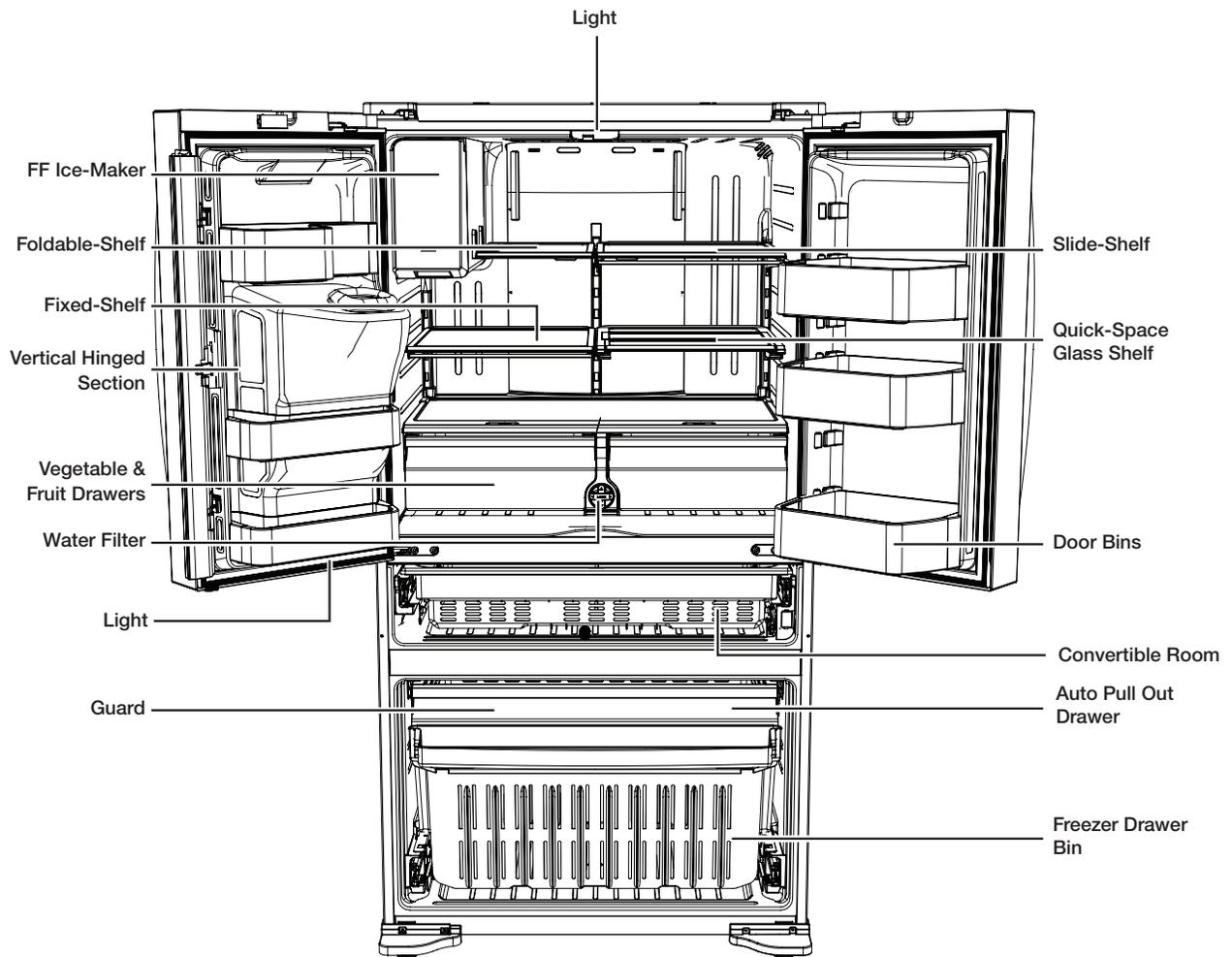


2-3) Interior Views



## 2-6) Optional Material Specification

	Part Name	Part Code	AMOUNT
	ASSY- PACKING SUB	DA99-03490L	1
	LED LAMP REF	DA97-12606A	1
	LED LAMP CASE-VEG R, L	DA41-00519S	1
	LED LAMP FRE	DA41-00676G	1
	LED LAMP MID	DA41-00676G	1
	LED LAMP REF(SIDE)	DA41-00519Q	2

## 3. Disassembly and Reassembly

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## Disassembly and Reassembly

### 3-1) PRECAUTION

- Unplug the refrigerator before cleaning and making repairs.
- Remove any foreign matter or dust from the power plug pins.
  - Otherwise there is a risk of fire.
- Do not use a cord that shows cracks or abrasion damage along its length or at either end.
- Do not plug several appliances into the same multiple power board. The refrigerator should always be plugged into its own individual electrical which has a voltage rating that matched the rating plate.
  - This provides the best performance and also prevents overloading house wiring circuits, which could cause a fire hazard from overheated wires.
- Do not install the refrigerator in a damp place or place where it may come in contact with water.
  - Deteriorated insulation of electrical parts may cause an electric shock or fire.
- The refrigerator must be grounded.
  - You must ground the refrigerator to prevent any power leakages or electric shocks caused by current leakage from the refrigerator.
- Do not put bottles or glass containers in the freezer.
  - When the contents freeze, the glass may break and cause personal injury.
- Do not store volatile or flammable substances in the refrigerator.
  - The storage of benzene, thinner, alcohol, ether, LP gas and other such products may cause explosions.

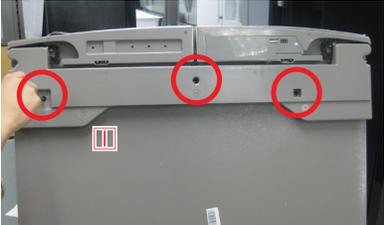
### – Required Tools

IMAGE	ITEM	USE
	Phillips Head Driver	Use for assembling and disassembling of screw
	Flat Head Driver	Use for assembling and disassembling of HomeBar, Dispenser, Deli Cartessen Box, Main PBA etc...
	Hex Wrench $\varnothing$ 2mm	Use for assembling and disassembling of Handle
	Socket Wrench $\varnothing$ 10mm	Use for assembling and disassembling of Door Hinge

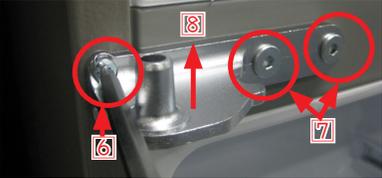
### – Water whitening phenomenon

All water provided to refrigerators flows through the core filter which is an alkaline water filter. In this process, the pressure in the water that has flowed out of the filter gets increased, and massive oxygen and nitrogen become saturated. When this water flows out in the air, the pressure plummets and the oxygen and nitrogen get supersaturated so that they turn into gas bubbles. The water could look misty due to these oxygen bubbles. It is not because dust or chemicals, just a few seconds later, it will be clean again.

## 3-2) Refrigerator Door

Part Name	How To Do	Descriptive Picture
<b>Refrigerator Door</b>	1. Remove the 3 screws holding down the Top Table and remove the Top Table (1)	
	2. Disconnect the electrical (2) above the upper left door hinge To disconnect the connector (2) more easily, press the end of the hook (3) and pull connector.  <b>CAUTION</b> Make sure unit is unplugged.	 
	3. As shown in the picture, Remove water tube from hinge (4) by holding at the both sides of the Tube Fitting and pulling it out, And, remove the Tube Fitting (5) by pulling the water hose after pushing in the locking ring tab at the end of the Tube Fitting.	 
	4. After pulling the Hinge Lever, remove the Hinge.	

## Disassembly and Reassembly

Part Name	How To Do	Descriptive Picture
<b>Refrigerator Door</b>	5. Lift the door straightly up to remove.   <b>CAUTION</b> Be careful not to drop the door.	
	6. Lift the grommet hinge straightly up to remove.	
	7. With a Philips head screwdriver, remove the screw (6) attached to the lower left and right door hinges. With a 0.4in Hex wrench, remove the 2 flat head screws (7) Remove the lower left and right door hinges (8).	

**3-3) Door Handle Refrigerator**

Part Name	How To Do	Descriptive Picture
<b>Door Handle Fridge</b>	1. Loose Set Screw with 0.1in Hex wrench and pull front the handle.	
	2. Remove the cover vinyl of door.	

## Disassembly and Reassembly

### 3-4) Door Handle Freezer & Flex zone

Part Name	How To Do	Descriptive Picture
<b>Door Handle Freezer</b>	1. Loosen the Set Screw situated at the bottom right of the appliance about 0.1in by using Hex wrench.	
	2. Pull the Set handle out by moving it to the right side.   <b>CAUTION</b> Be careful not to scratch or break the parts	 

## Disassembly and Reassembly

### 3-5) Refrigerator Light

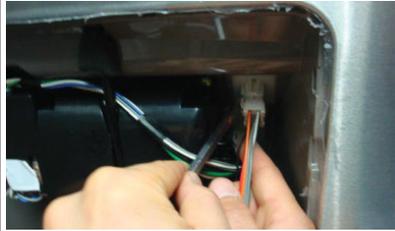
Part Name	How To Do	Descriptive Picture
Refrigerator Light	1. Press the tabs on the back of the Lamp Cover and take it off.	
	2. Remove the 2 screws And separate the LED panel.	

### 3-6) Cover-Display & Water-Dispenser

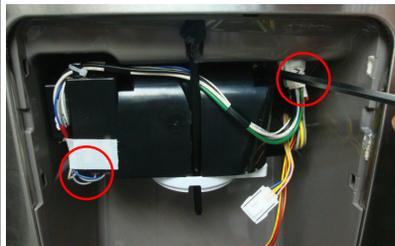
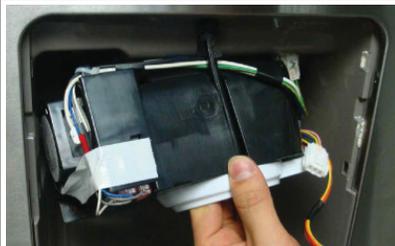
Part Name	How To Do	Descriptive Picture
Cover-Display	1. Remove a screw under the display cover.	
	2. Remove the display cover by pulling it up. Put the thumbs on the surface door and hold the bottom of the Display Panel with four fingers. And then, pull out the Display Panel as shown in the photo to remove it.	

**CAUTION** Take care not to break the Locking Tabs.

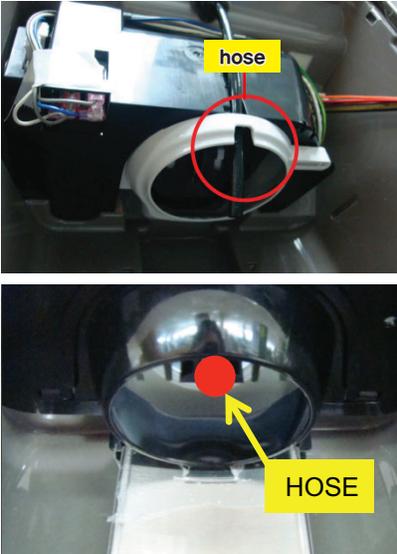
## Disassembly and Reassembly

Part Name	How To Do	Descriptive Picture
<b>Cover-Display</b>	3. Disengage the housing connect of display cover.	

### 3-7) Water-Dispenser (RF25HM\*\*)

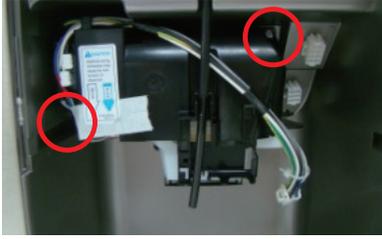
Part Name	How To Do	Descriptive Picture
<b>Water-Dispenser</b>	1. Disengage the Housing Connectors by pushing a flat-blade screwdriver.	
	2. Remove 2 screws of the Case Ice Route Assy.	
	3. Pull the Case Ice Route Assy.	

# Disassembly and Reassembly

Part Name	How To Do	Descriptive Picture
<p><b>Water-Dispenser</b></p>	<p>1. Assembly shall be in order from the disassembly. Case-Ice and Route shall be assembled inside of hose. Otherwise, assemble cannot be accomplished.</p>	
	<p>2. When assembling Cover-Display, first insert it from leftside and then assemble to rightside. Otherwise, the hook can be broken.</p>	

## Disassembly and Reassembly

### 3-8) Water-Dispenser (RF28HM\*\*)

Part Name	How To Do	Descriptive Picture
<b>Water-Dispenser (Ice/Water model )</b>	1. Disengage the Housing Connector by pushing a flat-blade screwdriver.	
	2. Remove 2 screws of the Case Ice Route Assy.	
	3. Pull the Case Ice Route Assy.	
	4. Assembly shall be in order from the disassembly. Make sure to fix the hose to the Case Ice Route before assembling the Display.	
	5. When assembling Cover-Display, first insert it from upper side and then assemble to bottom side. Otherwise, the hook can be broken.	

## Disassembly and Reassembly

### 3-9) Glass Shelf

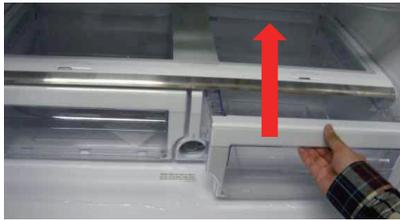
Part Name	How To Do	Descriptive Picture
<b>Glass Shelf</b>	Remove the shelf by lifting the front part of the shelf up and pulling it out.	

## Disassembly and Reassembly

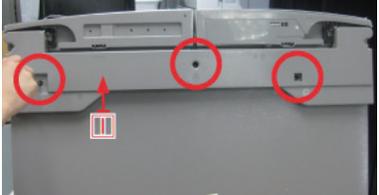
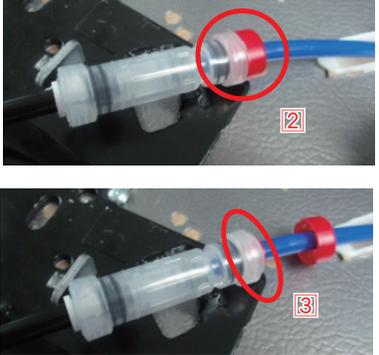
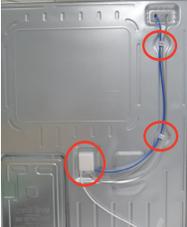
### 3-10) Foldable Glass Shelf

Part Name	How To Do	Descriptive Picture
<b>Foldable Glass Shelf</b>	<ol style="list-style-type: none"> <li>1. Remove the Cap.</li> <li>2. Remove 2 screws of the Folderble Glass Shelf.</li> </ol>	

### 3-11) Vegetable & Fruit Drawers Shelf

Part Name	How To Do	Descriptive Picture
<b>Vegetable &amp; Fruit Shelf</b>	<ol style="list-style-type: none"> <li>1. Remove the vegetable &amp; fruit drawer by pulling the roller part and lifting it up.</li> </ol>	
	<ol style="list-style-type: none"> <li>2. While pressing the button on the left of the shelf in txhe picture, lift up the Vegetable &amp; Fruit Drawer Shelf. (Refer to the picture)</li> </ol>	
	<ol style="list-style-type: none"> <li>3. Remove the vegetable &amp; fruit drawer shelf by pulling it out. (Refer to the picture)</li> </ol>	

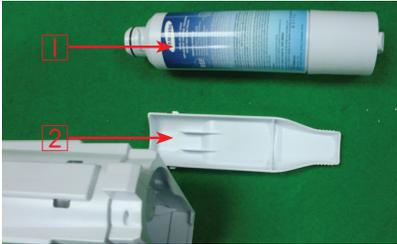
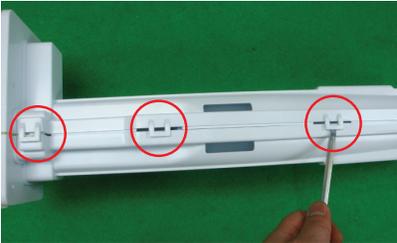
## 3-12) Case Water Filter

Part Name	How To Do	Descriptive Picture
<p><b>Case Water Filter</b></p>	<p>To disassemble the Case Water Filter, remove the water filter and all drawers and shelves.</p>	
	<p>1. Remove the 3 screws holding down the Top Table and remove the Top Table (1).</p>	
	<p>2. a. Remove Cover Tube Fitting (1). b. Remove the Water tube (blue) from the tube fitting by pushing in on the locking ring (2) and pulling out the tube.</p>	
	<p>3. Remove three screws securing the water tubes.</p>	
	<p>4. a. Pull the Water blue hose out. b. Push the Tube Fitting (4) and pull the grey hose out.</p>	

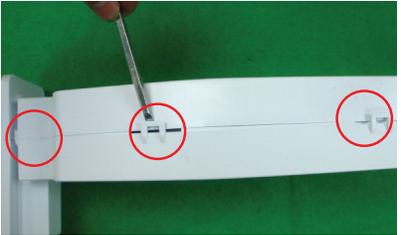
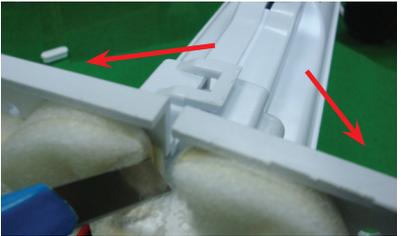
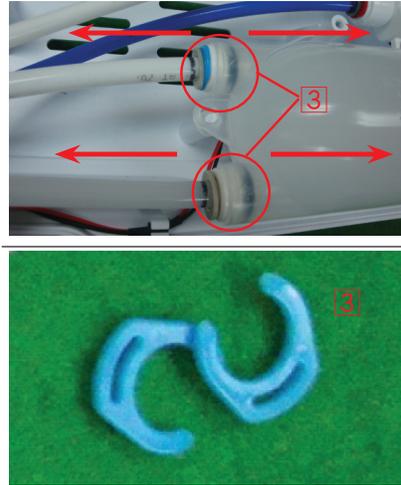
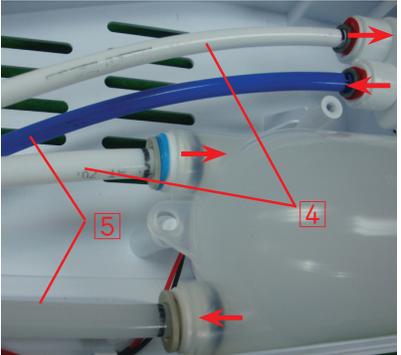
## Disassembly and Reassembly

Part Name	How To Do	Descriptive Picture
<b>Case Water Filter</b>	5. Disconnect the 2 Housing connectors (5).	
	6. Lift and pull the Case Water Filter out.	

### 3-13) Water Tank

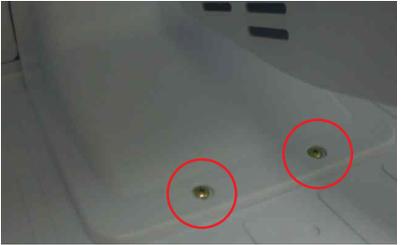
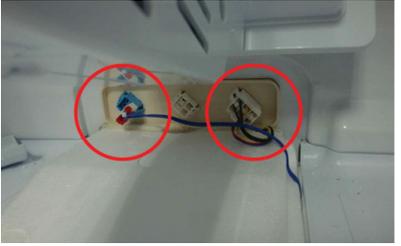
Part Name	How To Do	Descriptive Picture
<b>Water Tank</b>	Before disassembling the Water Tank take the water filter(1) and water tray(2) out.	
	1. Remove 2 screws beside.	
	2. a. Lose the hooks by pushing the flat-blade driver.	

## Disassembly and Reassembly

Part Name	How To Do	Descriptive Picture
<b>Water Tank</b>	<p>b. Lose the hooks by pushing the flat-blade driver.</p>	
	<p>3. Cut the sponge stick on the Case Water tank, and divide Case Water Tank.</p>	
	<p>4. Remove the tube clips(3) and disconnect the water tank hoses by pulling the fitting tube.</p>	
	<p>5. Be careful when you connect the hoses. White hoses(4) go to the In mark (→). Other hoses(5) go to the out mark (←).</p>	

## Disassembly and Reassembly

### 3-14) Motor Damper

Part Name	How To Do	Descriptive Picture
<b>Motor Damper</b>	1. Remove the 2 screws under the water filter case and take off the cover damper(②).	
	2. Disengage 2 housing connector.	
	3. Take off the Motor Damper by pulling a flat-blade screwdriver.	

## Disassembly and Reassembly

### 3-15) Water Filter (Assembly & Disassembly)

Part Name	How To Do	Descriptive Picture
<b>Water Filter</b>	1. Turn the water filter count-clockwise. (Refer to the picture)	
	2. Remove the water filter by pulling it. (Refer to the picture)	
	3. Push the water filter directly.	
	4. Turn the water filter clockwise until it locked.	



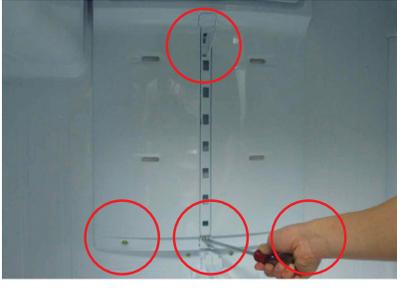
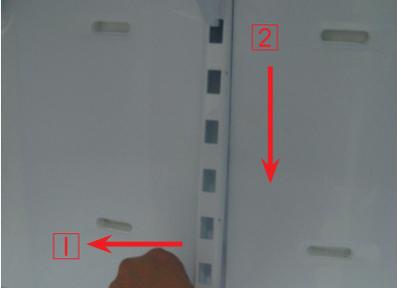
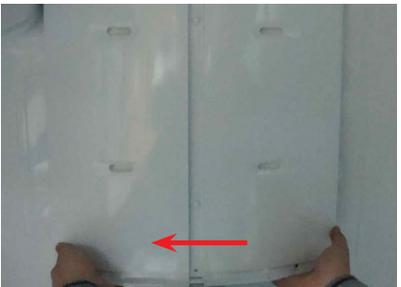
Be sure to flush the dispenser thoroughly (approx. 6 to 7 minutes), otherwise water may drip from the dispenser. This means that there is still air in the line.

# Disassembly and Reassembly

## 3-16) Vertical Hinged Section

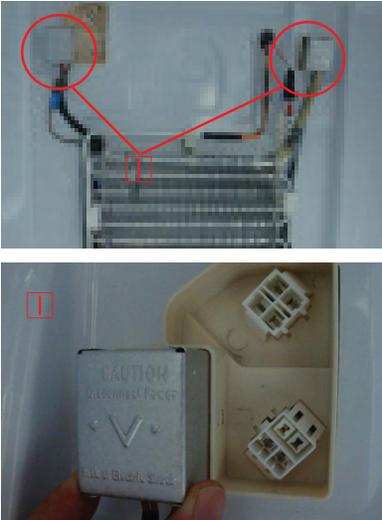
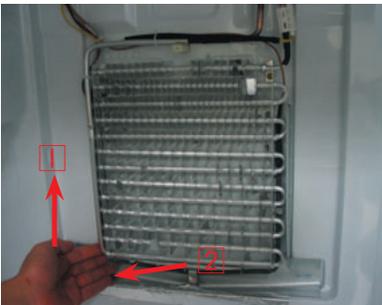
Part Name	How To Do	Descriptive Picture
<b>Vertical Hinged Section</b>	1. Remove 2 screw cap parts with a flat-blade(-) screwdriver. (Refer to the picture)   <b>CAUTION</b> Be careful not to scratch or break the parts	
	2. Unscrew 2 screws.	
	3. Disengage the internal housing connector of the vertical hinge.	
	4. Remove the vertical hinged section by lifting the vertical hinge up. (Refer to the picture)	

## 3-17) Evaporator Cover In Refrigerator

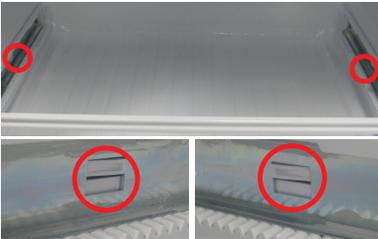
Part Name	How To Do	Descriptive Picture
<b>Evaporator Cover In Refrigerator</b>	1. Remove the angle cap with a flat-blade screwdriver. (Refer to the picture)  <b>CAUTION</b> Be careful not to scratch or break the parts	
	2. Unscrew 4 screws.	
	3. Remove the the lower part of angle mid by pulling it out and pushing it down. (Refer to the picture)	
	4. Remove the hook by pulling it from the lower part and pushing the cover down. (Refer to the picture)	
	5. Disconnect the 2 housing connectors. (Refer to the picture)  <b>CAUTION</b> Continues a work after confirming that fan operation stops.	

# Disassembly and Reassembly

## 3-18) Evaporator In Refrigerator

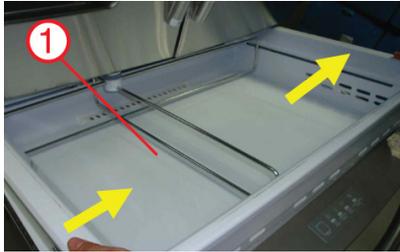
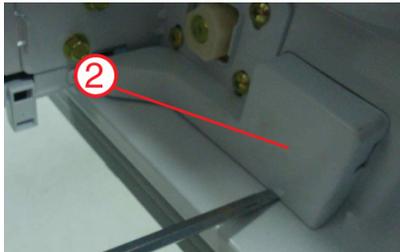
Part Name	How To Do	Descriptive Picture
<p><b>Evaporator In Refrigerator</b></p>	<p>1. Remove the the housing cover by pushing both lateral sides of the housing cover (1) and pulling it out. (Refer to the picture)</p>	
	<p>2. Disconnect the housing connector part on left side. (Refer to the picture)</p>	
	<p>3. Disconnect the housing connector on right side.</p>	
	<p>4. Remove the evaporator by lifting the bottom side of it up and pulling it out. (Refer to the picture)</p>	

## 3-19) Freezer Door

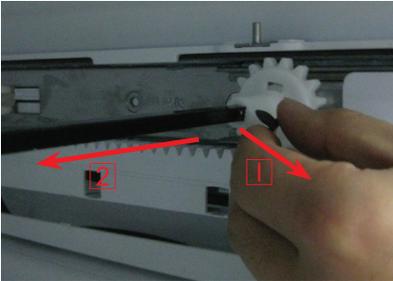
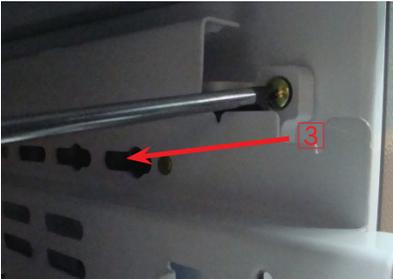
Part Name	How To Do	Descriptive Picture
<p><b>Freezer Door</b></p>	<p>1. Pull out the Pull Out Drawer by maximum.</p>	
	<p>2. After lifting the Pull Out Drawer up holding both sides, remove it at the rail system.</p>	
	<p>3. After lifting the Freezer Guard up holding both sides, remove it at the rail system.</p> <p> <b>CAUTION</b> The box may get scratch on its side by getting twisted left and right when disassembling the drawer box.</p>	
	<p>4. Press the fixing hook of rail system.</p>	
	<p>5. After holding and pulling out the top of Freezer Door, remove it at the rail system.</p>	
	<p> <b>CAUTION</b> Make sure there is no scratch at the end of Sliding Rail by being dented from the floor .</p>	

## Disassembly and Reassembly

### 3-20) Convertible Door

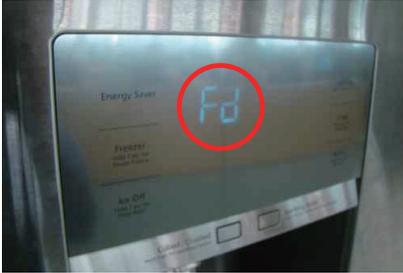
Part Name	How To Do	Descriptive Picture
<b>Mid drawer</b>	1. Pull the and remove the convertible room (②) by pulling it to your body with both hands, open to full extension.	 A photograph showing the interior of a refrigerator drawer. A red circle with the number '1' is positioned at the top left. A red arrow points from this circle to a white plastic component. Two yellow arrows point towards the right side of the drawer, indicating the direction of pull.
	2. Remove the cover housing (②) by a flat-blade screwdriver.	 A close-up photograph of the white plastic cover housing being pried away from the drawer's interior. A red circle with the number '2' is at the top left, with a red arrow pointing to the housing. A flat-blade screwdriver is visible at the bottom, wedged under the housing.
	3. Disengage the housing.	 A photograph showing the white plastic housing being lifted away from the drawer's interior. A hand is visible at the bottom right, holding the housing. The housing is partially detached from the metal frame.
	4. Unscrew 4 bolts. (2 bolts each on the both sides)	 A photograph of the interior of the drawer with the housing removed. Four green screws are visible, two on each side. Two of these screws are circled in red. A red circle with the number '4' is at the top left, with a red arrow pointing to the screws.
	5. Lifting up the convertible door, remove the convertible door from the rail.	 A photograph showing a person's hands lifting the convertible door from the drawer's rail. The door is being held up by the hands, and the rail is visible below it.

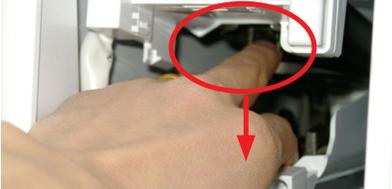
## 3-21) Flex Zone Door

Part Name	How To Do	Descriptive Picture
<b>Mid drawer</b>	6. Remove the shaft gear(2) by pull the pin(2) out.	
	7. Remove the screw and pull out The rail.	

# Disassembly and Reassembly

## 3-22) Ice-Maker

Part Name	How To Do	Descriptive Picture
<p><b>Ice Maker</b></p>	<p>1. When pressing the Energy-Saver and the Fridge buttons on the Display together for 8 seconds at the same time, it will convert to the Test Mode and the entire Display function will be off.</p>	
	<p>2. When pressing any button within 15 seconds after it is shifted to the Test Mode, its function will change in the following order.            Manual operation1(FF) Manual operation2(OF-r) → manual defrost of fresh food compartments(rd) → manual defrost of fresh and freezer compartments(fd) → cancel(Display all off).</p> <ul style="list-style-type: none"> <li>• Set unit to Fd for 5 minutes. This will allow for easy removal of the ice maker.</li> </ul>	
	<p>3. Lift up the Ice Bucket and pull it out.</p>	
	<p>4. Remove the screw from the Wire Housing Cover.</p>	
	<p>5. Remove the Wire Housing Cover.</p>	
	<p>6. Disconnect the Ice Maker Housing Connector.</p>	

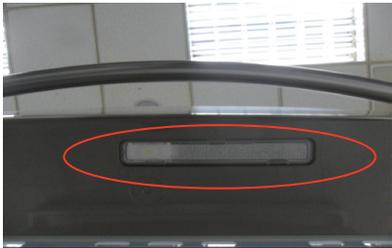
Part Name	How To Do	Descriptive Picture
<b>Ice Maker</b>	7. Remove the screw from the Duct Tray-ice.	
	8. With a flat blade screwdriver, push the duct to the right and remove it from the locking tab. (Refer to the image.)	
	9. With a flat blade screwdriver, pry down on the refrigerant tube to separate it from the bottom of the ice maker. (Refer to the image.)	
	10. Push down the refrigerant pipe slightly and separate the refrigerant pipe and the Ice Maker Assembly completely.	
	11. While pressing the Hook, pull out the Ice Maker.	
	12. While pushing down the Duct-Tray-ice, pull out the Ice Maker carefully and remove it. ※ When removing the ice maker, be careful not to damage the grommets on the tray or the refrigerant tube. (Refer to the dotted parts on the right side photo.)	
	※ If the ice maker is frozen, it can be melt by using the steam heater.	

## Disassembly and Reassembly

### 3-23) Flex Zone Light

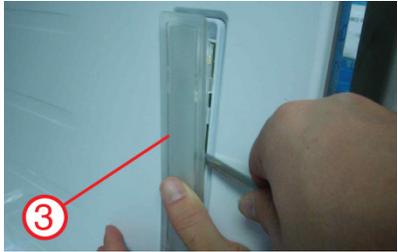
Part Name	How To Do	Descriptive Picture
Flex Zone Light	1. Remove the cover Flex zone lamp (①) by a flat-blade screwdriver.	
	2. Disengage the housing.	

### 3-24) Freezer Light

Part Name	How To Do	Descriptive Picture
Freezer Light	1. Remove the cover Freezer lamp like the way disassembling the Flex zone lamp.	
	2. Disengage the housing.	

## Disassembly and Reassembly

### 3-25) Side Light

Part Name	How To Do	Descriptive Picture
Refrigerator Light	1. Remove the cover Side lamp(③) by a flat-blade screwdriver.	
	2. Separate the Side lamp from the case.	
	3. Disengage the housing.	

### 3-26) Door Switch In Freezer

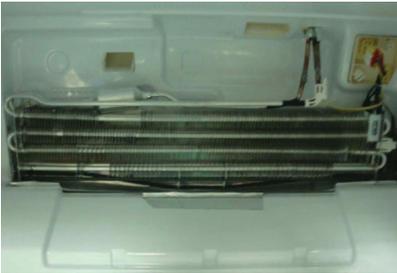
Part Name	How To Do	Descriptive Picture
Door Switch In Freezer	1. Remove the cover Freezer lamp like the way disassembling the Flex zone lamp.	
	2. Disengage the housing.	

## Disassembly and Reassembly

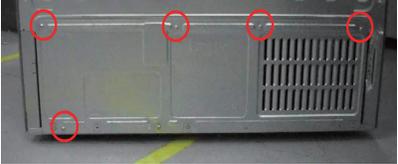
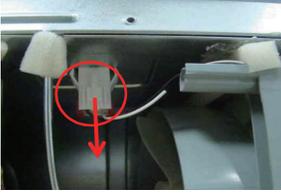
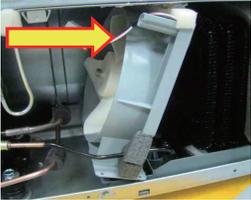
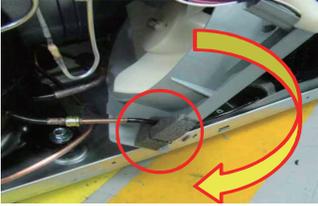
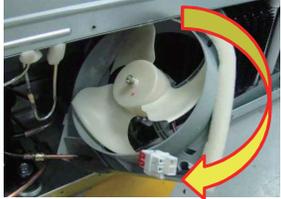
### 3-27) Evaporator Cover In Freezer

Part Name	How To Do	Descriptive Picture
Evaporator Cover In Freezer	1. Remove the freezer door and freezer drawer by pulling out the drawer and then unscrewing 2 screws.	
	2. Lift up the evaporator cover.	
	3. Disengage the 3 housing connectors and remove the evaporator cover.	

### 3-28) Evaporator In Freezer

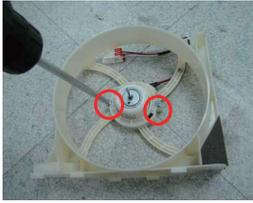
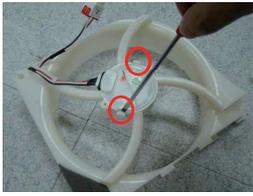
Part Name	How To Do	Descriptive Picture
Evaporator In Freezer	1. Remove the housing connector part left one.	
	2. Remove the evaporator by pulling the lower part of the evaporator while lifting it up.	

## 3-29) Comp Cooling Fan

Part Name	How To Do	Descriptive Picture
<p><b>Comp Cooling Fan</b></p>	<p>1. Unscrew 5 screws of COVER COMP.</p> <p> <b>CAUTION</b> Be careful not to damage from the inner hole of cover comp.</p>	
	<p>2. Remove the DRAIN HOSE.</p>	
	<p>3. Remove 1 screw.</p>	
	<p>4. Disengage the HOUSING CONNECTOR. (Refer to the picture)</p>	
	<p>5. Pull it forward and lean against the DRAIN HOSE.</p>	
	<p>6. Rotate it based on the PIPE.</p>	
	<p>7. The FAN is disassembled. / Assembly it in reverse order.</p>	

## Disassembly and Reassembly

### 3-30) Comp Cooling Fan Motor

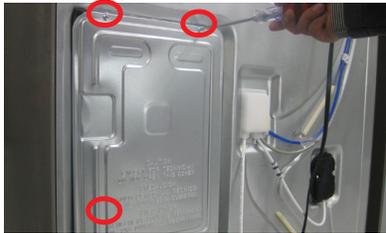
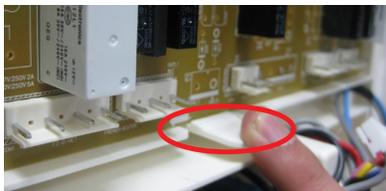
Part Name	How To Do	Descriptive Picture
<b>Comp Cooling Fan Motor</b>	1. Remove the screw with a flat blade screwdriver.	
	2. Remove the motor fan by pulling the fan out while grasping the motor part.	
	3. Unscrew 2 screws fixed in the motor.	
	4. Remove the BRACKET MOTOR with a flat blade screwdriver.	
	5. Remove the MOTOR after pulling the BRACKET MOTOR out.	

## Disassembly and Reassembly

### 3-31) Machine Compartment

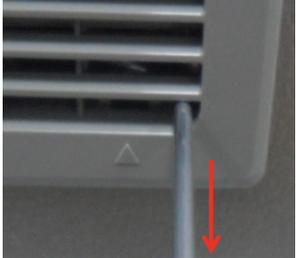
Part Name	How To Do	Descriptive Picture
<b>Relay O/L</b>	1. Disengage the housing connector.	
	2. Remove Cover Relay.	
	3. Remove the relay O/L with a flat-blade screwdriver. (Refer to the picture)	

### 3-32) Electric Box

Part Name	How To Do	Descriptive Picture
<b>PBA Main</b>	1. Remove the 2 screw attached to the upper left and right Case PCB Panel with a phillips screwdriver(+).	
	2. Disengage all housing connectors from the main PCB.  <b>CAUTION</b> Before doing the above, make sure that the unit is unplugged.	
	3. Press the lower locking hook down and remove the Main PBA by pulling it out. (Refer to the picture)	
<b>PBA INVERTER</b>	1. Remove the INVERTER PBA by lifting the upper part of the hook up.	

# Disassembly and Reassembly

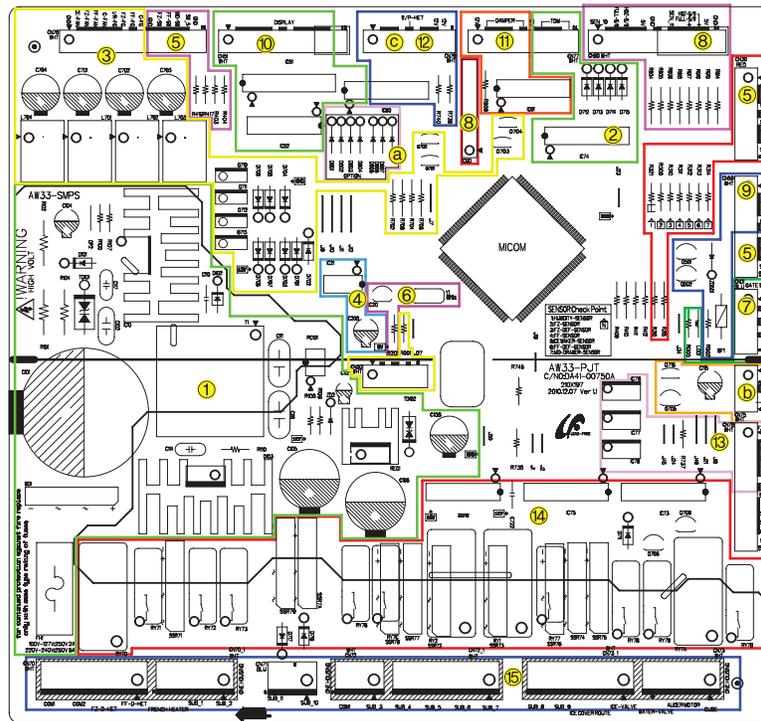
## 3-33) Cover-Unit

Part Name	How To Do	Descriptive Picture
<p><b>Cover-Unit</b></p>	<p>Supplies : A general hexagonal wrench ( Thickness is under 6mm )</p>	
	<p>1. Check the hook on the mark of "△".</p>	
	<p>2. Inset the wrench to the side of hook on the mark of "△"</p>	
<p>3. Pull with the arrow direction and remove it.</p>		

## 5. PCB DIAGRAM

5-1) PBA Layout with part position .....	104
5-2) PBA Layout with part position (Inverter Board).....	105
5-3) Connector Layout with part position (Main Board).....	106
5-4) Connector Layout with part position (Inverter Board) .....	107

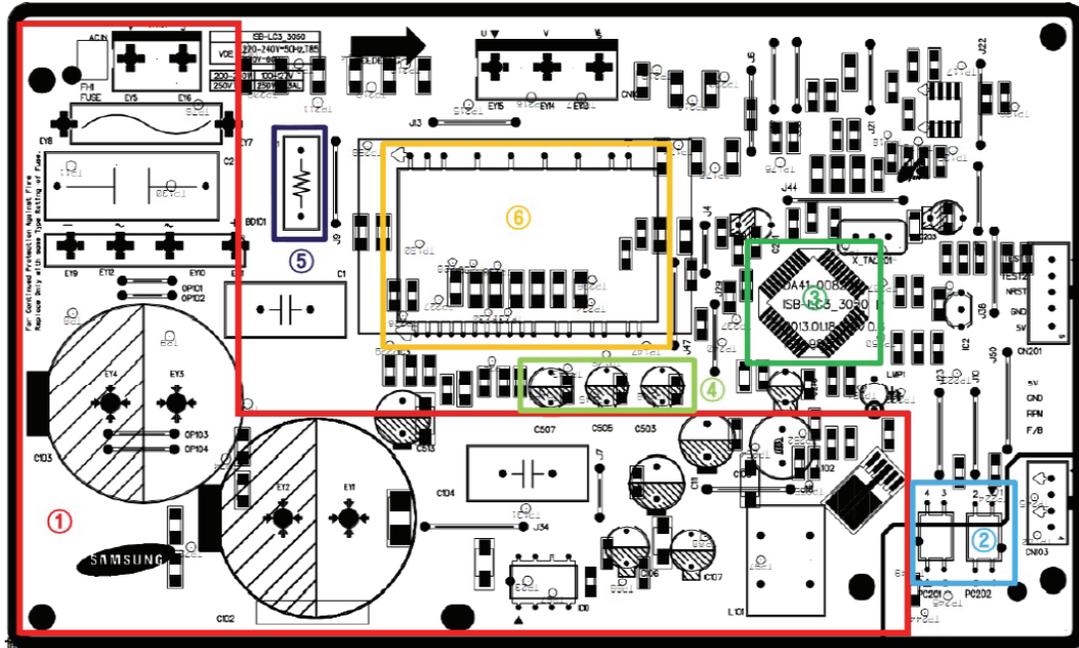
5-1) PBA Layout with part position



1. DC12V, 5V, GND supplied from SMPS PCB (Not Used)
2. Circuit for controlling Step-Valve (3-Way Valve) \* Option
3. FAN MOTOR control part : To supply the power from 8.3V ~ 12V according to the motor types. (F,R,C,ICE)
4. EEPROM : Save and record every kinds of data.
5. Transmit inputted signals from every sensor into MICOM after eliminate the noise.
6. Micom : control the refrigerator Ceramic resonator : generate the basic frequency of Micom operation.  
Reset IC : make Micom reset if input voltage of Micom is detected less than the specified voltage
7. PLC input/output
  - PLC (Power Line communication) \* Option (PLC module is not inserted unless specified occasion)
8. Operate ICE-MAKER, supply power to MOTOR, and sense the variation of switch.
9. Main Micom ↔ Panel Micom serial communication circuit – Dispenser option input part (Water & Cover Ice route switch)
10. Mid drawer Room display control part : display LED, detect KEY state.
11. Control Mid drawer Room damper & Damper heater
12. Water Tank Heater Controls (also controls other options)
13. LED LAMP Control Circuit (F,R room Lamp)
14. Relay parts that controls AC load and receives Micom operating signal through Sink IC.
15. Connector with AC load
  - a. Diode option setting area
  - b. Inverter COMP controlling signal
  - c. Flow Sensor controlling signal

## PCB DIAGRAM

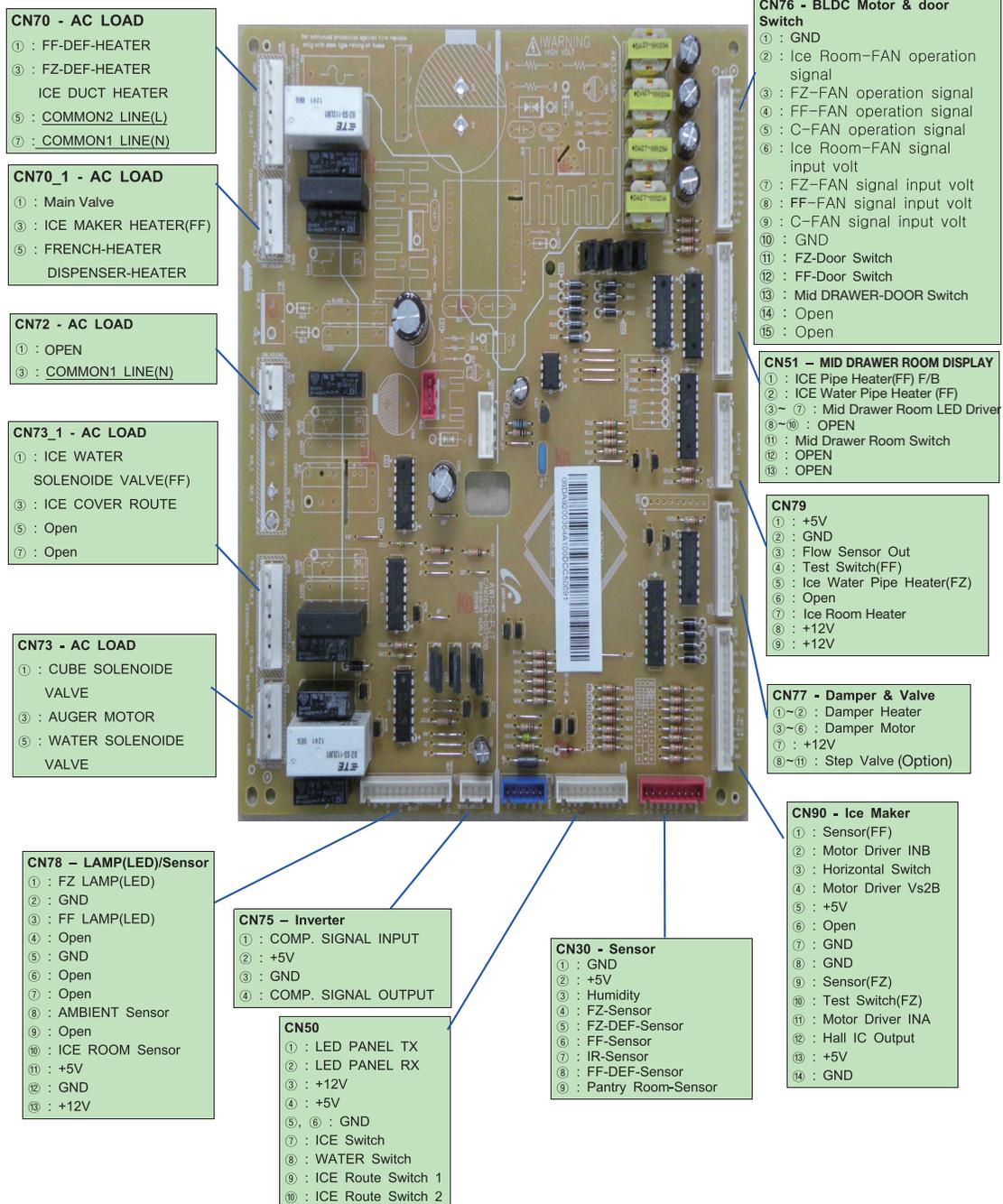
### 5-2) PBA Layout with part position (Inverter Board)



1. PCB Power Supply : From the AC Input Voltage(115V), it supplies DC 15V and 5V to the Inverter circuit for the Compressor control.
2. COMP Driving / Feedback Circuit  
It receives the COMP operation signals from the Main PBA and feedbacks the inverter errors to the Main PBA.
3. Micom (MN103SFC2D)
4. BOOTSTRAP Charger : It is an independent power circuit for the driving of the IMP High-Phase IGBT.
5. Current Pickup Circuit : It pickups the currents taken by the Shunt resistance and does the PWM DUTY control.
6. IPM (FNE41060)

5-3) Connector Layout with part position (Main Board)

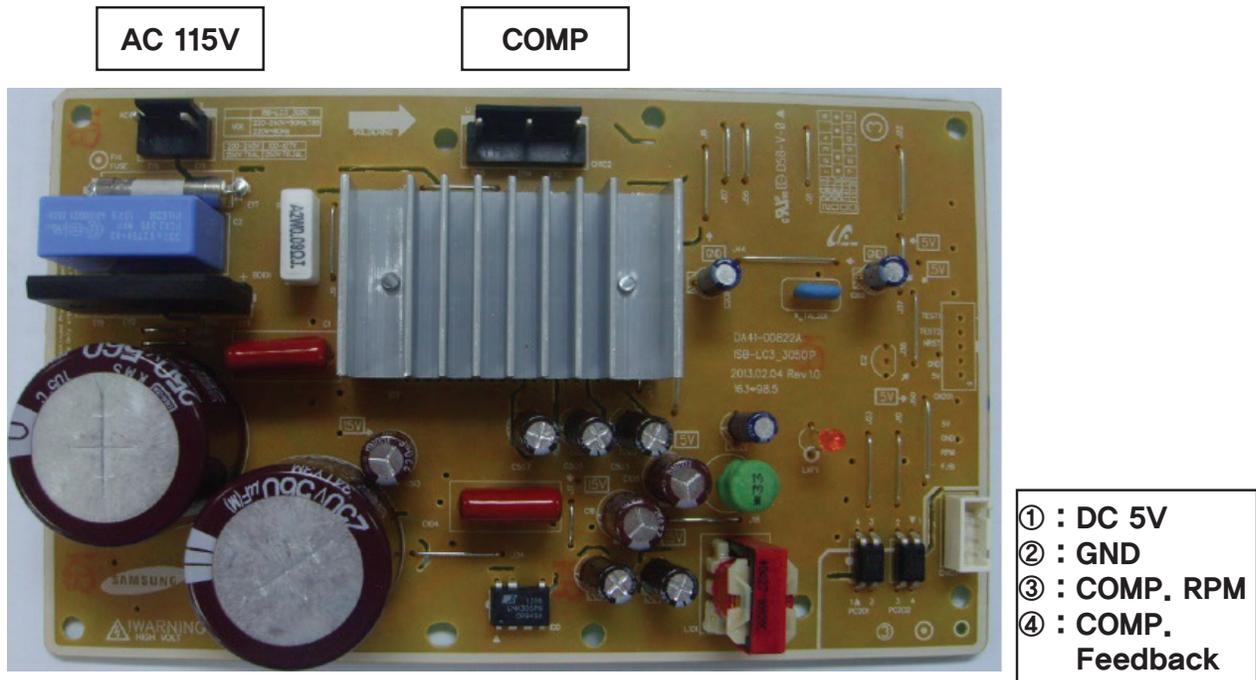
5-3-1. RF28\*\* / RF25HM\*\*



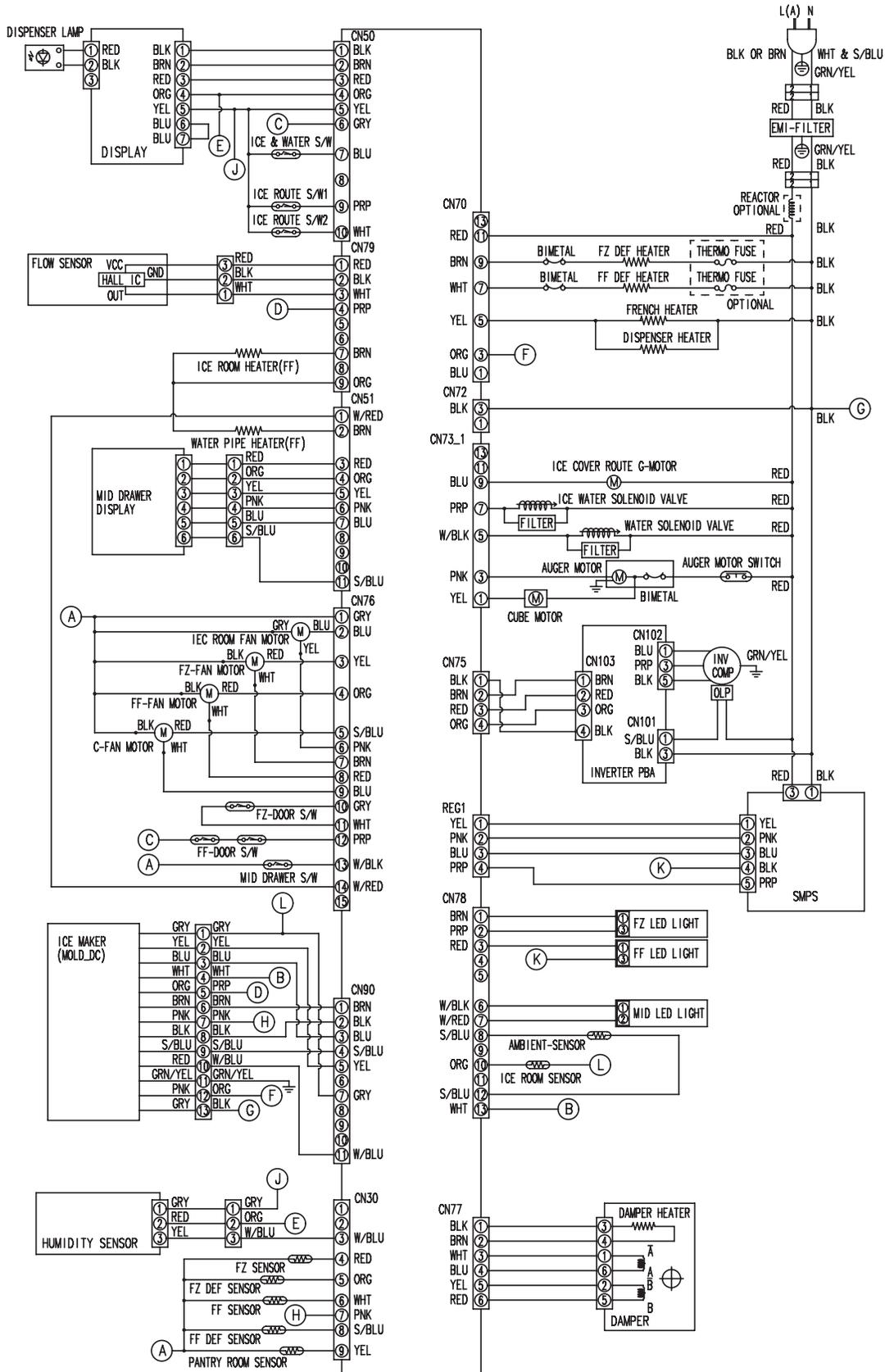
## PCB DIAGRAM

### 5-4) Connector Layout with part position (Inverter Board)

#### 5-4-1. RF28\*\* / RF25HM\*\*



6-1) Model : RF28\*\* / RF25HM\*\*



## 7. Block Diagram

### 7-1) Whole block diagram

#### 7-1-1. MODEL : RF28HM\*\* / RF25HM\*\*

