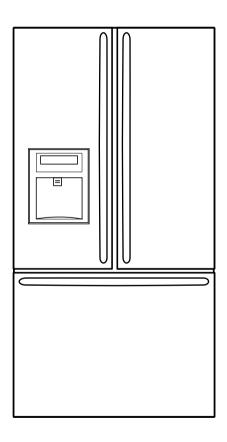


# REFRIGERATOR SERVICE MANUAL

CAUTION
BEFORE SERVICING THE UNIT,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



#### Model #s:

795.71052.01\*

795.71053.01\*

795.71054.01\*

795.71056.01\* 795.71059.01\*

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# **SAFETY PRECAUTIONS**

Please read the following instructions before servicing your refrigerator.

- 1. Unplug the power before handling any elctrical componets.
- 2. Check the rated current, voltage, and capacity.
- 3. Take caution not to get water near any electrical components.
- 4. Use exact replacement parts.
- 5. Remove any objects from the top prior to tilting the product.

# 1. SPECIFICATIONS

# 1-1 DISCONNECT POWER CORD BEFORE SERVICING IMPORTANT - RECONNECT ALL GROUNDING DEVICES

All parts of this appliance capable of conducting electrical current are grounded. If grounding wires, screws, straps, clips, nuts or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

#### 1-2 IMPORTANT NOTICE

This information is intended for use by individuals possessing adequate backgrounds of electrical, electronic and mechanical experience. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

#### 1-3 ELECTRICAL SPECIFICATIONS

Temperature Control (Freezer Com	partment) $\cdot$ -6°F to +8°F
Defrost ControlTotal Comp Rur	nning Time: 7 hrs~50 hrs
Defrost Thermostat	46°F
Electrical Rating: 115VAC, 60Hz	5.2 A
Maximum Current Leakage	0.5 mA
Maximum Ground Path Resistance	0.14 Ohms
Energy Consumption	28cu,ft. 528 (E/STAR)

# 1-4 NO LOAD PERFORMANCE CONTROL POSITION: MID/MID

And Ambient of :	. 70°F	90°F
Fresh Food, °F	33°F to 41°F	33°F to 41°F
Frozen Food, °F	-4°F to +4°F	4°F to +4°F
Percent Running Time	35%-45%	50°F-70°F

#### 1-5 REFRIGERATION SYSTEM

Minimum Compressor Capacity \	/acuum 21 MIN.
Minimum Equalized Pressure	
@ 70°F	49 PSIG
@ 90°F	56 PSIG
Refrigerant R134a	4.93 oz.
Compressor	956 BTU/hr

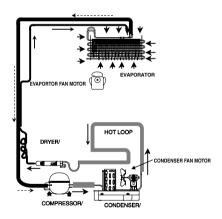
## 1-6 INSTALLATION

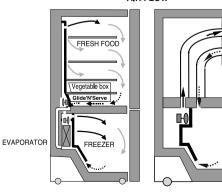
Clearance must be provided at rear of the refrigerator fo	ra	air
circulation.		
AT REAR	1	in

#### 1-7 REPLACEMENT PARTS

	28cu,ft 795.71052.01* 795.71053.01* 795.71054.01* 795.71056.01* 795.71059.01*
Defrost Thermostat	
Defrost Heater	
Evaporator Fan Motor	
Capacitor (Running)	
Compressor (Hi-Side)	
Evaporator (Lo-Side)	5421JJ1003L
Condenser	
Dryer	5851JA2007E
Condenser Fan Motor	4681JB1029D
Temperature Control	ACQ76217902(STS)
•	ACQ76217904(WB)
	ACQ76217906(SW)
	ACQ76217907(TI)
	ACQ76217908(BI)
Main Control	` ,
Ice Fan Motor	
ice ran iviolor	
	(4681JB1029E)
Refrigerator Fan Motor	4681JB1027J

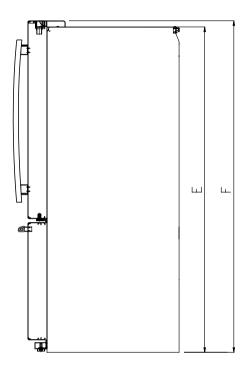
## 1-8 AIR FLOW / CIRCULATION D'AIR

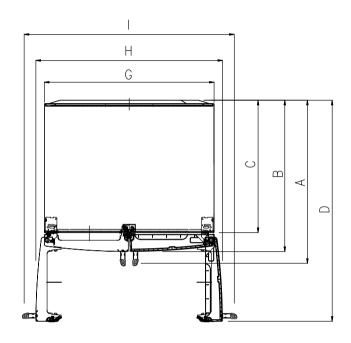




MIXED AIR

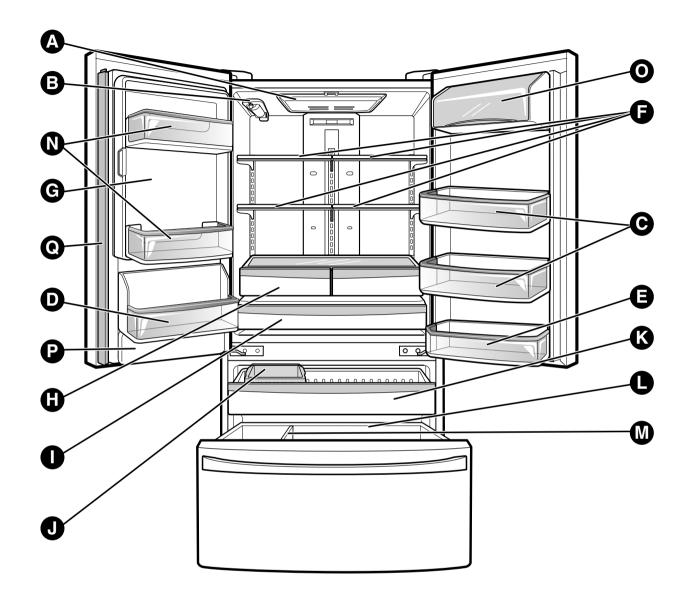
AIR RETURN TO





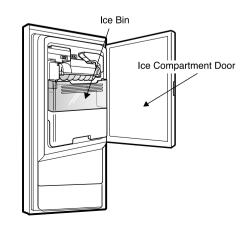
Description	795.7105*	
Depth w/ Handles	Α	35 3/8 in
Depth w/ Handles	В	32 7/8 in
Depth w/ o Door	С	29 in
Depth (Total with Door Open)	D	47 5/8 in
Height to Top of Case	E	68 3/8 in
Height to Top of Door Hinge	F	69 3/4 in
Width	G	35 3/4 in
Width (door open 90 deg. w/o handle)	Н	39 1/4 in
Width (door open 90 deg. w/ handle)	I	44 1/4 in

# 2. PARTS IDENTIFICATION



- A Refrigerator Light
- **B** Filter (Inside)
- **Modular Door Bins**
- Fixed Door Bin
- Fixed Door Bin
- Refrigerator Shelves
- (Ice Room (Ice Maker and Ice Bin)
- Humidity Controlled Crisper
- Temperature Controlled Pantry Drawer
- Extra Ice Bin

- Pullout Drawer
- Durabase
- Divider
- N Door Bins
- Dairy Bin
- Water Tank Cover
- Mullion



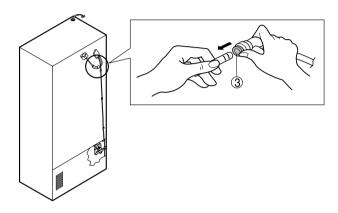
# 3. DISASSEMBLY

#### 3-1 REMOVING AND REPLACING REFRIGERATOR DOORS

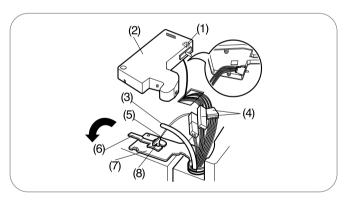
#### To remove the left refrigerator door:

Pull the water tube out of the fitting while pressing the release ring on the fitting.

When you pull out the tube, first you have to push the collet by opposite direction of arrow in the upper picture and tube pull out by direction of arrow.



▲ CAUTION: Before you begin, remove food and bins from the doors.

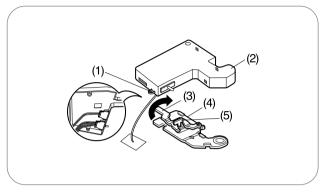


- Open the door. Remove the top hinge cover screw (1).
- Use a flat-head screwdriver to pry back the hooks (not shown) on the front underside of the cover (2).
   Lift up the cover.
- Remove the cover. Pull out the tube (3).
- Disconnect all the wire harnesses (4).
- Remove the grounding screw(5)
- Rotate hinge lever (6) counterclockwise.
   Lift the top hinge (7) free of the hinge lever latch (8).

**IMPORTANT:** When lifting the hinge free of the latch, be careful that the door does not fall forward.

- Lift the door from the middle hinge pin and remove the door.
- Place the door, inside facing up, on a nonscratching surface.

#### To remove the Right refrigerator door:



- Open the door. Remove the top hinge cover screw (1).
   Lift up the cover (2).
- · Remove the cover.
- Rotate the hinge lever (3) clockwise.
   Lift the top hinge (4) free of the hinge lever latch (5).
   IMPORTANT: When lifting the hinge free of the latch, be careful that the door does not fall forward.

# **WARNING**

#### **Explosion Hazard**

- Disconnect electrical supply to the refrigerator before installing. Failure to do so could result in death or serious injury.
- Do not put hands or feet or other objects into the air vents, base grille, or bottom of the refrigerator.
   You may be injured or receive an electrical shock.
- Be careful when you work with the hinge, base grille, and stopper. You may be injured.

## **3-2 DOOR**

- Mullion Removal
- 1. Remove 2 screws.



2. Lift mullion up carefully.

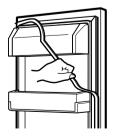


3. Disconnect wire harness.



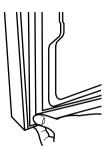
- Door Gasket Removal
- 1. Remove gasket

Pull gasket free from gasket channel on the four remaining sides of door.



- Door Gasket Replacement
- 1. Insert gasket into channel

Press gasket into channels on the four remaining sides of door.



- Mullion Replacement
- 1. Connect wire harness.



**2. Insert mullion into channel.**Inserting mullion assy' into bracket, door



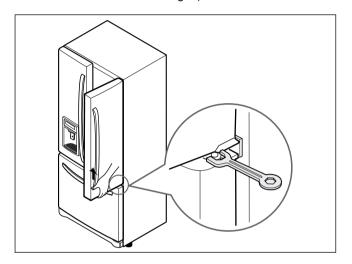
3. Assemble 2 screws.



## 3-3 Door Alignment

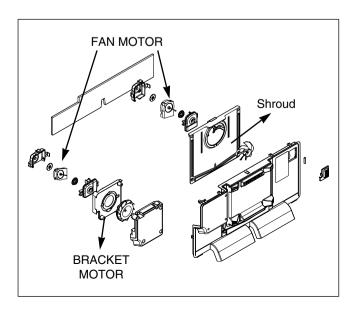
If the space between your doors is uneven, follow the instructions below to align the doors:

Remove the Base Grillie. Turn the leveling legs (CCW) to raise or (CW) to lower the height of the front of the refrigerator by using flat blade screw driver or 11/32" wrench. Use the wrench (Included with the User Manual) to adjust the bolt in the door hinge to adjust the height. (CCW to raise or CW to lower the height.)

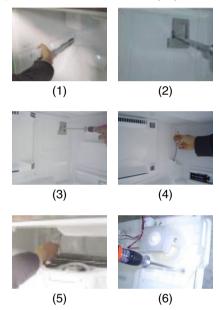


#### 3-4 FAN AND FAN MOTOR(EVAPORATOR)

- 1. Remove the freezer drawer. (If your refrigerator has an icemaker, remove the icemaker first)
- 2. Remove the plastic guide for slides on left side by unscrewing phillips head screws.
- 3. Remove the grille by removing four screws and pulling the grille forward.
- 4. Remove the Fan Motor assembly by loosening 3 screws and disassembling the shroud.
- 5. Pull out the fan and separate the Fan Motor and Bracket.



- \* Ice Fan Scroll Assembly Replacement
  - 1) Remove the plastic guide for slides on left side by unscrewing phillips head screws.
  - 2) Pull out the cover sensor to disassemble using tools shown in the figure.
  - 3) Pull out the cover grille to disassemble using tools shown in the figure.
  - 4) Put your hand into the inside of grille to disassemble shown in the figure.
  - 5) Disconnect wire harness of the grille
  - 6) Remove the scroll assembly by loosening all screws

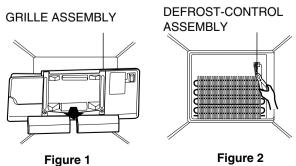


#### 3-5 DEFROST CONTROL ASSEMBLY

Defrost Control assembly consists of Defrost Sensor and FUSE-M.

The Defrost Sensor works to defrost automatically. It is attached to the metal side of the Evaporator and senses its temperature. At 46F(8°C), it turns the Defrost Heater off. Fuse-M is a safety device for preventing over-heating of the Heater when defrosting.

- 1. Pull out the grille assembly. (Figure 1)
- 2. Separate the connector with the Defrost Control assembly and replace the Defrost Control assembly after cutting the Tie Wrap. (Figure 2)



#### **3-6 LAMP**

Unplug Refrigerator, or disconnect power at the circuit breaker.

If necessary, remove top shelf or shelves.

## 3-6-1 Refrigerator Compartment Lamp

- 1) Release 2 screws.
- Hold both ends with your both hands and pull it downward to remove it.





3) To remove the case lamp and cover lamp, release another 2 screws as following picture.



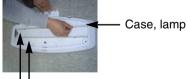
3) Use a flat blade screwdriver as shown below to remove the cover lamp.





4) To remove the LED Assembly, open the Hook part to pull it out as shown in the following picture.

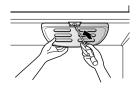


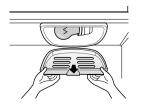


Cover, lamp LED, Assembly

## 3-6-2 Freezer Compartment Lamp

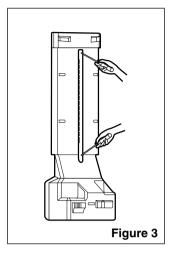
- 1. Unplug refrigerator power cord form outlet.
- 2. Remove screw with driver.
- 3. Grasp the cover Lamp,pull the cover downward.





## 3-7 MULTI DUCT

- Remove the upper and lower Caps by using a flat screwdriver, and remove 2 screws. (Figure 3)
- 2. Disconnect the lead wire on the bottom position.



#### 3-8 MAIN PWB

- ▲ WARNING: Unplug the refrigerator before removing the control board.
- 1) Loosen the 3 screws on the PWB cover.



2) Remove the PWB cover



3) Disconnect wire harness and replace the main PWB in the reverse order of removal.



## 3-9 DISPENSER

1) Disconnect funnel by pulling down and forward.



2) Follow the steps in the pictures.



3) Use a flat blade screwdriver at bottom side hole of the "Cover Assembly dispenser" to detach hooks of the bottom side.



**3-11 FUNNEL REPLACEMENT** 

- 1) Pull up and out on the dispenser cover to remove.
- 2) Remove 2 screws.
- 3) Disconnect the wire harness.
- 4) Replace in reverse order.

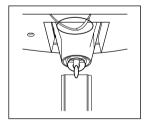




3) Hold the bottom side of the "Cover Assembly, dispenser" as shown in the picture, and pull and remove it. The cover dispenser is attached with a hook.



**A CAUTION:** When replacing the dispenser cover in the reverse order of removal, be careful that the lead wire does not come out and the water tube is not pinched by the dispenser cover, as shown in the picture below.



3-10 DISPLAY PWB REPLACEMENT

## 3-12 SUB PWB FOR WORKING DISPENSER

1) Loosen the screw on the sub PWB.





- 2) Pull the sub PWB down.
  - 3) Disconnect the wire harness and replace the sub PWB in the reverse order of removal.





## **3-13 CAP DUCT REPLACEMENT**

- 1) Pull up and out on the dispenser cover to remove.
- 2) Disconnect the wire harness.
- 3) Remove the funnel.
- 4) Replace in reverse order.





#### 3-14 CAP DUCT MOTOR REPLACEMENT

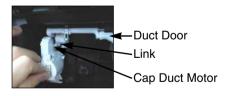
1) Separate the Housing of the Cap Duct Motor.



2) Unscrew 3 screws to disassemble the motor.



3) When replacing to a new Motor, always check position of the Duct Door and Link to install the Motor.





NG Position

4) Assemble on the screws.

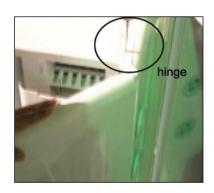


5) Contract the Housing.



# 3-15 ICE CORNER DOOR REPLACEMENT

- 1) Loosen the front screw as shown in the picture.
- 2) Lift up the hinge with one hand.
- 3) Pull out the Ice Corner Door with the other hand.



# 3-16 Icemaker replacement

1) Remove the stainless screws marked in the picture below.



2) Grasp the bottom of motor cover assembly and pull it out slowly.



3) Disconnect wire harness from wall of compartment.





▲ CAUTION: Make sure that the wire harness shown below is positioned properly in the clips on the back of the cover, and taped in place. If this harness is loose it will not allow the motor housung assembly to fit flush to the door liner.





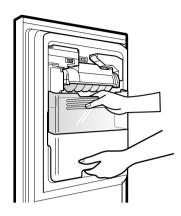




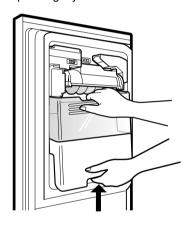
In-door motor

# 3-17 HOW TO REMOVE A ICE BIN

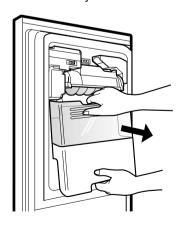
1) Grip the handles, as shown in the picture.



2) Lift the lower part slightly.

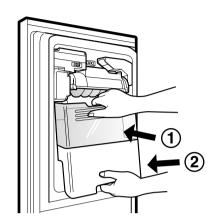


3) Take the Ice Bin out slowly.



## 3-18 HOW TO INSERT A ICE BIN

1) Insert the Ice Bin, slightly tilting it to avoid touching the Icemaker. (Especially, Ice-Detecting Sensor)



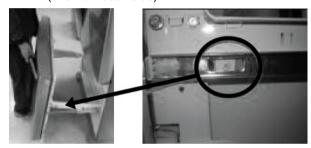
## 3-19 HOW TO REMOVE AND REINSTALL THE PULLOUT DRAWER

## 3-19-1 Follow Steps to Remove

Step 1) Open the freezer door.



Step 3) Remove the two screws from the guide rails (one from each side).



Step 2) Remove the lower basket.



Step 4) Lift the freezer door up to unhook it from the rail support and remove.

Pull both rails to full extension.

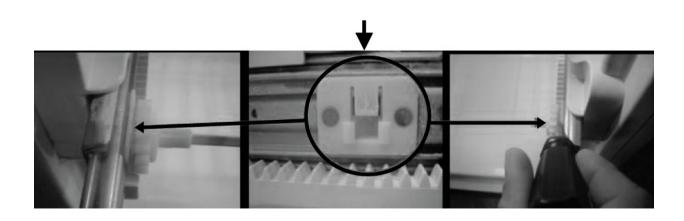


Step 5) First: Remove the gear from the left side first by releasing the tab behind the gear, place a screwdriver between the gear and the tab and pull up on the gear.

Second: Remove the center rail.

Third: Remove the gear from the right side by following the same steps for the left side.

## NOTE: THIS TAB MUST BE PUSHED IN TO RELEASE THE GEAR.



# 3-19-2 Follow Steps to Reinstall

Step 1) Reinstall the right side gear into the clip.







Step 2) Insert the rail into the right side gear. Gears do not need to be perpendicular to each other.



Step 3) Insert the rail into the left side gear, and insert the gear into the clip.



Step 4) The rail system will align itself by pushing the rails all the way into the freezer section.

Pull the rails back out to full extension.

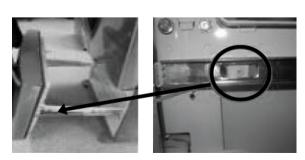




Step 5) Reinstall the freezer door by inserting the rail tabs into the guide rail.



Step 6) Reinstall the two screws into the guide rails (one from each side).



Step 7) Reinstall the lower basket, and close the freezer door.



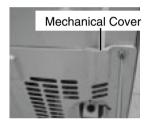
## 3-20 WATER VALVE DISASSEMBLY METHOD

1) Turn off the water. Then separate the water line from the valve.



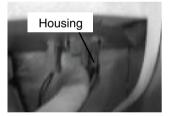


2) Separate the Mechanical Cover and Valve Screw.





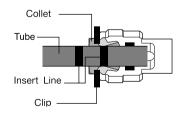
3) Separate the housing and pull out the valve.





4) Befrore disconnecting the water lines, place a towel under the water valve to catch any water that may come out. Pull out the clip and press the collet to separte the water line from the valve.





# 3-21 FAN AND FAN MOTOR DISASSEMBLY METHOD

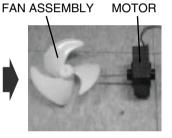
 Using a short screwdriver, loosen one SCREW in DRAIN PIPE ASSEMBLY and one connected to the MOTOR COVER.





Pull and separate the FAN ASSEMBLY and MOTOR turning counterclockwise based on the MOTOR SHAFT.



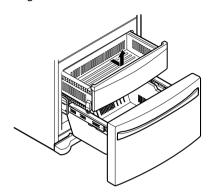


The assembly is in the reverse order of the disassembly and take special care for the following details.

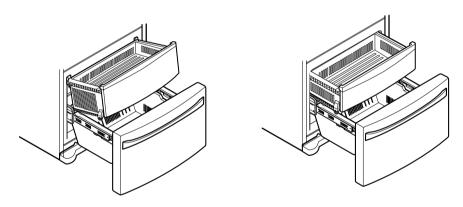
- 1. Be careful not to bend the tube during assembly.
- Press the WATER DISPENSER button until water pours out and check for leakage in the CONNECTOR TUBE (It differs by the water pressure but usually takes about 2 minutes until water pours out.)

# **3-22 PULL OUT DRAWER**

To remove, pull the drawer out to full extension. Lift the front of the drawer up, then pull it straight out.



To install, slightly tilt up the front and insert the drawer into the frame and push it back into place.



# 4. ADJUSTMENT

#### 4-1 COMPRESSOR

#### 4-1-1 Role

The compressor intakes low temperature and low pressure gas from the evaporator of the refrigerator and compresses this gas to high-temperature and high-pressure gas. It then delivers the gas to the condenser.

#### 4-1-2 Note for Usage

- (1) Be careful not to allow over-voltage and over-current.
- (2) Do not drop or handle carelessly.
- (3) Keep away from any liquid.
  If liquid such as oil or water enters the Cover PTC
  Compressor may fail due to breakdown of their insulating capabilities.
- (4) Always use the Parts designed for the compressor and make sure it is properly attached to the compressor. Parts may appear physically identical but could have different electrical ratings. Replace parts by part number and model number. Use only approved substitute parts.

#### 4-1-3 REMOVE THE COVER PTC





(1) Remove the Cover Back M/C





(2) Loosen two screws on comp base



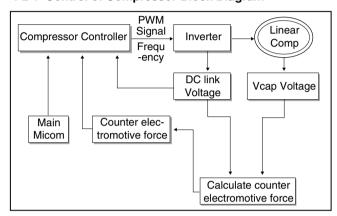


- (3) Use a L-shaped flap tooll to pry off the cover
- (4) Assembly in reverse order of disassembly

## 4-2 Introduction of E-Linear Compressor

 E-Linear compressor is run by mechanical part design through automatically varying the cooling power. The main parts consist of compressor and Sub PCB which controls the compressor. PCB authorizes constant voltage and constant frequency to the compressor and protects it.

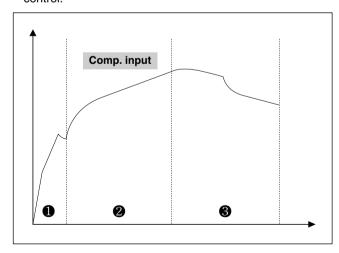
#### 4-2-1 Control of Compressor Block Diagram



**Control Block Diagram of Compressor** 

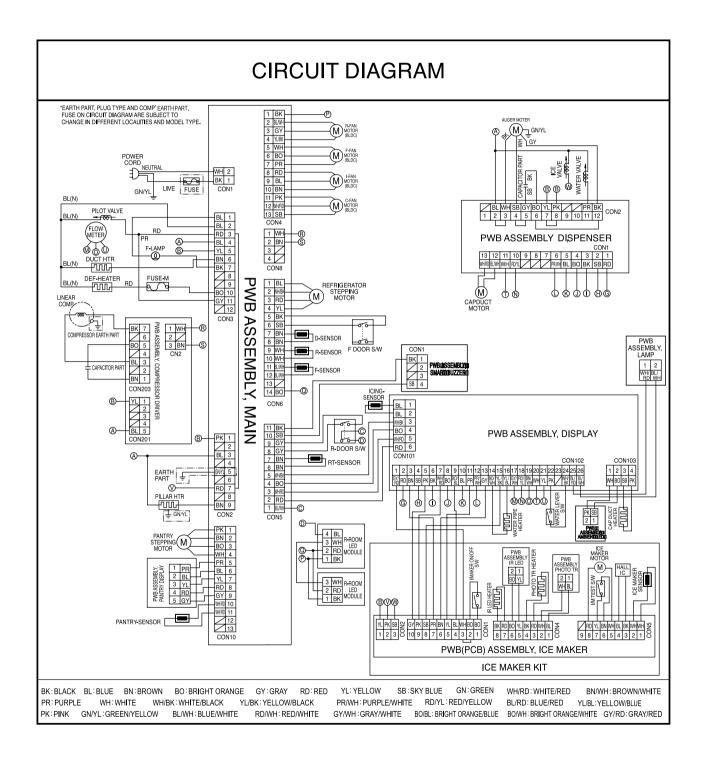
#### 4-2-2 Compressor operating pattern

 Drive half stroke after turning on initial power for 30 seconds. Then, slowly increase stroke and reach target input. Once reaching the target input, input naturally changes according to refrigerator load without any special control.



- Interval 1) Half stroke interval after initial running, stay at the initial value for 30 seconds
- Interval 2) Running interval Increase at every 0.8 till it reaches the target input; it takes about 3' 45"
- Interval 3) CVCF interval Run by target voltage and main operating frequency and the input naturally changes according to refrigerator load

# 5. CIRCUIT DIAGRAM



# 6. TROUBLESHOOTING

# 6-1. Error Code Summary

▲ WARNING: When you check the Resistance values, be sure to turn off the power.

And wait for the voltage-discharge sufficiently.

NOTE) 3 hours before the error: Press the Ultra ICE button and Freezer button simultaneously 3 hours after the error: All errors, except for "Er rt", "Er SS", "Er IS(except for Icing sensor)", "Er gF", "Er It" error, are displayed.

"Er IS" which is displayed without input of user is the error of Icing Sensor.



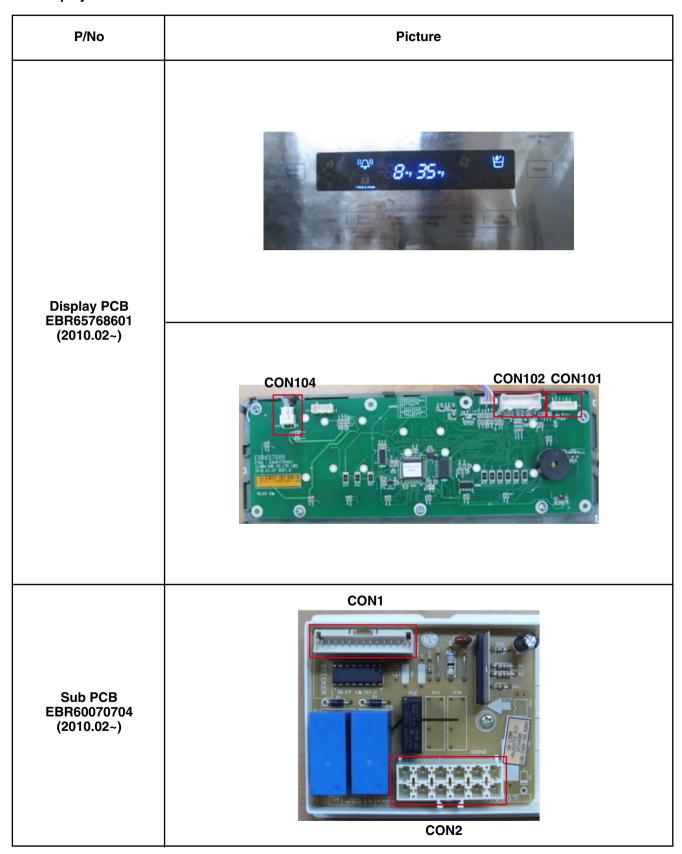
	Error Datastian	or Detection Error Display				
NO	Category Freezer Freezer Temperature Temperature		Error Generation Factors	Remark		
1	Normality			None	Normal operation of Display	
2	Freezer Sensor Error	Er	FS	Short or Disconnection of Freezer Sensor		
3	Refrigerator Sensor Error	Er	rS	Short or Disconnection of Refrigerator Sensor		
4	Defrosting Sensor Error	Er	dS	Short or Disconnection of Defrosting Sensor		
5	Icing Sensor Error	Er	IS	Short or disconnection of the sensor about Ice maker (Icing sensor, Ice maker sensor)	Check each sensor and its connector.	
6	Pantry sensor error	Er	SS	Short or Disconnection of Pantry Sensor		
7	Room Temp Sensor Error	Er	rt	Short or Disconnectoin of Room temp.sensor		
8	Ice maker kit defect	Er	It	Other Electric system error such as moter, gear, Hall IC, operation circuit within I/M kit	When the ice does not drop even when the I/M Test S/W is pressed (same as model applied Twisting Ice Maker before)	
9	Flow Meter(Sensor) Defect	Er	gF	Error of flow meter or water input or low water pressure	Error of flow meter or water input or low water pressure or flow meter connection	
10	Poor Defrosting	Er	Er dH Even though it is passed 1 hour since then Defrosting, if Defrosting sensor is not over 46°F(8°C), it is caused		Temperature Fuse Disconnection, Heater disconnection, DRAIN Jam, Poor Relay for Heater	
11	Abnormality of BLDC FAN Motor for Ice Making	Er	IF	It is caused when feedback signal isn't over 65 seconds during BLDC FAN motor operating	Poor BLDC Motor connection, DRIVE IC, and TR	
12	Abnormality of BLDC FAN Motor for Freezer	Er	FF	It is caused when feedback signal isn't over 65 seconds during BLDC FAN motor operating	Poor BLDC Motor connection, DRIVE IC, and TR	
13	Abnormality of BLDC FAN MOTOR For Refrigerator	Er	rF	It is caused when feedback signal isn't over 65 seconds during BLDC FAN motor operating	Poor BLDC Motor connection, DRIVE IC, and TR	
14	Abnormality of BLDC FAN Motor for Mechanic Room	Er	CF	It is caused when feedback signal isn't over 65 seconds during BLDC FAN motor operating	Poor BLDC Motor connection, DRIVE IC, and TR	
15	Communication		Communication Error between Micom of Main PCB and Display Micom	Poor Communication connection,Poor TR of Transmitter and Receiver Tx/Rx between display and main board.		

# 7. PCB Picture

# 7-1 Main PCB

P/No & MFG	Picture
EBR65002701 (2010.02~)	CON1  CON2  CON3  CON4  CON10
EBR64173902 (2010.02~) Refer to 48Page	CON203  CON201  CON201  CON201

# 7-2 Display PCB & Sub PCB



# 8. Troubleshooting With Error Display

# 8-1 Freezer Sensor Error (Er FS)

No	Checking flow	Result & SVC Action				
1	Check for a loose connection.					
2	2 Check the Blue/White to Blue/White.		Re	esult	SVC Action	
	1/A (60)		) Ω	Short	Change the sens	or
	0-500 (0-		OFF	Open	Replace the refrige	rator
			ther	Normal	Check the Temp a resistance (Table	
	<con6></con6>				ature table-1>	1
				(1) To (2)	Result	
			-22	2°F / -30°0	C 40 kΩ	
			-10	3°F / -25°0	C 30 kΩ	
			-4	°F / -20°C	<b>23</b> kΩ	
			5°F / -15°C		<b>17</b> kΩ	
			14	°F / -10°C	C 13 kΩ	
			2	3°F / -5°C	<b>10</b> kΩ	
		32°F / 0°C 8 kΩ				
		1	he te	mperature.	kΩ indicates -4°F.	

# 8-2 Refrigerator Sensor Error (Er rS)

No	Checking flow			Result	& SVC Action	
1	Check for a loose connection.					
2	Check the White to White.		Re	esult	SVC Action	
	0-1119-100 (CA) 0-100 P-100 P-100 (CA) 150	0	Ω	Short	Change the sens	or
		OF		Open	Replace the refrige	rator
			ther Normal		Check the Temp a resistance (Table	
	<con6></con6>			<temper< th=""><th>ature table-2&gt;</th><th>_</th></temper<>	ature table-2>	_
				(1) To (2)	Result	
			23	3°F / -5°C	<b>38</b> kΩ	
			(3)	32°F / 0°C	<b>30</b> kΩ	
			4	1°F / 5°C	<b>24</b> kΩ	
			50°F / 10°C 59°F / 15°C		19.5 kΩ	
					<b>16</b> kΩ	
		th	e te	mperature.	kΩ indicates 32°F.	

# 8-3 Icing Sensor Error (Er IS)

No	Checking flo	w			Result	& SVC Ac	etion	
1	Check for a loose connec	tion.						
2	Check the Blue to Blue.			Re	esult	S\	/C Action	
		THE OWNER OF THE OWNER, WHEN		Ω	Short	Chang	ge the sens	sor
			l	)FF	Open		the refrige	
				ther	Normal	Check	the Temp a	and
					<temper< th=""><th>ature tab</th><th>le-1&gt;</th><th></th></temper<>	ature tab	le-1>	
					(1) To (2)	R	lesult	
				-22	2°F / -30°0		<b>40</b> kΩ	
	Pana	III AN PARK STATE		-13	3°F / -25°0		<b>30</b> kΩ	
				-4	°F / -20°C	; 2	<b>23</b> kΩ	
			5	°F / -15°C	-	<b>17</b> kΩ		
			14°F / -10°C		; -	<b>13</b> kΩ		
			·			10 kΩ		
	0000	A =		32°F / 0°C			<b>8</b> kΩ	
	<display></display>	<con101></con101>	1	he te	ensor is de mperature. cample, 23		-	

# 8-4 Defrost Sensor Error (F dS)

No	Checking flow				Result	& S	VC Action	
1	Check for a loose connection.							
2	Check the Orange to Orange.							
	-			Re	sult		SVC Action	
		╽┟	0 Ω	-+	Short		Change the sense	
		╽┟	OFF		Open		eplace the refriger	
			Othe	er	Normal		Check the Temp a resistance (Table-	na 3)
	Check the Brown to Brown.			!	∠Temper	atuu	ro table-3>	
	Contribution 1775 In contribution (77,155)	<temperature table-3=""> (1) To (2) Result</temperature>					Result	
			-22°F / -30°0 -13°F / -25°0					
						_	<b>30</b> kΩ	
			-4°F / -20°C		_	<b>23</b> kΩ	7	
	<con6></con6>			5°F / -15°C		;	<b>17</b> kΩ	$\neg$
			14°F / -10°C			<b>13</b> kΩ		
				23°F / -5°C		;	<b>10</b> kΩ	
				3	2°F / 0°C		<b>8</b> kΩ	
		;	the	ter	ensor is de mperature. ample, 23		mined by	

# 8-5 Defrost Heater Error (Er dH)

No	Checking flow			Result &	SVC Action	
1	Check the <u>Door gasket.</u>					_
			Part	Resul	t SVC Action	
2	Check the <u>Defrost control part.</u>	╽╽┎	use-M	0 Ω	Go to the 3	
				Other	Change Fuse-M	
	Fuse Def'		Def'	34~42	Ω Go to the 3	
	M Sensor		Heater	Other	Change Fuse-M	
			Def'	0 Ω	Go to the 3	
	Def' Heater		Sensor	OFF	Replace product	
	Dei Heatei					
3	Input Test 3 Mode. (Push the button 3 times)			occió (()		
4	Check the Blue to Orange.					
			Re	sult	SVC Action	
			112 ~ 1	16 VAC	Go to the 3	
			٥ ٧	/AC	Replace Main PCB	
	OONO					
	<con3></con3>					
5	Release the test mode. push the button 1 times. (normal)			South States		
6	Check the Blue to Orange.					
			Re	sult	SVC Action	
			٥١	/AC	Explain to customer	
			112 ~ 1	16 VAC	Replace Main PCB	
	<con3></con3>					

# 8-6 Freezer Fan Error (Er FF)

No	Checking flow	Result & SVC Action
1	Reset the unit and Input Test 1 Mode. (Push the button 1 time)	PROSERVOROR FORM
2	Open the freezer door and Check the air flow.    While an error code is displayed, the fan is not working.	Status SVC Action No windy Go to 3 Windy Go to 4
3	Check the Fan motor.	Rotate fan using your hand. It feel sticky, change the motor. (cause of ice or rust inside of motor)
4	Check the Fan motor voltage.  (1)(2)(3) <con4></con4>	Point         Result         SVC Action           (1) ~ (2)         Below 12 VDC         Change the PCB           (2) ~ (3)         0 or 5 VDC         Change the motor

# 8-7 Icing Fan Error (Er IF)

No	Checking flow	Result & SVC Action				
1	Reset the unit and Input Test 1 Mode. (Push the button 1 time)	PINE ROOM OF BEEN SE				
2	Open the refrigerator door and Check the air flow.	Status SVC Action  No windy Go to the 3,4  Windy Go to the 5				
3	Check the Connector (Frozen caused the PCB short)	* Tip To protect ice short, add wire seal in connector. We developed new type connector, so order the new type.				
4	Check the Fan motor. (Frozen, Lock, ect.)	Wire seal (Silicon)				
		No Part Name Old P/No New P/No				
	6	Duct Asm, 5209JA 5209JA				
		407A Connector 1044A 1044A				
5	Check the <u>Fan motor voltage.</u>					
	Col Contained Contained	Result SVC Action				
	(1)(2)(3)	(1) ~ (2) Below 12 VDC Change the PCB				
	100 miles (100 miles (	(2) ~ (3) 0 or 5 VDC Change the motor				
	<con4></con4>					

# 8-8 Condenser Fan Error (Er CF)

No	Checking flow	Result & SVC Action
1	Reset the unit and Input Test 1 Mode. (Push the button 1 time)	Solver Fill (Solver Fill)  Solver Control Fill (Solver Fill)
2	Check the fan rotating.  * While an error code is displayed, the fan is not working.	Status SVC Action  No windy Check motor  Windy Go to the 4
3	Check the Fan motor and surrounding.	Rotate fan using your hand. It feel sticky, change the motor.
4	Check the Fan motor voltage.	
	(1)(2)(3) <con4></con4>	Result   SVC Action

# 8-9 Communication Error (Er CO)

No	Checking flow	Result & SVC Action			
1	Check the loose connection.				
2	Check the Red to White Red.	Result SVC Action			
	<con101></con101>	12 VDC Go to the 3			
		Other Check the Hinge (loose connection) Change the Main PCB			
3	Check the Orange to Brown.				
		Result SVC Action			
		0 or 5 VDC Change the Display PCB			
		Other Go to the 4			
	<con101></con101>				
4	Check the <u>Orange to Red.</u>				
		Result SVC Action			
		0 or 5 VDC Change the Main PCB			
		Other Go to the 5			
	<con101></con101>				
5	Check the White/Red to Orange.				
		Result SVC Action			
		0 or 5 VDC Change the Display PCB			
	4450000000	Other Go to the 6			
	<con5></con5>				
6	Check the White Red to White/Black.				
		Result SVC Action			
		0 or 5 VDC Change the Main PCB			
	ZOVONO DO	Other Explain to customer			
	<con5></con5>				

# 9. Troubleshooting Without Error Display

# 9-1 Cube mode doesn't work

No	Checking flow		Result & SVC	Action
1	Check the loose connection.			
2	Check the Black to White.	Lever s/w	Result	SVC Action
	(While pushing the lever S/W)	Duahina	112 ~ 116 VAC	Go to the 3
		Pushing	Other	Change PCB
		Not	0 ~2 VAC	Go to the 3
		pushing	Other	Change PCB
	<con2></con2>			
3	Check the RED to White Red.	Lever s/w	Result	SVC Action
	(While pushing the lever S/W)	Level 5/W	9 ~ 12 VDC	Go to the 4
		Pushing	Other	Change PCB
		Not	0 ~2 VDC	Go to the 4
	- COUSTINE BUTTON	pushing	Other	Change PCB
4	Check the resistance value.	Point	Result	SVC Action
			31.1 ~ 42.1 Ω	Explain
			Other	Replace Geared Motor
			9.9 ~ 12.1 Ω	Explain
		(3) to (4)	Other	Replace Geared Motor
	<li><lce maker=""></lce></li>			
	(1) (2) (3) (4) (4) <geared motor=""></geared>			

# 9-2 Crush mode doesn't work

No	Checking flow	Result & SVC Action				
1	Check the loose connection.					
2	Check the <u>Sky Blue to White.</u> (While pushing the lever S/W)	Lever s/w	Result	SVC Action		
	(write pushing the level 3/w)	D. data.	112 ~ 116 VAC	Go to the 3		
		Pushing	Other	Change PCB		
		Not	0 ~2 VAC	Go to the 3		
		pushing	Other	Change PCB		
	<con2></con2>					
3	Check the <u>RED to White Red.</u> (While pushing the lever S/W)	Lever s/w	Result	SVC Action		
		D. data	9 ~ 12 VDC	Go to the 4		
		Pushing	Other	Change PCB		
		Not	0 ~2 VDC	Go to the 4		
			Other	Change PCB		
	<con1></con1>					
4	Check the resistance value.	Point	Result	SVC Action		
			31.1 ~ 42.1 Ω	Explain		
		(1) to (2)	Other	Replace Geared Motor		
			9.9 ~ 12.1 Ω	Explain		
		(3) to (4)	Other	Replace Geared Motor		
	<pre><li><lce maker="">  (1) (2)</lce></li></pre>					

## 9-3 Water mode doesn't work

No	Checking flow	Result & SVC Action			
1	Check the loose connection.				
2	Check the Purple to White.	Lever s/w	Result	SVC Action	
	(While pushing the lever S/W)		112 ~ 116 VAC	Go to the 3	
		Pushing	Other	Change PCB	
		Not	0 ~2 VAC	Go to the 3	
		pushing	Other	Change PCB	
3	<con2></con2>				
3	Check the <u>Blue to Gray.</u> (While pushing the lever S/W)	Lever s/w	Result	SVC Action	
		Pushing	112 ~ 116 VAC	Go to the 4	
		1 40111119	Other	Change PCB	
	and the state of t	Not	0 ~2 VAC	Go to the 4	
	<con3></con3>	pushing	Other	Change PCB	
4	Check the resistance value.	Point	Result	SVC Action	
	(1) (2) (3) (4)	(1) to (2)	<b>360 ~ 420</b> Ω	Explain	
		(1) to (2)	Other	Replace Water Valve	
			360 ~ 420 Ω	Explain	
		(3) to (4)	Other	Replace Water Valve	
	<pre></pre>				

# 9-4 Freezer room LED lamp doesn't work

No	Checking flow		Result & S	VC Action
1	Check the Freezer door switch.	If feel st	icky, Change t	he door s/w.
2	Check the door S/W resistance.	Status	Result	SVC Action
			. 0Ω	Go to the 3
		Norma	not	Change door S/W
	Push	Infinity	Go to the 3	
	THE PARTY OF THE P	S/W		Change door S/W
3	Check the Black to Sky blue.	Status	Result	SVC Action
			5 VDC	Go to the 4
		Closed	Other	Change Door S/W
		Open	0 VDC	Go to the 4
			Other	Change Door S/W
4	<con6> Check the Blue to Black.</con6>	Status	Result	SVC Action
	Call Constants   Williams   Willi		0 ~ 2 VAC	Explain to customer
		Closed	Other	Change the Door S/W
			112 ~ 116 VAC	Change the F Lamp
		Open	Other	Change the PCB
	<con3></con3>			

# 9-5 Refrigerator room lamp doesn't work

No	Checking flow	Result & SVC Action			
1	Check the Refrigerator door switch.	If feel stic	ky, Change	the door s/w.	
2	Check the door S/W resistance.	Status	Result	SVC Action	
			0Ω	Go to the 3	
		Normal	not	Change door S/W	
		Push	Infinity	Go to the 3	
		S/W	Other	Change door S/W	
			ı		
3	Check the Black to Orange.	Status	Result	SVC Action	
		Normal	12 VDC	Go to the 4	
			Other	Change the PCB	
	<con6></con6>				
4	Check the Red to BLue.	Status	Result	SVC Action	
	MAN	Newson	12 VDC	Go to the 5	
		Normal	Other	Change the LED Lamp	
5	Check the Red to BLue.	Status	Result	SVC Action	
		Status	0 ~ 2 VDC	Explain to customer	
		Closed	Other	Change the Door S/W	
			12 VDC	Explain to customer	
		Open	Other	Change the LED Lamp	
		<u> </u>	1		

#### 9-6 Poor cooling in Fresh food section

No	Checking flow		Res	ult & S	SVC Action	
1	Check the sensor resistance.		Temperatu	ıre	Result	
	0-16079.00		23°F / -5°		<b>38</b> kΩ	
			32°F / 0°		<b>30</b> kΩ	
			41°F / 5°	С	<b>24</b> kΩ	
			50°F / 10°	°C	19.5 kΩ	
	<con6>  * The sensor is determined by</con6>		59°F / 15°	°C	<b>16</b> kΩ	
	the temperature. For example, 30kΩ indicates 32°F.					
2	Reset the unit and Input Test 1 Mode. (Push the button 1 time)			OSE PROPERTY OF THE SEA FOR	O -EE °F EE °F   O OMERTICAL	<b>년</b> 첫 🕲
3	Open the fresh food door and Check the air flow.		Status		SVC Action	
	onesk the difficult.		Windy		Go to the 4	
			No windy	1	ck the R Fan motor neck the damper (Go to the 6)	
4	Check the air temperature.  Cold or not ?		Status		SVC Action	
			Cold		plain to customer	
			Not cold		ck the Compressor od sealed system	

No	Checking flow			Result & S	SVC	Action
5	Damper checking method. Inputting TEST Mode, Check the damper and PCB.		Test Mode	Damper State		SVC Action
			1 Mode	Open	Damper is normal. (Check the	
			2 Mode 1,2 mode	Not working	Ch	ange the damper
		   				OVO Astism
			Point	Result		SVC Action
	(3) (1)		(1) to (2)	270 ~330 Other	Ω	It's normal Change damper
	(2) (4)		(3) to (4)	270 ~330	Ω	It's normal
			(6) 10 (1)	Other		Change damper
6	Check the <u>Fan motor.</u>		Point	Result		SVC Action
	Rotate fan using your hand. It feel sticky, change the motor.		Motor	Sticky		Change the motor
	(Cause of ice or rust inside of motor)					
7	Check the R Fan motor voltage.		Point	Result		SVC Action
	Carl Communication Communicati	ľ	(1) ~ (2)	Below 12 VI	С	Change the PCB
	(1)(2)(3)		(2) ~ (3)	0 or 5 VD	С	Change the motor
	<con4></con4>					

#### 9-7 Poor cooling in Freezer compratment

No	Checking flow		Res	ult & S	SVC Action	
1	Check the sensor resistance.		(1) To (	2)	Result	
	8-11(200 MA - 100 M -		-22°F / -30°C		<b>40</b> kΩ	
			-13°F / -2		<b>30</b> kΩ	
			-4°F / -2	0°C	<b>23</b> kΩ	
			5°F / -1	5°C	<b>17</b> kΩ	
	<con6>  * The sensor is determined by</con6>		14°F / -1	0°C	<b>13</b> kΩ	
	the temperature.		23°F / -	5°C	<b>10</b> kΩ	
	For example, 23kΩ indicates -4°F.		32°F / 0	°C	<b>8</b> kΩ	
2	Reset the unit and Input Test 1 Mode. (Push the button 1 time)			MESON (())		
3	Open the freezer door and Check the air flow.	[	Status		SVC Action	
	onesk the difficult		Windy		Go to the 4	
			No windy	Che	ck the F Fan motor	
4	Check the air temperature.	[	Status		SVC Action	
	Cold or not ?		Cold	Ex	plain to customer	
			Not cold	Che	ck the Compressor	
				,		

#### 9-8 Over cooling in Fresh food compartment

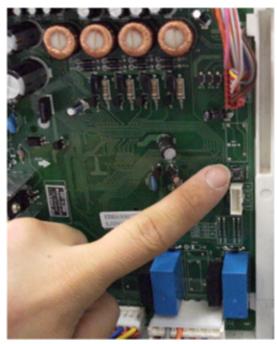
No	Checking flow	Result & SVC Action				Action	
1	Check the sensor resistance.		Temp	perature	F	Result	
	SV Property Company		23°F	/ -5°C	(	<b>38</b> kΩ	
	4444444		32°F	- / 0°C	(	<b>30</b> kΩ	
			41°F	- / 5°C	2	<b>24</b> kΩ	
	<con6></con6>		50°F	/ 10°C	1	9.5 kΩ	
	The sensor is determined by the temperature.     For example, 30kΩ indicates 32°F.		59°F	/ 15°C		<b>16</b> kΩ	
3	Input Test 1 Mode. (Push the button 1 time)  Open the refrigerator door and			Parameter (CD)	, <b>-::::</b>	F°C BB°F B W	
	Check the air flow.					C Action to the 4	
			No wii	С	heck leck	the R Fan the damper to the 5)	
4	Input Test 2 Mode and		Statu	us	SVC	Action	
	Check the air flow. (Push the button 1 time)		Wind	dy	Go to the 5		
	(i den die batten i tillie)		No wii	-			
	Second 1.10 Secon						
5	Check the damper resistance.		Point	Result		SVC Action	
		/4	) to (0)	270 ~330	Ω	It's normal	
	(3) (1) (2) (4)		) to (2)	Other		Change damper	
		(3)	(3) to (4)	270 ~330 Ω		It's normal	
	(2) (4)		(1)	Other		Change damper	

# 10. Reference

#### 10-1 TEST MODE and Removing TPA

1. How to make TEST MODE

If you push the test button on the Main PCB, the refrigerator will be enter the TEST MODE.



**Main PWB** 

\* 1 time : Comp / Damper / All FAN on (All things displayed)



\* 2 times : Damper closed (22 22 displayed)



\* 3 times : Forced defrost mode (33 33 displayed)



<DC TPA>

2. How to remove Terminal Position Assurance (TPA)

<AC TPA>









\* After measure the values, you should put in the TPA again.

3. Wire Color

BL : Blue GN : Green
WH : White SB : Sky Blue
BO : Bright Orange GY : Gray

BK : Black BL/WH : Blue & White BN : Brown WH/RD : White & Red PR : Purple YL/BK : Yellow & Black

RE: Red

#### 10-2 TEMPERATRUE CHART - FRZ AND ICING SENSOR

TEMP	RESISTANCE	VOLTAGE
-39°F (-40°C)	73.29 kΩ	4.09 V
-30°F (-35°C)	<b>53.63</b> kΩ	3.84 V
-21°F (-30°C)	39.66 ㎏	3.55 V
-13°F (-25°C)	29.62 ㎏	3.23 V
-4°F (-20°C)	22.33 ㎏	2.89 V
5°F (-15°C)	16.99 ㎏	2.56 V
14°F (-10°C)	13.05 kΩ	2.23 V
23°F (-5°C)	10.10 kΩ	1.92 V
32°F (0°C)	<b>7.88</b> kΩ	1.63 V
41°F (5°C)	6.19 kΩ	1.38 V
50°F (10°C)	4.91 kΩ	1.16 V
59°F (15°C)	<b>3.91</b> kΩ	0.97 V
68°F (20°C)	<b>3.14</b> kΩ	0.81 V
77°F (25°C)	<b>2.54</b> kΩ	0.67 V
86°F (30°C)	2.07 kΩ	0.56 V
95°F (35°C)	1.69 kΩ	0.47 V
104°F (40°C)	1.39 kΩ	0.39 V

#### 10-3 TEMPERATRUE CHART - REF AND DEF SENSOR

TEMP	RESISTANCE	VOLTAGE
-39°F (-40°C)	<b>225.1</b> kΩ	4.48 V
-30°F (-35°C)	169.8 kΩ	4.33 V
-21°F (-30°C)	129.3 kΩ	4.16 V
-13°F (-25°C)	99.30 kΩ	3.95 V
-4°F (-20°C)	<b>76.96</b> kΩ	3.734 V
5°F (-15°C)	60.13 kΩ	3.487 V
14°F (-10°C)	<b>47.34</b> kΩ	3.22 V
23°F (-5°C)	<b>37.55</b> kΩ	2.95 V
32°F (0°C)	<b>30</b> kΩ	2.67 V
41°F (5°C)	<b>24.13</b> kΩ	2.40 V
50°F (10°C)	19.53 kΩ	2.14 V
59°F (15°C)	15.91 kΩ	1.89 V
68°F (20°C)	<b>13.03</b> kΩ	1.64 V
77°F (25°C)	10.74 kΩ	1.45 V
86°F (30°C)	8.89 kΩ	1.27 V
95°F (35°C)	7.40 kΩ	1.10 V
104°F (40°C)	6.20 kΩ	0.96 V

#### **Compressor Troubleshooting**

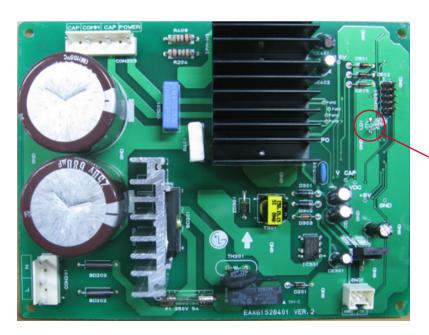
# **MARNING HIGH VOLTAGE**

Step 1) Open PWB cover



Step 2) Check for blinking frequency of LED, PWB







If compressor is normal, it does not blink : Refer to the next page to find out what actions to take according to how many times LED blink

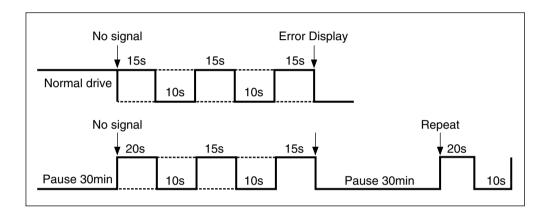
# Actions to take according to Led blinking frequency

No	LED operating condition	Cause	Service guideline
1	LED two - time repetiton on - on - off - on - on - off - on - on	PCB part defect (piston overrun)	1.After resetting power, check if it is running normal 2.If the same symptom arises after the first action, replace PCB
2	LED four - time repetiton on - on	outlet clogging	1.After resetting power, check if it is running normal 2.If the same symptom arises after the first action, replace PCB 3.If the same symptom arises after the second action, replace compressor
3	LED five - time repetiton on - on	piston constraint	1. After resetting power, check if it is running normal 2. If the same symptom arises after the first action, replace PCB 3. If the same symptom arises after the second action, replace compressor
4	LED six - time repetiton on - on	circuit overcurrent error	1. After resetting power, check if it is running normal If the same symptom arises after the first action, replace PCB If the same symptom arises after the second action, replace compressor
5	LED seven- time repetiton on - on	PCB part defect (IPM)	1.After resetting power, check if it is running normal 2. If the same symptom arises after the first action, replace PCB

#### 10-4 How to check the Fan-Error

#### (1) EBR650027

After sending a signal to the fan, the MICOM checks the BLDC fan motor s lock status. If there is no feedback signal from the BLDC fan, the fan motor stops for 10 seconds and then is powered again for 15 seconds. To determine that there is a fan motor malfunction, this process is repeated 3 times. If the fan motor is determined to be defective, the error code will be shown in the display for 30 minutes. At this point, the process will be repeated until the fan motor operates normally. If normal operation is achieved, the error display is erased and the MICOM is reset automatically.



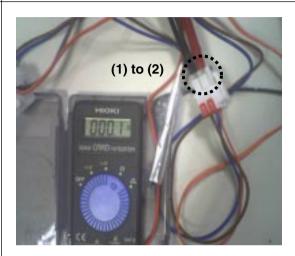
# 11. COMPONENT TESTING INFORMATION

#### 11-1 Defrost Controller Assembly

#### **Function**

- Controller assembly is consist of 2 kinds of part those are fuse-m and sensor. we can decide part is defect or not when we check the resistance.
- Fuse-m can cut off the source when defrost heater operate the unusual high temperature.
- Sensor give temperature information to Micom

#### How to Measure (Fuse-M)



Set a ohmmeter to the 2 housing pin. Measure the 2 pin connected to Fuse-M. If the ohmmeter indicate below 0.1ohm fuse-m is a good condition, But infinitely great ohm Fuse-M is disconnection

#### How to Measure (Sensor)



Set a ohmmeter to The 2housing pin. Measure the 2 pin connected to Sensor. If the ohmmeter indicate  $11\,\mathrm{k}\Omega$  (at room temperature) Sensor is not a defect. When check the ohm at other temperature Check the sensor manual.

#### Standard

#### Fuse-M (at all temperature)

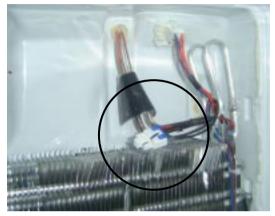
Test Point	Ressult
(1) to (2)	0 ~ 0.1 <i>Ω</i>

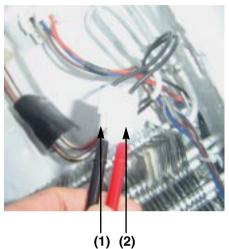
#### Sensor (at room temperature)

Test Point	Ressult
(1) to (2)	11 Ω

#### 11-2 Sheath Heater

# Function Sheath heater is a part for defrost. All heating wire is connected to only one line. So we can decide part is defect or not when we check the resistance. How to Measure

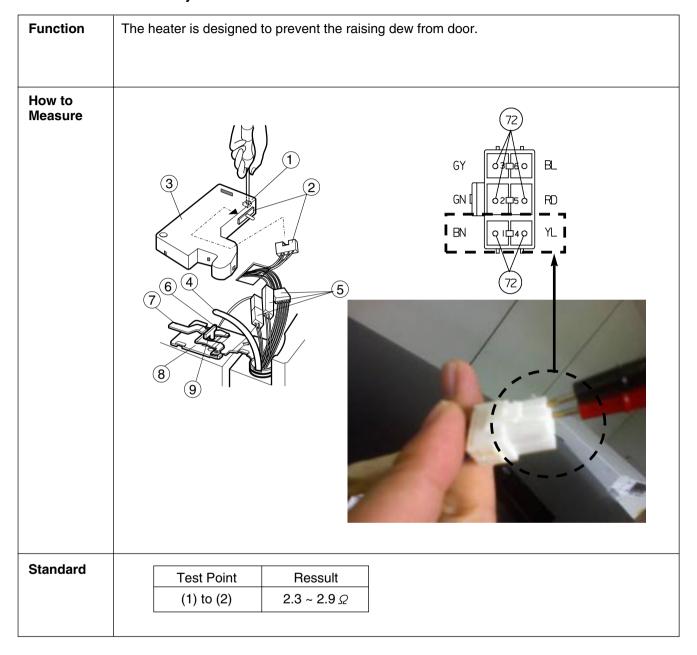




Set a ohmmeter connect to The 2 housing pin. Measure the 2 pin connected to Sheath Heater. If the ohmmeter indicate (V°øV)/Watt=R is good condition, ex) when watt=350w, voltage=115v R=(115°ø115)/350=38  $\varrho$  But the ohmmeter indicate infinitely great Sheath heater is disconnection

Standard She	eath heater (at	t all temperature)
	Test Point	Ressult
	(1) to (2)	34 ~ 42 <i>Ω</i>

#### 11-3 Door Heater Assembly



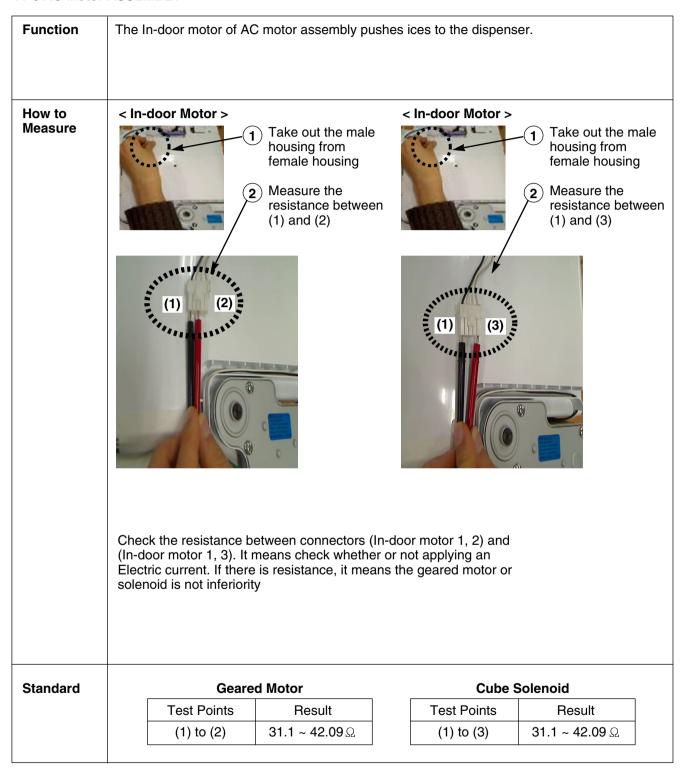
#### 11-4 Door Switch

Function	The switch sense if the - When the door open, - When the door open, When the door open, in and down.	lamp on. the switch give informa	ation to Micom. on and off moving plunger of door switch up
How to Measure	<switch, i<="" th=""><th>Butt (Plun</th><th></th></switch,>	Butt (Plun	
	Beep Chack the resistance b	etween connectors 1, 2	Beep
	check whether or not a resistance, it means the	pplying an electric curre	
Standard	Multir	meter beep – Switch F	F,R
	Nomal	Push the button(Plu	lunger)
	Beep or 0 $\Omega$	None ( $\infty \Omega$ )	)

#### 11-5 Dispenser DC Motor

Function	- Dispenser DC Motor : When customer push the dispenser button, Pull duct door and abstract from ice bank.
How to Measure	(2) Dispensor DC Motor
Standard	Dispenser DC Motor
	Test Points Result
	(1) to (2) 9.9 ~ 12.1 Ω

#### 11-6 AC Motor ASSEMBLY



#### 11-7 Damper **Function** The damper supplies the cold air at freezer room to chillroom by using the damper's plate. Chillroom is colder than before when damper's plate is open. When damper's plate is close, chillroom's temperature will rise. How to Table(I): 결선도(Wirering) Measure Table(2): 2-2상 여자순서(CW Rotation) Step Housing No. & Red o-L/Wire Color 2 3 4 (B) + + I- Blue (A) Yellow o-2- Red (B) + + (B) 3- White(A) + +

Brue

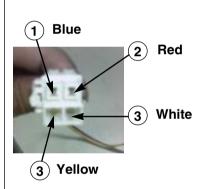
(A)

White

 $(\overline{A})$ 

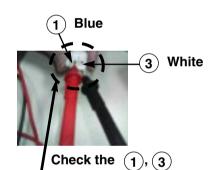
< Damper Circuit >

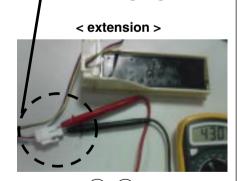
4- Yellow(目)











Check the (1), (3)

Check the resistance between connectors 1,3 and 2,4 .It means check whether or not applying an electric current. If there is resistance, it means the damper not inferiority

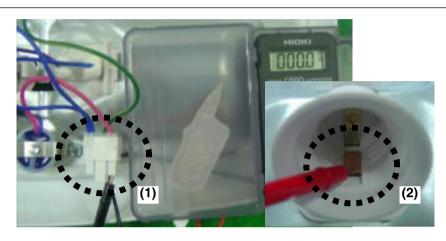
Standard	Damper	
	Test Points	Result
	Red and Yellow	373 ~ 456 ♀

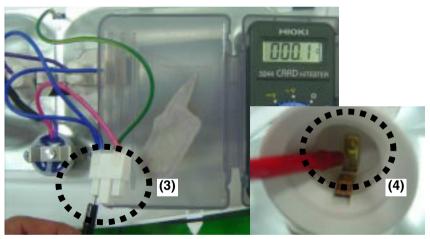
Test Points	Result
Blue and White	373 ~ 456 Ω

#### 11-8 Lamp Socket

# The lamp socket connect cover lamp assembly to lamp. The lamp socket fix lamp and unite lamp and cover lamp assembly. The lamp socket supply electric source to lamp also.

#### How to Measure





Check the resistance between connector of housing and connector of lamp socket. It means check whether or not applying an electric current.

If there is resistance it means the lamp socket is not inferiority.

#### Standard

Test Points	Result
(1) to (2) and (3) to (4)	0Ω

#### 11-9 Flow Sensor

Function	Flow Sensor (in machine room) Count the water quantity from city water to water filter in refrigerator
How to Measure	Flow Sensor (in machine room)
Standard	Test Points Result
	Red wire to Black wire 4 ~ 30 Ω

# 12. TROUBLESHOOTING

#### 12-1 INFORMATION OF LINEAR COMPRESSOR

• The information tag provides compressor model, refrigerant, serial number and safety approval



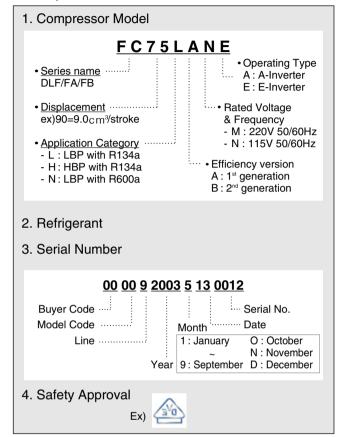
#### **Name Plate**



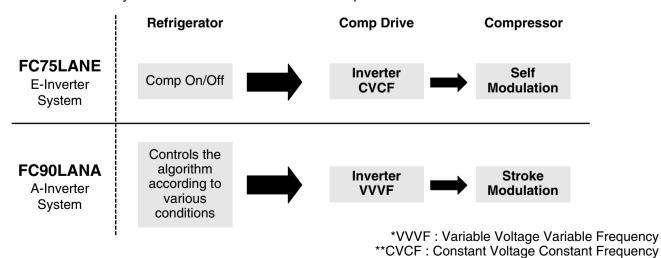
#### Size: 90mm X 20mm



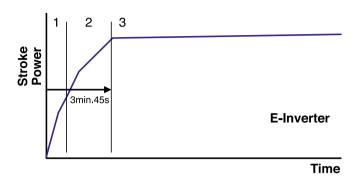
#### **Compressor Label**



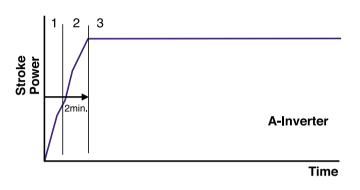
- There are two types of controllers used in the linear compressor system.
- The "E"-inverter system is used with the FC75LANE compressor.
- The "A"-inverter system is used with the FC90LANA compressor.



• To reduce noise level, the piston stroke is slowly increased to full power during start up.



- Step 1) Start up Half stroke interval for first 30 seconds.
- Step 2) Ramp up Stroke increases every 0.8sec until maximum stroke length is reached (about 3 min, 15 sec)
- Step 3) CVCF interval 180V / 60Hz



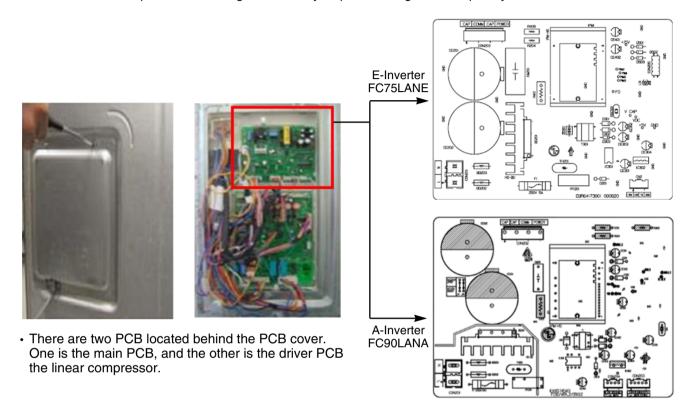
- Step 1) Start up Half stroke interval for first 20 seconds.
- Step 2) Ramp up Stroke increases until maximum stroke length is reached (about 1 min, 40 sec)
- Step 3) VVVF interval target voltage and frequency controlled by Control Board signals
- There are 6 protection logics designed to protect the linear compressor system. When a failure is detected, the compressor will shut and will try to restart after a set period of time for each type of failure. The LED located on the inverter drive PCB will flash the appropriate code to indicate the detected failure. This code will continue to flash until the unit is disconnected from the power source.

#### **Inverter Error Codes**

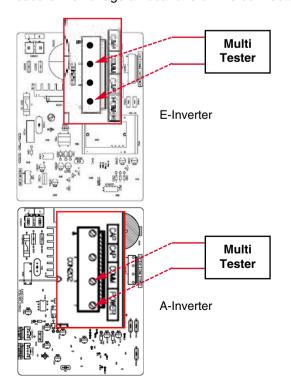
	Арр.	Requirement	Waiting Time	The number of LED flashes
FCT0	A-Inv.	Compressor current and voltage error.	20 sec.	1
Stroke Trip	E-Inv. A-Inv.	Piston stroke overrun detected.	1 min.	2
Locked Piston Trip	E-Inv. A-Inv.	Piston is locked.	2 min. 30 sec.	5
Current Trip	E-Inv. A-Inv.	Current overload detected.	2 min. 30 sec.	6
IPM Fault	E-Inv. A-Inv.	High current detected due to IPM failure.	2 min. 30 sec.	7
Communication Error	A-Inv.	Miscommunication with Refrigerator	0	8

Bridge Diodes converts 115V AC (Alternating current) to 115V DC (Direct current)
 The Voltage Multiplying circuit then increases the 115V DC to 230V DC.

 Then the IPM (Intelligent Power Module) converts the 230V DC to 230V AC.
 The converted AC power can be regulated to any required voltage and frequency.



Measure the voltage at locations on the connector (as shown picture) with a multi-tester.



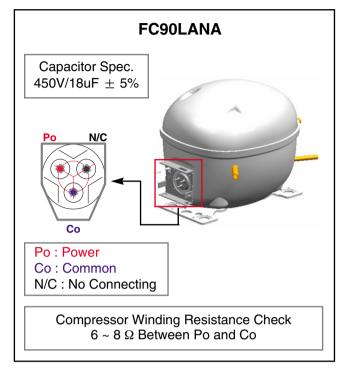


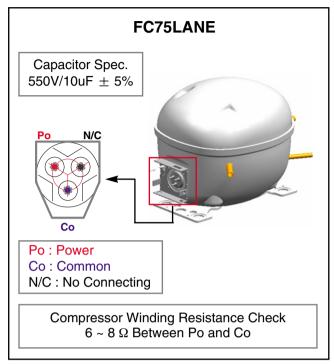
#### **IPM Voltage Check**

- To ensure proper diagnosis, make sure that the unit has been plugged in for at least 10 min.
- To determine if the compressor is receiving the proper voltage, check the PCB output voltage during operation.
- Normal operating voltage will be between 80V AC and 180V AC.

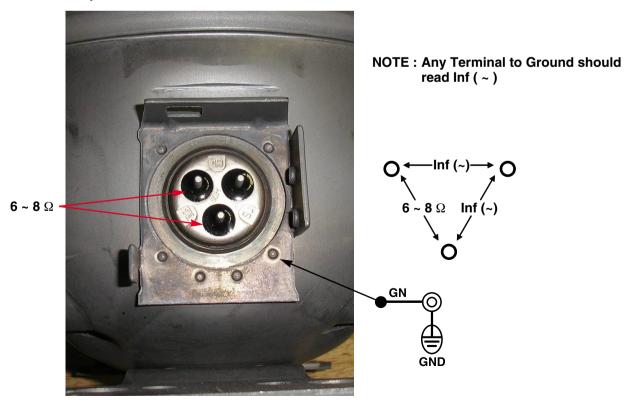
Note: Higher voltage readings may occur under "heavy" load conditions.

• Insulation check : Check for infinite Ohms between all compressor terminal and ground.





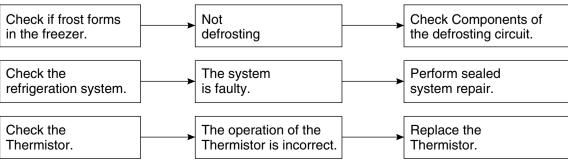
#### **LG Linear Compressor**



#### 12-2 SERVICE DIAGNOSIS CHART

COMPLAINT	POINTS TO BE CHECKED	REMEDY
No Cooling.	<ul> <li>Is the power cord unplugged from the outlet?</li> <li>Check if the power switch is set to OFF.</li> <li>Check if the fuse of the power switch is shorted.</li> <li>Measure the voltage of the power outlet.</li> </ul>	<ul> <li>Plug into the outlet.</li> <li>Set the switch to ON.</li> <li>Replace the fuse.</li> <li>If the voltage is low, correct the wiring.</li> </ul>
Cools poorly.	<ul> <li>Check if the unit is placed too close to the wall.</li> <li>Check if the unit is placed too close to the stove, gas cooker, or in direct sunlight.</li> <li>Is the ambient temperature too high or the room door closed?</li> <li>Check if food put in the refrigerator is hot.</li> <li>Did you open the door of the unit too often or check if the door is sealed properly?</li> <li>Check if the Control is set to Warm position.</li> </ul>	<ul> <li>Place the unit about 4 inches (10 cm) from the wall.</li> <li>Place the unit away from these heat sources.</li> <li>Lower the ambient temperature.</li> <li>Put in foods after they have cooled down.</li> <li>Don't open the door too often and close it firmly.</li> <li>Set the control to Recommended position.</li> </ul>
Food in the Refrigerator is frozen.	<ul> <li>Is food placed in the cooling air outlet?</li> <li>Check if the control is set to colder position.</li> <li>Is the ambient temperature below 41°F(5°C)?</li> </ul>	<ul> <li>Place foods in the high-temperature section. (front part)</li> <li>Set the control to Recommended position.</li> <li>Set the control to Warm position.</li> </ul>
Condensation or ice forms inside the unit.	<ul> <li>Is liquid food sealed?</li> <li>Check if food put in the refrigerator is hot.</li> <li>Did you open the door of the unit too often or check if the door is sealed properly?</li> </ul>	<ul> <li>Seal liquid foods with wrap.</li> <li>Put in foods after they have cooled down.</li> <li>Don't open the door too often and close it firmly.</li> </ul>
Condensation forms in the Exterior Case.	<ul> <li>Check if the ambient temperature and humidity of the surrounding air are high.</li> <li>Is there a gap in the door gasket?</li> </ul>	Wipe moisture with a dry cloth. It will disappear in low temperature and humidity.     Fill up the gap.
There is abnormal noise.	<ul> <li>Is the unit positioned in a firm and even place?</li> <li>Are any unnecessary objects placed in the back side of the unit?</li> <li>Check if the Drip Tray is not firmly fixed.</li> <li>Check if the cover of the compressor enclosure in the lower front side is taken out.</li> </ul>	<ul> <li>Adjust the Leveling Screw, and position the refrigerator in a firm place.</li> <li>Remove the objects.</li> <li>Fix the Drip Tray firmly in the original position.</li> <li>Place the cover in its original position.</li> </ul>
Door does not close well.	<ul> <li>Check if the door gasket is dirty with an item like juice.</li> <li>Is the refrigerator level?</li> <li>Is there too much food in the refrigerator?</li> </ul>	<ul> <li>Clean the door gasket.</li> <li>Position in a firm place and level the Leveling Screw.</li> <li>Make sure food stored in shelves does not prevent the door from closing.</li> </ul>
Ice and foods smell unpleasant.	<ul> <li>Check if the inside of the unit is dirty.</li> <li>Are foods with a strong odor unwrapped?</li> <li>The unit smells of plastic.</li> </ul>	<ul> <li>Clean the inside of the unit.</li> <li>Wrap foods that have a strong odor.</li> <li>New products smell of plastic, but this will go away after 1-2 weeks.</li> </ul>

#### •Other possible problems:



#### 12-3 REFRIGERATION CYCLE

#### **▼** Troubleshooting Chart

	CAUSE	STATE OF THE UNIT	STATE OF THE EVAPORATOR	TEMPERATURE OF THE COMPRESSOR	REMARKS
LEAP	PARTIAL LEAKAGE	Freezer compartment and Refrigerator don't cool normally.	Low flowing sound of Refrigerant is heard and frost forms in inlet only.	A little higher than ambient temperature.	<ul> <li>Refrigerant level is low due to a leak.</li> <li>Normal cooling is possible by restoring the normal amount of refrigerant and repairing the leak.</li> </ul>
LEAKAGE	COMPLETE LEAKAGE	Freezer compartment and Refrigerator don't cool normally.	Flowing sound of refrigerant is not heard and frost isn't formed.	Equal to ambient temperature.	No discharging of Refrigerant.     Normal cooling is possible by restoring the normal amount of refrigerant and repairing the leak.
CLOGGED	PARTIAL CLOG	Freezer compartment and Refrigerator don't cool normally.	Flowing sound of refrigerant is heard and frost forms in inlet only.	A little higher than ambient temperature.	<ul> <li>Normal discharging of the refrigerant.</li> <li>The capillary tube is faulty.</li> </ul>
) BY DUST	WHOLE CLOG	Freezer compartment and Refrigerator don't cool.	Flowing sound of refrigerant is not heard and frost isn't formed.	Equal to ambient temperature.	Normal discharging of the Refrigerant.
MOIS	STURE CLOG	Cooling operation stops periodically.	Flowing sound of refrigerant is not heard and frost melts.	Lower than ambient temperature.	Cooling operation restarts when heating the inlet of the capillary tube.
DEFECTIVE COMPRESSION	COMP- RESSION	Freezer and Refrigerator don't cool.	Low flowing sound of refrigerant is heard and frost forms in inlet only.	A little higher than ambient temperature.	Low pressure at high side of compressor due to low refrigerant level.
ESSION	NO COMP- RESSION	No compressing operation.	Flowing sound of refrigerant is not heard and there is no frost.	Equal to ambient temperature.	No pressure in the high pressure part of the compressor.

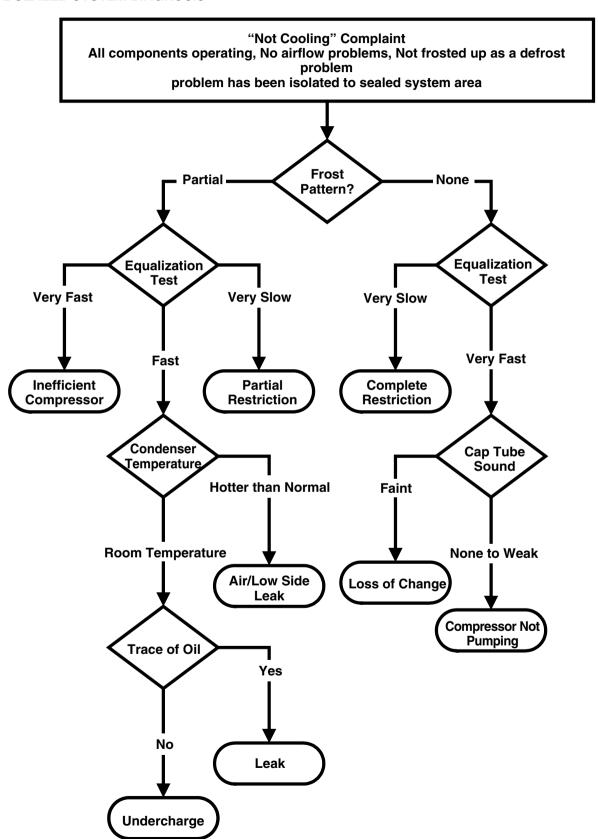
#### 12-3-1 Cleaning

There is no need for routine condenser cleaning in normal Home operating environments. If the environment is particularly greasy or dusty, or there is significant pet traffic in the home, the condenser should be cleaned every 2 to 3 months to ensure maximum efficiency.

If you need to clean the condenser:

- Remove the mechanical cover.
- •Use a vacuum cleaner with a soft brush to clean the grille, the open areas behind the grille and the front surface area of the condenser.
- •Replace the mechanical cover.

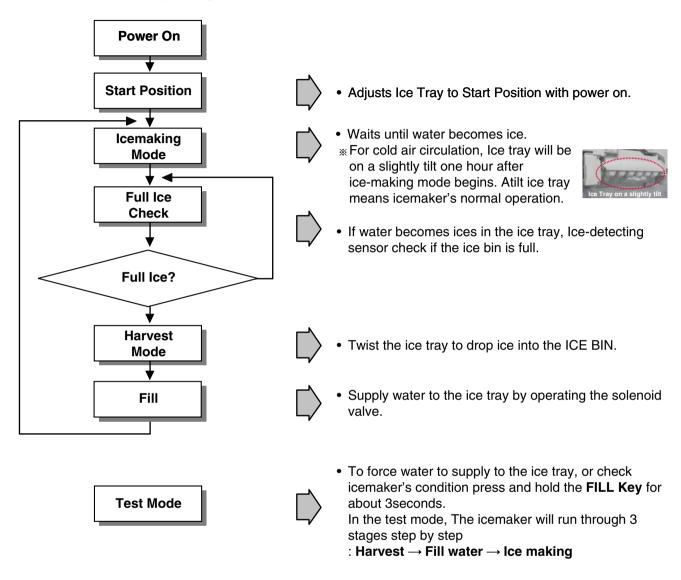
#### 12-3-2 SEALED SYSTEM DIAGNOSIS



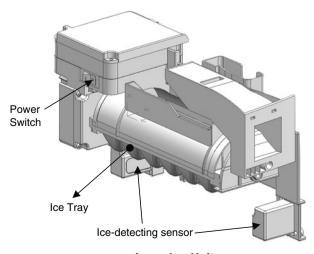
(The equalization test is trying to restart a compressor using a start kit after it has been operating.)

# 13. ICEMAKER OPERATING METHOD AND TROUBLE SHOOTING

#### 13-1 Icemaker's Basic Operating Method



To reset the icemaker's operation, set the power switch OFF position and back it to ON position.



**Icemaker Unit** 

#### 13-2 ICE MAKER FUNCTIONS

#### 13-2-1 Icemaking Mode

- 1. Icemaking Mode begins right after the ice tray fills with water.
- 2. Icemaker waits until water becomes ice in the ice tray.
- \* Ice-detecting sensor checks if the ice bin is full every 2min.

#### 13-2-2 Harvest Mode

At least in 110min, since icemaker begun icemaking mode, Icemaker starts to twist the ice tray to drop ices into the Ice bin. (After installation, at least 1day is needed to make ices)

\*\* If the icemaker never drop ices to the ice bin though water becomes ices in the ice tray, check the real temperature of compartment. (not temperature on display)

Icemaker needs below 0°F to drop ices to ice bin.

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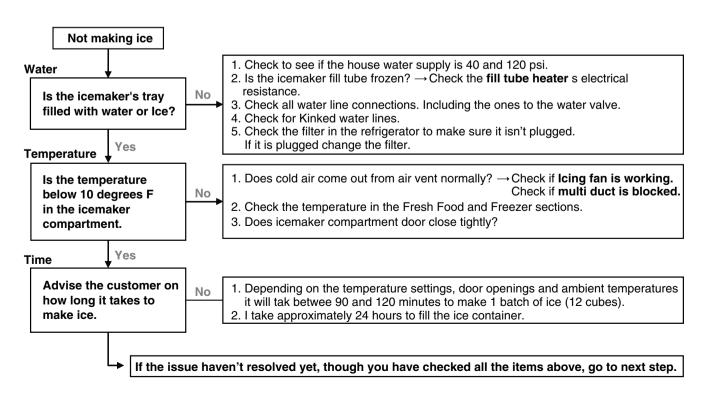
#### 13-2-3 Fill/Park Position

Once the normal harvest mode has been completed, the water solenoid will be activated.

#### 13-3 Trouble Shooting Ice & Water system Issues

#### 13-3-1 Icemaker not making ice or not making enough ice (Environmental Diagnosis)

- ▶ Icemaker can't make ices itself. Basically, water, temperature and time are needed.
  - Water : If no Water, then no Ice.
  - Temperature : The compartment, where the icemaker is located, has to be at least 1°F so that icemaker dumps ices to the bin.
  - Time: At least 80 minutes must be passed to make one series of ices after water comes into icemaker.
  - \* Test Mode should not be carried out before checking below.

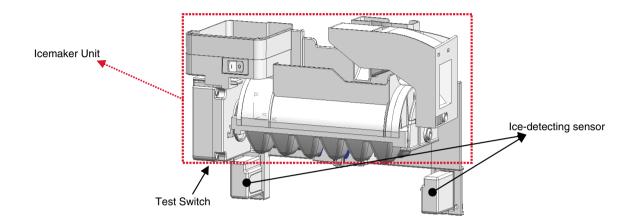


# 13-3-2 Icemaker not making ice or not making enough ice (Icemaker Unit & Ice-detecting sensor Diagnosis)

#### ▶ Icemaker Unit and Ice-detecting sensor Diagnosis

The icemaker unit and Ice-detecting sensor is programmed to be diagnosed.

Follow the procedure step by step to check to see if icemaker and Ice-detecting sensor is working normally.



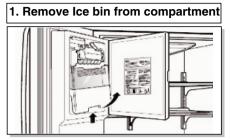
#### 1stSTEP (Icemaker Unit Diagnosis)

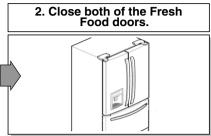
Press the test switch (located on the bottom of the icemaker head) for about 3 seconds. The icemaker tray should turn to the twisting position and return to the flat position, the fills with water.



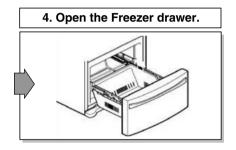
**A CAUTION:** Be sure that the ice tray is not filled with water before pressing fill key.

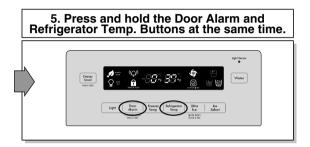
#### 2stSTEP (Ice-detecting sensor Diagnosis)











If **"EMPTY"** is shown on the display after the procedure above, Ice-detecting sensor is **normal**.

If "FULL" is shown on the display after the procedure above, Ice-detecting sensor is abnormal.

#### 13-3-3 Icemaker not making ice or not making enough ice (Other Suspected Items)

Strongly suspect items below If the issue remains yet, though all the diagnosis for icemaker has been carried out.

- Cap duct bad sealing
- Defective thermal sensor in the icemaker compartment
- Not cold icemaker compartment area (sealed system)

#### 13-3-4 Not Dispensing Ice

- ► Clogged Ice In the Ice Bin (suspected items)
  - Customer haven't used ice dispenser over a week.
    - → **Resolution**: the ices gets stuck if customer doesn't use ice dispenser.

      In this case, empty the ice bin and wait until the new ices are stacked in the ice bin.
  - Temperature of icemaker compartment is not cold enough.
    - → Resolution : Check ice fan, sealed system, cap duct, vent and other items related to temperature.
  - Cap duct doesn't seal the air properly.
    - → Resolution: Possibly, warm air could get into the compartment and make ices get stuck. Replace the cap duct with new one.
  - In-door geared motor doesn't work
  - → **Resolution**: Change the in-door geared motor and test it.
  - The water comes out of fill cup and the water get into the ice bin.
    - → Resolution : The water pressure from shutoff valve is too high.
      Recommend to use regulator to the customer and close the shutoff valve slightly.
- ▶ Clogged Ices In the Chute (suspected items)
  - Cap duct doesn't seal the air properly.
    - → Resolution : Possibly, warm air could get into the compartment and make ices get stuck. Replace the cap duct with new one.

# 14. DESCRIPTION OF FUNCTION & CIRCUIT OF MICOM

#### 14-1 FUNCTION

#### 14-1-1 Function

- 1. When the appliance is plugged in, it is set to 37°F for Refrigerator and 0°F for freezer.

  You can adjust the Refrigerator and the Freezer control temperature by pressing the ADJUST button.
- 2. When the power is initially applied or restored after a power failure, it is set to Control temperature Previously.
- 3. If you do not press any button after turning on the power, only the water, Ice type, lock Icon that has been selected will be turned on and all other LEDs on the Dispenser Panel will be turned off Within 60 seconds. (Power Save Mode)
- 4. If you press a button, only the water, Ice type, lock Icon that has been selected will be turned on and all other LEDs on the Dispenser Panel will be turned off Within 20 seconds. (Power Save Mode)







5. If you do not want to use the Power Save Mode, you can change the Mode by pressing the ULTRA ICE Button and Freezer TEMP button simultaneously for more than 5 seconds.

#### 14-1-2 How to Toggle the Display between °F & °C

1. The initial setting is °F and the display temperature mode can be changed from °F to °C or °C to °F by pressing and holding the FRZ TEMP and the REF TEMP keys at the same time for over 5 seconds.

#### 14-1-3 Alarm/Lock function (dispenser and display button lock)

- 1. When the refrigerator is first turned on, the buttons are not locked. "LOCK" is deactivated with light off.
- To lock the display, the dispenser, and the control panel, press and hold the LOCK button for 3 seconds. "LOCK" is activated with light on.
- The LOCK button is the only control feature that remains active in the locked state. The buzzer sound, other control buttons, and the dispenser are deactivated.
- 4. To release from the locked state, press and hold the LOCK button again for 3 seconds.
- If you don't hold the Alarm/Lock button more than 3 seconds, Alarm function will be changed and alarm for opened door will be on/off same as alarm icon indicating.



Ex) In selecting "LOCK"

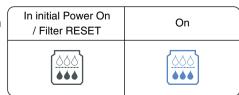
Ex) In selecting "LOCK" again

#### 14-1-4 Filter condition display function

- There is a replacement indicator light for the filter cartridge on the dispenser.
- Water filter needs replacement once six months or of using water filter.
- 3. When the Water Filter Icon lights on, you must exchange the filter.
- After replacing the filter, press and hold the lock button for more than 3 seconds.
   After then water Filter icon turn off with reset status.

Classification

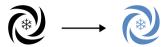
Filter Status Display



#### 14-1-5 Ultra Ice selection

Please select this function for quick freezing.

- When you press the Ultra Ice Button, the Ultra ICE ICON will be turned on again.
- Ultra Ice function automatically turns off after a fixed time passes.



#### 14-1-6 Dispenser use selection

You can select water or ice.

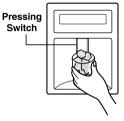
- When you press the Water Button, the Water Icon will be selected.
- When you press the Ice button, the Cube/Crush ICON will be selected in order.
- Hold your cup in the dispenser for a few seconds after dispensing ice or water to allow the last pieces of ice or drops of water to fall into the cup.
- When after initially establ ishing the water comes out, the water tank inside fills and until at the time of quality the hour is caught.











#### 14-1-7 DISPENSER LIGHT

- Whenever pressed the LIGHT button, DISPLAY is changed as belows.





(2)



(3)





- ① Normal status: Ambient Light is off.
- ② AUTO status: Detecting the lighting of room by LIGHT SENSOR, Ambient Light is on and off automatically.
- ③ ON status: Ambient Light is on continuously.
- 4 For all status: When dispenser is operated, DISPENSER LIGHT is on.

#### 14-1-8 CONTROL OF FREEZER FAN MOTOR

- 1. Freezer fan motor has high and standard speeds.
- 2. High speed is used at power-up, for Ultra Ice, and when refrigerator is overloaded. Standard speeds is used for general purposes.
- 3. To improve cooling speed, the RPM of the freezer fan motor change from normal speed to high.
- High speed (2700RPM): Initial power on or load corresponding operation, Ultra Ice. Normal speed (2400RPM): General working conditions.

#### 14-1-9 Cooling Fan Motor

- 1. The cooling fan is switched ON and OFF in conjunction with the compressor.
- 2. The cooling fan Motor has high and standard speeds. (When room temper rapture more high then 38°C speed is high)
- 3. The Failure sensing method is the same as in the fan motor of the freezing fan motor(refer to failure diagnosis function table for failure display).

#### 14-1-10 Ice Compartment Fan

- 1. The lcing Fan is controlled by the the sensor on the top of the ice compartment.
- 2. The Failure sensing method is the same as in the fan motor of the freezer (refer to failure diagnosis function table for failure display)

#### 14-1-11 Refrigeration room Fan Motor

- 1. The refrigeration room fan is switched ON and OFF in conjunction with the refrigeration room temperature.
- 2. The Failure sensing method is the same as in the fan motor of the freezing fan motor (refer to failure diagnosis function table for failure display).

#### 14-1-12 Ultra ICE

- 1. The purpose of this function is to intensify the cooling speed of freezer and to increase the amount of ice.
- 2. Whenever selection switch is pressed, selection/release, the Icon will turn ON or OFF.
- 3. If there is a power outage and the refrigerator is powered on again, Ultra ICE will be canceled.
- 4. To activate this function, press the Ultra ICE key and the Icon will turn ON. This function will remain activated for 24 hrs. The first one hours the compressor, Freezer Fan and Icing Fan(high speed) will be ON. The next 23 hours the Ice room will be controlled at the lowest temperature. And icing fan run high speed. After 24 hours or if the Ultra ICE key is pressed again, the Ice room will return to its previous temperature. And icing fan run standard speed.
- 5. During the first 1 hours:
  - (1) Compressor, Freezer Fan and Icing Fan(high speed) run continuously.
  - (2) If a defrost cycle begins during the first 30 minutes of Ultra ICE, the Ultra ICE cycle will complete its cycle after defrosting has ended.
    - If the defrost cycle begins when Ultra ICE has run for more than 30 minutes, Ultra ICE will run for 40 minutes after the defrost is completed.
  - (3) If Ultra ICE is pressed during defrost, Ultra ICE Icon is on but this function will start seven minutes after defrost is completed and it shall operate for one hours.
  - (4) If Ultra Ice is selected within seven minutes after compressor has stopped, the compressor (compressor delays seven minutes) shall start after the balance of the delay time.
- 6. For the rest of the 23 hours, the Ice room will be controlled at the lowest temperature. And icing fan run high speed.

#### 14-1-13 How to set the display mode and cancel it

- 1. With the refrigerator door open, keep pressing the Refrigerator Temp Button and ULTRA ICE Button more than 5 seconds, then it goes to the display mode with Special Beep Sound.
- 2. Perform the same way again to cancel the display mode.
- 3. All freezing units do not work at the display mode.

#### 14-1-14 Energy Saver

- 1. If you want additional power save, you can turn on energy saver (some heater off for anti-dew).
- To turn on or off the energy saver function, press Energy Saver Button for more than 3 seconds.
- 3. We recommend using energy saver function when you go out for quite a long time and are out of the rainy season.



Pillar Heater Off

Pillar Heater On

#### 14-1-15 Defrosting (removing frost)

- 1. Defrosting starts each time the COMPRESSOR running time Betwee 7~50 hours.
- 2. For initial power on or for restoring power, defrosting starts when the compressor running time reaches 4 hours.
- 3. Defrosting stops if the sensor temperature reaches 46.4°F(8°C) or more. If the sensor doesn't reach 46.4°F(8°C) in 1 hours, the defrost mode is malfunctioning. (Refer to the defect diagnosis function, 8-1-15.)
- 4. Defrosting won't function if its sensor is defective (wires are cut or short circuited)

#### 14-1-16 Defect Diagnosis Function

- 1. Automatic diagnosis makes servicing the refrigerator easy.
- 2. When a defect occurs, the buttons will not operate; but the tones. such as ding. will sound.
- 3. When the defect CODE removes the sign, it returns to normal operation (RESET).
- 4. The defect CODE shows on the Refrigerator and Freezer Display.



\* LED check function: If simultaneously pressing Ultra Ice button and freezing temperature adjustment button for a second, display LED graphics on. If releasing the button, the LED graphic displays the previous status.

You can check the error code Within 3-hour Period from initial error

#### 14-1-17 Auto pantry

- 1. The temperature control will automatically start upon the selected Auto Pantry temperature control.
- 2. You can adjust the Pantry control with three different temperature ranges by pressing the activate button.



REPAIR PARTS LIST

MODELS No.

795.71052.01\* 795.71053.01\* 795.71054.01\* 795.71056.01\* 795.71059.01\* The model number of your refrigerator is found on the serial plate inside.

All repair parts listed are available for immediate purchase or special order when you visit your nearest Sears Service Center, or the Service Department at most Sears stores. To order parts by phone, call the toll free parts number listed to the left.

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For Service:

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¶UModel Number ¶UPart Description

Last Revision: MAR. 15. 2010

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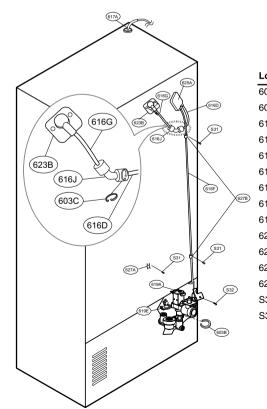
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#### **VALVE & WATER TUBE PARTS**



.oc NO.	71063 (ST)	71069 (WB)	71062 (SW)	71056 (TI)	71054 (BI)	Desc
603B	4930JA3091A	4930JA3091A	4930JA3091A	4930JA3091A	4930JA3091A	Holder,Bracket
03C	4004JA3002A	4004JA3002A	4004JA3002A	4004JA3002A	4004JA3002A	Clip
316D	MJU39256412	MJU39256412	MJU39256412	MJU39256412	MJU39256412	Tube,Plastic
316F	5210JA3029U	5210JA3029U	5210JA3029U	5210JA3029U	5210JA3029U	Tube,Plastic
316G	AJR56656503	AJR56656503	AJR56656503	AJR56656503	AJR56656503	Tube,Plastic
316J	4932JA3009A	4932JA3009A	4932JA3009A	4932JA3009A	4932JA3009A	Connector, Tube
617A	4970JA3004F	4970JA3004F	4970JA3004F	4970JA3004F	4970JA3004F	Spring
619A	AJU72992601	AJU72992601	AJU72992601	AJU72992601	AJU72992601	Valve Assembly,Water
319E	6877JB3036V	6877JB3036V	6877JB3036V	6877JB3036V	6877JB3036V	Harness Assembly
323B	5006JJ2009A	5006JJ2009A	5006JJ2009A	5006JJ2009A	5006JJ2009A	Cap,Cover
625A	3550JA2184B	3550JA2184B	3550JA2184B	3550JA2184B	3550JA2184B	Cover,Tube
627A	4930JA3054A	4930JA3054A	4930JA3054A	4930JA3054A	4930JA3054A	Holder,Pipe
327B	MEG42758601	MEG42758601	MEG42758601	MEG42758601	MEG42758601	Holder,Pipe
31	1SZZJA3009N	1SZZJA3009N	1SZZJA3009N	1SZZJA3009N	1SZZJA3009N	Screw,Customized
32	1SZZJA3022B	1SZZJA3022B	1SZZJA3022B	1SZZJA3022B	1SZZJA3022B	Screw,Customized

#### **CASE PARTS** CAUTION: Use the part number to order the part, not the position number. 603C (S03) (503E) (603E) 624E 207B S11) (624D) (503D) 624C (503G) (500P) S01 (624A) (409D) 158A) (271B) (103B) (S01) S03 (103A) (501F) (B01 (207A) Î (120A) (402A) (S02) 145A (501G) 406D (610D) (120C) 282G) (120B) 405G 329B) (405E) 271D (S10 (145B) (405D) (500H) (404B) (405H) (313A) 4051 (282F) **S14** (406B) (302B) (B02) 262H 400A (105A) 249D B02 (249C) (318A) (316B) (317A) (316A) S14 408A) (303A) (106A) 314A 300A (145G) (405H) (404A) -(312A) 405F (332C) (106A) (310B) (309B) (329C) (323B) 410G 315B (319A) (610C) (315C) (315A) S20 (103C) (315B (S17) (B04)

# **CASE PARTS**

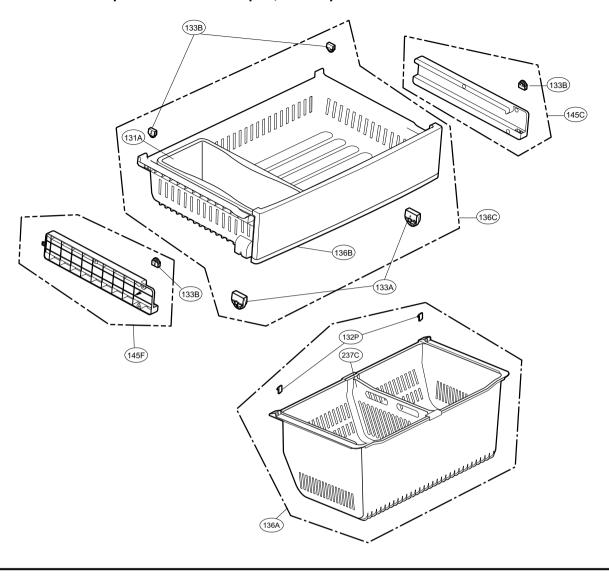
Loc NO.	71063 (ST)	71069 (WB)	71062 (SW)	71056 (TI)	71054 (BI)	Desc
103A	3650JA2061X	3650JA2113N	3650JA2061B	3650JA2061X	3650JA2061V	Handle,Rear
103B	3650JA2061W	3650JA2113P	3650JA2061A	3650JA2061W	3650JA2061U	Handle,Rear
103C	ACQ55957504	ACQ55957503	ACQ55957501	ACQ55957504	ACQ55957502	Cover Assembly,Lower
105A	5251JA3003D	5251JA3003D	5251JA3003D	5251JA3003D	5251JA3003D	Tube Assembly,Drain
106A	AFC72909201	AFC72909201	AFC72909201	AFC72909201	AFC72909201	Leg Assembly,Adjust
120A	ADJ72909804	ADJ72909804	ADJ72909804	ADJ72909804	ADJ72909804	Duct Assembly,Multi
120B	MCZ61845003	MCZ61845003	MCZ61845003	MCZ61845003	MCZ61845003	Duct,Multi
120C	ABA72913501	ABA72913501	ABA72913501	ABA72913501	ABA72913501	Bracket Assembly,Motor
145A	4930JA2080C	4930JA2080C	4930JA2080C	4930JA2080C	4930JA2080C	Holder,Shelf
145B	4930JA2081C	4930JA2081C	4930JA2081C	4930JA2081C	4930JA2081C	Holder,Shelf
145G	MCZ62033001	MCZ62033001	MCZ62033001	MCZ62033001	MCZ62033001	Duct,Connector
158A	MCK61881301	MCK61881301	MCK61881301	MCK61881301	MCK61881301	Cover,Lamp
207A	3550JJ1097Q	3550JJ1097E	3550JJ1097A	3550JJ1097Q	3550JJ1097C	Cover, Hinge
207B	3550JJ1097V	3550JJ1097Z	3550JJ1097Y	3550JJ1097V	MCK63780301	Cover, Hinge
249C	MEG61844801	MEG61844801	MEG61844801	MEG61844801	MEG61844801	Holder,Rail
249D	MEG61844802	MEG61844802	MEG61844802	MEG61844802	MEG61844802	Holder,Rail
262B	AEH71135338	AEH71135342	AEH71135338	AEH71135338	AEH71135338	Hinge Assembly,Center
262H	AEH71135340	AEH71135344	AEH71135340	AEH71135340	AEH71135340	Hinge Assembly,Center
271B	AEH60614102	AEH60614102	AEH60614102	AEH60614102	AEH60614102	Hinge Assembly,Upper
271D	AEH60614101	AEH60614101	AEH60614101	AEH60614101	AEH60614101	Hinge Assembly,Upper
282F	MBL61865401	MBL61865401	MBL61865401	MBL61865401	MBL61865401	Cap,Duct
282G	MBL61865301	MBL61865301	MBL61865301	MBL61865301	MBL61865301	Cap,Duct
290A	ACQ75168203	ACQ75168203	ACQ75168203	ACQ75168203	ACQ75168203	Cover Assembly,PCB
300A	TCA34649901	TCA34649901	TCA34649901	TCA34649901	TCA34649901	Compressor,Set Assembly
302B	5421JJ1003L	5421JJ1003L	5421JJ1003L	5421JJ1003L	5421JJ1003L	Evaporator Assembly
303A	EAD61050801	EAD61050801	EAD61050801	EAD61050801	EAD61050801	Thermistor Assembly,PTC
304A	3550JA2284A	3550JA2284A	3550JA2284A	3550JA2284A	3550JA2284A	Cover,PTC
309B	5040JJ2001A	5040JJ2001A	5040JJ2001A	5040JJ2001A	5040JJ2001A	Damper,Motor Support
310B	4J00977P	4J00977P	4J00977P	4J00977P	4J00977P	Pipe,Compressor Sealing
312A	5041JA3001B	5041JA3001B	5041JA3001B	5041JA3001B	5041JA3001B	Damper Assembly,Seat
312C	3391JJ2013C	3391JJ2013C	3391JJ2013C	3391JJ2013C	3391JJ2013C	Tray Assembly,Drain
313A	3551JJ2018A	3551JJ2018A	3551JJ2018A	3551JJ2018A	3551JJ2018A	Cover Assembly, Machinery (Rear)
314A	4620JA3015A	4620JA3015A	4620JA3015A	4620JA3015A	4620JA3015A	Stopper,Compressor
315A	3103JJ1001Q	3103JJ1001Q	3103JJ1001Q	3103JJ1001Q	3103JJ1001Q	Base Assembly,Compressor
315B	4580JJ3001A	4580JJ3001A	4580JJ3001A	4580JJ3001A	4580JJ3001A	Roller
315C	1PZZJA3013B	1PZZJA3013B	1PZZJA3013B	1PZZJA3013B	1PZZJA3013B	Pin,Common
316A	5072JA3003F	5072JA3003F	5072JA3003F	5072JA3003F	5072JA3003F	Damper,Noise
316B	5072JA3003G	5072JA3003G	5072JA3003G	5072JA3003G	5072JA3003G	Damper,Noise
317A	5851JA2007E	5851JA2007E	5851JA2007E	5851JA2007E	5851JA2007E	Drier Assembly
318A	4930JA3034A	4930JA3034A	4930JA3034A	4930JA3034A	4930JA3034A	Holder,Drier
319A	MJS61845701	MJS61845701	MJS61845701	MJS61845701	MJS61845701	Tray,Drip
319C	MEA42257901	MEA42257901	MEA42257901	MEA42257901	MEA42257901	Guide,Fan
323B	ACG72915205	ACG72915205	ACG72915205	ACG72915205	ACG72915205	Condenser Assembly,Wire
329A	5901JA1016B	5901JA1016B	5901JA1016B	5901JA1016B	5901JA1016B	Fan Assembly
329B	5901JA1020A	5901JA1020A	5901JA1020A	5901JA1020A	5901JA1020A	Fan Assembly
329C	ADP36665701	ADP36665701	ADP36665701	ADP36665701	ADP36665701	Fan Assembly
332C	AEB72913909	AEB72913909	AEB72913909	AEB72913909	AEB72913909	Grille Assembly,Fan
400A	6615JB2005H	6615JB2005H	6615JB2005H	6615JB2005H	6615JB2005H	Controller Assembly

# **CASE PARTS**

Loc NO.	71063 (ST)	71069 (WB)	71062 (SW)	71056 (TI)	71054 (BI)	Desc
402A	EBF60755004	EBF60755004	EBF60755004	EBF60755004	EBF60755004	Switch,Push Button
04A	4681JB1027C	4681JB1027C	4681JB1027C	4681JB1027C	4681JB1027C	Motor,DC
04B	4681JB1027J	4681JB1027J	4681JB1027J	4681JB1027J	4681JB1027J	Motor,DC
05B	4810JA2055A	4810JA2055A	4810JA2055A	4810JA2055A	4810JA2055A	Bracket, Motor
105C	5040JA2009B	5040JA2009B	5040JA2009B	5040JA2009B	5040JA2009B	Damper,Motor Support
05D	4810JA2055A	4810JA2055A	4810JA2055A	4810JA2055A	4810JA2055A	Bracket, Motor
105E	MHN61841101	MHN61841101	MHN61841101	MHN61841101	MHN61841101	Shroud,Refrigerator
105F	5040JA2004B	5040JA2004B	5040JA2004B	5040JA2004B	5040JA2004B	Harness,Single
105G	MAZ61845501	MAZ61845501	MAZ61845501	MAZ61845501	MAZ61845501	Bracket, Motor
105H	3550JA2273A	3550JA2273A	3550JA2273A	3550JA2273A	3550JA2273A	Cover, Motor
405l	MCK61881401	MCK61881401	MCK61881401	MCK61881401	MCK61881401	Cover,Lamp
106B	6600JB1010K	6600JB1010K	6600JB1010K	6600JB1010K	6600JB1010K	Switch,Push Button
106D	MEG61899901	MEG61899901	MEG61899901	MEG61899901	MEG61899901	Holder,Door
107A	ABA72913302	ABA72913302	ABA72913302	ABA72913302	ABA72913302	Bracket Assembly,Motor
108A	5300JK1005D	5300JK1005D	5300JK1005D	5300JK1005D	5300JK1005D	Heater,Sheath
109B	6912JB2004K	6912JB2004K	6912JB2004K	6912JB2004K	6912JB2004K	Lamp, Incandescent
109D	EAV48995107	EAV48995107	EAV48995107	EAV48995107	EAV48995107	LED Assembly
110G	EAE58905701	EAE58905701	EAE58905701	EAE58905701	EAE58905701	Capacitor, Electric Appliance Film, Rac
110J	0CZZJB2014K	0CZZJB2014K	0CZZJB2014K	0CZZJB2014K	0CZZJB2014K	Capacitor, Electric Appliance Film, Bo
111A	6411JB1042W	6411JB1042W	6411JB1042W	6411JB1042W	6411JB1042W	Power Cord Assembly
420A	4681JB1029D	4681JB1029D	4681JB1029D	4681JB1029D	4681JB1029D	Motor Assembly, DC, Cooling
500A	EBR65002701	EBR65002701	EBR65002701	EBR65002701	EBR65002701	PCB Assembly,Main
600H	EBR64173901	EBR64173901	EBR64173901	EBR64173901	EBR64173901	PCB Assembly,Sub
600P	EBR64730401	EBR64730401	EBR64730401	EBR64730401	EBR64730401	EBR64730401
501F	3551JA2144H	3551JA2144H	3551JA2144H	3551JA2144H	3551JA2144H	Cover Assembly,PCB
501G	MCQ62106201	MCQ62106201	MCQ62106201	MCQ62106201	MCQ62106201	Damper,Rubber
503D	MBN61844901	MBN61844901	MBN61844901	MBN61844901	MBN61844901	Case,Lamp
503E	ACQ33676509	ACQ33676509	ACQ33676509	ACQ33676509	ACQ33676509	Cover Assembly,Lamp
503F	MCK62375001	MCK62375001	MCK62375001	MCK62375001	MCK62375001	Cover,Lamp
503G	MCR61954803	MCR61954803	MCR61954803	MCR61954803	MCR61954803	Decor,Control
603C	4004JA3002A	4004JA3002A	4004JA3002A	4004JA3002A	4004JA3002A	Clip
603E	4004JA3003A	4004JA3003A	4004JA3003A	4004JA3003A	4004JA3003A	Clip
310C	ACQ73244001	ACQ73244001	ACQ73244001	ACQ73244001	ACQ73244001	Cover Assembly,Sensor
310D	6500JB2001B	6500JB2001B	6500JB2001B	6500JB2001B	6500JB2001B	Sensor
624A	ADQ36006102	ADQ36006102	ADQ36006102	ADQ36006102	ADQ36006102	Filter Assembly,Water
624C	MCK42262701	MCK42262701	MCK42262701	MCK42262701	MCK42262701	Cover,Filter
624D	MDJ62165101	MDJ62165101	MDJ62165101	MDJ62165101	MDJ62165101	Filter,Head
624E	ABN73019101	ABN73019101	ABN73019101	ABN73019101	ABN73019101	Cap Assembly,Head
626A	MCK42264401	MCK42264401	MCK42264401	MCK42264401	MCK42264401	Cover,Filter
301	4000W4A003A	4000W4A003A	4000W4A003A	4000W4A003A	4000W4A003A	Screw,Customized
						Screw,Customized
302	1STZJA3004F	1STZJA3004Q	1STZJA3004F	1STZJA3004F	1STZJA3004F	
304	1BZZJA2002A	1BZZJA2002A	1BZZJA2002A	1BZZJA2002A	1BZZJA2002A	Bolt,Common
801	1SZZJA3005K	1SZZJA3005K	1SZZJA3005K	1SZZJA3005K	1SZZJA3005K	Screw,Customized
302	4J00415D	4J00415D	4J00415D	4J00415D	4J00415D	Screw,Customized
303	4J01424B	4J01424B	4J01424B	4J01424B	4J01424B	Screw,Customized
S10	1SBZJA3004L	1SBZJA3004L	1SBZJA3004L	1SBZJA3004L	1SBZJA3004L	Screw,Customized
S11	3J05696W	3J05696W	3J05696W	3J05696W	3J05696W	Screw,Customized
S14	1SZZJJ3010A	1SZZJJ3010A	1SZZJJ3010A	1SZZJJ3010A	1SZZJJ3010A	Screw,Customized
S17	4J00415D	4J00415D	4J00415D	4J00415D	4J00415D	Screw,Customized
S20	1SZZJA3016A	1SZZJA3016A	1SZZJA3016A	1SZZJA3016A	1SZZJA3016A	Screw,Customized

### **FREEZER PARTS**

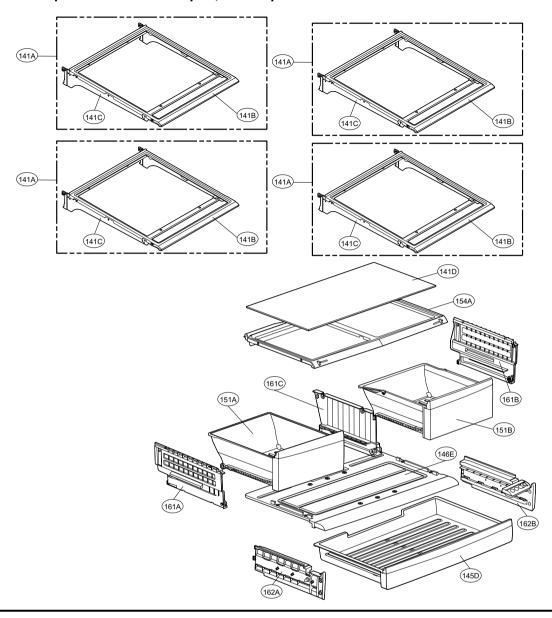
CAUTION: Use the part number to order part, not the position number.



	Loc NO.	71063 (ST)	71069 (WB)	71062 (SW)	71056 (TI)	71054 (BI)	Desc
reezer Parts	131A	MJS61850901	MJS61850901	MJS61850901	MJS61850901	MJS61850901	Tray,Freezer
	132P	MBL62065801	MBL62065801	MBL62065801	MBL62065801	MBL62065801	Cap,Rubber
	133A	AHJ72909001	AHJ72909001	AHJ72909001	AHJ72909001	AHJ72909001	Roller Assembly
	133B	AHJ72909101	AHJ72909101	AHJ72909101	AHJ72909101	AHJ72909101	Roller Assembly
	136A	AJP72909901	AJP72909901	AJP72909901	AJP72909901	AJP72909901	Tray Assembly, Drawer
	136B	AJP72909703	AJP72909703	AJP72909703	AJP72909703	AJP72909703	Tray Assembly,Drawer
	136C	AJP72909803	AJP72909803	AJP72909803	AJP72909803	AJP72909803	Tray Assembly,Drawer
	145C	AEC72912202	AEC72912202	AEC72912202	AEC72912202	AEC72912202	Guide Assembly,Rail
	145F	AEC72912201	AEC72912201	AEC72912201	AEC72912201	AEC72912201	Guide Assembly,Rail
	237C	MEA61842101	MEA61842101	MEA61842101	MEA61842101	MEA61842101	Guide, Drawer

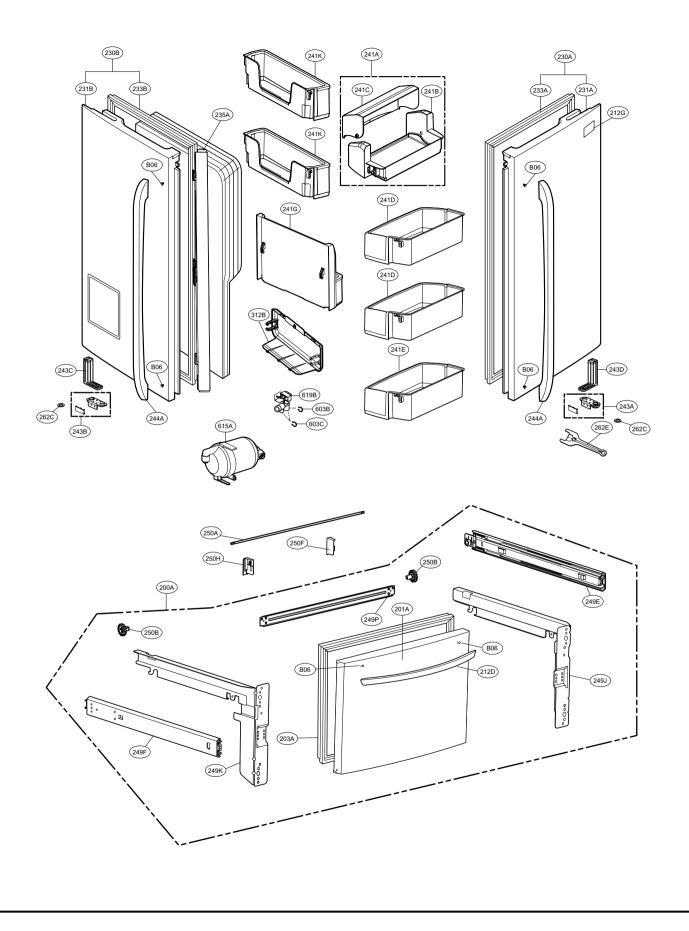
### **REFRIGERATOR PARTS**

CAUTION: Use the part number to order part, not the position number.



Loc NO.	71063 (ST)	71069 (WB)	71062 (SW)	71056 (TI)	71054 (BI)	Desc
141A	AHT72910303	AHT72910303	AHT72910303	AHT72910303	AHT72910303	Shelf Assembly,Refrigerator
141B	AHT72910203	AHT72910203	AHT72910203	AHT72910203	AHT72910203	Shelf Assembly,Refrigerator
141C	5027JJ2012R	5027JJ2012R	5027JJ2012R	5027JJ2012R	5027JJ2012R	Shelf Assembly,Net
141D	MHL42613212	MHL42613212	MHL42613212	MHL42613212	MHL42613212	Shelf,Glass
145D	AJP72909606	AJP72909606	AJP72909606	AJP72909606	AJP72909606	Tray Assembly,Fresh Room
146E	ACQ73152601	ACQ73152601	ACQ73152601	ACQ73152601	ACQ73152601	Cover Assembly,Tray
151A	AJP72910215	AJP72910215	AJP72910215	AJP72910215	AJP72910215	Tray Assembly,Vegetable
151B	AJP72910216	AJP72910216	AJP72910216	AJP72910216	AJP72910216	Tray Assembly,Vegetable
154A	ACQ73152504	ACQ73152504	ACQ73152504	ACQ73152504	ACQ73152504	Cover Assembly,TV
161A	AEC72910001	AEC72910001	AEC72910001	AEC72910001	AEC72910001	Guide Assembly,TV
161B	AEC72910002	AEC72910002	AEC72910002	AEC72910002	AEC72910002	Guide Assembly,TV
161C	AEC72910301	AEC72910301	AEC72910301	AEC72910301	AEC72910301	Guide Assembly,Rail
162A	AEC72910104	AEC72910104	AEC72910104	AEC72910104	AEC72910104	Guide Assembly,Rail
162B	AEC72910106	AEC72910106	AEC72910106	AEC72910106	AEC72910106	Guide Assembly,Rail

# **DOOR PARTS**

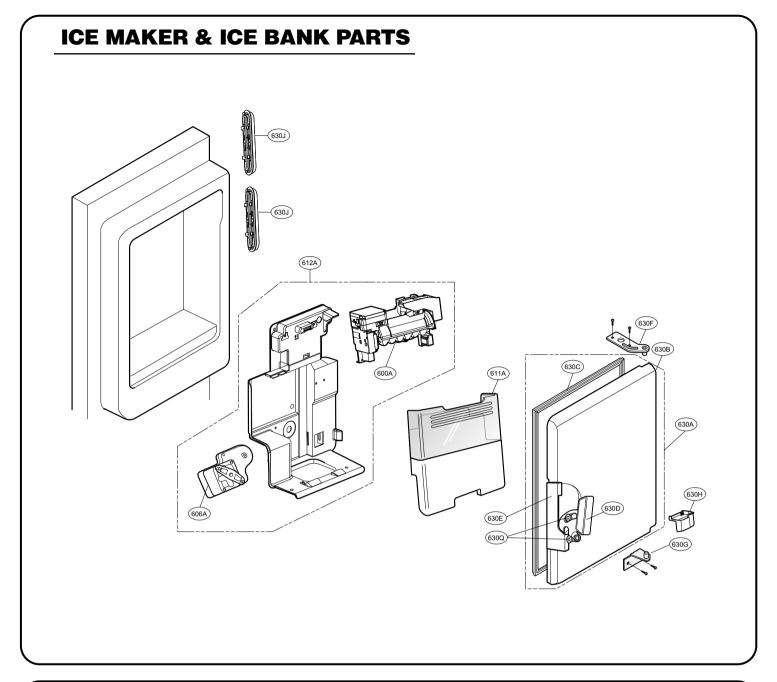


# **DOOR PARTS**

Loc NO.	71063 (ST)	71069 (WB)	71062 (SW)	71056 (TI)	71054 (BI)	Desc
200A	ADC71974610	ADC71974611	ADC71974612	ADC71974613	ADC71974614	DOOR Assembly,Freezer
201A	ADD71917411	ADD71917412	ADD71917413	ADD71917414	ADD71917415	Door Foam Assembly,Freezer
203A	MDS38201406	MDS38201402	MDS38201401	MDS38201406	MDS38201401	Gasket,Door
212D	AED72952701	AED72952702	AED72952703	AED72952701	AED72952704	Handle Assembly,Freezer
212G	AFZ68686505	AFZ68686506	AFZ68686504	AFZ68686505	AFZ68686505	Name Plate
230A	ADC71691313	ADC71691314	ADC71691315	ADC71691316	ADC71691317	Door Assembly,Refrigerator(Right)
230B	ADC71692224	ADC71692225	ADC71692226	ADC71692227	ADC71692228	Door Assembly,Refrigerator(Left)
231A	ADD72936107	ADD72936109	ADD72936108	ADD72936110	ADD72936111	Door Foam Assembly,Refrigerator
231B	ADD72935907	ADD72935909	ADD72935908	ADD72935910	ADD72935911	Door Foam Assembly,Refrigerator
233A	ADX72930405	ADX72930407	ADX72930406	ADX72930405	ADX72930406	Gasket Assembly,Door
233B	ADX72930401	ADX72930404	ADX72930403	ADX72930401	ADX72930403	Assembly,Door
235A	AGU72969102	AGU72969103	AGU72969101	AGU72969102	AGU72969101	Plate Assembly,Front
241A	AAP33686303	AAP33686303	AAP33686303	AAP33686303	AAP33686303	Basket Assembly,Door
241B	MAN38142901	MAN38142901	MAN38142901	MAN38142901	MAN38142901	Basket,Door
241C	MAN39723202	MAN39723202	MAN39723202	MAN39723202	MAN39723202	Basket,Window
241D	AAP72909208	AAP72909208	AAP72909208	AAP72909208	AAP72909208	Basket Assembly,Door
241E	AAP72909212	AAP72909212	AAP72909212	AAP72909212	AAP72909212	Basket Assembly,Door
241G	AAP72931603	AAP72931603	AAP72931603	AAP72931603	AAP72931603	Basket Assembly,Door
241K	AAP72931503	AAP72931503	AAP72931503	AAP72931503	AAP72931503	Basket Assembly,Door
243A	AJC68689616	AJC68689616	AJC68689616	AJC68689616	AJC68689616	Stopper Assembly,Door
243B	AJC68689615	AJC68689615	AJC68689615	AJC68689615	AJC68689615	Stopper Assembly,Door
243C	AEH36821901	AEH36821901	AEH36821901	AEH36821901	AEH36821901	Hinge Assembly,Center
243D	AEH36821902	AEH36821902	AEH36821902	AEH36821902	AEH36821902	Hinge Assembly,Center
244A	AED72952801	AED72952802	AED72952803	AED72952801	AED72952804	Handle Assembly,Refrigerator
249E	MGT61844002	MGT61844002	MGT61844002	MGT61844002	MGT61844002	Rail,Slide
249F	MGT61844001	MGT61844001	MGT61844001	MGT61844001	MGT61844001	Rail,Slide
249J	MCD61841101	MCD61841101	MCD61841101	MCD61841101	MCD61841101	Connector,Rail
249K	MCD61841102	MCD61841102	MCD61841102	MCD61841102	MCD61841102	Connector,Rail
249P	MCD61841301	MCD61841301	MCD61841301	MCD61841301	MCD61841301	Connector
250A	MAK39123904	MAK39123904	MAK39123904	MAK39123904	MAK39123904	Bar
250B	4403JA3005A	4403JA3005A	4403JA3005A	4403JA3005A	4403JA3005A	Connector Assembly
250F	ACQ73657701	ACQ73657701	ACQ73657701	ACQ73657701	ACQ73657701	Cover Assembly
250H	ACQ73657702	ACQ73657702	ACQ73657702	ACQ73657702	ACQ73657702	Cover Assembly
262C	MGZ42997101	MGZ42997101	MGZ42997101	MGZ42997101	MGZ42997101	Ring
262E	MHU38218901	MHU38218901	MHU38218901	MHU38218901	MHU38218901	Spanner
312B	MCK62964801	MCK62964801	MCK62964801	MCK62964801	MCK62964801	Cover,Front
603B	4930JA3091A	4930JA3091A	4930JA3091A	4930JA3091A	4930JA3091A	Holder,Bracket
603C	4004JA3002A	4004JA3002A	4004JA3002A	4004JA3002A	4004JA3002A	Clip
615A	AJL72911501	AJL72911501	AJL72911501	AJL72911501	AJL72911501	Tank Assembly,Water
619B	5221JB2010L	5221JB2010L	5221JB2010L	5221JB2010L	5221JB2010L	Valve Assembly,Water
B06	4620JJ2010C	4620JJ2010C	4620JJ2010C	4620JJ2010C	4620JJ2010C	Stopper,Handle

# **DISPENSER PARTS** (278A) 276B (275A) (500C) 281A) (279A)

Loc NO.	71063 (ST)	71069 (WB)	71062 (SW)	71056 (TI)	71054 (BI)	Desc
275A	ABN72938902	ABN72938902	ABN72938902	ABN72938902	ABN72938902	Cap Assembly,Duct
276A	4970JA3011C	4970JA3011C	4970JA3011C	4970JA3011C	4970JA3011C	Spring,Lever
276B	4930JA3043A	4930JA3043A	4930JA3043A	4930JA3043A	4930JA3043A	Holder,Lever
276F	MFF61863101	MFF61863101	MFF61863101	MFF61863101	MFF61863101	Link
276G	MEG61958701	MEG61958701	MEG61958701	MEG61958701	MEG61958701	Holder,Bracket
276J	MCK62986701	MCK62986701	MCK62986701	MCK62986701	MCK62986701	Cover,LED
278A	ADW72930001	ADW72930002	ADW72930003	ADW72930001	ADW72930004	Funnel Assembly
278B	MDQ62016701	MDQ62016702	MDQ62016703	MDQ62016701	MDQ62016704	Frame,Funnel
278C	MFC61843401	MFC61843401	MFC61843401	MFC61843401	MFC61843401	Lever, Dispenser
278D	ADW72909803	MDR61922402	MDR61922403	MDR61922403	MDR61922404	Funnel
278F	6871JB2074G	6871JB2074G	6871JB2074G	6871JB2074G	6871JB2074G	PCB Assembly, Display
279A	ACQ76217902	ACQ76217904	ACQ76217906	ACQ76217907	ACQ76217908	Cover Assembly, Display
279J	ABH73052902	MBG62322802	MBG62322803	MBG62322801	MBG62322804	Button Assembly
281A	MCR62346901	MCR62346902	MCR62346903	MCR62346901	MCR62346904	Decor, Drain
402C	EBF00016405	EBF00016405	EBF00016405	EBF00016405	EBF00016405	Switch,Micro
405A	EAU59551201	EAU59551201	EAU59551201	EAU59551201	EAU59551201	Motor,DC
500C	ABQ72940002	ABQ72940002	ABQ72940002	ABQ72940002	ABQ72940002	Case Assembly,PCB
500J	ABQ73082001	ABQ73082001	ABQ73082001	ABQ73082001	ABQ73082001	Case Assembly,PCB
501A	EBR65768601	EBR65768601	EBR65768601	EBR65768601	EBR65768601	PCB Assembly, Display



Loc NO.	71063 (ST)	71069 (WB)	71062 (SW)	71056 (TI)	71054 (BI)	Desc
600A	AEQ72910401	AEQ72910401	AEQ72910401	AEQ72910401	AEQ72910401	Ice Maker Assembly,Kit
	AEQ72910402	AEQ72910402	AEQ72910402	AEQ72910402	AEQ72910402	
606A	EAU60784204	EAU60784204	EAU60784204	EAU60784204	EAU60784204	Motor, AC Auger
611A	AKC72949302	AKC72949302	AKC72949302	AKC72949302	AKC72949302	Bucket Assembly,Ice
612A	EAU60783801	EAU60783801	EAU60783801	EAU60783801	EAU60783801	Motor,AC
	EAU60793802	EAU60793802	EAU60793802	EAU60793802	EAU60793802	
630A	ADC72987101	ADC72987101	ADC72987101	ADC72987101	ADC72987101	Door Assembly,Freeze Room
630B	ADD72915901	ADD72915901	ADD72915901	ADD72915901	ADD72915901	Door Foam Assembly
630C	MDS62111101	MDS62111101	MDS62111101	MDS62111101	MDS62111101	Gasket Assembly,Door
630D	MEB61894001	MEB61894001	MEB61894001	MEB61894001	MEB61894001	Handle,Home Bar
630E	MCK63734902	MCK63734902	MCK63734902	MCK63734902	MCK63734902	Decor, Handle
630F	AEH72976201	AEH72976201	AEH72976201	AEH72976201	AEH72976201	Hinge Assembly,Upper
630G	4775JA2102A	4775JA2102A	4775JA2102A	4775JA2102A	4775JA2102A	Hinge Assembly,Lower
630H	MCK62966501	MCK62966501	MCK62966501	MCK62966501	MCK62966501	Cover,Home Bar
630J	ADX72970501	ADX72970501	ADX72970501	ADX72970501	ADX72970501	Gasket Assembly,Door
630Q	4580JT3001A	4580JT3001A	4580JT3001A	4580JT3001A	4580JT3001A	Roller