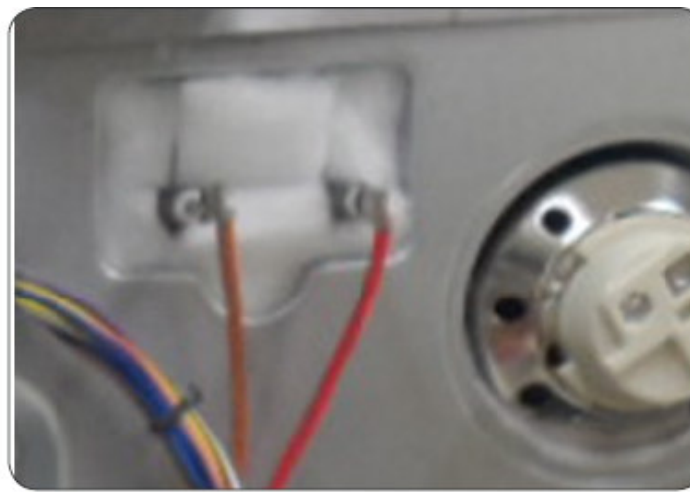
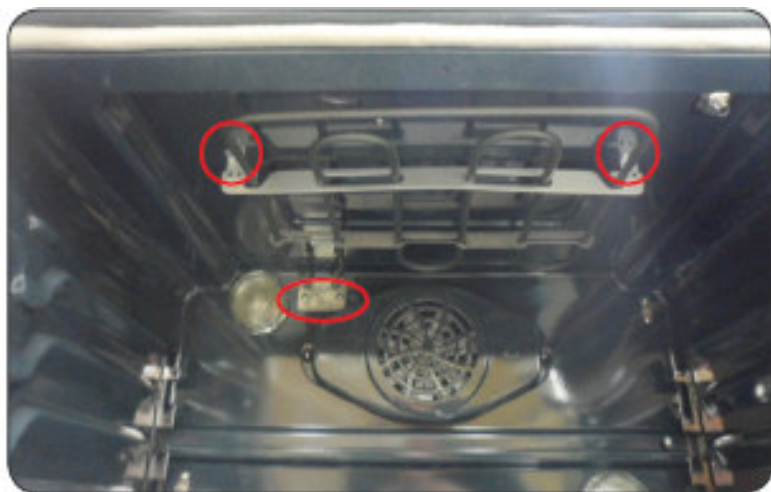
HEATER-BROIL

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

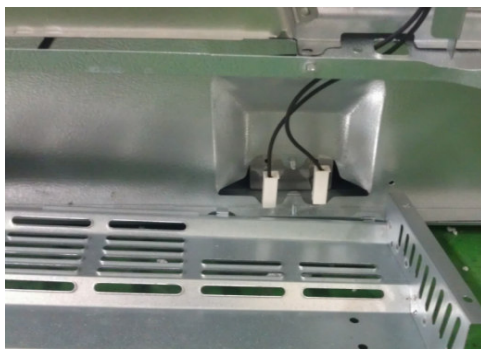
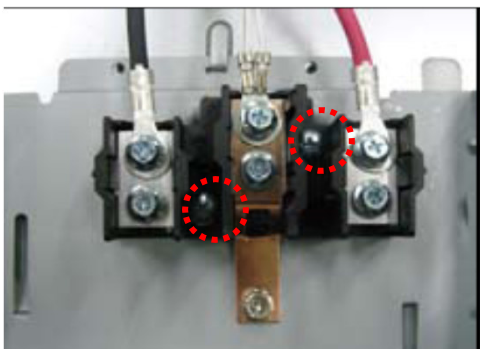
When you work on the electric range, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.



- 1> Turn off the electrical supply going to the range.
- 2> Open the oven door and remove the racks from inside the oven.
- 3> Remove oven from its mounting location and remove the rear cover.
- 4> Remove the two wires from the broil element.
- 5> Remove the four screws that are securing the broil element to the cavity. Remove the broil element.

Disassembly

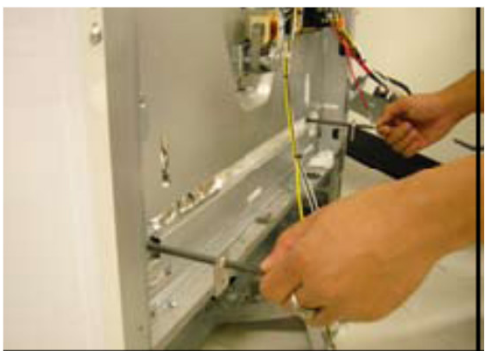
HEATER-BAKE



- 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.
- 4> Remove Terminal-Block and Bracket-Cover Access (with Adiabatic-Terminal) by unscrewing the 3 screws.
- 5> Disconnect the 2 wires from warming drawer heating element.
- 6> Remove the duct by unscrewing 4 screws.

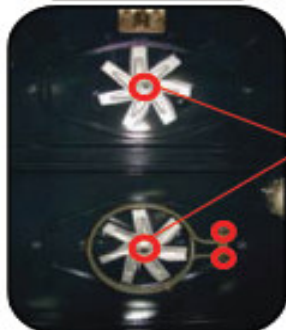


- 7> Remove the 2 screws securing the Heater-Bake.
- 8> Cut the insulation on the lower side.
- 9> Carefully pull out Heater-Bake and replace it.



Disassembly

CONVECTION ELEMENT



Bracket convection heater



- 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.
- 4> Remove oven door.
- 5> Unscrew 2 screws and remove Cover-Casing
- 6> Unscrew 2 screws and remove Bracket-convection heater to remove Heater-Convection.
- 7> Unscrew nut of Fan-Convection, and 2 Fan-Convection.
- 8> Unscrew 3 points and disconnect a Motor-Convection wire and disconnect Heater-Convection wire.

Disassembly

Lamp

To replace bulb and bulb cover

- 1> Disconnect power.
- 2> Remove oven door.
- 3> Turn the glass bulb cover in the back of the oven counterclockwise to remove.
- 4> Turn bulb counterclockwise to remove from socket.
- 5> Replace bulb and cover by turning clockwise.



To replace socket assembly

- 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 e socket),
and pull the socket out of the liner. Push the socket out from the back of the unit.



WARNING

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CAUTION

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TEMPERATURE SENSOR



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.

- 1> Turn off the electrical supply going to the range and remove the oven from its mounting location.
- 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.

Disassembly

WARMING DRAWER

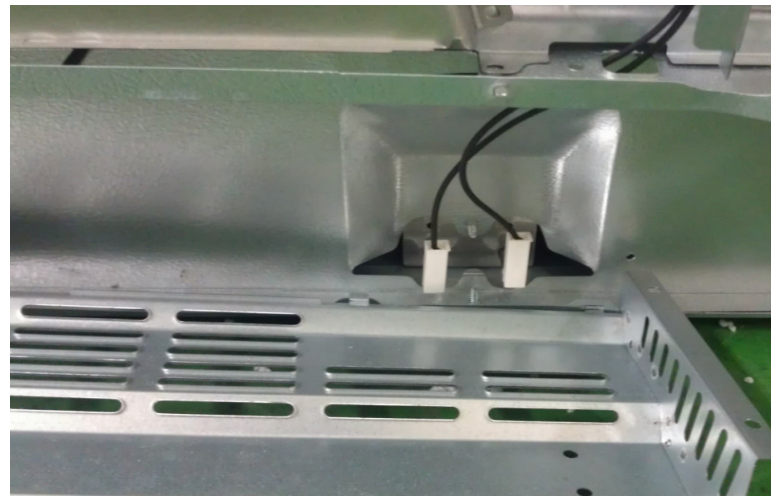


To remove Assy-Drawer:

- 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.

Disassembly

HEATER - WARMING DRAWER



To remove Heater-Warming Drawer:

- 1> Remove two screws from Bracket - Warming Heater.
- 2> Remove Cover-Warming Heater and disconnect 2 wires.
- 3> Pull out the Heater-Warming Drawer.

Disassembly

OVEN DOOR



To remove Oven Door:

- 1> Fully open the door
- 2> Pull the hinge locks downward
- 3> Firmly grasp both side of the door at the top.
- 4> Close door to the door removal position, which is approximately 5 degrees. Lift door up and out until the hinge arm are clear of the slot.



To replace door:

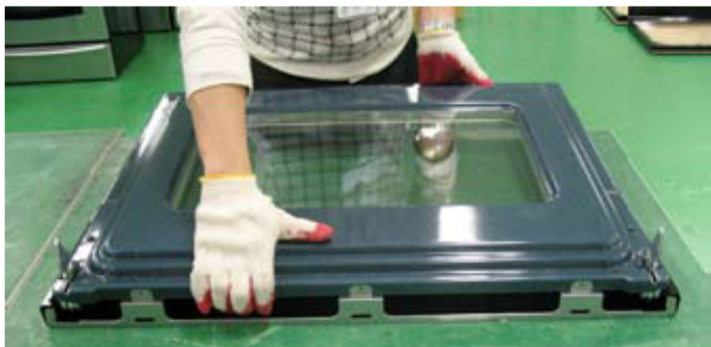
- 1> Firmly grasp both sides of the door at the top position.
- 2> Fully open the door.
(If the door will not fully open, it means that the indentation is not seated correctly in the bottom edge of the slot. Push the hinge locks up to the locked position.)
- 3> Close the oven door.

Disassembly

HANDLE-DOOR AND GLASS-INNER



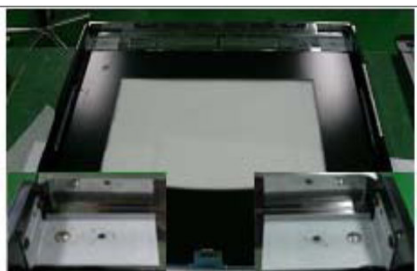
- 1> Remove the oven door from the range
- 2> Place the oven door on a padded work surface with the front glass facing down.
- 3> Remove 3 bottom screws from the door.
- 4> Remove 2 Handle-screws from the door.



- 5> Lift the door rear assembly off the front assembly and set it aside
- 6> Remove 2 spacers and 2 screws.

Disassembly

HANDLE-DOOR AND GLASS-INNER



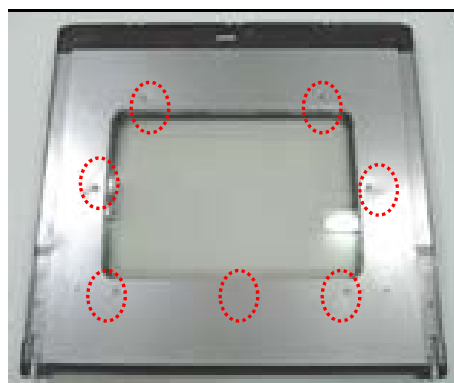
To remove Handle-Door

- 1> Remove 2 screws to remove Handle- Door



To remove Glass-Inner

- 1> Remove 6 screws from rear side of door to remove 2 Hinge-Door.
- 2> Remove 4 screws next remove Glass- Inner Sub Assembly
- 3> Remove 7 screws next remove Baffle- Door



Disassembly

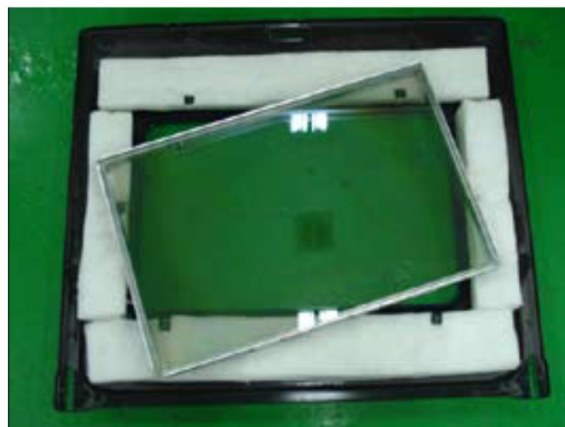
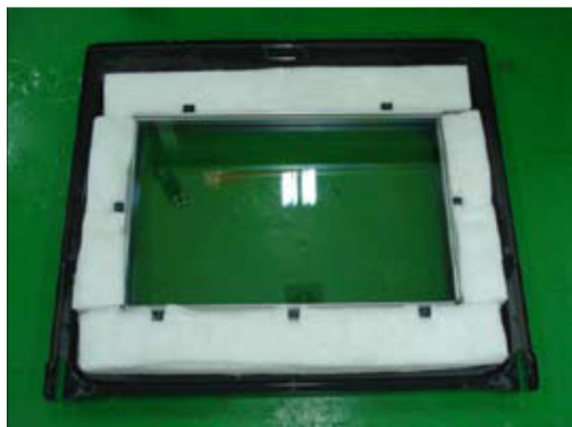
HANDLE-DOOR AND GLASS-INNER

WARNING

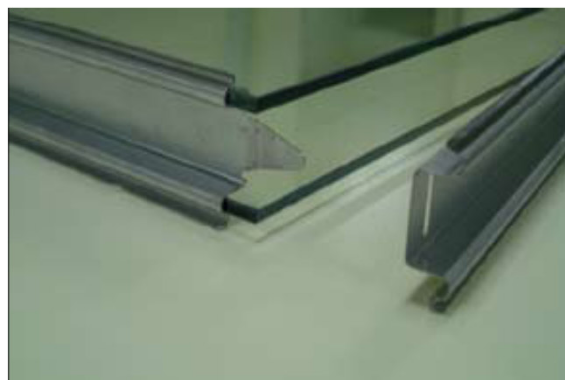
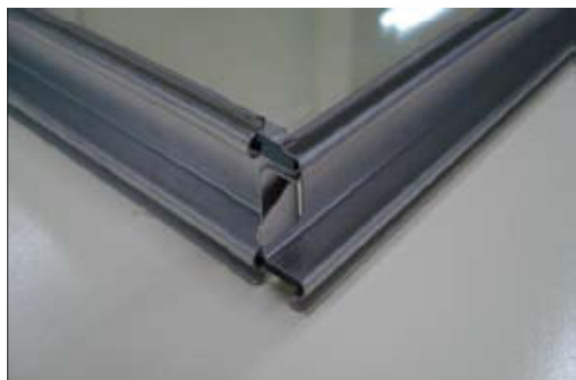
Disconnect power before servicing the range. Replace all panels before operating range. Failure to do so can result in death or electrical shock.

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.



4> Remove Baffle-Door and take out the Glass-Inner assembly.



5> Unfold 2 flanges of Cover-Frame Inner Glass to taking out Glass-Inner

Disassembly

GASKET-DOOR

WARNING

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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.



- 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.

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.

Disassembly

PANEL-SIDE

WARNING

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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.



Panel Side

- 1> Turn off the electrical supply.
- 2> Remove the oven door from the range
- 3> 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 Cooktop.
- 5> Remove the (each) 3 screws 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.

Disassembly

Wi-Fi module



WARNING

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

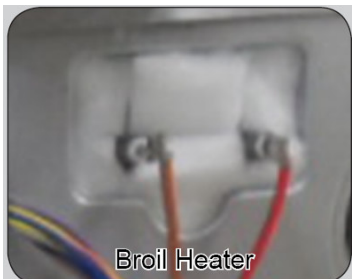


CAUTION

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.

- 1> Turn off the electrical supply.
- 2> Remove the drawer from the range.
- 3> Remove the 2 screws from the drawer pedestal front and take off holder Wi-Fi.
- 4> Remove the cover Wi-Fi (rubber).
- 5> Tilt the hook on the holder and take off Wi-Fi module.
- 6> Remove connector on Wi-Fi module.


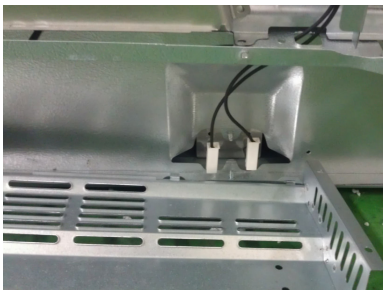
Trouble Shooting

Parts Checking Method

| FIGURE | TESTS MEASURE | RESULTS |
|---|--|--|
|  <p>Broil Heater</p> <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 : 12 ~ 14Ω (at the room temperature) * Terminal voltage of Broil heater : AC 240V * Replace or repair harness |
|   <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 : 17 ~ 19Ω (at the room temperature) * Terminal voltage of bake heater : AC 240V * Replace or repair harness |

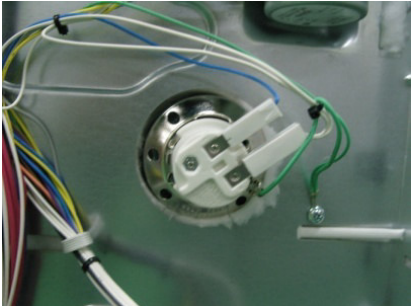

Trouble Shooting

Parts Checking Method

| FIGURE | TESTS MEASURE | RESULTS |
|--|---|--|
|  < Convection Heater > | <ul style="list-style-type: none"> * Measure the resistance values of heater's terminal after taking off harness from heater. * Measure the voltage of heater's terminal after having oven worked, by pressing convection bake keypad. (Make sure that voltage has to be measured for more than 1 minute because heater is supposed to on-off cycling work. | <ul style="list-style-type: none"> * Approx : 70 ~ 73Ω(at the room temperature) * Terminal voltage of convection heater : AC 240V * Replace or repair harness * Replace or repair Assy Display |
|  < Drawer Heater > | <ul style="list-style-type: none"> * Measure the resistance of values of heater, after taking off harness from heater. * Measure the terminal voltage of heater after making oven work by pressing warming drawer keypad. | <ul style="list-style-type: none"> * Approx : 22 ~ 25Ω (at the room temperature) * Terminal voltage of Drawer heater : AC 120V * Replace or repair harness * Replace or repair Assy Display |



Trouble Shooting

Parts Checking Method

| FIGURE | TESTS MEASURE | RESULTS |
|---|--|---|
|  <p>< Oven lamp ></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 : Ω * Terminal voltage of lamp socket : 120V * Replace or repair harness. * Replace or repair main 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 : 2500 ~ 2700Ω (at the room temperature) voltage : 120V * Micro switch COM-NO * Replace or repair if harness has been loosen or disconnected. |



Trouble Shooting

Parts Checking Method

| FIGURE | TESTS MEASURE | RESULTS |
|--|---|--|
|  < Upper fan-convection > | <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.) | Approx * Convection Fan : 20 ~ 30Ω * Terminal Voltage of Convection Fan : 120V * Replace or repair harness * Replace or repair main PCB. |
|  < Lower fan-convection > | | |



Trouble Shooting

Parts Checking Method

| FIGURE | TESTS MEASURE | RESULTS |
|---|--|---|
|  <p>< Oven sensor ></p> | <p>*Check whether the resistance values of oven sensor is same with a chart's one .</p> <p>* Check whether wire or housing has been loosen or disconnected .</p> | <p>Approx * at the room temperature :1080Ω .</p> |
|  <p><Door Plunger Switch></p> | <p>*Check the state of working of switch .</p> <p>*Make sure whether wire, housing and terminal is connected with switch has been damaged or not .</p> | <p>Normal open : 0Ω Normal close : ∞Ω</p> <p>* Replace or repair if wire or terminal has been damaged .</p> |

Trouble Shooting

Parts Checking Method

| FIGURE | TESTS MEASURE | RESULTS |
|--|--|---|
|  < Sensor-Top> | <ul style="list-style-type: none"> * Check whether the resistance values of sensor are correct. * Check whether wire or housing has been loosen or disconnected. | Approx at the room temperature : $7.65K\Omega \sim 9.34K\Omega$ |
|  < Coil -Working> | <ul style="list-style-type: none"> * Check whether the resistance values are correct. | Approx at the room temperature : $0.01\Omega \sim 1\Omega$ |

Trouble Shooting

Failure Display Codes

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

1. Touch 'Clock' key.



2. Touch a number '1,2,3,4' keys.



3. Touch 'START/SET' key.



4. Touch 'Clock' and 'Num 1' keys at the same time for 3 seconds. Check codes are displayed.



5. Touch number '0' key, the last 5 check codes can be checked.

But, if the oven turns off, the stored check codes are deleted.
6. Touch 'OFF' key to return to normal display mode.

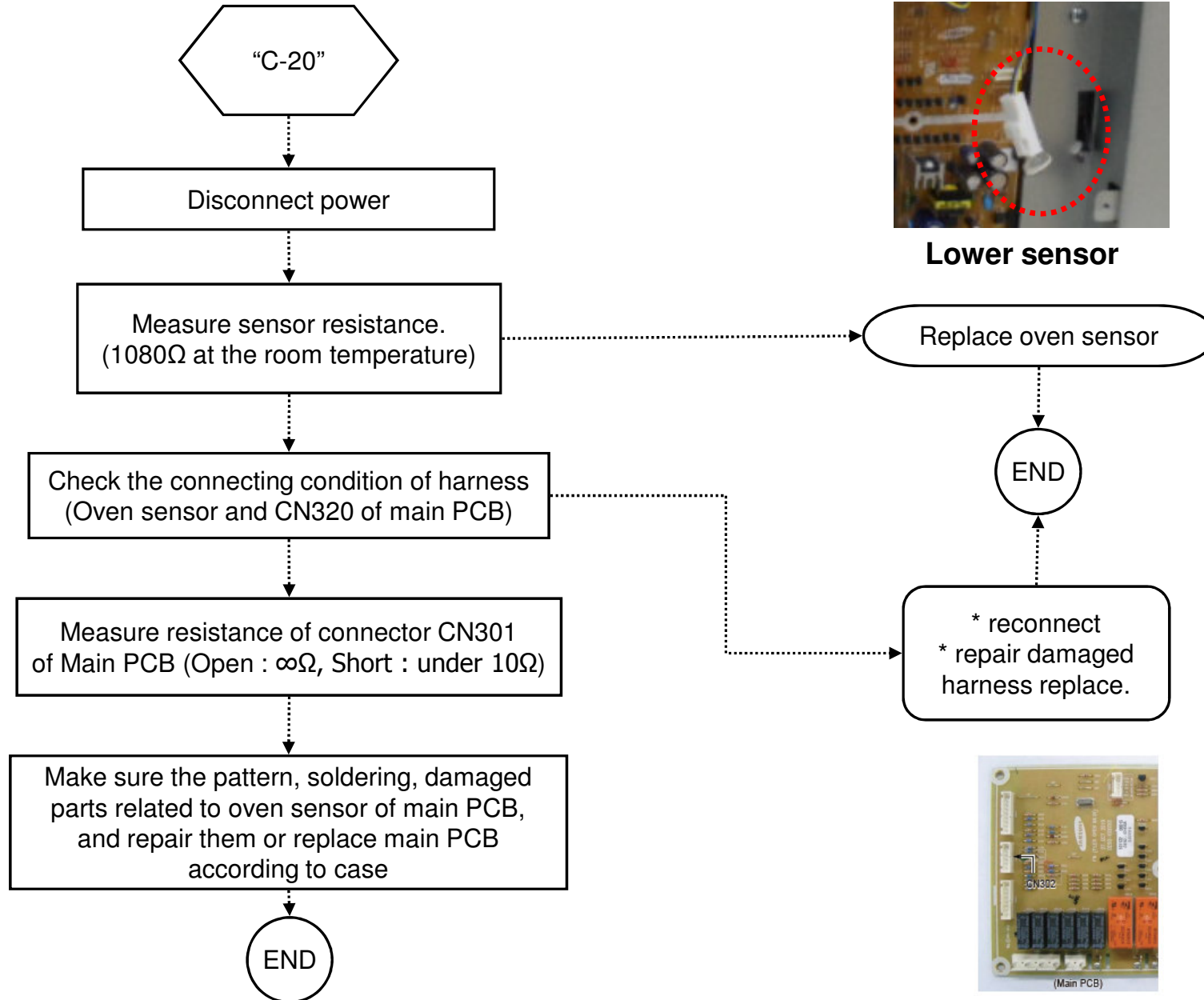


Trouble Shooting

Sensor

| Failure code | CAUSE | SOLUTION |
|--------------|----------------------|--|
| C-20 | Oven sensor opened | <ol style="list-style-type: none">1. Check whether connector at the main PCB has been inserted.2. Check whether connector at the sensor has been inserted.3. If connectors at the main PCB and the sensor are inserted correctly, replace the temperature sensor.4. If the problem is still not solved, replace the main PCB. |
| | Oven sensor shorted. | |

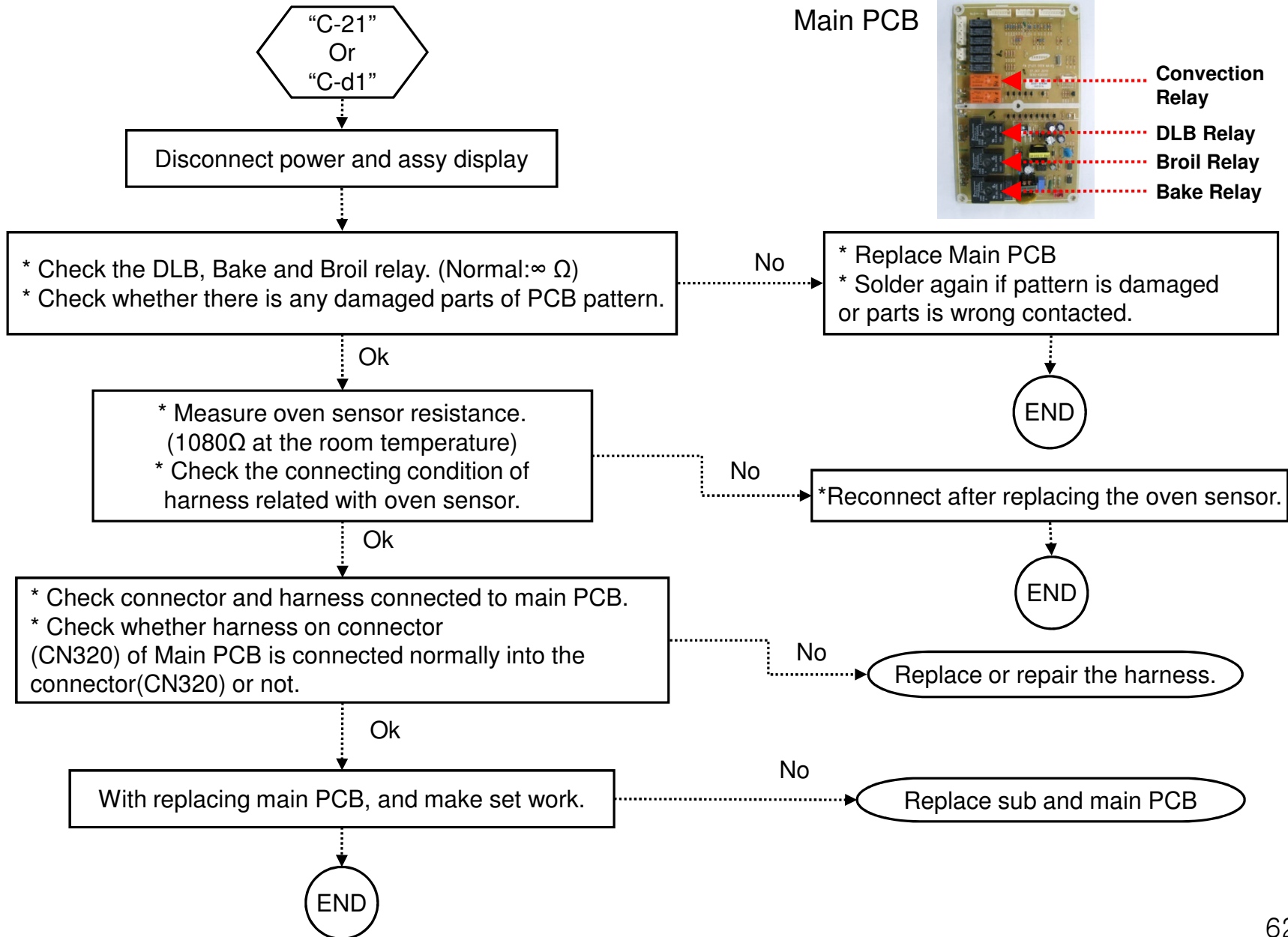
Trouble Shooting



Trouble Shooting

| Failure code | CAUSE | SOLUTION |
|--------------|-------------------|--|
| C-21 | Oven heating over | <p>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 .</p> <p>2 . Check the broil, bake and convection heater . Check the resistance of the each heater .</p> <p>3 . Check whether DLB of sub PCB, Broil, Bake and Convection heater relay are being worked normally .</p> <p>4 . Check whether there is any disconnection of harness which is linked with main PCB on main PCB .</p> <p>5 . Check the resistance of oven sensor connector on main PCB . (Normal : 2850Ω)</p> |

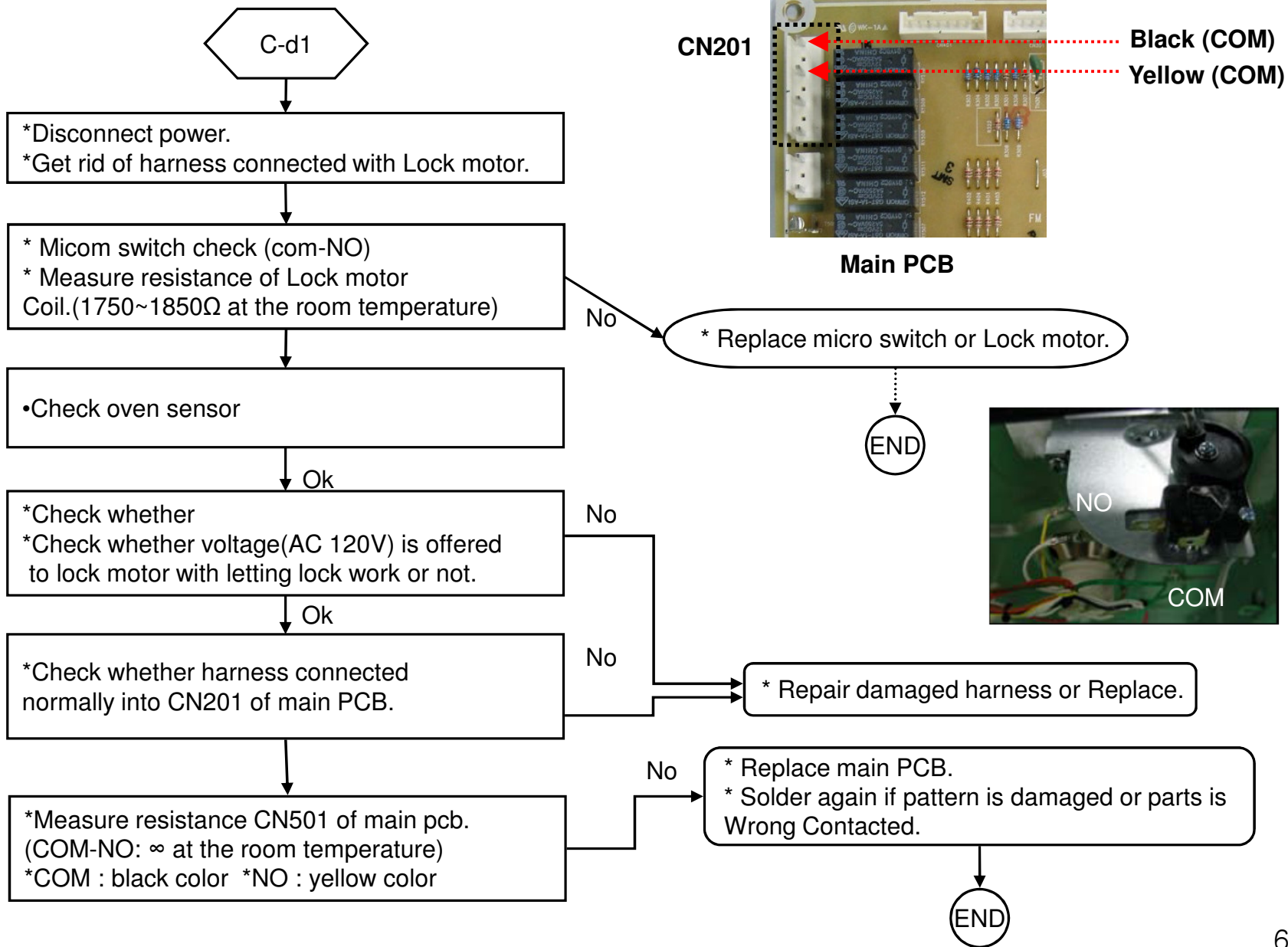
Trouble Shooting



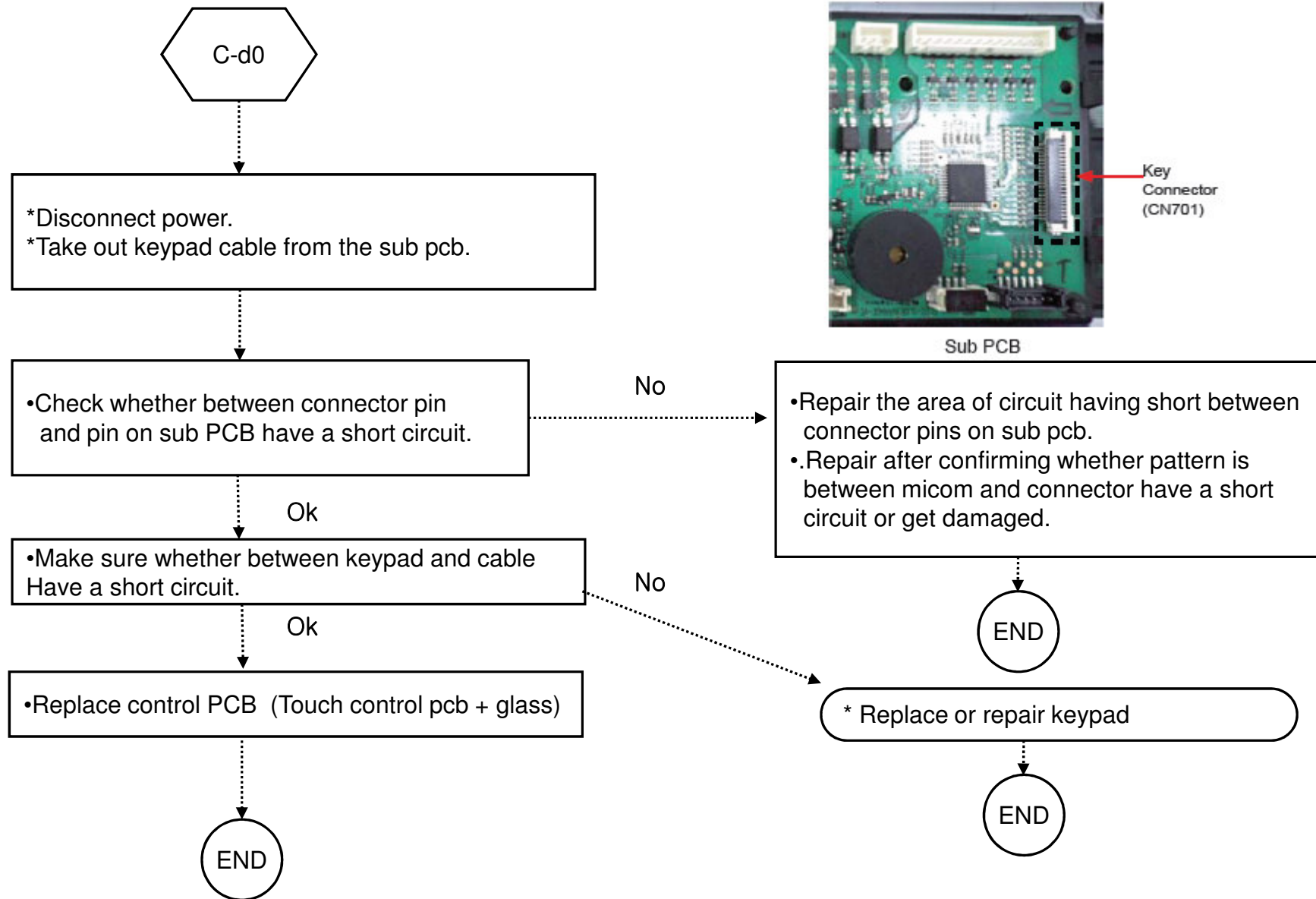
Trouble Shooting

| Failure code | CAUSE | SOLUTION |
|--------------|--------------------|--|
| C-d1 | Door locking error | <ol style="list-style-type: none">1. Disconnect power. Open the cover back. 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. |

Trouble Shooting



Trouble Shooting



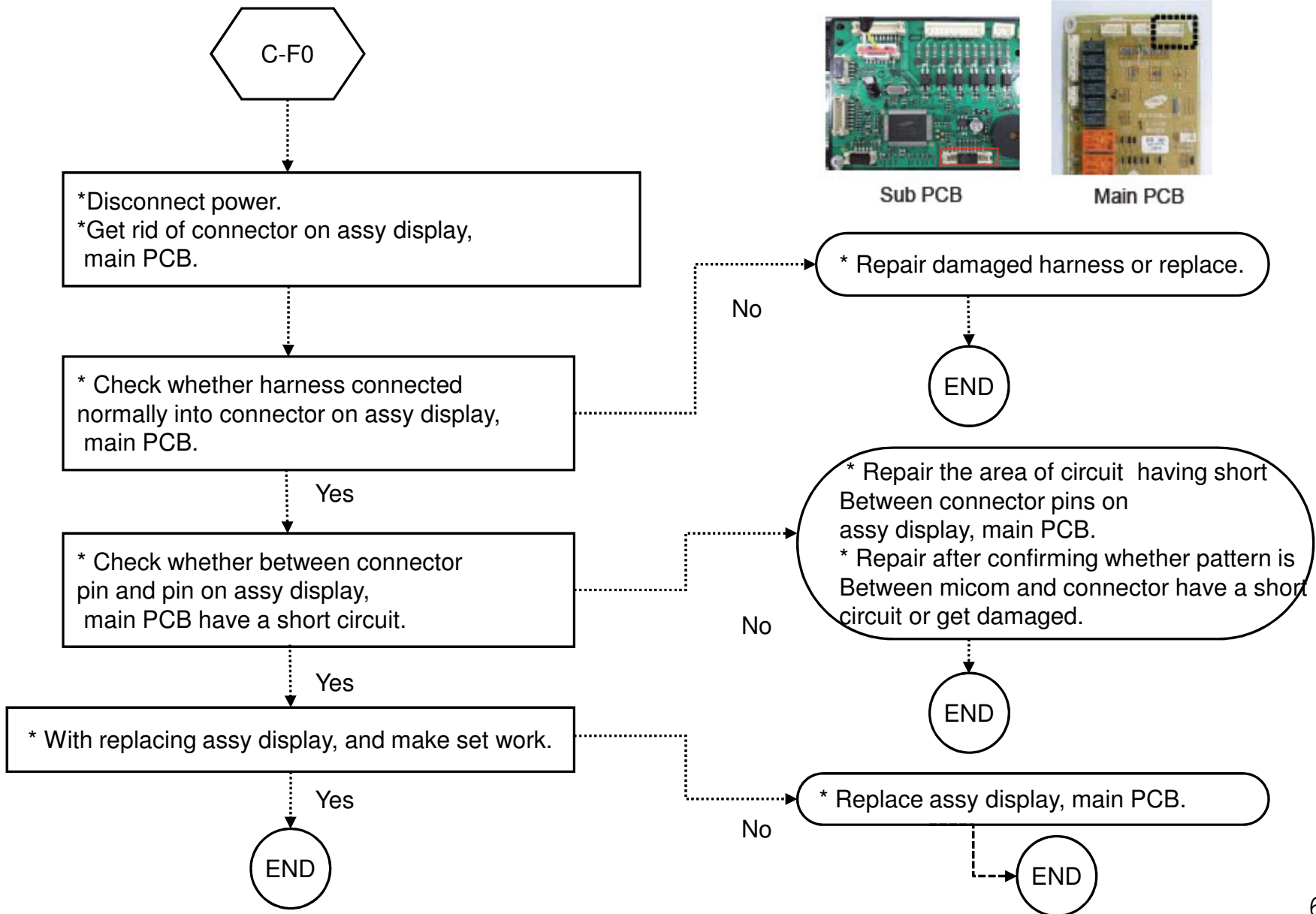
Trouble Shooting

| Failure code | CAUSE | SOLUTION |
|--------------|--|---|
| C-30 | The PCB temp sensor is open when the oven is operating. | 1. Disconnect power. Open back cover. 2. Replace the main PCB. |
| | The PCB temp sensor is short when the oven is operating. | |
| C-31 | This code occurs if the PCB temperature rises abnormally high. | |

Trouble Shooting

| Failure code | CAUSE | SOLUTION |
|--------------|--|--|
| C-F0 | This code occurs if communication between the Main and Sub PBA is interrupted. | <ol style="list-style-type: none">1. Check whether connector of main pcb has been inserted.2. Check whether connector of sub pcb has been inserted.3. If there is not a problem occurred with connector on sub pcb and main pcb, replace the main pcb. |

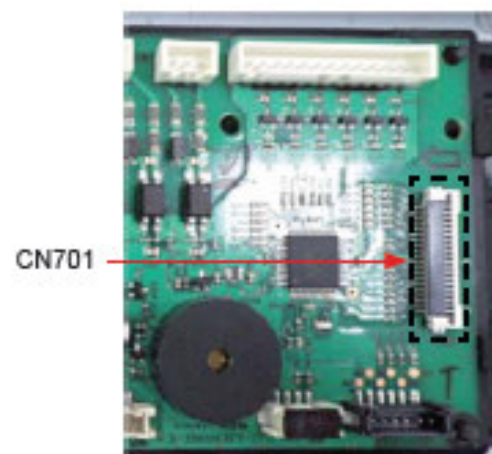
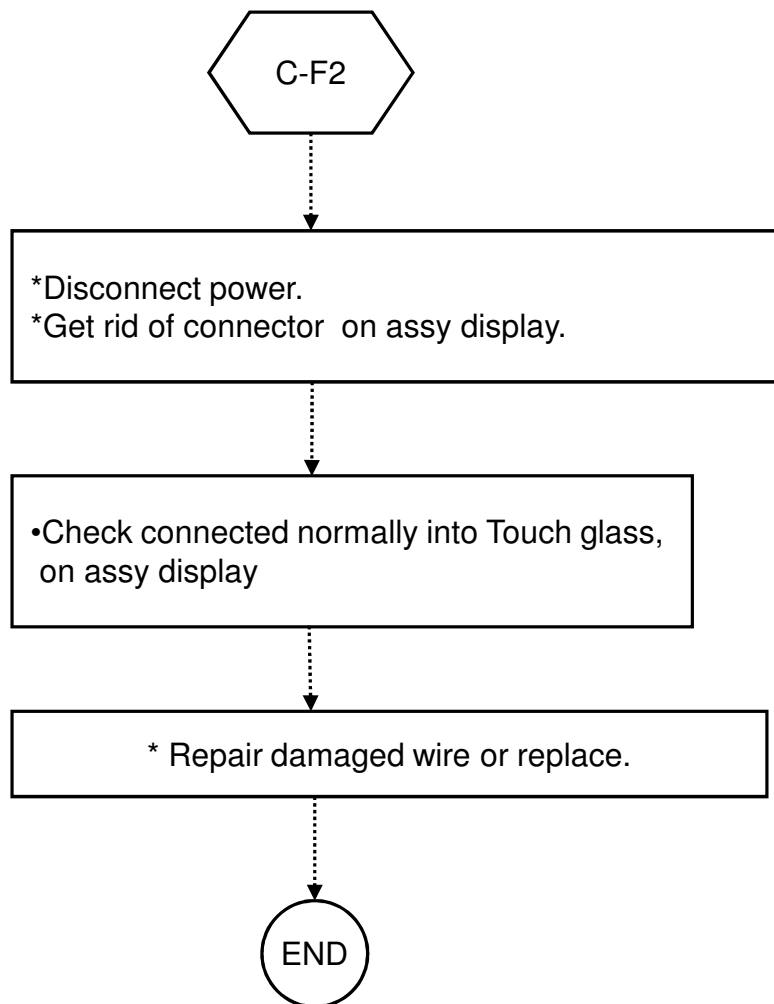
Trouble Shooting



Trouble Shooting

| Failure code | CAUSE | SOLUTION |
|--------------|--|--|
| C-F2 | This code occurs if communication between the main and touch is interrupted. | <ol style="list-style-type: none">1. Check whether connector of sub pcb has been inserted.2. If there is not a problem occurred with connector on sub pcb, replace the sub pcb.3. If can't solve the problem after replace the sub pcb, replace the control box. |

Trouble Shooting



Sub PCB

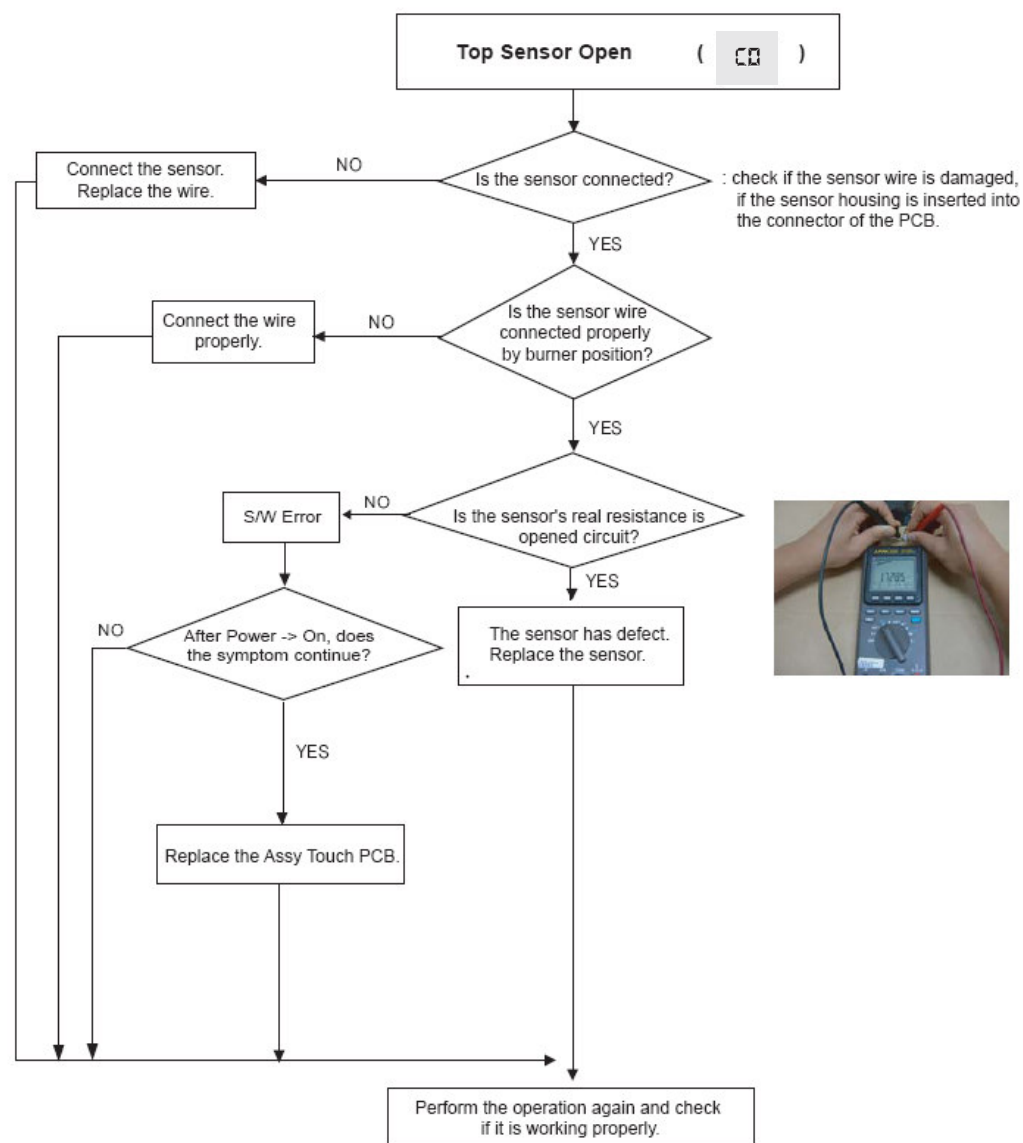
Trouble Shooting

Failure Display Codes (Cooktop)

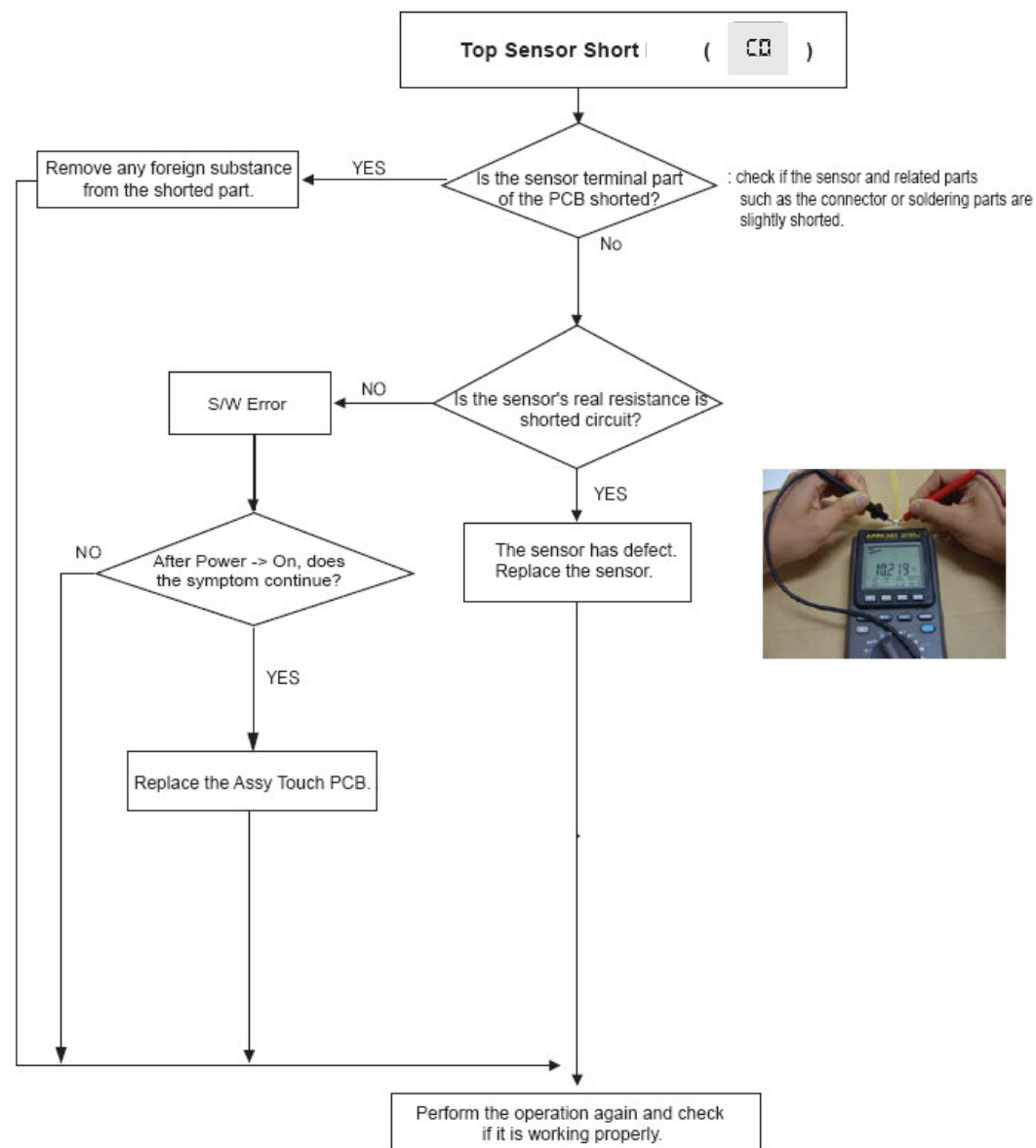
| Displayed code | Solution |
|----------------|--|
| CO | Top Sensor Open Error (Sensor-Top) It occurs due to a defective sensor, misplaced wires, a defective PCB and when A/D value that MICOM senses rises over 252. Also, it may occur when the ambient temperature falls under -10°C. |
| | Top Sensor Short Error (Sensor-Top) It occurs due to a defective sensor, misplaced wires, a defective PCB and when A/D value that MICOM senses falls under 10. |
| C2 | IGBT Sensor Open Error (Assy-Inverter Module) It occurs due to a defective sensor, misplaced wires, a defective PCB and when A/D value that MICOM senses rises over 239. Also, it may occur when the ambient temperature falls under -10°C. |
| | IGBT Sensor Short Error (Assy-Inverter Module) It occurs due to a defective sensor, misplaced wires, a defective PCB and when A/D value that MICOM senses falls under 10. |

| Displayed code | General Function | Solution |
|----------------|------------------------|--|
| C1 | Over Temperature Error | It occurs when the temperature of the Top Sensor rises very highly. (Estimated temperature of ceramic glass's surface is more than 250°C.) ex: Place a empty cookware on the burner and operate the induction cooktop. |
| U | Pan Detection Error | It occurs when the cookware is unsuitable or too small or no cookware has been placed on the cooking zone. If the suitable cookware is placed again, the induction cooktop will operate normally. |
| A2 | DC Motor Locking Error | It occurs when the DC Motor cannot operate due to defects of PCB, wiring or some disturbance on motor blade. |
| F0 | Communication Error | It occurs when the communication between Display PCB and Inverter Module PCB is interrupted, due to defects of PCB, wiring mistake. |

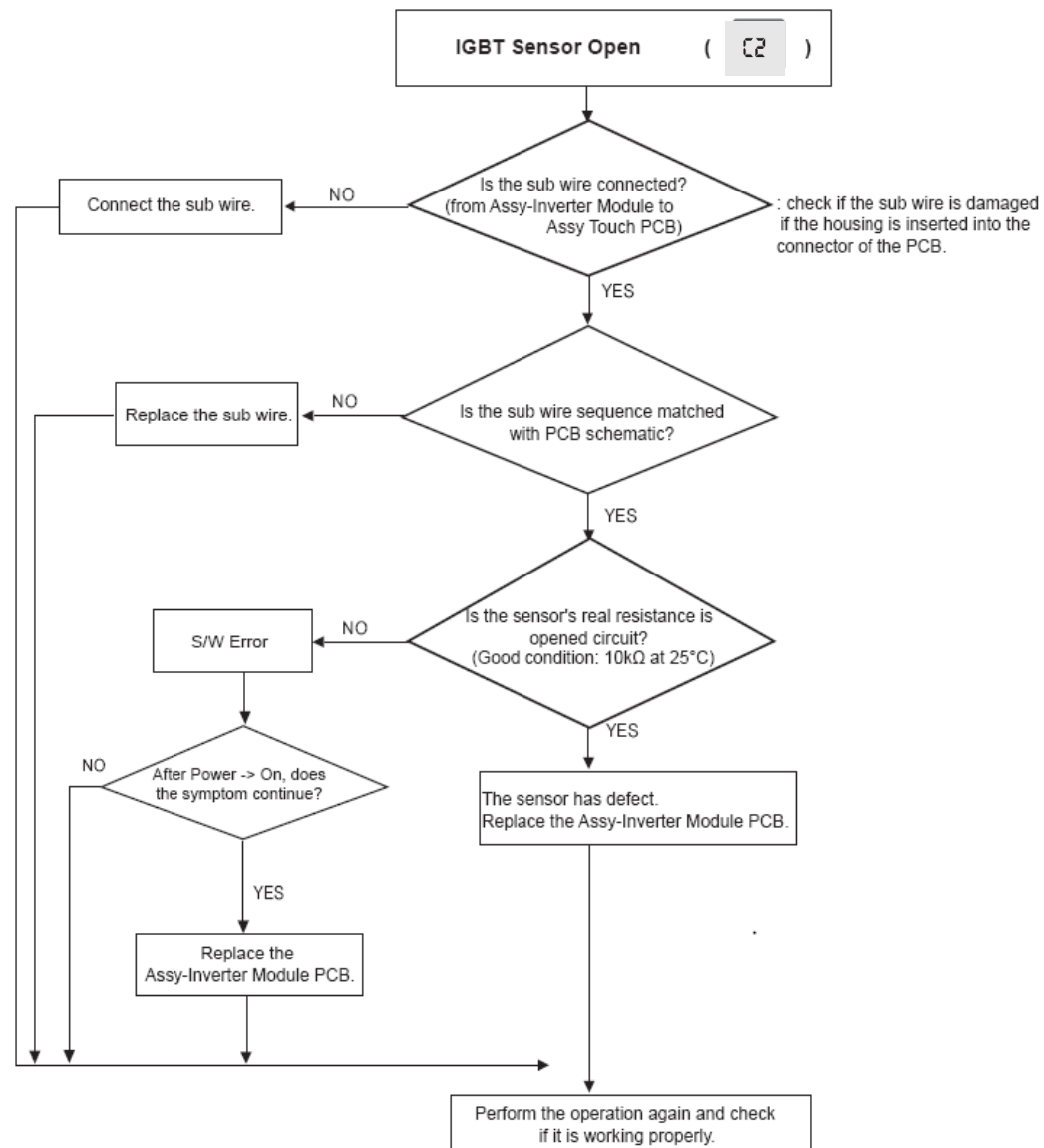
Trouble Shooting



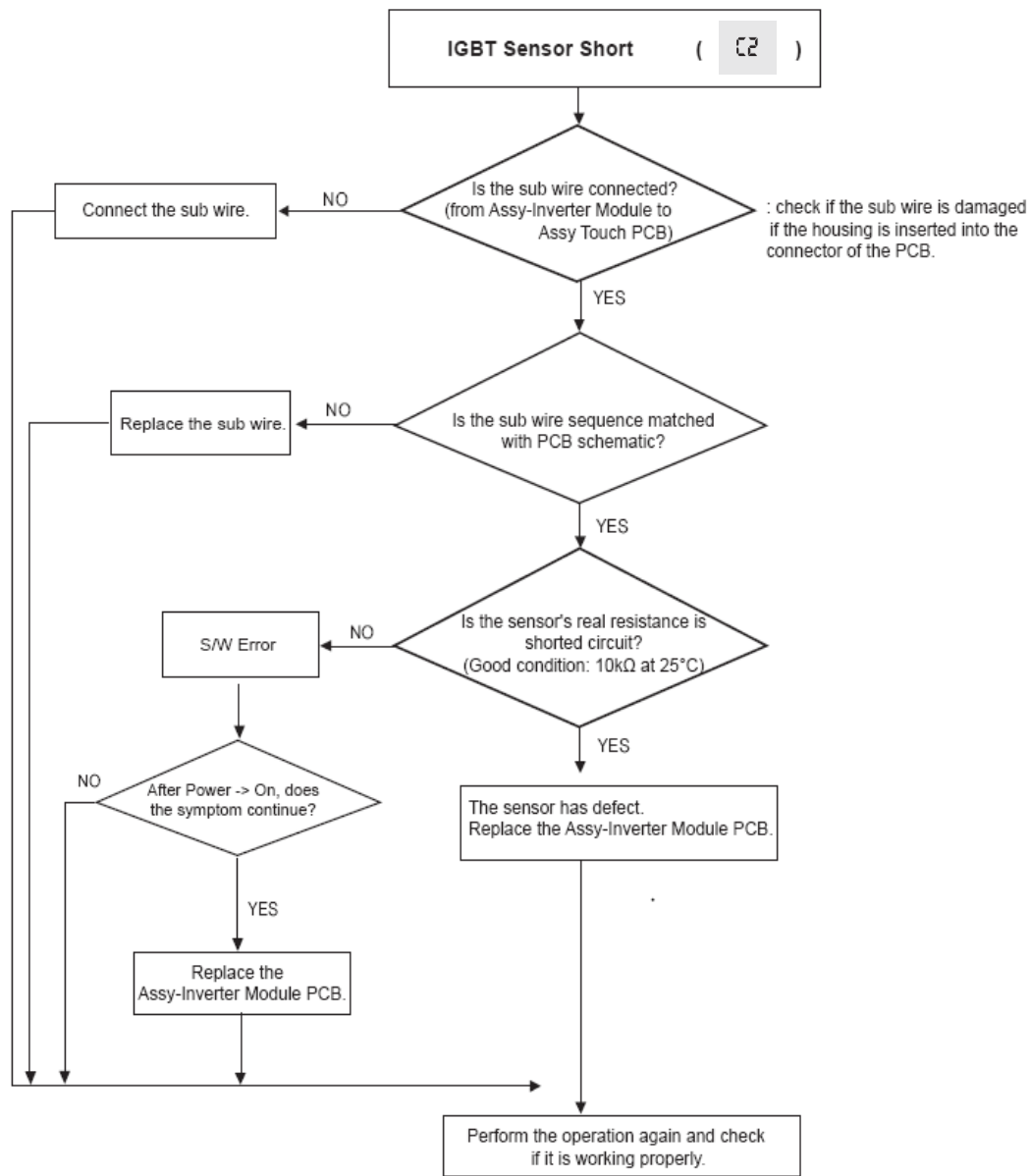
Trouble Shooting



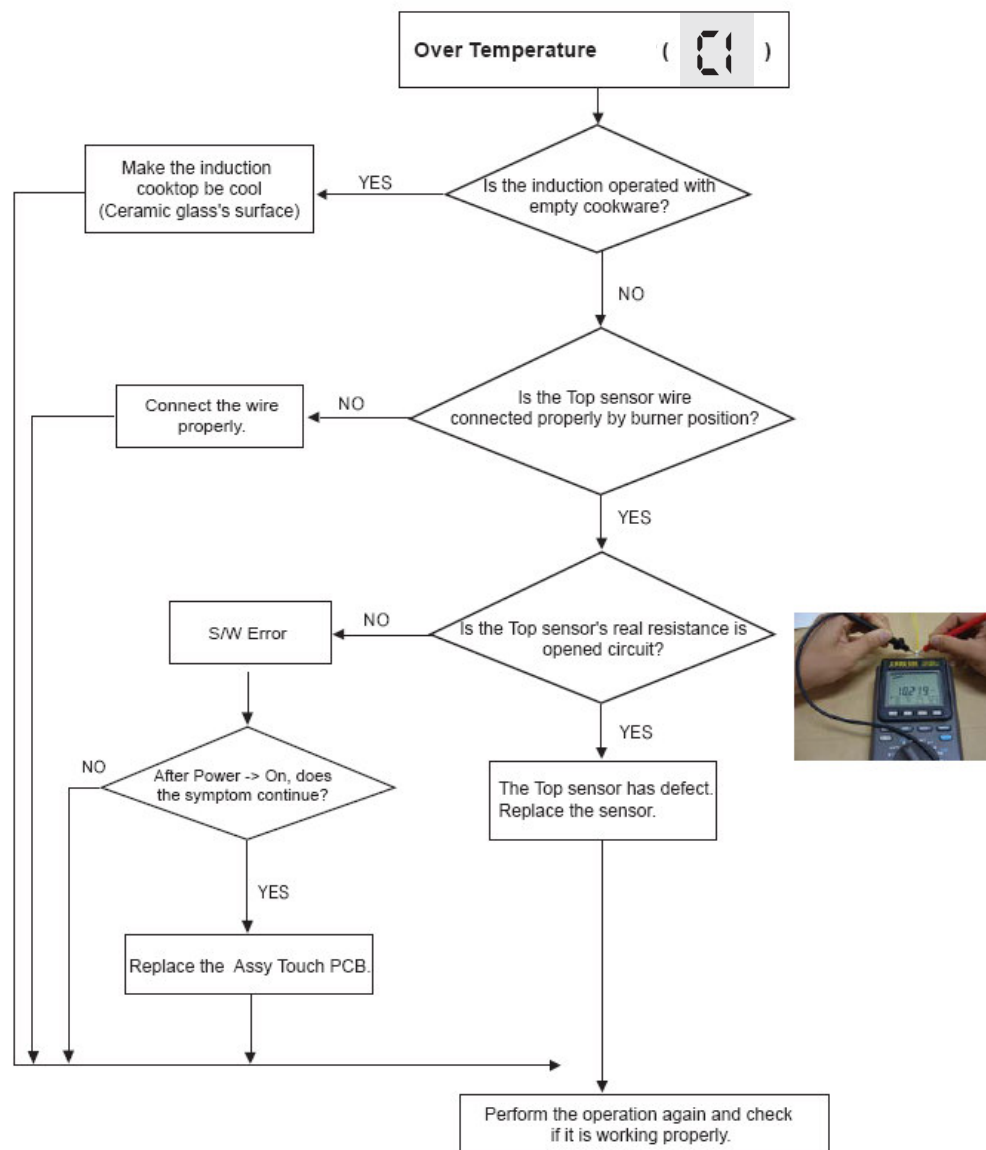
Trouble Shooting



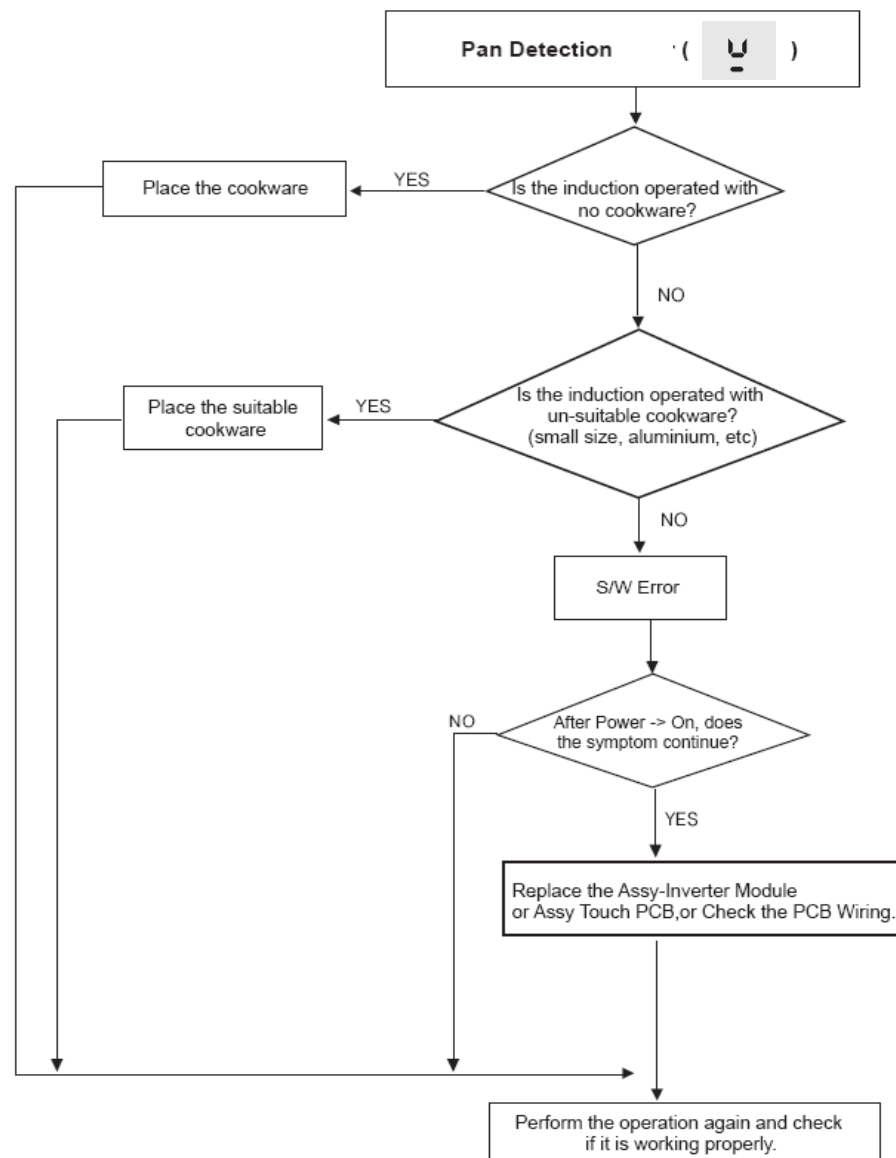
Trouble Shooting



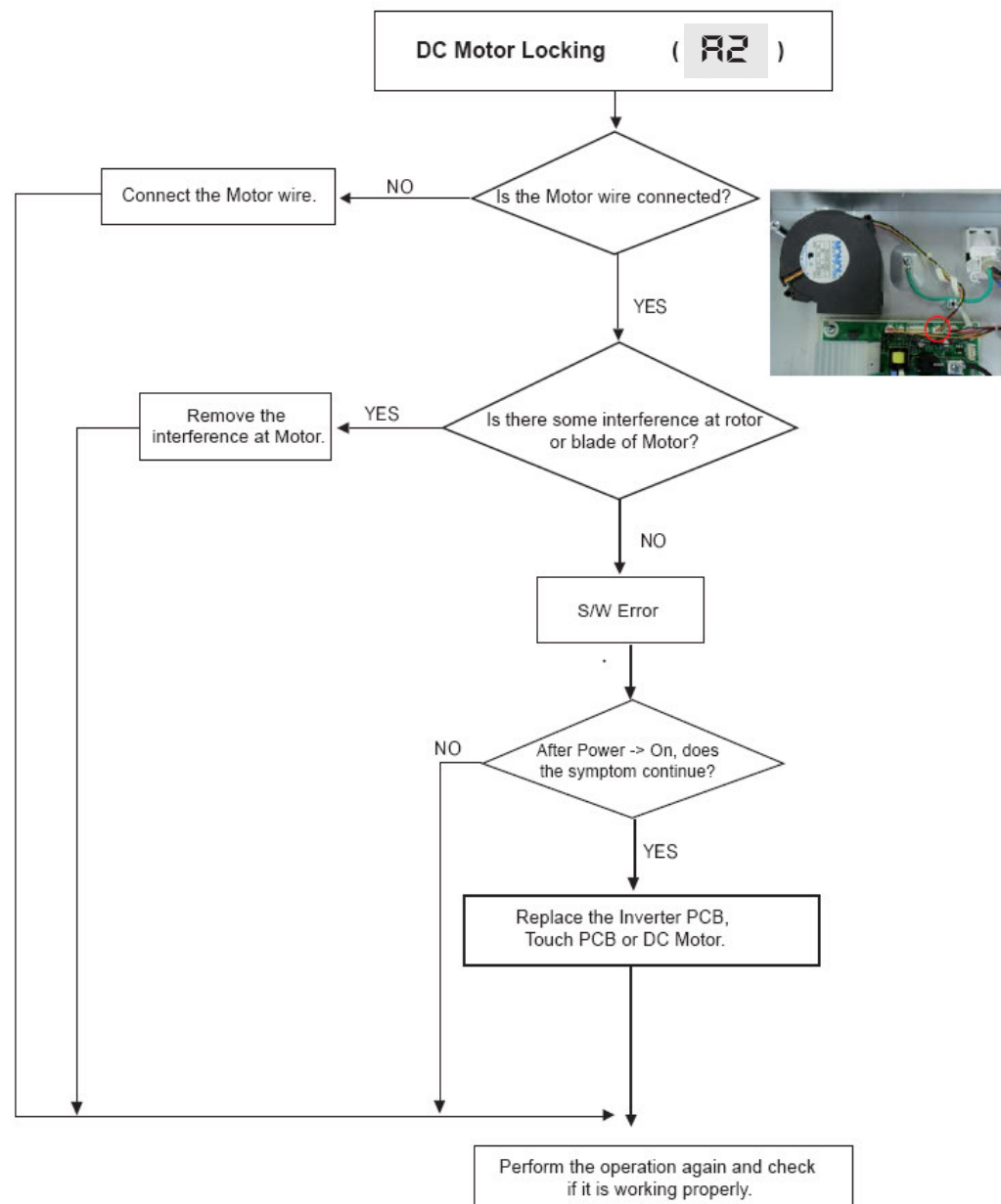
Trouble Shooting



Trouble Shooting



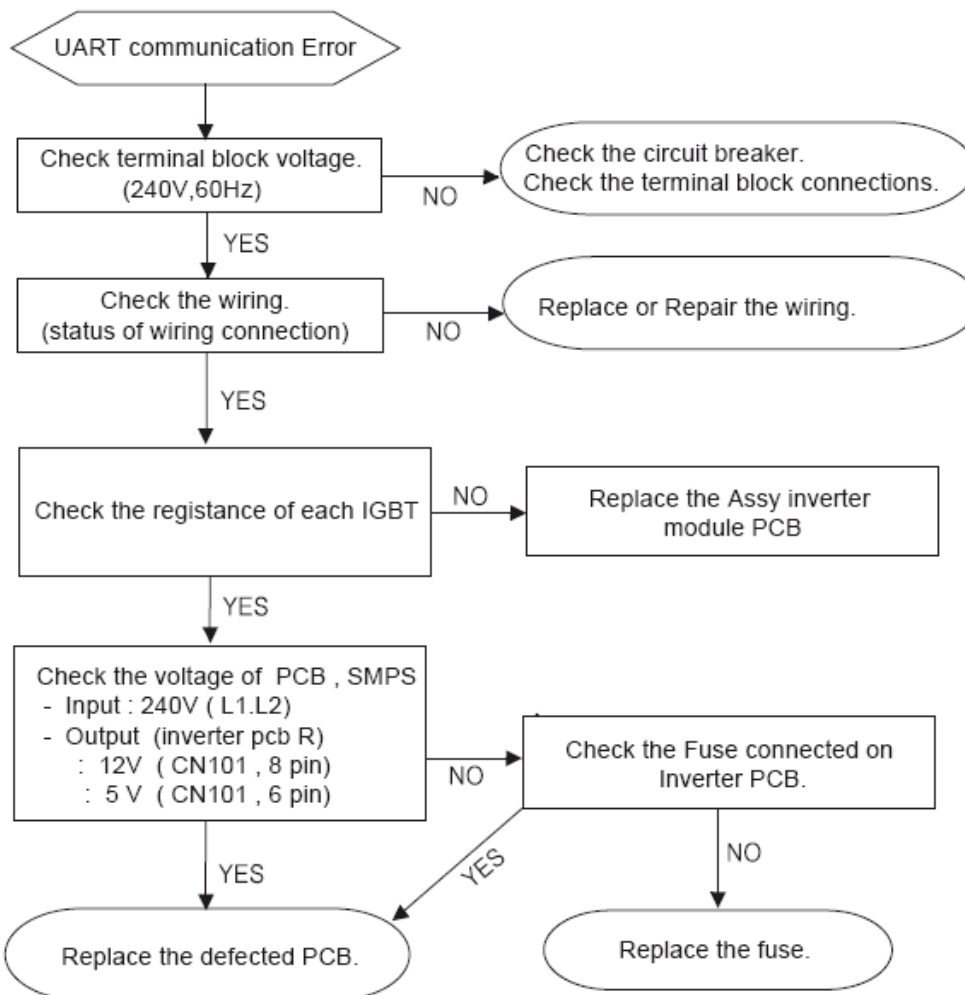
Trouble Shooting



Trouble Shooting

Troubleshooting (Communication)

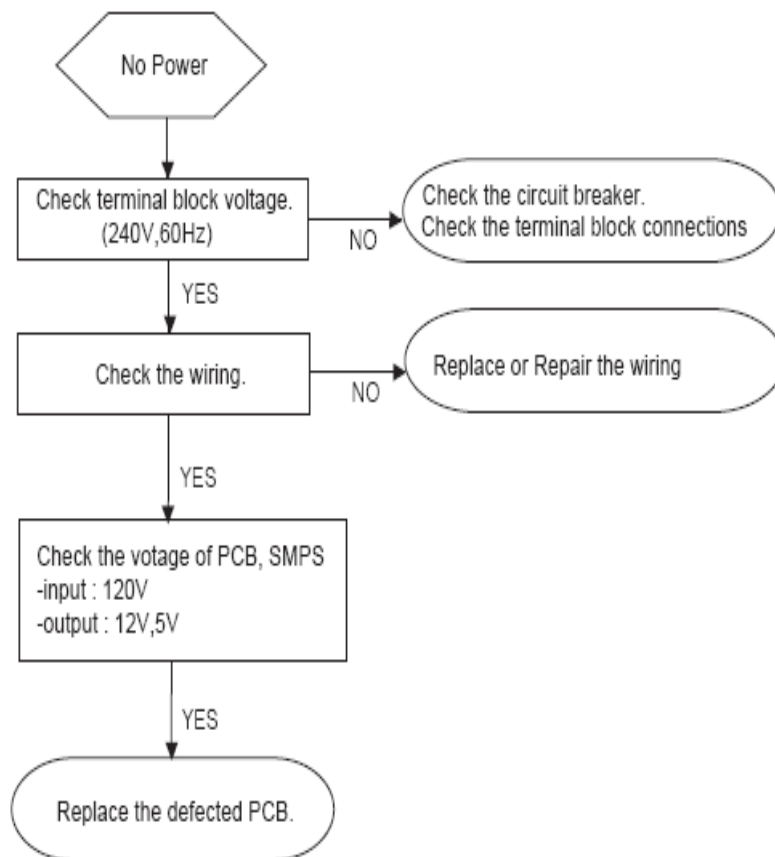
FO



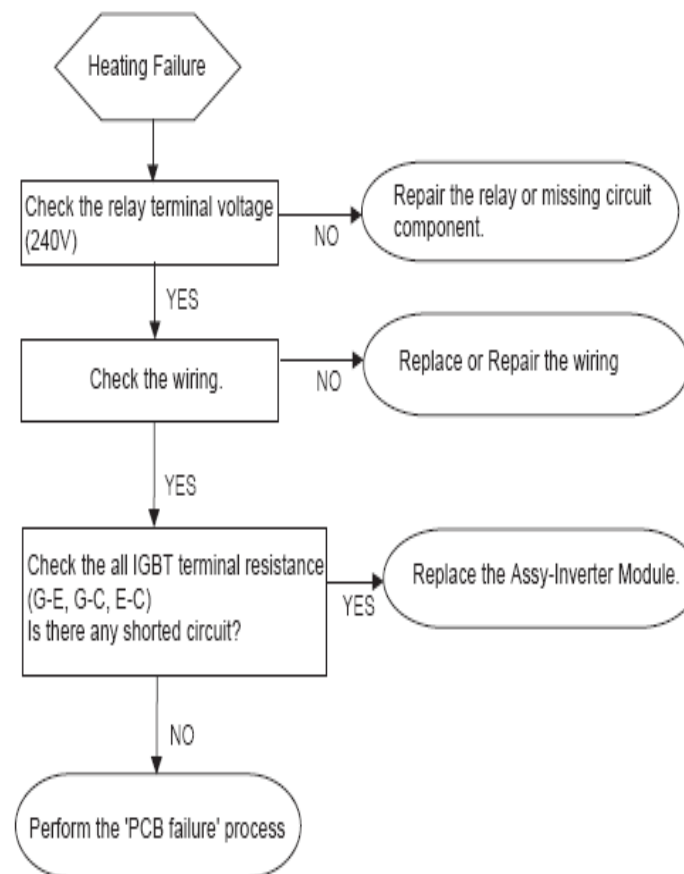
Trouble Shooting

Electrical Malfunction

Troubleshooting (Power)



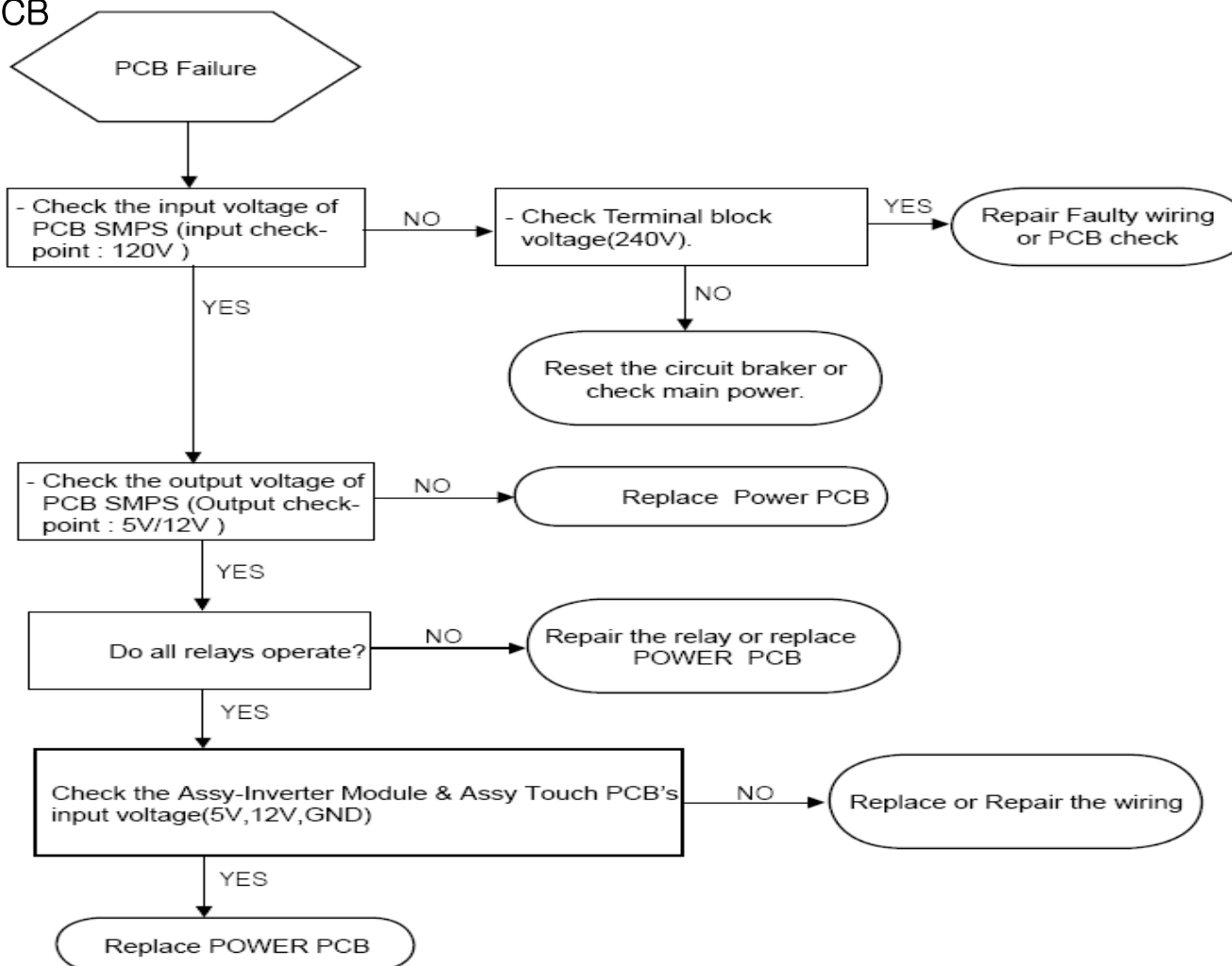
Troubleshooting (Heating)



Trouble Shooting

Electrical Malfunction

POWER PCB




Trouble Shooting

Electrical Malfunction

Wi-Fi connection

Step 1.

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

Step 2.

- Check communication between Wi-Fi module and sub PCB.
 - a) Press keep warm and Num 3 at the same time.
 - Display will show project name, main PCB version, sub PCB version and network version.
 - If network version is ordinarily showed, try to use smart control feature again.
 - If network version is showed as like below, check to Wi-Fi module (2-b)



VFD DISPLAY



LED DISPLAY

Trouble Shooting

Electrical Malfunction

Wi-Fi connection

b) Remove the Wi-Fi module.

Check input voltage on Wi-Fi module (5V).

- If input voltage is ok, replace Wi-Fi module.
- If input voltage have problem, check to connector of wire and sub PCB (2-c).



Pin 4 : GND
Pin 5 : 5VDC

c) Remove the cover back main wire.

- If connection of wire is ok, check to next step (2-d).
- If connection of wire have problem, re-connect and try smart control feature again.



d) Remove the sub PCB.

Check whether connector of wire is fully and correctly inserted. (CN270)

And then, check input voltage on sub PCB (5V).

- If input voltage is ok, replace Wi-Fi module.
- If input voltage have problem, replace sub PCB.

Pin 4 : GND
Pin 5 : 5VDC

Reference

Checkpoints before service request

| 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 on main PCB L1~N : 120V | <ul style="list-style-type: none"> * Replace or repair if harness has been loosen or disconnected. |
| | <ul style="list-style-type: none"> * Make sure that the relay on sub PCB is being worked normally. * Make sure whether harness between connector on sub PCB and connector on main PCB has been loosen or disconnected. | <ul style="list-style-type: none"> •Replace sub PCB if relay has been damaged or there is any cracking on the sub PCB. •Repair harness is connected main PCB with sub PCB •After confirming whether harness has been inserted into relay on sub PCB or not, take action follow as; <ul style="list-style-type: none"> - Replace or repair harness. - Replace or repair sub PCB. |
| | <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 on main PCB. <ul style="list-style-type: none"> - 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 |

Reference

Checkpoints before service request

| SYMPTOM | DIAGNOSIS | REMEDY |
|----------------------------------|--|--|
| Oven temperature is risen slowly | * Make sure whether harness is connected with Broil, Bake and convection heater has been loosen or disconnected. | * Repair and replace harness. |
| | * Make sure whether Broil, Bake, and convection heater has been disconnected. | * After taking out terminal from each heater, measure resistance of heater and then replace that if it is not a normal resistance value. |
| | * Make sure that heater relay and pattern on main PCB | * Replace or repair relay. * Replace or repair main PCB. |
| 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 sub or 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. |

Reference

Checkpoints before service request

| SYMPTOM | DIAGNOSIS | REMEDY |
|---|---|---|
| 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 on main PCB or PCB pattern. | * Replace or repair after confirming whether keypad cable has been loosen or Disconnected. |
| Oven lamp is not working. | * Check the oven lamp relay and connector . | * Replace or repair if harness has been loosen or disconnected. * Replace oven lamp relay or Resource relay. * Replace main PCB |
| | * Measure the resistance value of both ends of lamp terminal. | * Replace lamp if it has been disconnected.(120V / 40W) |

Reference

Checkpoints before service request

| 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 on main PCB normally or not. | * Replace or repair Warming Center. * Replace or repair Warming Ry-source relay. * Replace main PCB. * Replace or repair if harness has been loosen or disconnected. |
| Convection fan is not rotated. | * Check whether Convection fan relay on main PCB and connector is in normal. | * Replace or repair Relay. * Replace or repair connector. |
| | * Make sure whether harness between Connector on main PCB and connector on main PCB has been connected normally. | * Replace or repair harness. * Replace or repair connector. * Replace main PCB. |

Reference

Checkpoints before service request

| SYMPTOM | DIAGNOSIS | REMEDY |
|--|--|---|
| It has smell or smoke when oven has been started initially. | * This is in normal state. | <ul style="list-style-type: none"> * 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 LED or sub PCB. |
| Virtual Flame is not show when turn on the knob. | * Check whether Virtual flame has set off in option menu or wire harness has been disconnected. | <ul style="list-style-type: none"> * Set on the Virtual Flame in option menu. * Replace or repair if harness has been loosen or disconnected. * Replace Led module. |
| There is not buzzer beep sound when keypad is being worked. | * Check the state of buzzer on main PCB and whether PCB pattern have a short circuit or has been open. | * Replace or repair main PCB. |



SAMSUNG

Thanks