LG TRAINING MANUAL

French Door Refrigerator - Fall 2007

Models:

LFX21960ST

LFX25960xx

Customer Service (and Part Sales)	**(800) 243-0000**
Technical Support (and Part Sales)	**(800) 243-0000**
USA Website	**us.lgservice.com**
Customer Service Website	**us.lgservice.com**
B2B Service Website	**biz.lgservice.com**
LG CS Academy	**lgcsacademy.com**

This manual was current at the time of publication; however, all information contained herein is subject to change. When ordering parts, always order by model number and serial number. If the part has been changed, the newer part will be provided.

Published by LG Technical Support Service

IMPORTANT SAFETY NOTICE

The information in this training manual is intended for use by persons possessing an adequate background in electrical equipment, electronic devices, and mechanical systems. In any attempt to repair a major appliance, personal injury and property damage can result. The manufacturer or seller maintains no liability for the interpretation of this information, nor can it assume any liability in conjunction with its use. When servicing this product, under no circumstances should the original design be modified or altered without permission from LG Electronics. Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury. If wires, screws, clips, straps, nuts, or washers used to complete a ground path are removed for service, they must be returned to their original positions and properly fastened.

Always unplug the product before servicing. Do not touch metal parts in the freezer with wet hands. Unload the refrigerator before moving it. Servicers should be CFC certified.

CAUTION

To avoid personal injury, disconnect the power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks. Also be aware that many household appliances present a weight hazard. **At least two people** should be involved in the installation or servicing of such devices. Failure to consider the weight of an appliance could result in physical injury. Wear protective gloves when handling the evaporator coil to prevent cuts.

REFRIGERANT

Use eye protective wear when soldering or brazing. Remember that refrigerant escaping will freeze the surface of the eye, causing irreparable blindness. Servicers working on the sealed system must be properly trained and certified to handle refrigerants. Use of the proper tools is critical to proper repairs. Refrigerant must be recovered using an approved recovery device.

ESD NOTICE

Some of the electronic in appliances are electrostatic discharge (ESD) sensitive. ESD can weaken or damage the electronics in these appliances in a manner that renders them inoperative or reduces the time until their next failure. Connect an ESD wrist strap to a ground connection point or unpainted metal in the appliance. Alternatively, you can touch your finger repeatedly to a ground connection point or unpainted metal in the appliance. Before removing a replacement part from its package, touch the anti-static bag to a ground connection point or unpainted metal in the appliance. Handle the electronic control assembly by its edges only. When repackaging a failed electronic control assembly in an anti-static bag, observe these same precautions.

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 if the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna; Increase the separation between the equipment and the receiver; Connect the equipment to an outlet on a different circuit than that to which the receiver is connected; or consult the dealer or an experienced radio/TV technician for help.

COMPLIANCE

The responsible party for this device’s compliance is LG Electronics Alabama, Inc.; 201 James Record Road, Huntsville, AL 35813.

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INTRODUCTION

The French Door (three-door) Refrigerator is basically similar to a regular door refrigerator. The refrigeration portion, the freezer, the shelves, and the controls are the same; the difference is that the French Door model has 2 narrow doors hinged on either side of the refrigerator and opening independently from the center. The doors are not interchangeable or reversible, but they can be removed if necessary for moving the refrigerator through doorways. Some models include a water dispenser in the left door and/or a tilt-out freezer door. The freezer door is easily removed.

This training manual covers installation, operation, testing, diagnosis, and repair. There is a special section for Tips & Tricks to make the job easier. Full schematics and parts lists are included.

Drawings and photos are used for explanation. Additionally, many of these topics are covered in video training available via Internet at LG CS Academy. (http://www.lgcsacademy.com)

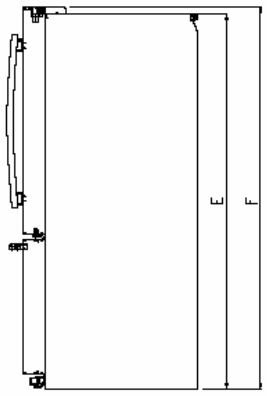
SPECIFICATIONS

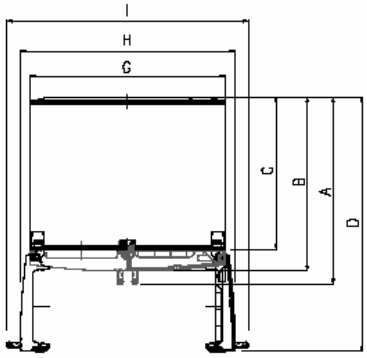
21 cu. ft. / 25 cu. ft.

ITEMS	SPECIFICATIONS
DOOR DESIGN	Side Rounded
DIMENSIONS (inches)	35 3/4 x 30 x 69 3/4 (WxDxH) 21cu.ft
	35 3/4 x 34 1/4 x 69 3/4 (WxDxH) 25cu.ft
NET WEIGHT (pounds)	302.58 (21cu.ft)
	324.18 (25cu.ft)
COOLING SYSTEM	Fan Cooling
TEMPERATURE CONTROL	Micom Control
DEFROSTING SYSTEM	Full Automatic Heater Defrost
DOOR FINISH	Embossed Metal, VCM, Stainless
HANDLE TYPE	Bar
INNER CASE	ABS Resin
INSULATION	Polyurethane Foam

ITEMS		SPECIFICATIONS
VEGETABLE TRAY		Opaque Drawer Type
COMPRESSOR		Recipro
EVAPORATOR		Fin Tube Type
CONDENSER		Wire Condenser
REFRIGERANT		R-134a (125 g)
LUBRICATING OIL		ISO10 (280 ml)
DEFROSTING DEVICE		SHEATH HEATER
LAMP	REFRIGERATOR	60 W (2EA)
	FREEZER	60 W (1EA)

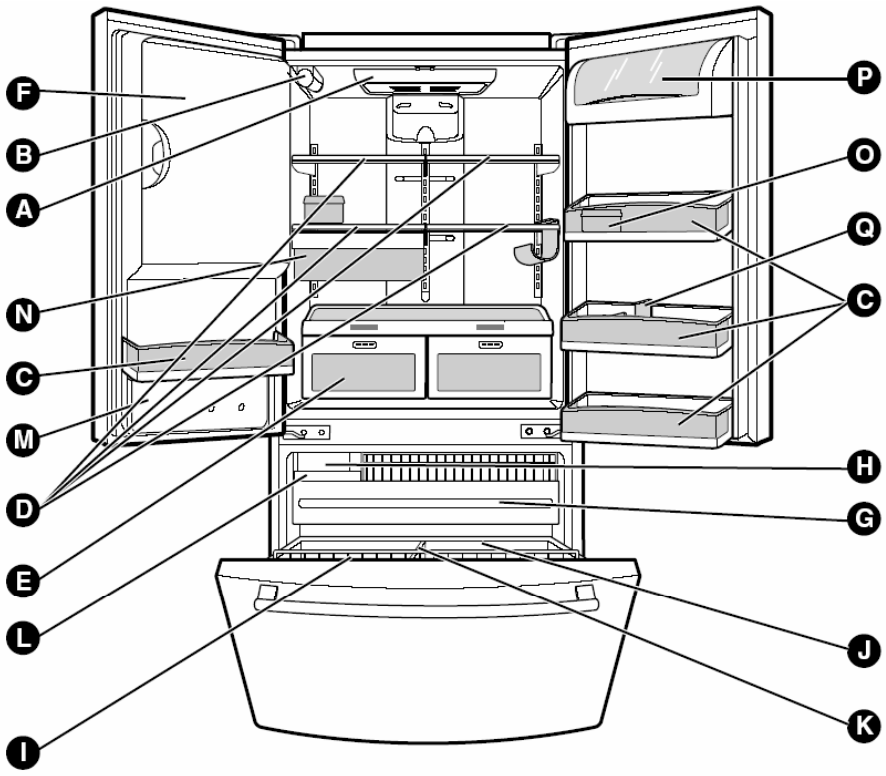
DIMENSIONS



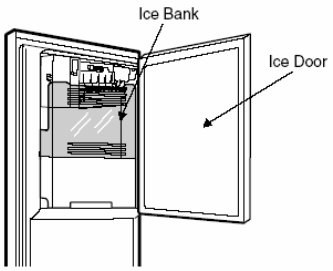


Description		LFX21960**	LFX25960**
Depth w/ Handles	A	30 in.	34 1/4 in.
Depth w/o Handles	B	27 1/2 in.	31 3/4 in.
Depth w/o Door	C	23 5/8 in.	27 7/8 in.
Depth (Total with Door Open)	D	42 1/4 in.	46 1 /2 in.
Height to Top of Case	E	68 3/8 in.	68 3/8 in.
Height to Top of Door Hinge	F	69 3/4 in.	69 3/4 in.
Width	G	35 3/4 in.	35 3/4 in.
Width (door open 90 deg. w/o handle)	H	39 1/4 in.	39/1/4 in.
Width (door open 90 deg. w/ handle)	I	44 1/4 in.	44 1/4 in.

FEATURES



- A Refrigerator Light
- B Filter (Inside)
- C Modular Door Bins
- D Refrigerator Shelves
- E Supra Fresh Crisper with Tilt-Out Compartment
- F Ice Room (Ice Maker and Ice Bank)
- G Pull out Drawer
- H Ice Room Fan
- I Tilt-Out Door Basket
- J Durabase
- K Divider
- L Ice Bin
- M Water Tank Cover
- N Snack Pan
- O Egg Box
- P Dairy Bin
- Q Bottle Holder



WARRANTY

(May vary by model)

LG ELECTRONICS, INC.
LG REFRIGERATOR LIMITED WARRANTY - USA

Your LG Refrigerator will be will repaired or replaced, at LG's option, if it proves to be defective in material or workmanship under normal use, during the warranty period ("Warranty Period") set forth below, effective from the date ("Date of Purchase") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States, including Alaska, Hawaii, and U.S. Territories.

WARRANTY PERIOD:	HOW SERVICE IS HANDLED:
REFRIGERATOR/FREEZER **LABOR: One Year** from the Date of Purchase. **PARTS: One Year** from the Date of Purchase. **SEALED SYSTEM** (Compressor, Condenser, and Evaporator) **LABOR: One Year** from the Date of Purchase. **PARTS: Seven years** from the Date of Purchase. Replacement Units and Repair Parts are warranted for the remaining portion of the original unit's warranty period.	**In-Home Service** (Except Model GR051): Please retain dealer's dated bill of sale or delivery ticket as evidence of the Date of Purchase for proof of warranty, and submit a copy of the bill of sale to the service person at the time warranty service is provided. **Please call 1-800-243-0000 and choose the appropriate option to locate your nearest LG Authorized Service Center.** (Phones are answered 24 hours a day, 365 days per year.) Or visit our website at: http://www.lgservice.com

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. NEITHER THE MANUFACTURER NOR ITS U.S. DISTRIBUTOR SHALL BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR PROFITS, OR ANY OTHER DAMAGE WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

THIS LIMITED WARRANTY DOES NOT APPLY TO:

- Service trips to your home to deliver, pick up, and/or install the product, instruct, or replace house fuses or correct wiring, or correction of unauthorized repairs.
- Damages or operating problems that result from misuse, abuse, operation outside environmental specifications or contrary to the requirements of precautions in the Operating Guide, accident, vermin, fire, flood, improper installation, acts of God, unauthorized modification or alteration, incorrect electrical current or voltage, or commercial use, or use for other than intended purpose.
- Repairs when your LG refrigerator is used in other than normal, single-family household use.

The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.

CUSTOMER INTERACTIVE CENTER NUMBERS

To obtain Customer Assistance, Product Information, or Dealer or Authorized Service Center location:	**Call 1-800-243-0000** (24 hours a day, 365 days per year) and select the appropriate option from the menu. **Or visit our website at: http://www.lgservice.com**

TO CONTACT LG ELECTRONICS BY MAIL:

LG Customer Interactive Center
P. O. Box 240007
201 James Record Road
Huntsville, Alabama 35813
ATTN: CIC

INSTALLATION

Installation is relatively straight-forward.

- Use at least two people to move and install this refrigerator.
- Do not lay the refrigerator on its side to store or transport it.
- Leave the refrigerator in the factory packaging until it is delivered to the place of installation.
- Unbox and unpack the refrigerator. Make sure no small parts or accessories are thrown away in the packing.
- Make sure the leveling legs are in the highest position before moving. (See page 13.)
- Do not roll the refrigerator across pavement, gravel, or rough surfaces. The wheels will be damaged and will, in turn, damage the customer's floor.
- Roll the refrigerator to the installation area. If you have to remove the doors, there is a section in the manual covering that. (See pages 20-21.) Be cautious to avoid damaging the refrigerator or the flooring!
- Connect the water line, if applicable. Turn on the water and check for leaks. There is a section in this manual covering that. (See page 15.)
- Roll the refrigerator into place.
- Level the refrigerator by lowering the leveling legs and taking the weight off the front rollers. The doors can be evened using this same procedure. (See page 13.)
- Install the lower cover (kick plate or base grille). (See page 14.)
- Plug in the refrigerator.
- Install all the shelves, door bins, and accessories in the desired places. Set the desired temperature.
- Allow 24 hours for the refrigerator to cool down, stabilize its temperature, and begin making ice.

UNPACKING

Leave the refrigerator in its box and packaging until it is at the installation area. Remove the box and any shipping tape and temporary labels. DO NOT REMOVE the serial number label or any WARNING labels.

After cutting the straps, lift the box off over the top of the refrigerator. This is usually easier outdoors, where there is sufficient vertical clearance.

To remove any tape residue, rub it with your finger. If that doesn't roll it up, rub it with a couple of drops of dishwashing liquid and wipe it off with a damp towel. DO NOT USE sharp instruments, rubbing alcohol, flammable liquids, solvents, or abrasive cleaners.

The shelves are installed in the shipping position at the factory. After removing all the cardboard and shipping materials, the customer can arrange the shelves according to his personal preference.

INSTALLATION

While most kitchens have a place already designed for a refrigerator, we remind you not to install the refrigerator near a heat source, a damp spot, or in bright sunlight. The refrigerator is designed to be installed in an area where the ambient temperature is between 55° F and 110° F (13° C and 43° C). If the ambient temperature is outside this specification, the refrigerator's performance may be affected adversely.

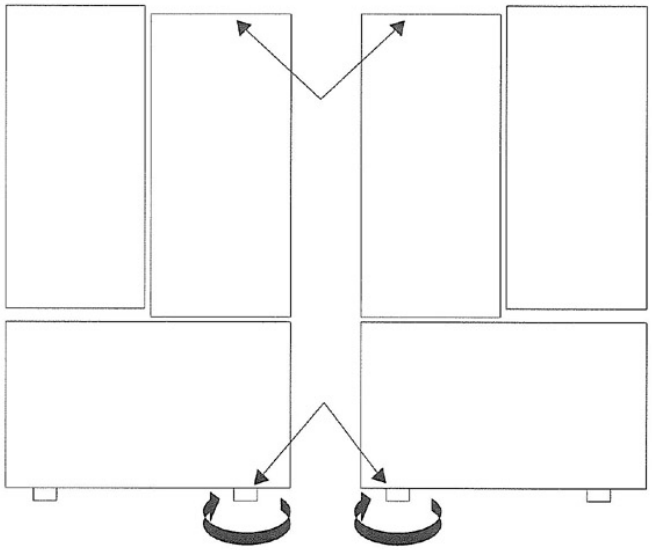
Connect the water line. (See page 15.) Turn on the water and check for leaks before pushing the refrigerator into position.

To avoid vibration, the refrigerator must be level. After rolling the refrigerator into position, lower the leveling legs to take the weight off the front wheels and level the refrigerator.

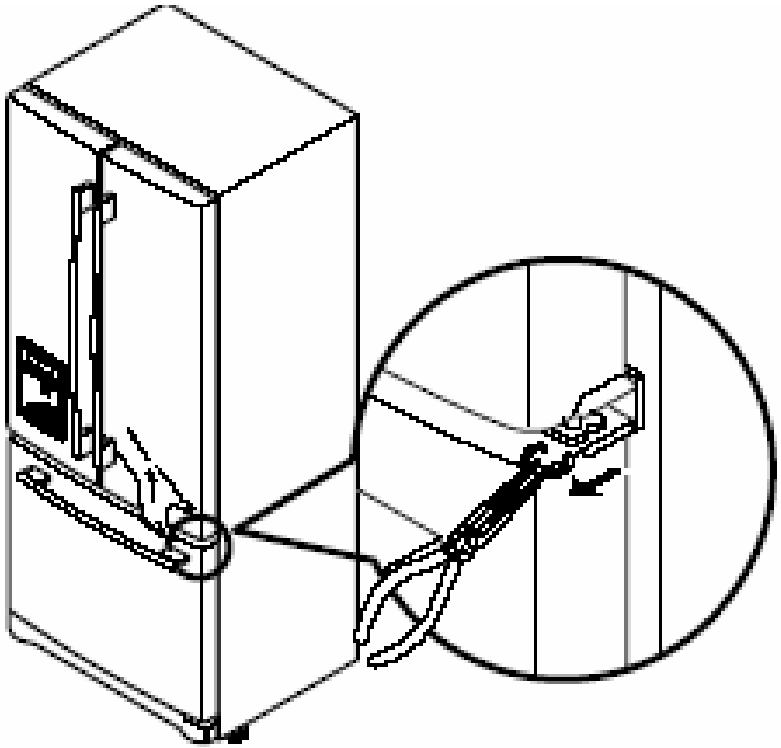
Turn the feet with a screwdriver to raise or lower the front of the refrigerator. The large hole visible is for the type of base grille that presses into place instead of being attached with screws. The feet are also used to align the doors so they hang evenly.
(See next page.)

EVENING THE DOORS

Use the leveling feet to make the doors hang evenly. If one side of the refrigerator is lower, the doors will hang crookedly.

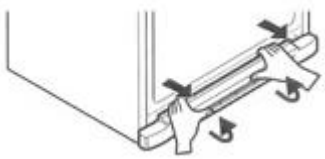


Turn the leg under the lower door clockwise to raise that side. If there is not sufficient adjustment, it may be necessary to use up to three snap rings as shims on the lower hinge pin. Three snap rings are provided with the refrigerator.



BASE GRILLE (Kick Plate)

Install the base grille (kick plate). Open the freezer door, put the grille into place, and attach it with the screws provided. Some models may have a grille that is pressed into place and held by two plastic pegs.

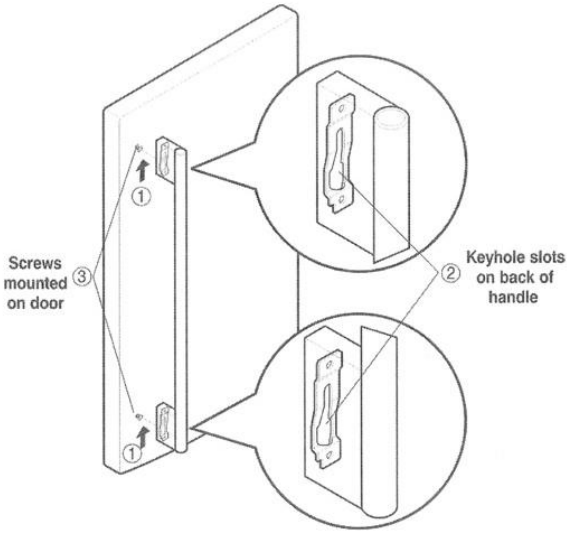


DOOR HANDLES

The door handles are attached by a bracket at each end of the handle. The bracket has a keyhole slot on the back to fit over the bolts in the door and slide into place.

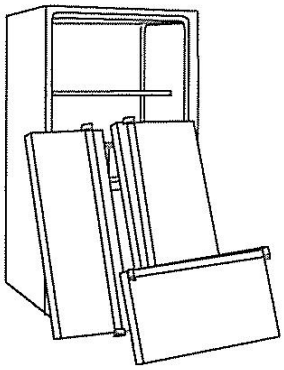
Slide the door handle UP to remove it, DOWN to replace it.

The freezer door handle works in a similar manner. Slide it RIGHT to remove it, LEFT to replace it. If it is necessary to remove the doors to get the refrigerator into the house, see the DOOR REMOVAL section on pages 20-21.



DOOR REMOVAL

Child entrapment and suffocation are not things of the past. Junked or abandoned refrigerators are dangerous. If you must scrap a refrigerator, recover the refrigerant and permanently remove the doors. Leave the shelves in place so children cannot crawl in to play. Dispose of the scrapped product by an environmentally acceptable method.



WATER LINE CONNECTION

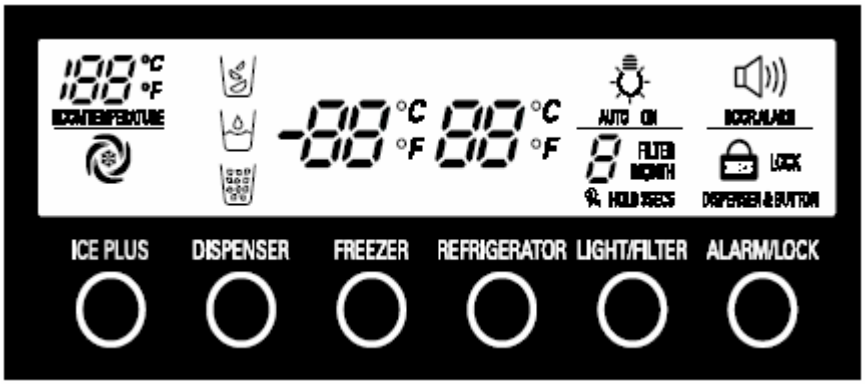
Before connecting the water to the refrigerator, be sure the water is turned off and the refrigerator is unplugged.

Connect the water line to the water valve on the back of the refrigerator. The connection is a standard 1/4 inch fitting that will accept either a compression fitting or one of the many braided, reinforced hoses available for this purpose at most hardware stores.

OPERATION

CONTROLS

The temperature in the freezer and the refrigerator can be set independently of one another. LG recommends setting the refrigerator at 37° F (3° C) and the freezer at 0° F (-18° C). Leave the refrigerator at this setting for 24 hours to allow the temperature to stabilize, then adjust the temperature as desired.



The refrigerator temperature can be set between 32° F (0° C) and 47° F (8° C).

The freezer temperature can be set between -6° F (-21° C) and 8° F (-13° C).

ICE PLUS

Pressing the ICE PLUS button activates that feature and turns on the LED for 24 hours. During that time, the cooling speed of the freezer and ice production will be intensified.

DISPENSER LOCK

PRESS and HOLD the LOCK button for 3 seconds to lock or unlock the dispenser. When locked, the dispenser will not operate and the display will be off. The dispenser will not operate if any door is open.

FILTER RESET

When the FILTER RESET LED lights, it is time to change the water filter. PRESS and HOLD the FILTER RESET button to turn the LED off. The filter should be changed every six months, and more often if necessary.

DISASSEMBLY

REFRIGERATOR DOOR REMOVAL

▲ **CAUTION:** Before you begin, unplug the refrigerator. Remove food and bins from doors.

▶ **Left Door -FIG. 2**

1. Disconnect water supply tube by pushing back on the disconnect ring (4).-FIG. 1
2. Open door. Loosen top hinge cover screw (1).
   Use flat tip screwdriver to pry back hooks on front underside of cover (3). Lift up cover.
3. Disconnect door switch wire harness (2). Remove cover.
4. Pull out the tube.
5. Disconnect the three wire harnesses (5). Remove the grounding screw (6).
6. Rotate hinge lever (7) counterclockwise and remove. Lift top hinge (8) free of hinge lever latch (9).

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

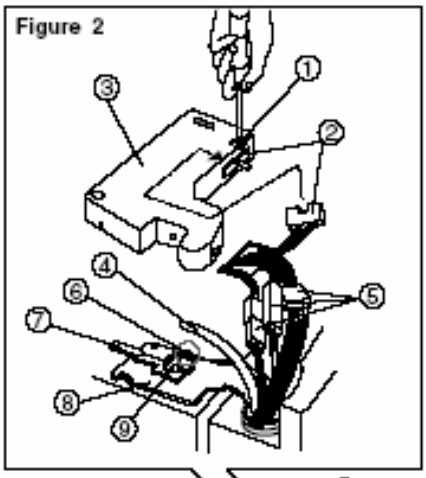
7. Lift door up from middle hinge pin and remove door.
8. Place door, inside facing up, down onto a non-scratching surface.

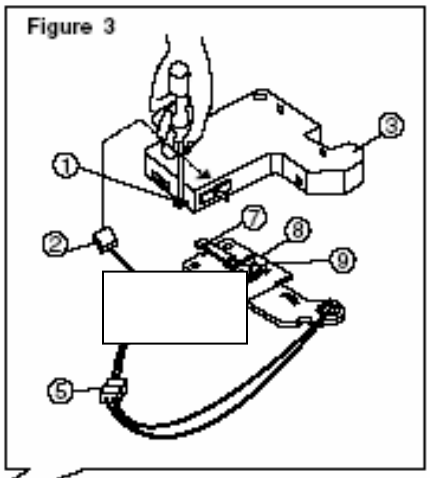
▶ **Right Door -FIG. 3**

1. Open door. Loosen top hinge cover screw (1). Lift up cover (3).
2. Disconnect door switch wire harness (2). Remove cover.
3. Disconnect wire harness (5). Remove the grounding screw (6).
4. Rotate hinge lever (7) clockwise and remove. Lift top hinge (8) free of hinge lever latch (9).

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

5. Lift door up from middle hinge pin (10) and remove door.
6. Place door, inside facing up, down onto a non-scratching surface.





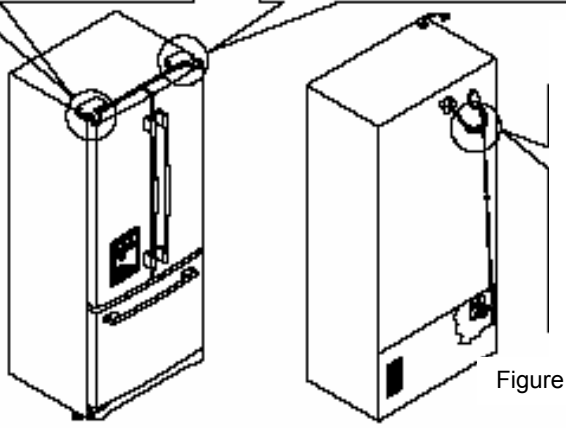


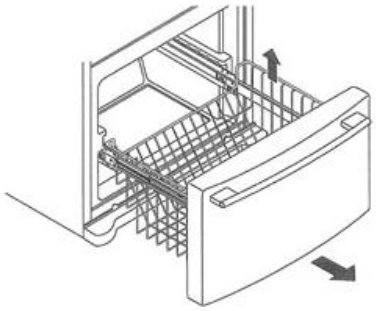
Figure 1

FREEZER DOOR REMOVAL

The freezer door is simple to remove and replace.

Pull the drawer all the way out.

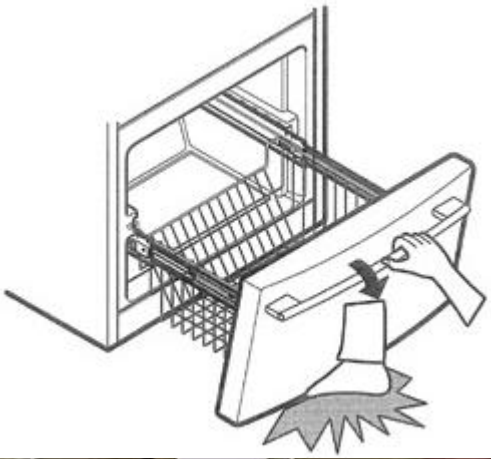
Lift the basket out.



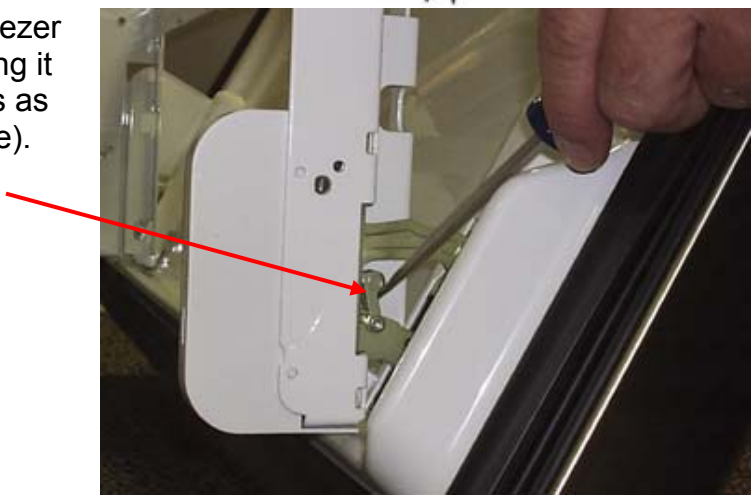
Remove the screw from both rails.

Lift the top of the door to unhook the door supports from the rail. Then lift the door to remove it.

DO NOT HOLD the door by the handle. Be careful when setting the drawer down to avoid injury to floor or feet.



Alternate method – The freezer door can be removed by tilting it out and then raising the clips as shown (one clip on each side).



FREEZER DOOR REPLACEMENT

Pull the rails all the way out.

Hook the door on the rail tabs, lower the door into place, and tighten the screw.

Put the basket in and pull it all the way toward the door.

CAUTION!

Be careful removing the doors. They are heavier than you might expect, and dropping them could damage the doors or cause personal injury.

To prevent accidental child or pet entrapment or suffocation, DO NOT allow them to play inside the freezer drawer.

DO NOT sit or stand on the freezer door. It may tip over and cause severe injury or damage.

DOOR FRAME COVER REMOVAL

● Door Gasket Removal

1. Remove door frame cover
   Starting at top of cover and working down, snap cover out and away from door.

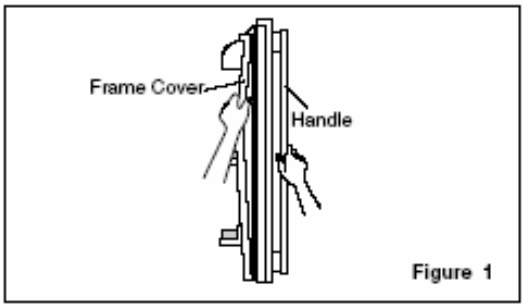


Figure 1

2. Remove gasket bracket clips
   There are two clips on each door. Start bracket removal near one of the middle clips.
   1) Pull gasket back to expose gasket bracket clip and door frame.
   2) Insert a flat tip screwdriver into seam between gasket bracket and door frame and pry back until clips snap out.
   3) Continue prying back along seam until all clips snap out.

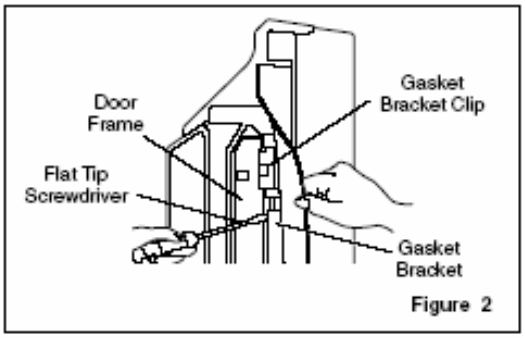


Figure 2

3. Remove gasket
   Pull gasket free from gasket channel on the three remaining sides of door.

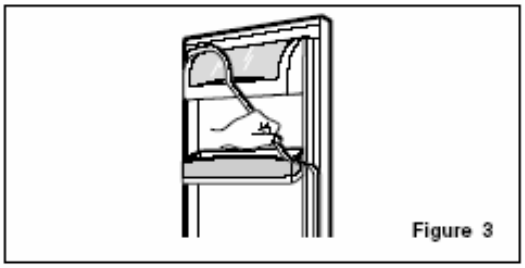


Figure 3

● Door Gasket Replacement

1. Insert gasket bracket clips
   1) Insert gasket bracket edge beneath door frame edge.
   2) Turn upper gasket bracket spring so that the spring ends are in the door channel.
   3) Push in clip until you hear it snap securely into place.

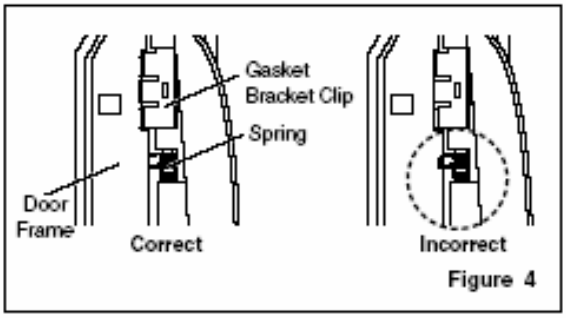


Figure 4

   4) Push in remaining clip until you hear it snap securely into place.

Note: Make sure that no part of gasket bracket edge protrudes from beneath door frame edge.

2. Insert gasket into channel
   1) Snap gasket assembly into the door bracket.
   <Inserting the Gasket Assembly into the Bracket Door>

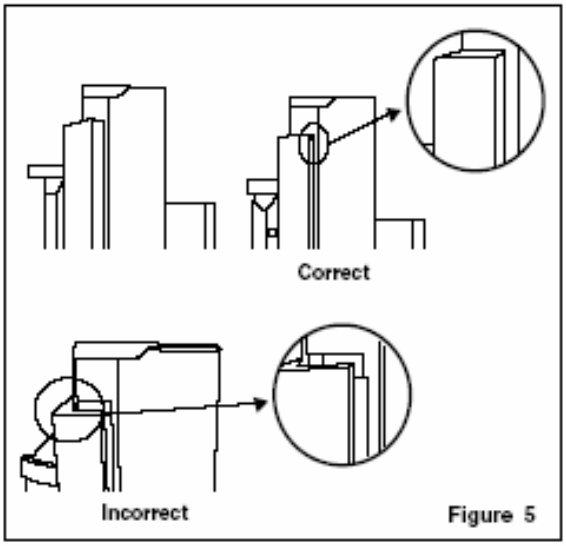
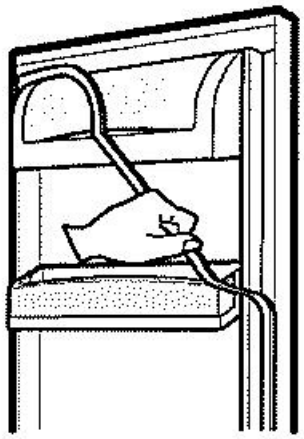


Figure 5

Removal of gasket clips. The other door is just the opposite. The tabs fit into a rectangular recess in the door and are held by a retaining clip on each side. Press the clip inward with a small screwdriver, as shown in the photo, to release the clips. They can be re-installed in the same manner.

Removing the gasket is easy after the clips are released.

Start at the top corner on the side where the door edges meet. Pull the gasket out of the channel from top to bottom, holding the top to keep it from falling. Continue across the bottom, up the side, and back across the top of the door until the gasket is free.

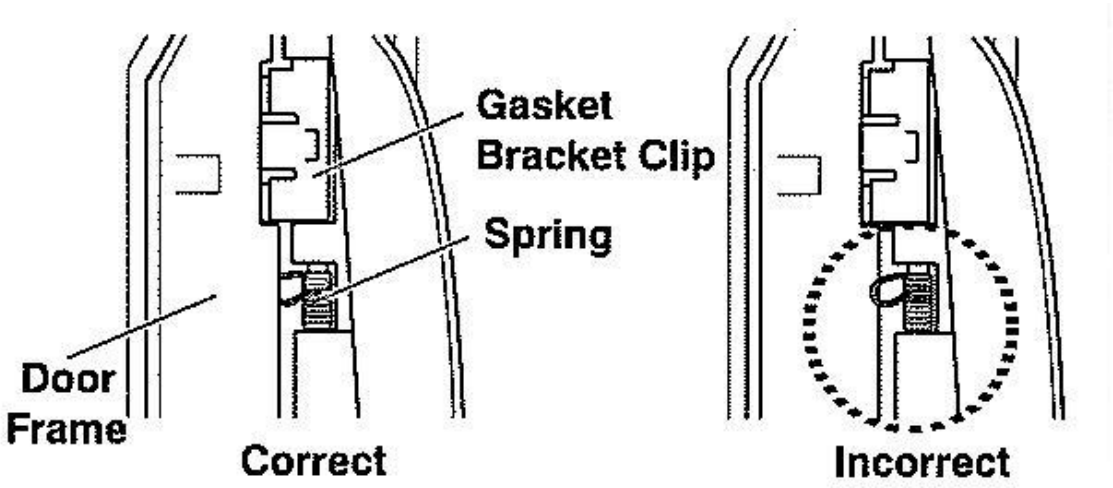


DOOR GASKET REPLACEMENT

1. Insert the gasket bracket edge under the door frame edge.
2. Position the upper gasket bracket spring so both ends are in the door channel. (See drawing, below.)
3. Push the clip in until you feel it snap firmly into place.
4. Replace the remaining clips the same way.

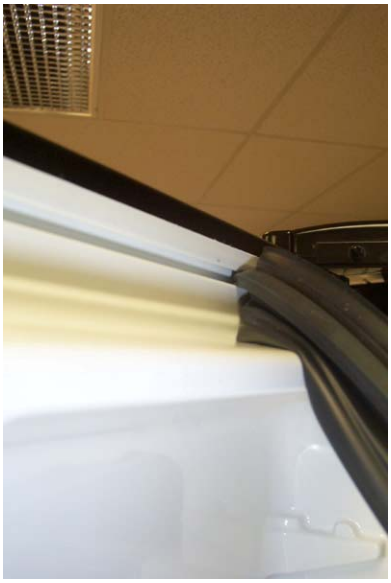
   Make certain no part of the bracket protrudes at the frame edge.

DOOR GASKET BRACKET AND CLIP PLACEMENT



5. Insert the gasket into the channel and slide it all the way down the bracket. (This is easier when you start it from the top and work toward the bottom.)

6. Press the remaining three sides of the gasket into the groove.

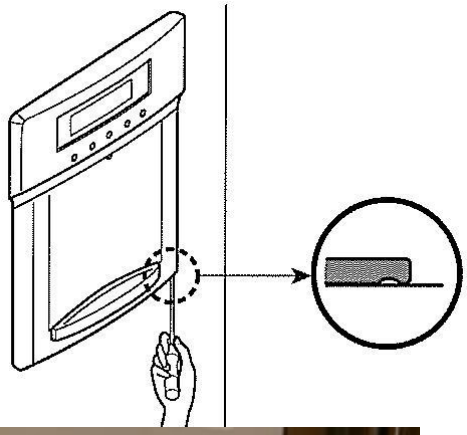


DOOR FRAME COVER REPLACEMENT

Press the door frame cover into place, starting at the top and working down. Be careful to avoid breaking the plastic tabs.

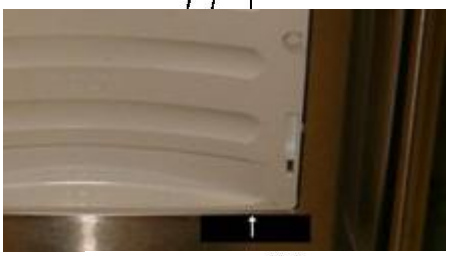
DISPENSER

1. Use a flat tip screwdriver to pry the dispenser cover away from the face of the door. Pry out at the bottom; the dispenser folds out at the top.



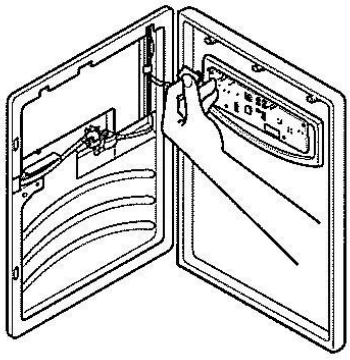
2. Pry gently to disengage the plastic hooks without breaking them off.

HINT: Put a small piece of tape below the dispenser to avoid scratching the finish.



3. Separate the connector before pulling the dispenser away.

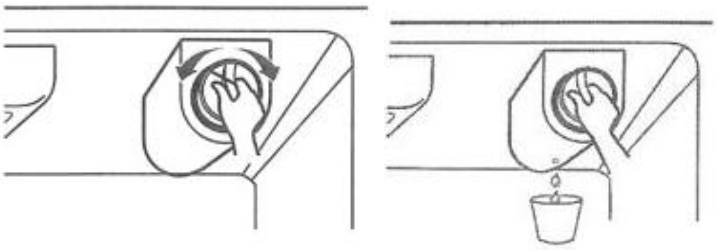
4. Replacement is the reverse of these steps.



FILTER

Twist the filter counterclockwise to remove it. Insert the new filter and twist it clockwise until it clicks into place.

Put a cup under the hole at the rear of the filter holder to catch the drip when the filter is removed.



FREEZER FAN AND MOTOR

1. Open the freezer. It may be easier to work on the freezer fan and motor if you remove the freezer door first. (See page 21.)

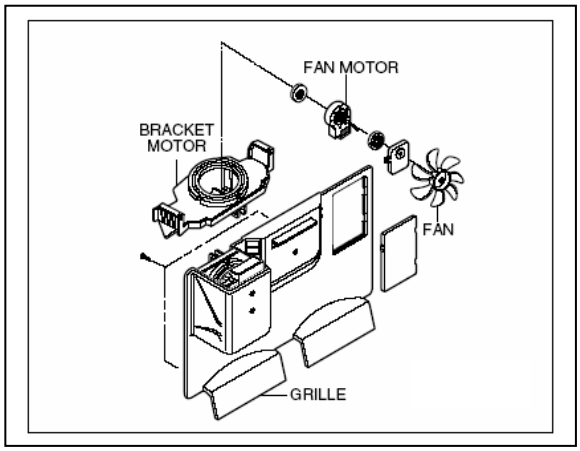
2. Remove the icemaker.

3 Remove the screws that hold the plastic guide on the left side of the freezer.

4. Remove the screw in the access panel of the grille.

5. Remove two screws to take off the fan bracket and motor as an assembly.

6. Pull the fan blade off the shaft and remove the motor from the bracket.



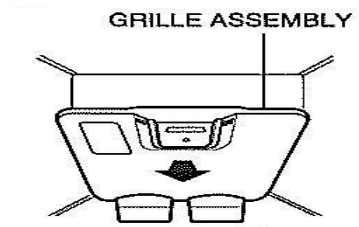
ICE ROOM FAN

1. Remove the grille (steps 1–4 above).
2. Disconnect the wire harness from the grille.
3. Remove the fan assembly by removing two screws.

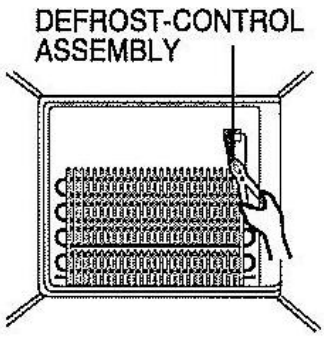
DEFROST CONTROL ASSEMBLY

The defrost control assembly consists of a defrost sensor and a fuse. The sensor detects the temperature of the defrost heater and turns it off when it reaches 8° C (46° F). The thermo-fuse is a safety device to prevent overheating of the defrost heater at 72° C (162° F). The entire unit is sealed in plastic and must be replaced as an assembly because it is not repairable.

1. Unplug the refrigerator before working on it.
2. Remove the freezer grille, as described above, to expose the evaporator coil.

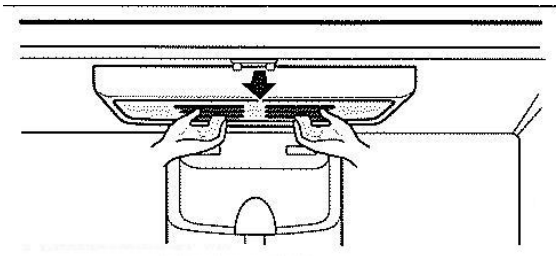


3. Cut the cable tie and remove the defrost control assembly.
4. Separate the connector to remove and replace the defrost control.
5. Replace the cable tie to hold the control assembly in place.



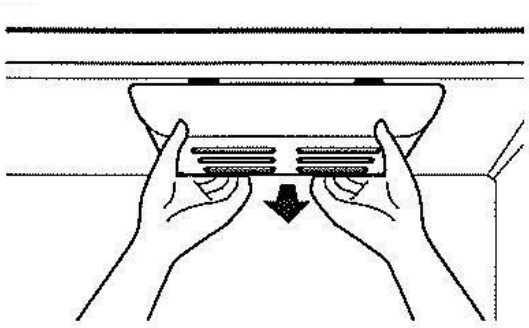
REFRIGERATOR LAMP

1. Unplug the refrigerator before working on it.
2. Remove the refrigerator shelves for easier access.
3. Press the tabs on both ends of the lamp shield to release it.
4. Unscrew the bulb(s) and replace. Use a 60-watt bulb maximum.
5. Replace the lamp shield and the tabs will click into place.



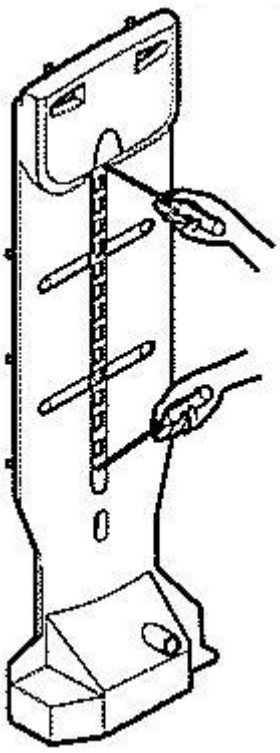
FREEZER LAMP

1. Unplug the refrigerator before working on it.
2. Removing the shelves should not be necessary.
3. Unscrew the bulb(s) and replace. Use a 60-watt bulb maximum.
4. Replace the lamp shield and the tabs will click into place.



MULTI DUCT

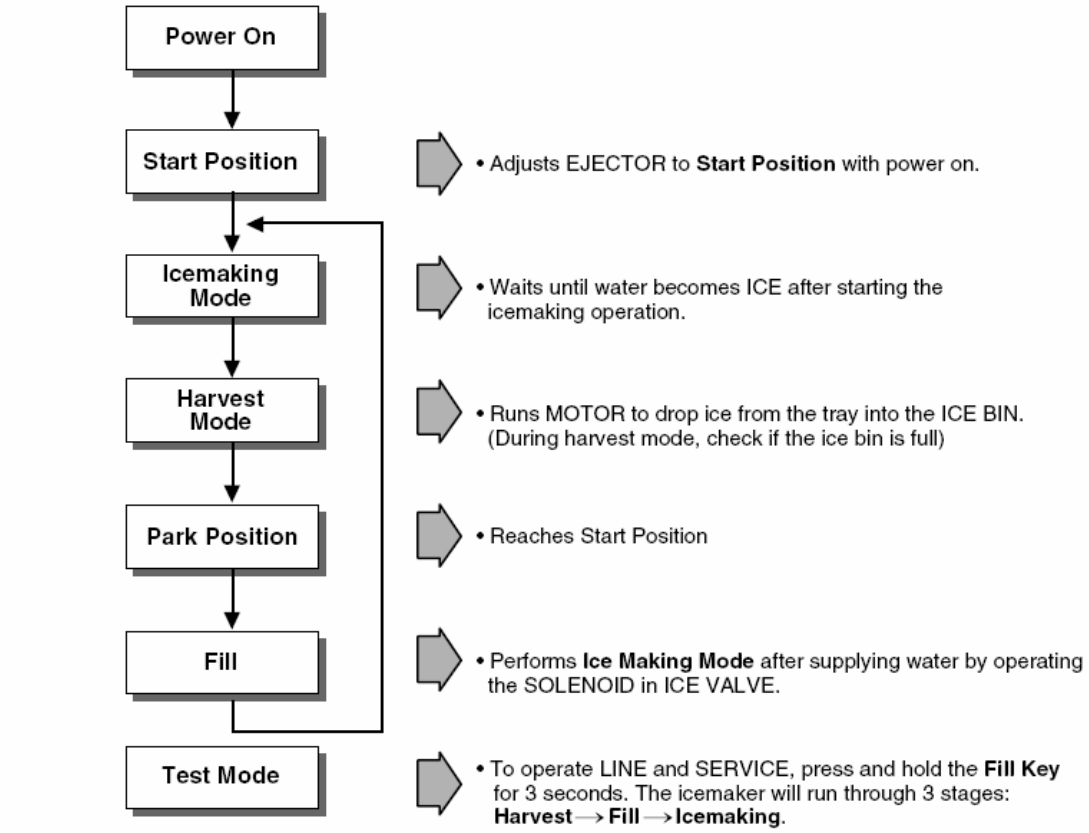
1. Remove the upper and lower caps using a small screwdriver.
2. Remove the two screws holding the duct in place.
3. Pull the duct away from the back of the refrigerator from the top.
4. Disconnect the lead wire at the bottom of the duct before pulling the duct out any farther.
5. Replacement is the reverse of disassembly.



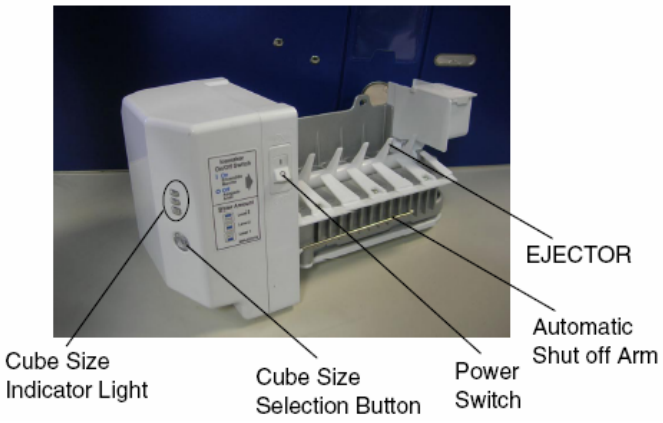
ICEMAKER

THEORY OF OPERATION

Turn the icemaker switch OFF and then ON again to reset it.



1. Turning the Icemaker stop switch off (O) stops the ice making function.
2. Setting the Icemaker switch to OFF and then turning it back on will reset the icemaker control.



ICE MAKER FUNCTIONS

Icemaking Mode

1. Icemaking refers to the freezing of supplied water in the ice tray. Complete freezing is assured by measuring the temperature of the Tray with Icemaking SENSOR.
2. Icemaking starts after completion of the water fill operation.
3. The Ice Making function is completed when the sensor reaches 19°F (-7°C), 55 minutes after starting.

NOTE: After Icemaker Power is ON, the Icemaker heater will be on for test for 6 sec.

Harvest Mode

1. Harvest (Ice removing) refers to the operation of dropping ices into the ice bin from the tray when icemaking has completed.
2. Harvest mode:
   (1) The Heater is ON for 30 seconds, then the motor starts.
   (2) The feeler arm senses the quantity of ice in the ice storage bin while rotating with the EJECTOR.
      A. Ice storage bin is full: The EJECTOR stops (heater off).
      B. Ice storage bin is not full: The EJECTOR rotates twice to open for ice.

※ If the EJECTOR does not rotate once within 5 minutes in B mode, separate heater control mode starts operating to prevent the EJECTOR from being constrained.

Fill/Park Position

1. Once a normal harvest mode has been completed, the water solenoid will be activated.
2. The amount of water is adjusted by pressing the Fill Key repeatedly. This changes the time allowed for fill as illustrated in the table below.

Water supply amount TABLE

STAGE	TIME TO SUPPLY	INDICATIONS	REMARKS
1	5 sec.		The water amount will vary depending on the water control Switch setting, as well as the water pressure of the connected water line.
2	5.5 sec. (FIRST STAGE)		
3	6 sec.		

Function TEST

1. This is a forced operation for TEST, Service, cleaning, etc. It is operated by pressing and holding the Fill Key for 3 seconds.
2. The test works only in the Icemaking Mode. It cannot be entered from the Harvest or Fill mode.
3. **Caution!** If the test is performed before water in the icemaker is frozen, the ejector will pass through the water. When the Fill mode begins (Stage 4), unless the water supply has been shut off, added water will overflow into the ice bin. If the control doesn't operate normally in the TEST mode, check and repair as needed.
4. After water is supplied, the normal CYCLE is followed: **icemaking → Harvest → Park Position → Fill.**
5. Five seconds after Stage 5 is completed, the Ice Maker returns to MICOM control. The time needed to supply water resets to the pre- test setting.

Diagnosis TABLE

STAGE	ITEMS	INDICATOR	REMARKS
1	HEATER		Five seconds after heater starts, a heater will go off if the temperature by sensor is higher than 10°C
2	MOTOR		Five seconds after heater starts, you can confirm that a motor is moving.
3	HALL IC I		Check if Ice Bin is full or not. If Ice bin is full, the motor and heater are off and on stand by until Ice bin is empty.
4	HALL IC II		You can confirm HALL IC detection of start position.
5	VALVE		Two seconds after detection of start position, you can confirm that valve is on.
6	Reset	Return to Status prior to TEST MODE	Five seconds after fifth stage is completed, The icemaker resets to initial status.

DEFECT DIAGNOSIS FUNCTION

ERROR CODES shown on Ice Maker water supply control panel

NO	DIVISION	INDICATOR	CONTENTS	REMARKS
1	Normal	Mark time to supply	None	Display switch operates properly
2	Icemaking Sensor malfunction		Open or short-circuited wire	Make sure that the wire on each sensor is connected.

COMPRESSOR

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.

The compressor includes overload protection. The PTC starter and OLP (overload protector) are attached to the outside of the compressor. Since the compressor is manufactured to tolerances of 1 micron and is hermetically sealed in a dust and moisture-free environment, use extreme caution when repairing it.

Notes for Usage

1. Operate this refrigerator on the rated current, (115 VAC, 60 Hz.) found on the ID Sticker inside. Be careful not to allow over-voltage and over-current. This is particularly critical when refrigerators are operated in markets other than that for which they were manufactured.

2. Do not use an inverter to power this refrigerator. Inverters usually output a square wave instead of a sine wave, and this destroys the compressor quickly. The damage is not repairable.

3. If compressor is dropped or handled carelessly, poor operation and noise may result.

4. Use proper electric components appropriate to the particular compressor in your product.

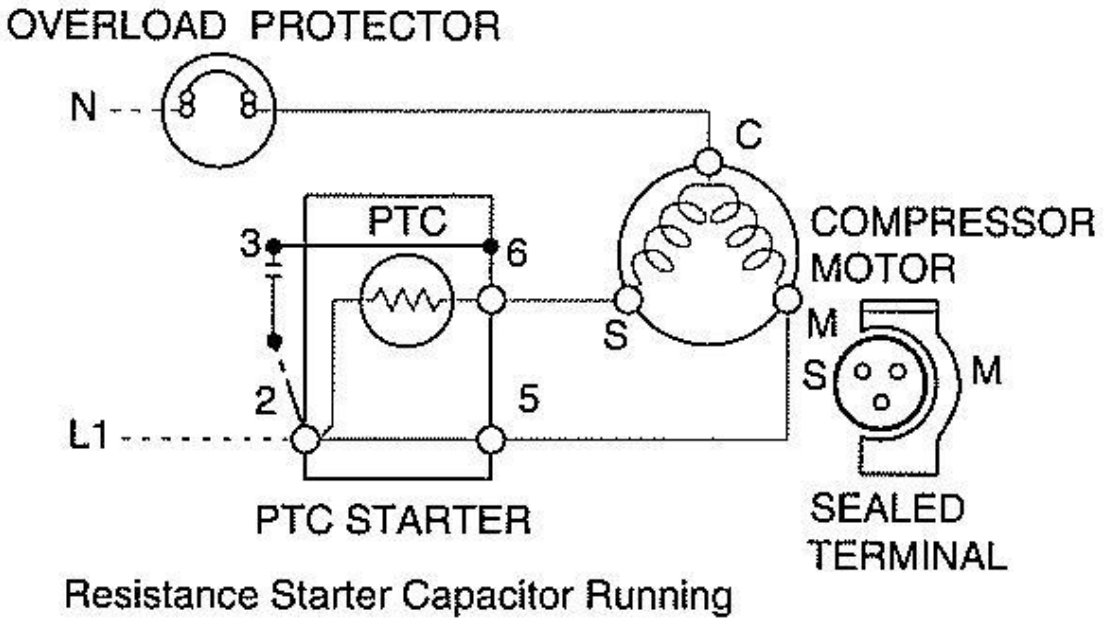
5. Keep the compressor dry. If the compressor gets wet (in the rain or a damp environment) and rust forms in the pin of the hermetically sealed terminal, poor contact may result. If it rusts through, the refrigerant and oil will be released under pressure. If the refrigerator is running at the time, this could cause a fire hazard.

6. When replacing the compressor, be careful that dust, humidity, and soldering flux don’t contaminate the inside of the compressor. Contamination in the cylinder may cause noise, improper operation, or lock up.

PTC STARTER

The PTC (Positive Temperature Coefficient) is a non-contact semiconductor starting device which uses ceramic material consisting of $BaTiO_3$. The higher the temperature is, the higher the resistance value. These features are used as a starting device for the Motor.

The PTC is attached to the sealed compressor and is used for starting the motor. The compressor is a single-phase induction motor. At startup, the PTC allows current flow to both the start main windings.



Resistance Starter Capacitor Running

It requires approximately 5 minutes for the pressure to equalize before the compressor can restart. The PTC device generates heat during operation. Therefore, it must be allowed to cool before the compressor can restart.

If the compressor attempts to restart before the PTC device is cooled, the PTC device will allow current to flow only to the main winding. The OLP will open because of the over current condition. This same process will continue (3 to 5 times) when the compressor attempts to restart until the PTC device has cooled.

The correct OLP must be properly attached to prevent damage to the compressor. Parts may appear physically identical but could have different electrical ratings. Replace parts by part number and model number. Using an incorrect part could result in damage to the product, fire, injury, or possibly death.

1. Be careful not to allow over-voltage and over-current.

2. Do not drop the OLP or handle it carelessly.

3. Keep the OLP dry. If liquid (oil or water) enters the PTC, its components may fail due to breakdown of their insulating capabilities.

4. If the exterior of the PTC is damaged, the resistance value may be altered. This can cause damage to the compressor and result in a no-start or hard-to-start condition.

5. Always use the PTC 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.** Using an incorrect part could result in damage to the product, fire, injury, or death.

OVERLOAD PROTECTOR (OLP)

The OLP (OVERLOAD PROTECTOR) is attached to the compressor and protects the motor by opening the circuit to the motor if the temperature rises and activates the bimetal spring in the OLP. When high current flows to the compressor motor, the heater inside the OLP caused the bimetal spring to trip, protecting the motor by cutting off the current flowing to the compressor motor.

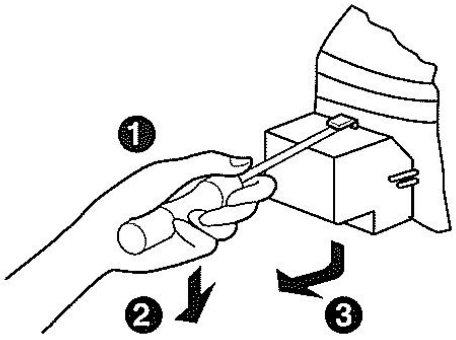
The OLP is attached to the sealed compressor used for the refrigerator. It prevents the motor coil from being started in the compressor. For normal operation of the OLP, do not turn the adjustment screw.

1. Remove the back cover of the mechanical area.

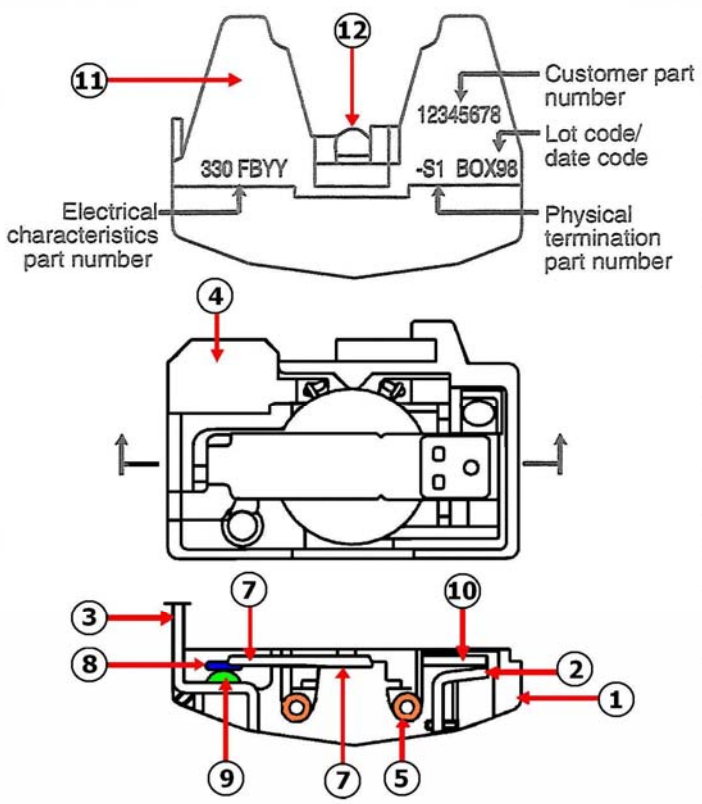
2. Use a flat screwdriver to pry off the cover.

3. Replace the parts as necessary.

4 Reassembly is the reverse of these steps.



OVERLOAD PROTECTOR (OLP)



Part No.	Name
①	Base, phenolic (UL 94 V-0 rated)
②	Movable arm support, plated steel
③	Stationary contact support, plated steel
④	Heater support, plated steel
⑤	Heater, resistance alloy
⑥	Disc, thermostatic alloy
⑦	Movable arm, spring temper copper alloy
⑧	Contact, movable, silver on copper
⑨	Contact, stationary, silver on copper
⑩	Slug, plated steel
⑪	Cover, polyester (UL 94 V -0 rated)
⑫	Pin connector, plated copper alloy (To engage 2.33/2.66 mm dia. pin)

Always replace critical electrical components with exact replacement parts. Order these parts by part number, model number, and serial number. Several OLPs may look physically identical but have electrically different capacities and ratings. Using the wrong one could result in product damage or destruction, fire, electrical shock, injury, or death.

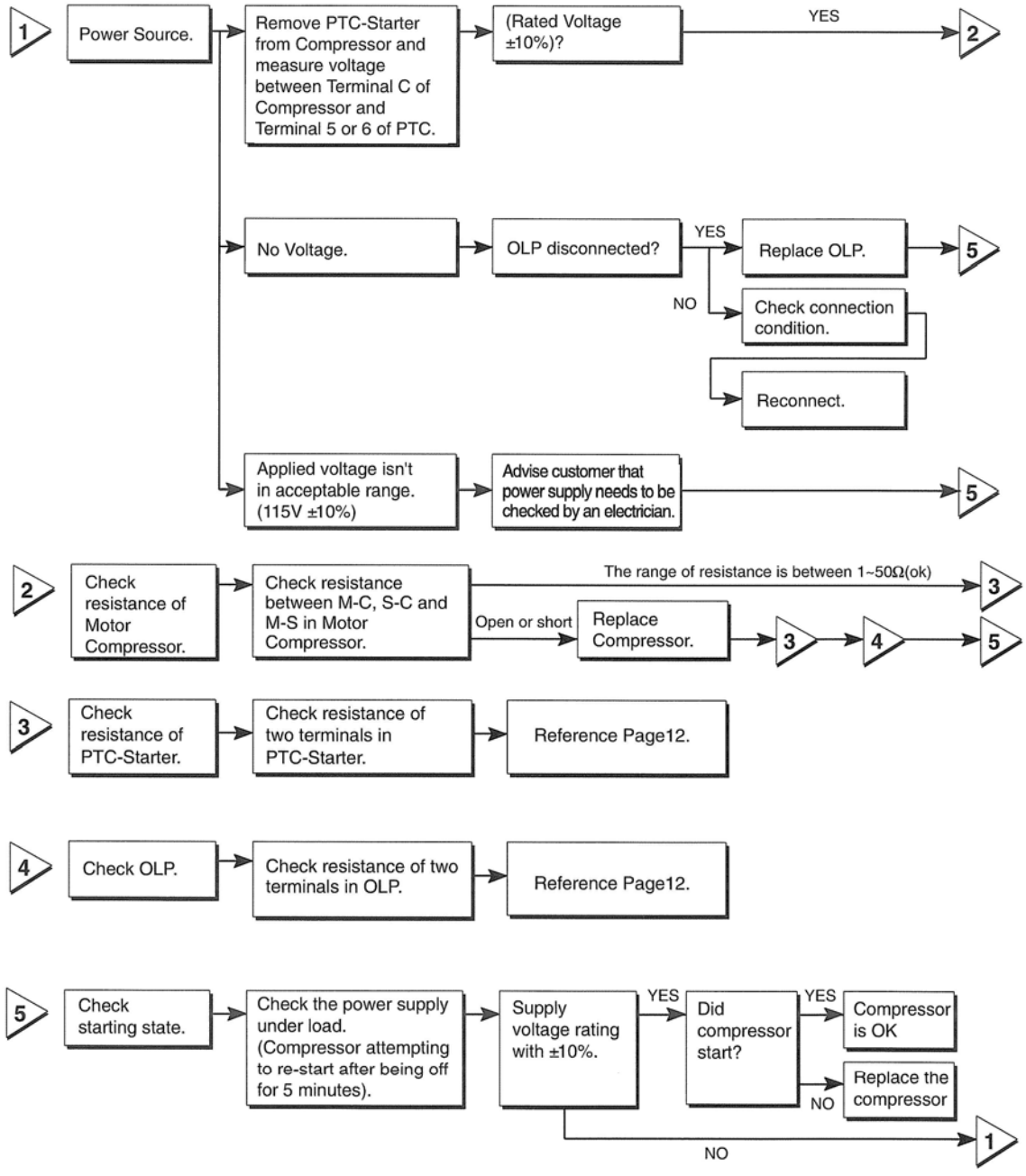
TROUBLESHOOTING

PROBLEM	INDICATED BY	CHECK	CHECKING METHOD	CAUSE	SOLUTION
POWER SOURCE is poor.	1. The whole DISPLAY LED/SEVEN SEGMENT DISPLAY is off. 2. DISPLAY LED/ SEVEN SEGMENT DISPLAY operates abnormally	1. FREEZER/ REFRIGERATOR.	Check if FREEZER/ REFRIGERATOR DOOR IS OPEN and check display.	POWER SOURCE is poor.	Check outlet Voltage.
		2. If LAMP is dim.	Check visually.	Applied voltage error.	Use boosting TRANS.
		3. The connection of the MAIN PWB CONNECTOR.	Check connection of CONNECTOR.	CONNECTOR connection is poor.	Reconnect CONNECTOR.
				TRANS FUSE is open.	Replace TRANS.
COOLING is poor.	NO COOLING.	1. If the COMPRESSOR operate.	USE TEST MODE1 (forced COOLING). If less than 7 minutes pass after compressor shuts off, don't press the KEY and wait.	COMPRESSOR locked or blocked.	Replace COMPRESSOR.
				OLP, PTC is poor. COMPRESSOR RELAY is poor.	Replace OLP, PTC. Replace MAIN PWB.
				THE CONNECTING WIRE is poor.	Check the connection of the black wire of the MAIN PWB CONNECTOR (CON2).
		2. If refrigerant is leaking. .	Measure the amount of frost sticking on EVAPORATOR and the surface temperature of the condenser pipe.	Refrigerant leakage.	Replace the leaking part and replace any lost refrigerant.
	FREEZER TEMPERATURE is incorrect	1. If FAN MOTOR operates.	USE TEST MODE1 (forced COOLING).	FAN MOTOR is poor.	Replace the FAN MOTOR.
				CONNECTING WIRE is poor.	Refer to 8-2-4. 2 and check
		2. If DEFROSTING is normal.	Check the amount of frost sticking on the EVAPORATOR.	DEFROSTING is poor.	See **DEFROSTING is poor.**
		3. If SENSOR is normal.	Check the resistance of the Refrigerator SENSOR.	SENSOR RESISTANCE is poor.	Replace SENSOR.
		4. Door Line contact.	Check the seal when the door is closed.	Door liner damaged.	Replace door liner.

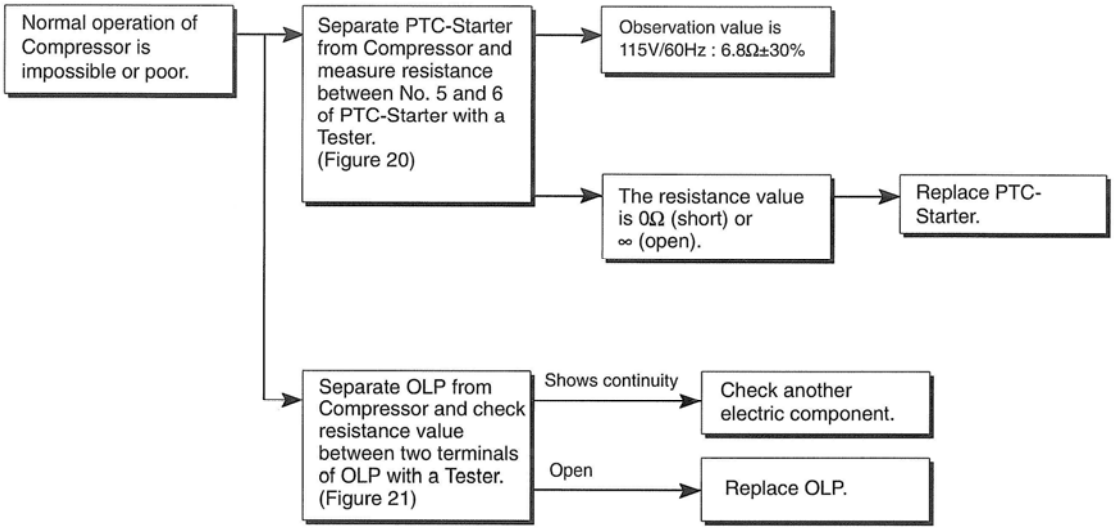
TROUBLESHOOTING, continued

PROBLEM	INDICATED BY	CHECK	CHECKING METHOD	CAUSE	SOLUTION
COOLING is poor.	If REFRIGERATOR TEMPERATURE is too low.	1. If FREEZER TEMPERATURE is normal.	Check is FREEZER TEMPERATURE is too low.		Make sure the DOOR isattached.
		2. If amount of cool air from FAN MOTOR is sufficient.	Make sure that the amount and speed of cool air are sufficient by touching the check supplied on the REFRIGERATOR.	FAN MOTOR is poor.	Replace FAN MOTOR.
				Passage of cool air is blocked.	Remove impurities.
				EVA frozen.	See **DEFROSTING is poor.**
		3. Door Line contact.	Check door seal when door is closed.	Door liner damaged.	Replace Door liner.
DEFROSTING is poor.	NO DEFROSTING.	1. If HEATER emits heat.	USE TEST MODE3 (forced DEFROSTING).	HEATER disconnection.	Replace HEATER.
				TEMPERATURE FUSE disconnection.	Replace TEMPERATURE FUSE.
				Connection is poor.	Check EVAPORATOR connection and wire of MAIN PWB CONNECTOR.
				DEFROST-SENSOR is poor.	Replace DEFROST-SENSOR.
				HEATER RELAY is poor.	Replace RY2 of MAIN PWB.
		2. If DRAIN PIPE is blocked.	Check DRAIN PIPE.	DRAIN PIPE is blocked.	Remove ice and impurities.
					Check HEATER PLATE resistance.
		3. If ice remains after DEFROSTING.	Make sure that DEFROST SENSOR is connected.	Connection is poor.	Reassemble the DEFROST-SENSOR.
			Make sure that FREEZER/ REFRIGERATOR DOOR is closed.	DOOR does not close properly.	Reassemble DOOR.
					Replace GASKET.

COMPRESSOR AND ELECTRICAL TROUBLESHOOTING



PTC AND OLP



PTC Terminals 5 & 6

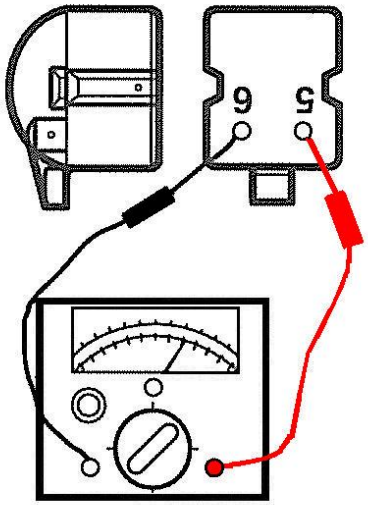


Figure 20

PTC Continuity Check

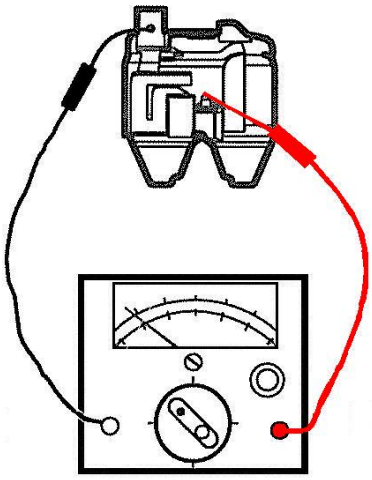
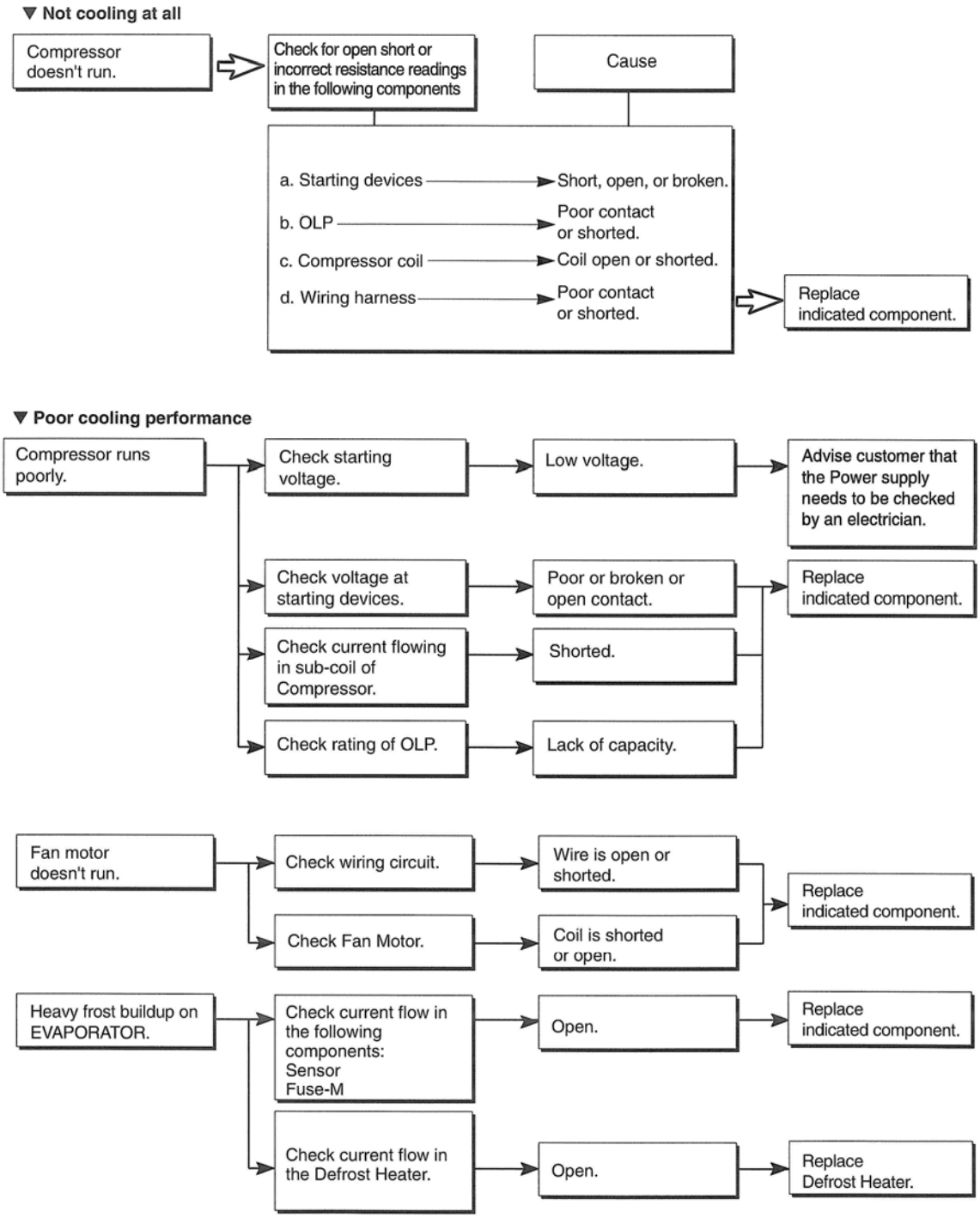


Figure 21

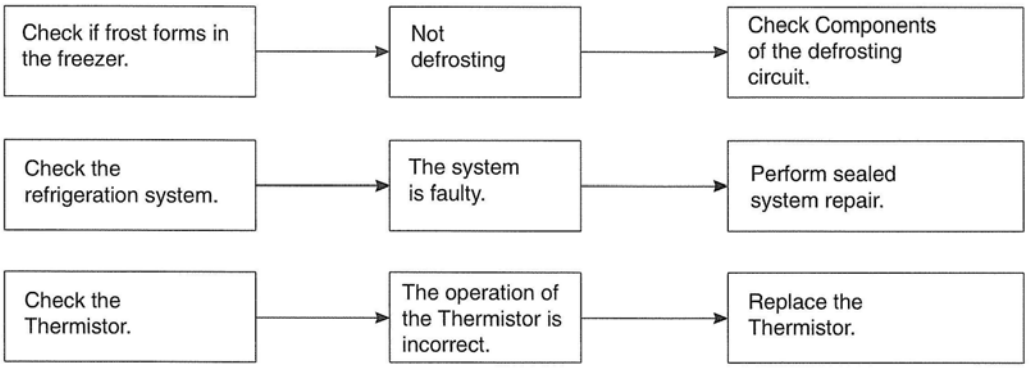
OTHER ELECTRICAL COMPONENTS



SERVICE DIAGNOSIS CHART

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

● Other possible problems:



REFRIGERATION CYCLE TROUBLESHOOTING

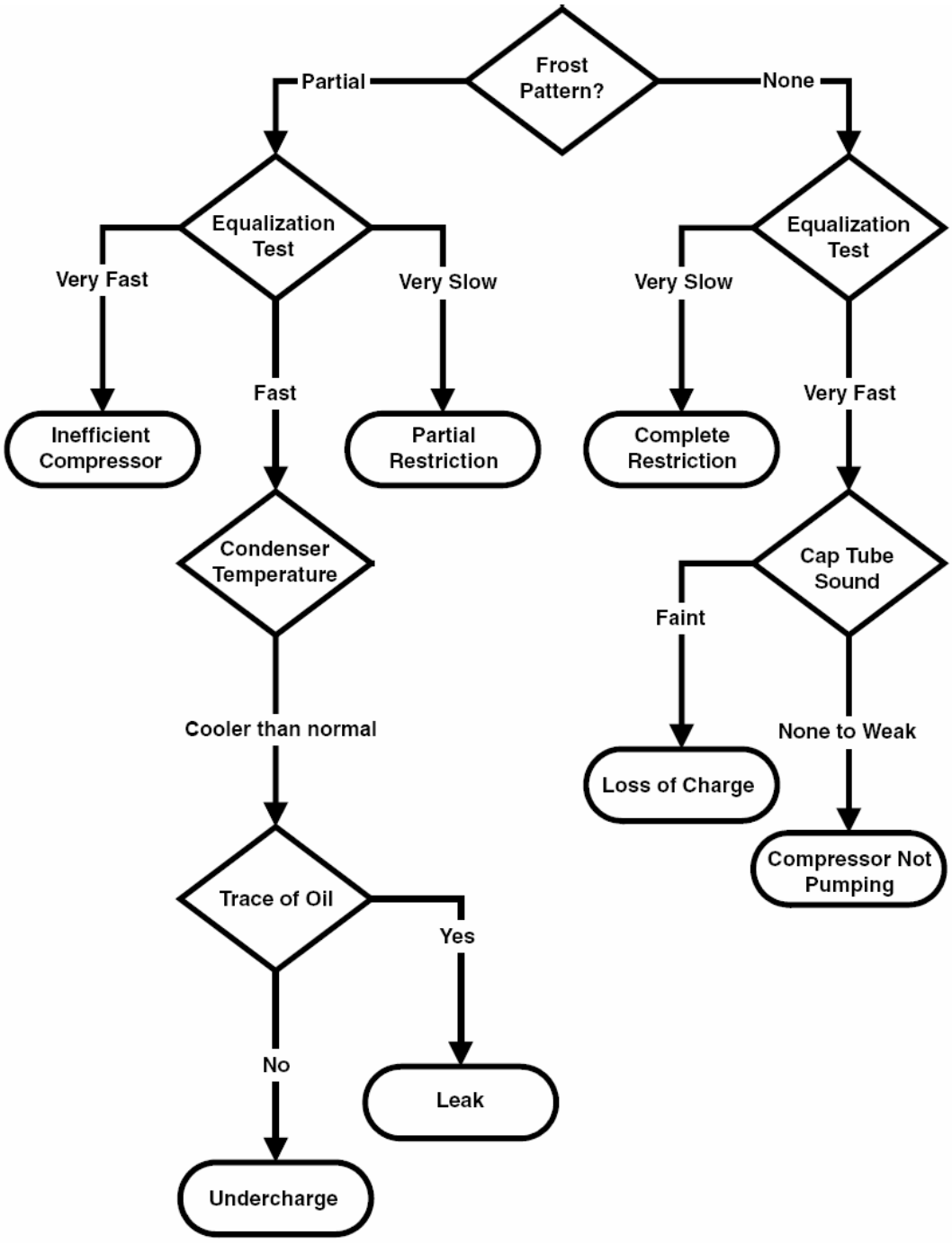
▼ Troubleshooting Chart

CAUSE		STATE OF THE UNIT	STATE OF THE EVAPORATOR	TEMPERATURE OF THE COMPRESSOR	REMARKS
LEAKAGE	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.	• Refrigerant level is low due to a leak. • Normal cooling is possible by restoring the normal amount of refrigerant and repairing the leak.
	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.
MOISTURE RESTRICTION		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.
	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.

SEALED SYSTEM DIAGNOSIS

Complaint:

No cooling, all components operating, no airflow issues, not frosted up.



The EQUALIZATION test is trying to restart a compressor using a start kit after the refrigerator has been running.

LED TEST

Press ICE PLUS and FRZ TEMP to light every segment of the LED display. Release the buttons to revert to the normal display.

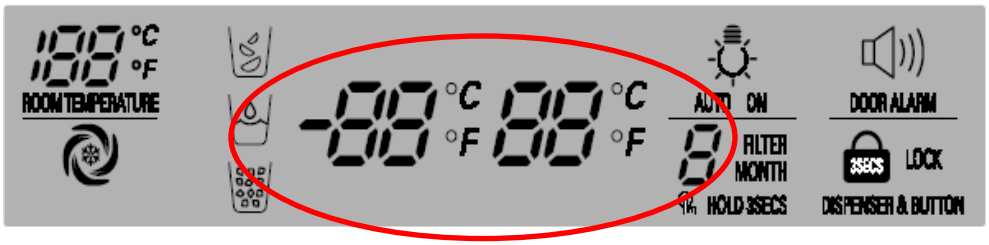
TEST MODE

The test mode allows checking the PCB and the functions as well as determining the defective part. Enter the TEST MODE by pressing FRZ and LOCK on the control panel or by pressing the TEST SWITCH on the main board. In TEST MODE, the control buttons are deactivated but the buzzer still sounds a *ding*. To exit the TEST MODE, unplug the refrigerator for one minute. If a malfunction, such as a sensor failure, is detected in the TEST MODE, the TEST MODE is cleared and the error code is displayed.

MODE	OPERATION	FUNCTION	REMARKS
TEST1	Push FREEZER KEY and LOCK KEY at the same time over 5 deconds OR Push Test Switch (in the main Board) once.	1) Continuous operation of the COMPRESSOR and the Freezer fan 2) Stepping DAMPER OPEN 3) Defrosting HEATER OFF 4) DISPLAY LED all ON	
TEST2	Push FREEZER KEY and LOCK KEY at the same time over 5 seconds in TEST MODE 1 OR Push TEST Switch once in TEST MODE 1.	1) Continuous operation of the COMPRESSOR and the Freezer fan 2) Stepping DAMPER CLOSE 3) Defrosting HEATER OFF 4) DISPLAY LED shows no. 2222	
TEST3	Push FREEZER KEY and LOCK KEY at the same time over 5 seconds in TEST MODE 2 OR Push TEST Switch once in TEST MODE 2.	1) COMPRESSOR and the Freezer fan OFF 2) Stepping DAMPER CLOSE 3) Defrosting HEATER ON 4) DISPLAY LED shows no. 3333	Reset if the Temperature of the Defrosting Sensor is 46˚F (8˚C) or more.
RESET	Push FREEZER KEY and LOCK KEY at the same time over 5 seconds in TEST MODE 3 OR Push TEST Switch once in TEST MODE 3.	Reset to the previously setting Before TEST MODE.	The compressor will Start after a 7-minute Delay.

DEFECT DIAGNOSIS MODE (ERROR CODES)

The refrigerator has a built-in diagnostic mode. When a malfunction is discovered, the control buttons are deactivated but the buzzer still sounds when they are pressed. ERROR CODES are shown on the display.



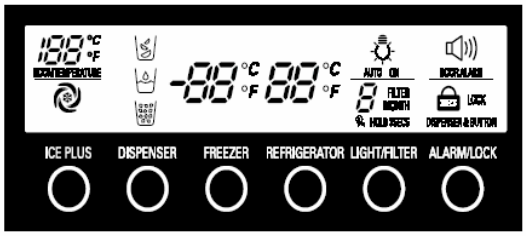
ERROR CODE CHART

NO	Error Detection Category	Error Display		Error Generation Factors	Remark
		Freezer Temperature	Ref. Temperature		
1	Normality			None	Normal operation of Display
2	Freezer Sensor Error	Er	FS	Short or Disconnected Freezer Sensor	Check connector on each sensor.
3	Refrigerator Sensor Error	Er	rS	Short or Disconnected Refrigerator Sensor	
4	Defrost Sensor Error	Er	dS	Short or Disconnected Defrost Sensor	
5	Ice Sensor Error	Er	IS	Short or Disconnected Ice Sensor	
6	Poor Defrosting	Er	dH	If defrost sensor does not reach 8°C after one hour into the defrost cycle.	Temperature Fuse disconnected,Heater disconnected, plugged drain, poor relay for Heater
7	Abnormality of BLDC FAN Motor for Ice Making	Er	IF	It is caused when F/B signal isn't over 115 seconds during BLDC FAN motor operating	Poor BLDC Motor connection, DRIVE IC, and TR
8	Abnormality of BLDC FAN Motor for Freezer	Er	FF	It is caused when F/B signal isn't over 115 seconds during BLDC FAN motor operating	Poor BLDC Motor connection, DRIVE IC, and TR
9	Abnormality of BLDC FAN Motor for Mechanic Room	Er	CF	It is caused when F/B signal isn't over 115 seconds during BLDC FAN motor operating	Poor BLDC Motor connection, DRIVE IC, and TR
10	Communication Error	Er	CO	Communication Error between Micom of Main PCB and Display Micom	Poor Communication connection, poor TR of Transmitter and Receiver

MICOM CIRCUIT AND FUNCTION

DEFAULTS

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.

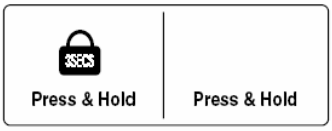


Toggle the Display between °F & °C

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.

Lock function (dispenser and display button lock)

1. When the refrigerator is first turned on, the buttons are not locked. The display panel shows the padlock unlocked icon.
2. To lock the display, the dispenser, and the control panel, press and hold the LOCK button for 3 seconds. The locked pad lock icon is displayed.
3. 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.



Ex) In selecting "LOCK"

Ex) In selecting "LOCK" again

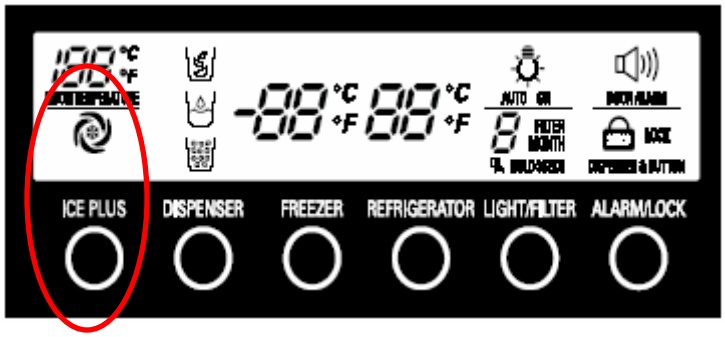
Filter condition display function

1. There is a replacement indicator icon for the filter cartridge on the dispenser.
2. Water filter needs replacement once six months or of using water filter.
3. Water Filter icon turn on to tell you need to replace the filter soon.
4. After replacing the filter, press and hold the lock button more than 3 seconds.
   Water Filter icon turn off with reset status.

Classification	In initial Power On / Filter RESET	Replace indicator light on
Filter Status Display	FILTER MONTH HOLD 3SECS	FILTER MONTH

ICE PLUS

The ICE PLUS setting runs the compressor continuously for 3 hours with the freezer fan on the HIGH (2,700 rpm) setting. This intensifies the cooling speed and the amount of ice made. For the remainder of the 24 hour cycle (21 hours), the freezer will maintain the lowest temperature. After the 21-hour time has passed, the freezer defaults to its previous setting. The fan will turn off while any door is opened.



If a defrost cycle begins during the first 90 minutes of Ice Plus, Ice Plus will complete its cycle after the defrost is completed. If defrost begins more than 90 minutes into the Ice Plus cycle, Ice Plus will run for two hours after the defrost has ended.

The freezer fan normally runs at 2,400 rpm. The high speed (2,700 rpm) is used when ICE PLUS is operated, at initial power up, and when the freezer is overloaded. When the ICE PLUS option is functioning, the LED is on.

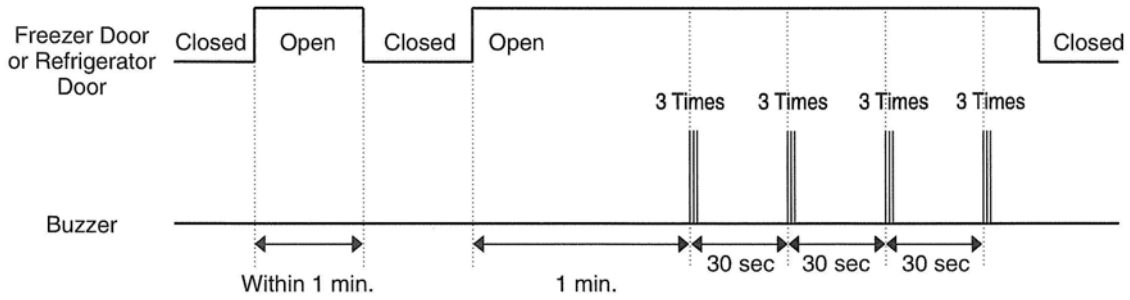
In the event of a power failure, ICE PLUS is cancelled and the product returns to its default settings.

LAMP AUTO-OFF

To avoid excess heat and the associated damage, the interior lamps will turn off automatically when the door is left open for more than 7 minutes.

DOOR OPEN ALARM

When any door has been open for more than one minute, the buzzer sounds three times for ½ second each and then repeats these tones every 30 seconds. The alarm is cancelled when the door is closed.
This feature can be deactivated by pressing the Alarm/Lock button on the display panel.



BUZZER

The buzzer sounds a *ding* whenever a button on the control panel is pushed. (See schematic of this circuit, page 68.)

DEFROST MODE

A defrost cycle is initiated every time the compressor has logged 7 hours' run time. At initial power up or when power is restored after an outage, the first defrost cycle will begin after 4 hours' run time.

Defrosting stops automatically when the sensor detects a temperature over 46.4° F (8° C). If the temperature does not reach 46.4° F (8° C) within 2 hours, the defrost mode is malfunctioning. (See diagnosis, page 51.)

INITIALIZATION SEQUENCE

At power up, the various components (compressor, fans, and defrost heater) are turned on sequentially to avoid noise and electrical overload. (See chart below)

OPERATING		ORDERS
Initial power on	Temperature of Defrosting Sensor is 113°F(45°C) or more (when unit is newly purchased or when moved)	**POWER ON** → in 1/2 second → **COMP ON** → in 1/2 second → **Freezer FAN ON**
	Temperature of defrosting sensor is lower than 113°F(45°C) (when power cuts, SERVICE)	**POWER ON** → in 1/2 second → **Defrosting heater ON** → in 10 second → **Defrosting heater OFF** → in 1/2 second → **COMP ON** → in 1/2 second → **Freezer FAN ON**
Reset to normal operation from TEST MODE		**Total load OFF** → in 7 minute → **COMP ON** → in 1/2 second → **Freezer FAN ON**

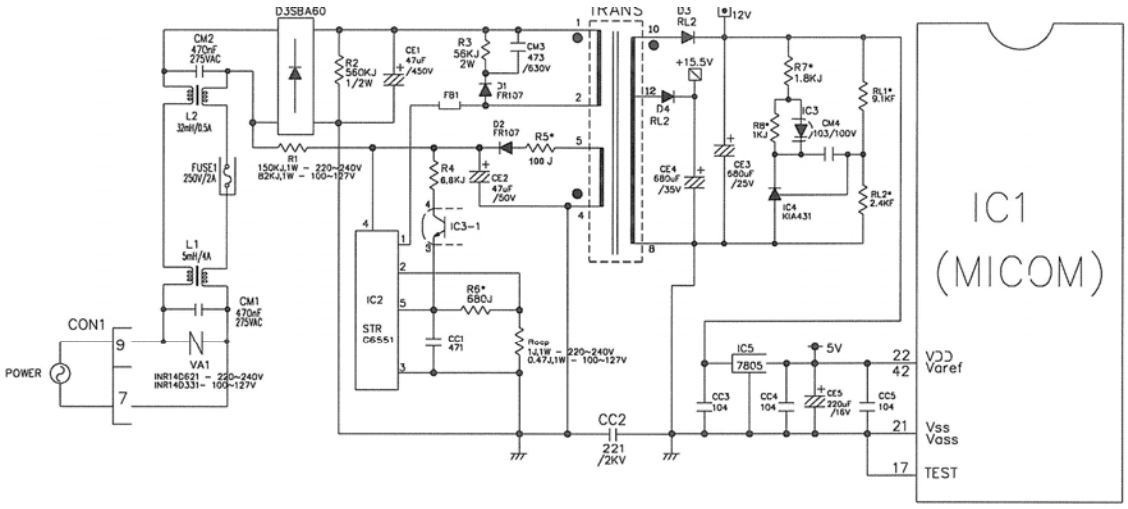
DEMO MODE

The DEMO MODE is available so the lights and controls will operate normally in a sales setting. Even the LAMP AUTO OFF feature can be demonstrated. In DEMO MODE, the heavy loads (compressor, fans, damper, and heater) are inactivated.

To enter DEMO MODE, press and hold ICE PLUS and FREEZER for more than three seconds. The same procedure will turn DEMO MODE off.

POWER CIRCUIT

The secondary part of the TRANSFORMER is composed of the power supply for the display, the BLDC FAN Motor drive (15.5 V_{DC}), the relay drive (12 V_{DC}), and the MICOM and IC (5 V_{DC}).

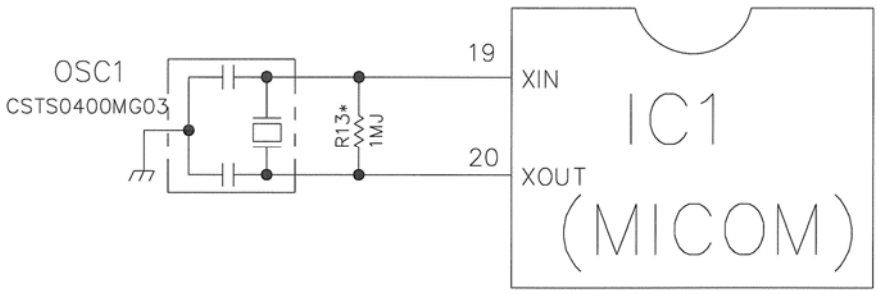


VA1 is a part for preventing over voltage and noise. When 385 V or higher power is applied, the inside elements are short circuited and broken, resulting in blowing the fuse to protect the elements of the secondary part of the TRANSFORMER.

PART	VA 1	CE 3	CE 4	CE 5
VOLTAGE	115 Vac	12 Vdc	15.5 Vdc	5 V

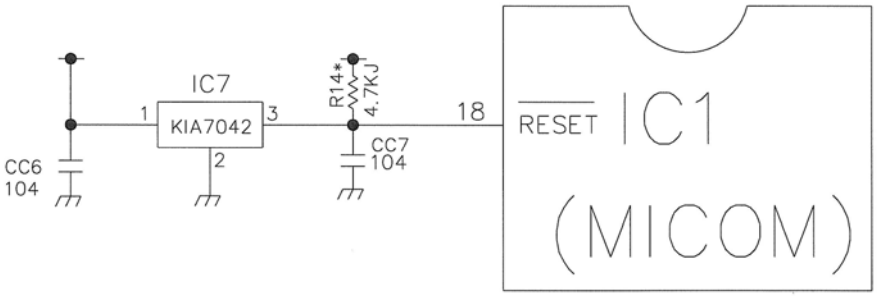
OSCILLATOR CIRCUIT

This circuit generates the base clock for calculating time and the synchro clock for transmitting data from and to the inside logic elements of the IC1 (MICOM). Be sure to use specified replacement parts, since calculating time by the IC1 may be changed. If changed, the OSC1 SPEC will not work.

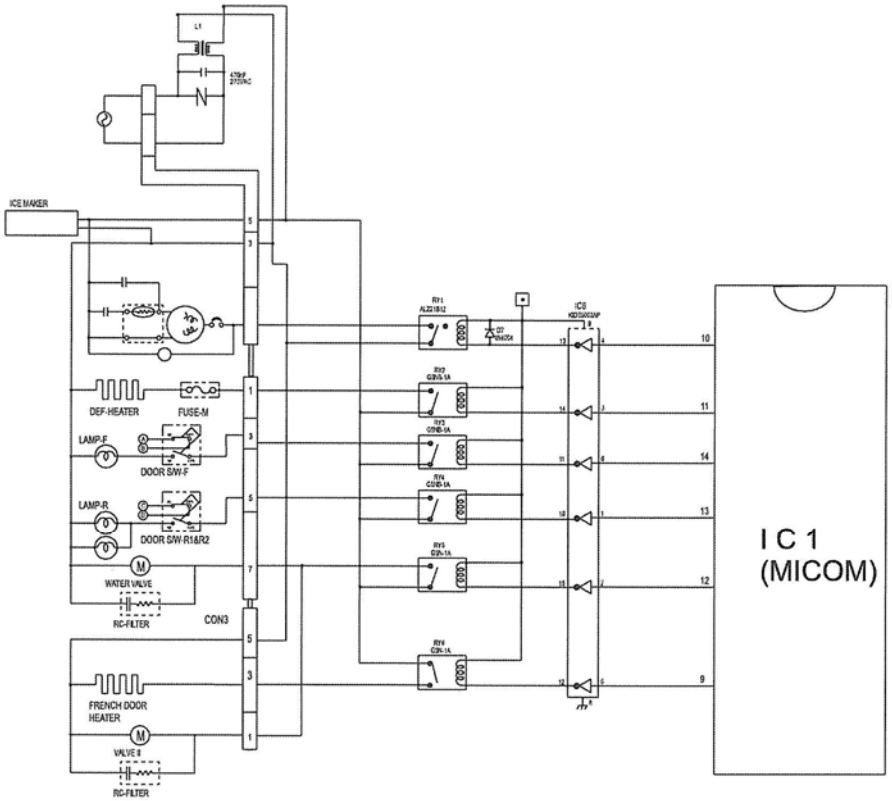


RESET CIRCUIT

The RESET circuit allows all the functions to start at the initial conditions by initializing various parts, including the RAM inside the MICOM (IC1) when the power is initially supplied or the power supply to the MICOM is restored after a momentary power failure. For the initial 10ms of power supply, LOW voltage is applied to the MICOM RESET terminal. During a normal reset, 5V is applied to the RESET terminal. (If a malfunction occurs in the RESET IC, the MICOM will not operate.)



LOAD DRIVE CIRCUIT

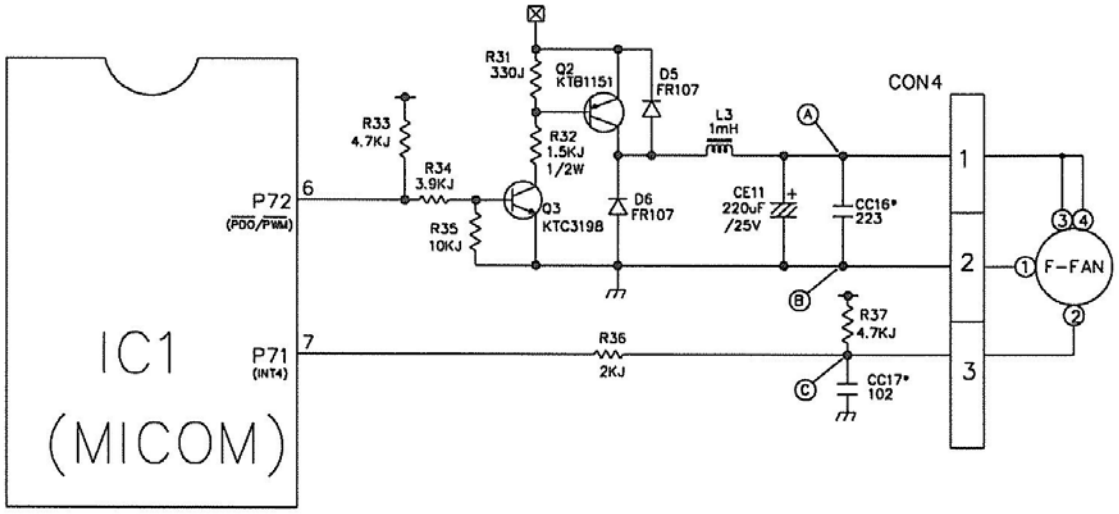


LOAD DRIVE CIRCUIT, continued

LOAD TYPE		COMP	DEFROSTING HEATER	LAMP	FRENCH DOOR HEATERS 1 & 2 CONDENSATION HEATER	VALVE
Measurement Location (IC6)		NO.13	NO.14	NO.16	NO.12	NO.15
Condition	ON	1V or below				
	OFF	12V				

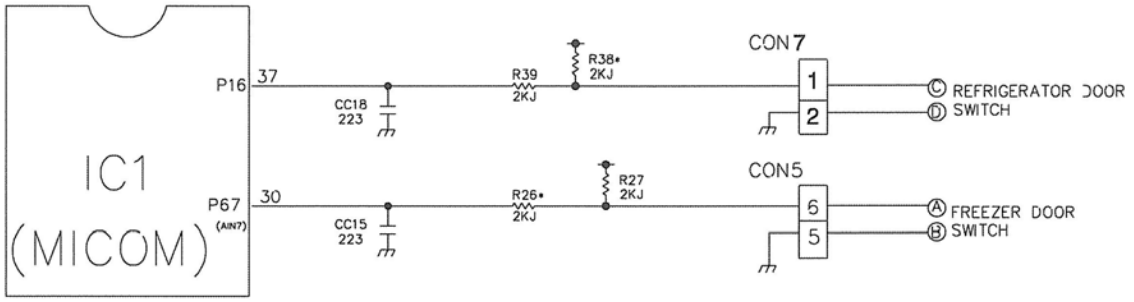
FREEZER FAN MOTOR DRIVE CIRCUIT

This circuit makes standby power **0** by cutting off power supplied to ISs inside of the fan motor in the fan motor OFF. It allows a temporary change of speed for the fan motor and applies voltage up to $7.5V_{DC}$ ~ $16V_{DC}$ to motor and prevents over-driving the fan motor by cutting off power applied to the fan motor if it is locked by sensing the operation RPM of the fan motor.



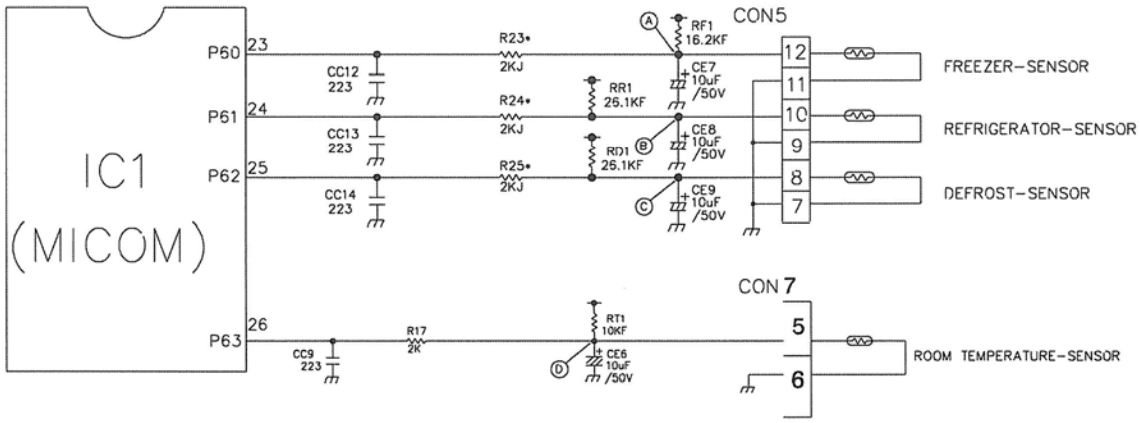
	ⓐ part	ⓑ part	ⓒ part
MOTOR OFF	2V or less	0V	5V
MOTOR ON	13V~15V	0V	2V~3V

DOOR OPEN DETECTION CIRCUIT



Freezer/ Refrigerator Door \ Measurement Location	(PIN NO.30 & PIN NO.37)
Closed	5 V
Open	0 V

TEMPERATURE SENSOR CIRCUIT

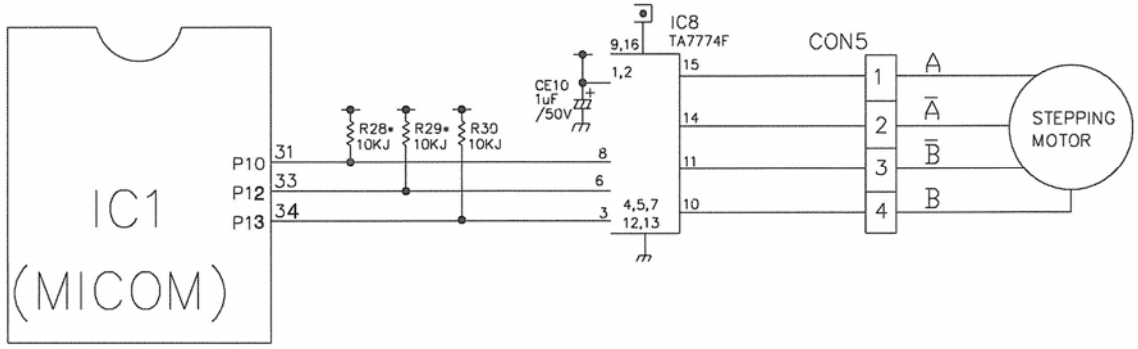


The circuit above reads REFRIGERATOR temperature, FREEZER Temperature, and DEFROST-SENSOR temperature for defrosting. It reads the indoor temperature for compensating for the surrounding temperature into MICOM. The OPEN or SHORT state of each TEMPERATURE SENSOR is as follows:

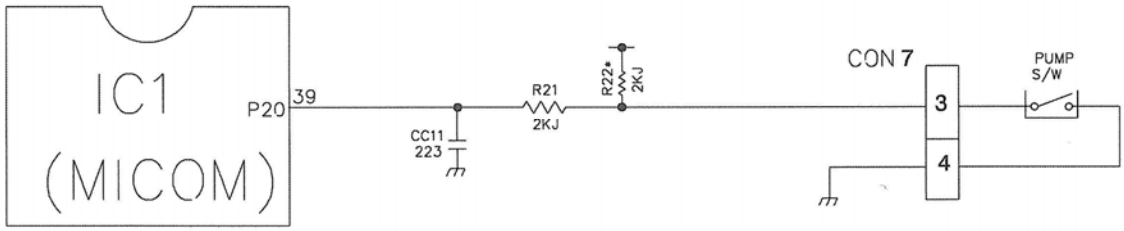
SENSOR	CHECK POINT	NORMAL (-30°C ~ 50°C)	SHORT-CIRCUITED	OPEN
Freezer Sensor	POINT Ⓐ Voltage	0.5 V ~ 4.5 V	0 V	5 V
Refrigerator Sensor	POINT Ⓑ Voltage			
Defrosting Sensor	POINT Ⓒ Voltage			
Room Temperature sensor	POINT Ⓓ Voltage			

REFRIGERATOR DAMPER CIRCUIT

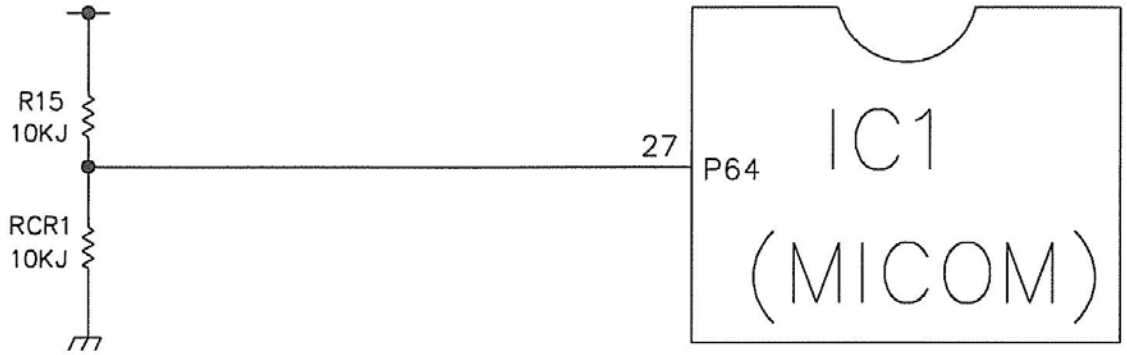
The damper between the freezer and the refrigerator is used to regulate the temperature in the refrigerator compartment. This damper is cycled from its set position to fully open to fully closed and back to the original position on an hourly basis to keep it from becoming ice-bound.



DISPENSER INPUT CIRCUIT



TEMPERATURE COMPENSATION CIRCUIT



This circuit allows adjustment of the temperature in the refrigerator if there is a discrepancy between the set temperature and the actual temperature.

TEMPERATURE COMPENSATION TABLE

Refrigerator		Remark
Resistance (RCR)	Temperature Compensation	
180 KΩ	+2.5°C	Compensation by raising the temperature ↑
56 KΩ	+2.0°C	
33 KΩ	+1.5°C	
18 KΩ	+1.0°C	
12 KΩ	+0.5°C	
10 KΩ	0 °C	Standard Temperature
8.2 KΩ	-0.5°C	Compensation by lowering the temperature ↓
5.6 KΩ	-1.0°C	
3.3 KΩ	-1.5°C	
2 KΩ	-2.0°C	
470 Ω	-2.5°C	

This chart shows the Table of Temperature Compensation. If the temperature reading is not accurate, you can change the value of the RCR (Refrigerator Compensation Resistor) to compensate for the difference from the current temperature. For example, if the RCR is changed from 10K (the current resistance) to 18K (the adjusted resistance), the temperature of the refrigerator rises from 32° F (0° C) to 33.8° F (+1° C).

	Revised resistance / Present resistance	470Ω	2kΩ	3.3kΩ	5.6kΩ	8.2kΩ	10kΩ	12kΩ	18kΩ	33kΩ	56kΩ	180kΩ
Refrigerator (RCR)	470Ω	NO CHANGE	⇧0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up	4.5°C Up	5°C Up
	2kΩ	⇩0.5°C Down	NO CHANGE	⇧0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up	4.5°C Up
	3.3kΩ	1°C Down	⇩0.5°C Down	NO CHANGE	⇧0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up
	5.6kΩ	1.5°C Down	1°C Down	⇩0.5°C Down	NO CHANGE	⇧0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up
	8.2kΩ	2°C Down	1.5°C Down	1°C Down	⇩0.5° Down	NO CHANGE	⇧0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up
	10kΩ	2.5°C Down	2°C Down	1.5°C Down	1°C Down	⇩0.5°C Down	NO CHANGE	⇧0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up
	12kΩ	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	⇩0.5°C Down	NO CHANGE	⇧0.5°C Up	1°C Up	1.5°C Up	2°C Up
	18kΩ	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	⇩0.5°C Down	NO CHANGE	⇧0.5°C Up	1°C Up	1.5°C Up
	33kΩ	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	⇩0.5°C Down	NO CHANGE	⇧0.5°C Up	1°C Up
	56kΩ	4.5°C Down	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	⇩0.5°C Down	NO CHANGE	⇧0.5°C Up
	180kΩ	5°C Down	4.5°C Down	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	⇩0.5°C Down	NO CHANGE

FREEZER SENSOR RESISTANCE SPECIFICATION

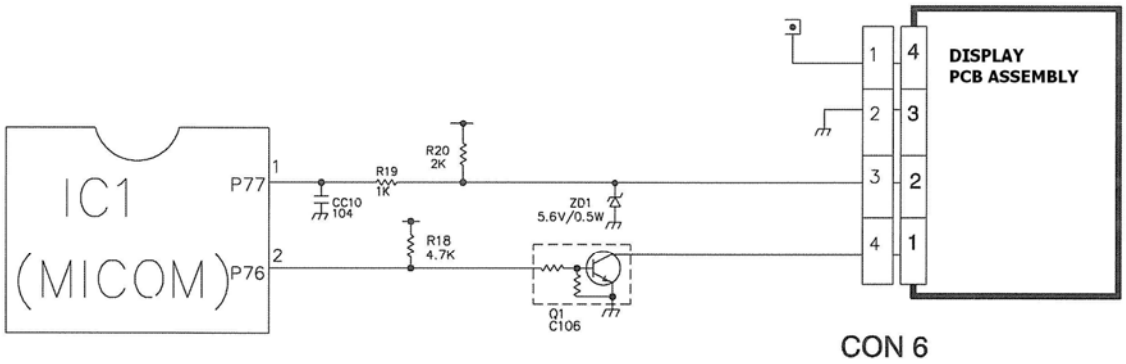
The sensor has a ±5% tolerance. To check the sensor, measure the resistance after the sensor has stabilized for 3 minutes. (Delay necessary due to sensor response speed.)

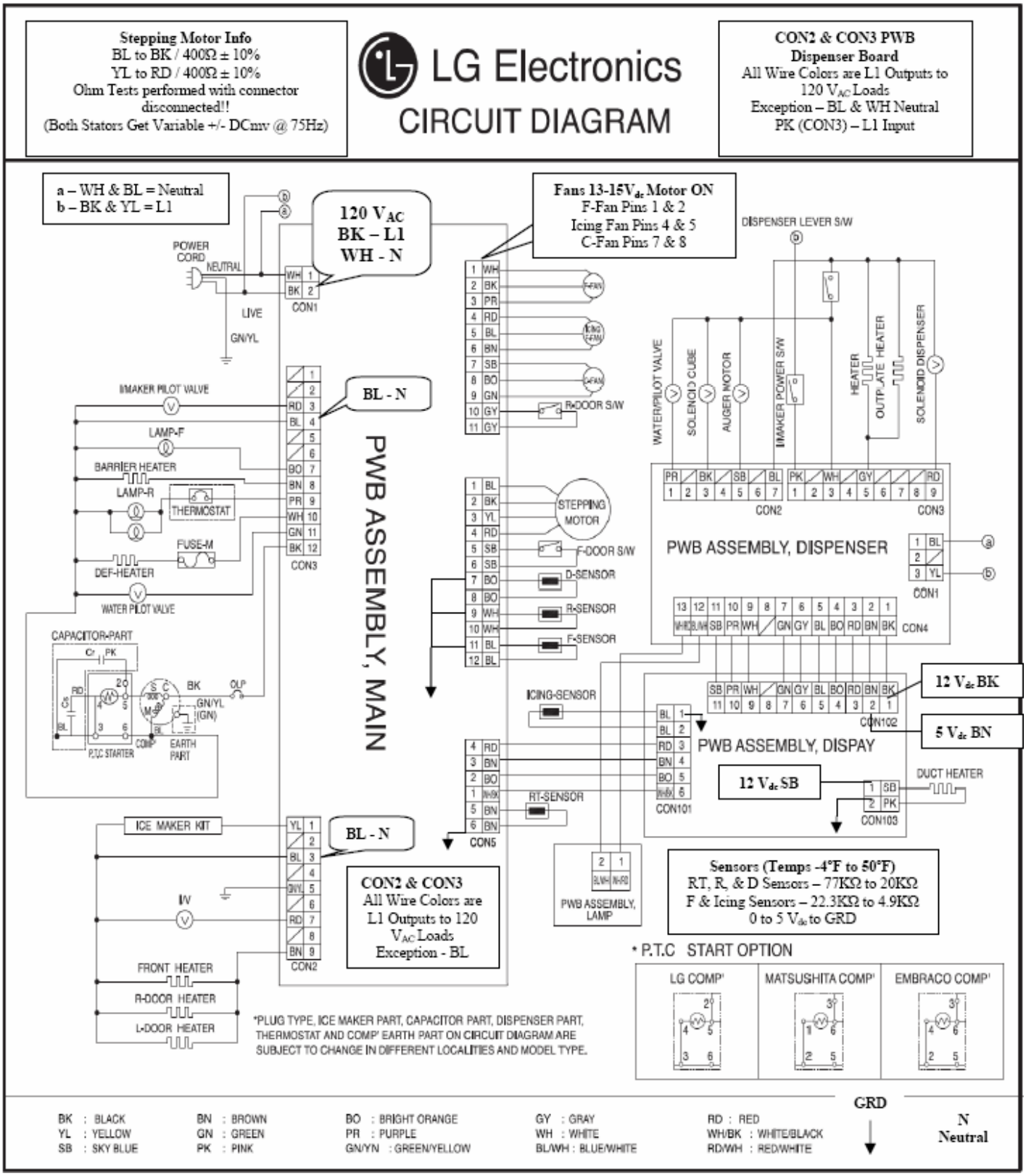
RESISTANCE SPECIFICATION OF SENSOR

TEMPERATURE	RESISTANCE OF FREEZER SENSOR	RESISTANCE OF REFRIGERATOR & DEFROST SENSOR & ROOM SENSOR
- 20 °C	22.3 KΩ	77 KΩ
- 15 °C	16.9 KΩ	60 KΩ
- 10 °C	13.0 KΩ	47.3 KΩ
- 5 °C	10.1 KΩ	38.4 KΩ
0 °C	7.8 KΩ	30 KΩ
+ 5 °C	6.2 KΩ	24.1 KΩ
+ 10 °C	4.9 KΩ	19.5 KΩ
+ 15 °C	3.9 KΩ	15.9 KΩ
+ 20 °C	3.1 KΩ	13 KΩ
+ 25 °C	2.5 KΩ	11 KΩ
+ 30 °C	2.0 KΩ	8.9 KΩ
+ 40 °C	1.4 KΩ	6.2 KΩ
+ 50 °C	0.8 KΩ	4.3 KΩ

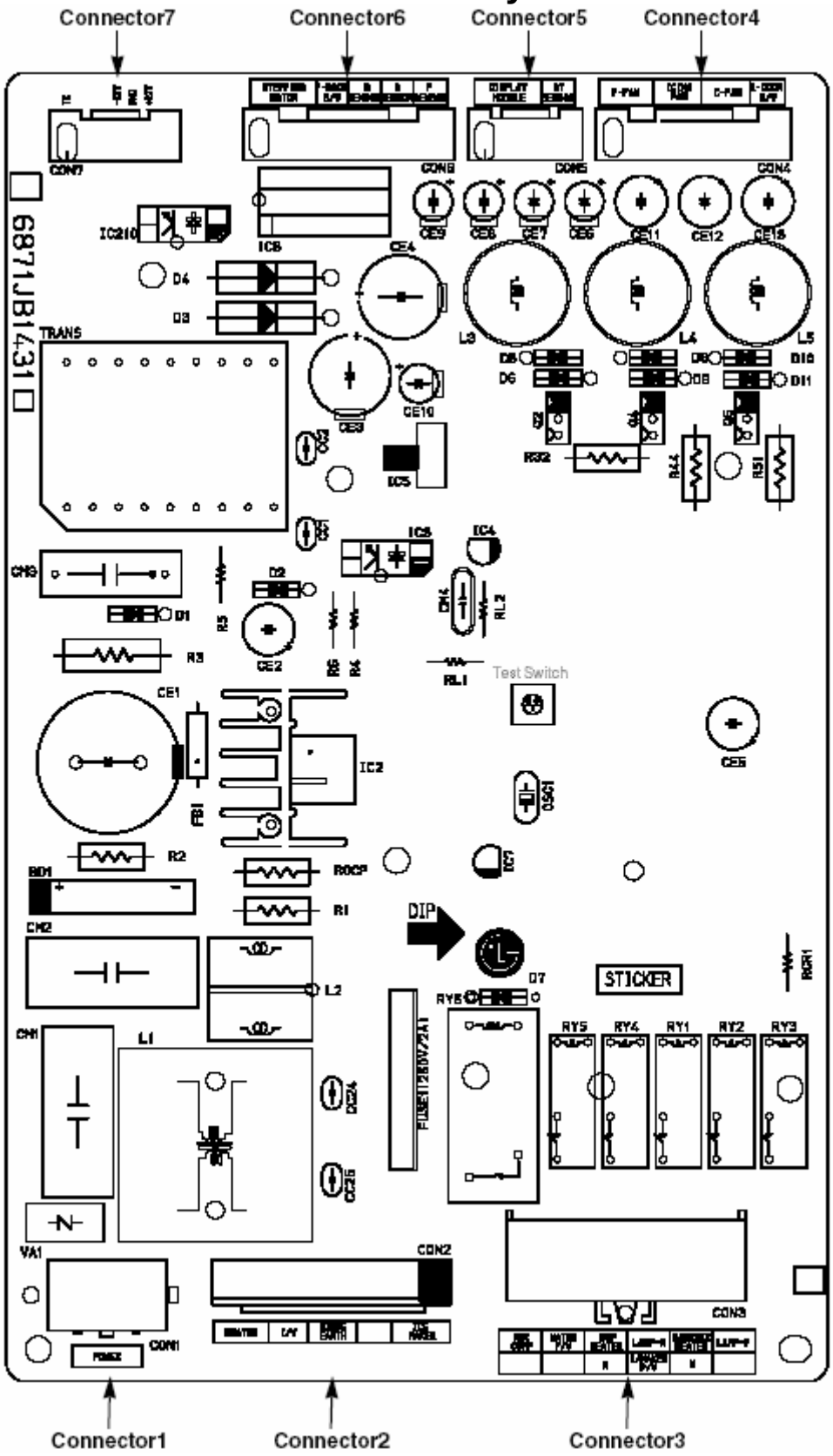
DISPLAY LIGHT & BUTTON CIRCUIT

This circuit determines which button on the control panel is pushed and drives the corresponding LED on the display.




Stepping Motor Info
BL to BK / 400Ω ± 10%
YL to RD / 400Ω ± 10%
Ohm Tests performed with connector disconnected!!
(Both Stators Get Variable +/- DCmv @ 75Hz)
LG Electronics
CIRCUIT DIAGRAM
CON2 & CON3 PWB
Dispenser Board
All Wire Colors are L1 Outputs to 120 VAC Loads
Exception – BL & WH Neutral
PK (CON3) – L1 Input
a – WH & BL = Neutral
b – BK & YL = L1
120 VAC
BK – L1
WH - N
Fans 13-15Vdc Motor ON
F-Fan Pins 1 & 2
Icing Fan Pins 4 & 5
C-Fan Pins 7 & 8
POWER CORD
NEUTRAL
LIVE
GN/YL
CON1
PWB ASSEMBLY, MAIN
BL - N
IMAKER PILOT VALVE
LAMP-F
BARRIER HEATER
LAMP-R
THERMOSTAT
FUSE-M
DEF-HEATER
WATER PILOT VALVE
CON3
CAPACITOR-PART
P.T.C STARTER
EARTH PART
STEPPING MOTOR
F-DOOR S/W
D-SENSOR
R-SENSOR
F-SENSOR
R-DOOR S/W
F-FAN
ICING F-FAN
C-FAN
DISPENSER LEVER S/W
WATER PILOT VALVE
SOLENOID CUBE
AUGER MOTOR
IMAKER POWER S/W
HEATER
OUTPLATE HEATER
SOLENOID DISPENSER
CON2
CON3
PWB ASSEMBLY, DISPENSER
CON1
CON4
ICING-SENSOR
RT-SENSOR
CON5
PWB ASSEMBLY, DISPAY
CON102
CON101
CON103
12 Vdc BK
5 Vdc BN
12 Vdc SB
DUCT HEATER
PWB ASSEMBLY, LAMP
Sensors (Temps -4°F to 50°F)
RT, R, & D Sensors – 77KΩ to 20KΩ
F & Icing Sensors – 22.3KΩ to 4.9KΩ
0 to 5 Vdc to GRD
ICE MAKER KIT
BL - N
I/V
FRONT HEATER
R-DOOR HEATER
L-DOOR HEATER
CON2
CON2 & CON3
All Wire Colors are L1 Outputs to 120 VAC Loads
Exception - BL
*PLUG TYPE, ICE MAKER PART, CAPACITOR PART, DISPENSER PART, THERMOSTAT AND COMP' EARTH PART ON CIRCUIT DIAGRAM ARE SUBJECT TO CHANGE IN DIFFERENT LOCALITIES AND MODEL TYPE.
* P.T.C START OPTION
LG COMP'
MATSUSHITA COMP'
EMBRACO COMP'
BK : BLACK
YL : YELLOW
SB : SKY BLUE
BN : BROWN
GN : GREEN
PK : PINK
BO : BRIGHT ORANGE
PR : PURPLE
GN/YN : GREEN/YELLOW
GY : GRAY
WH : WHITE
BL/WH : BLUE/WHITE
RD : RED
WH/BK : WHITE/BLACK
RD/WH : RED/WHITE
GRD
N
Neutral

Main Board Layout

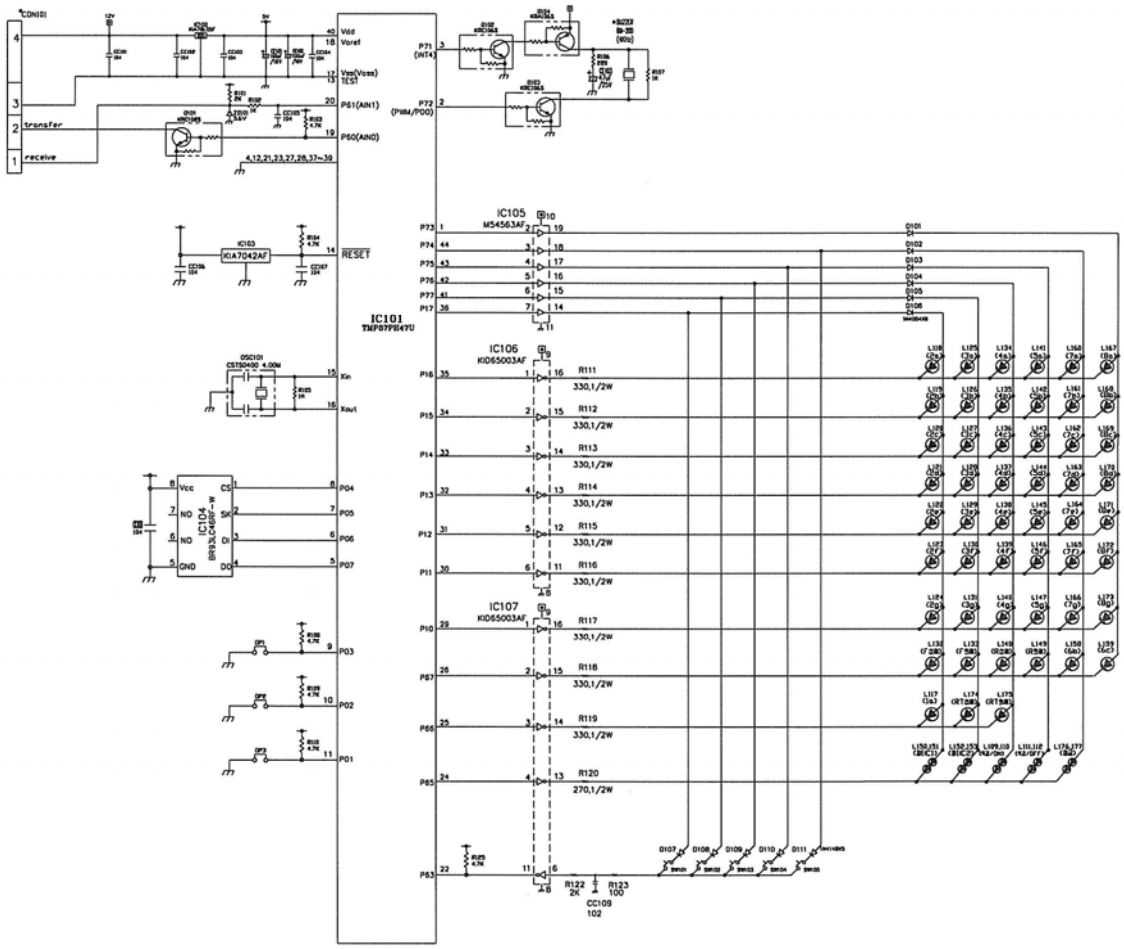


Main Board Parts List

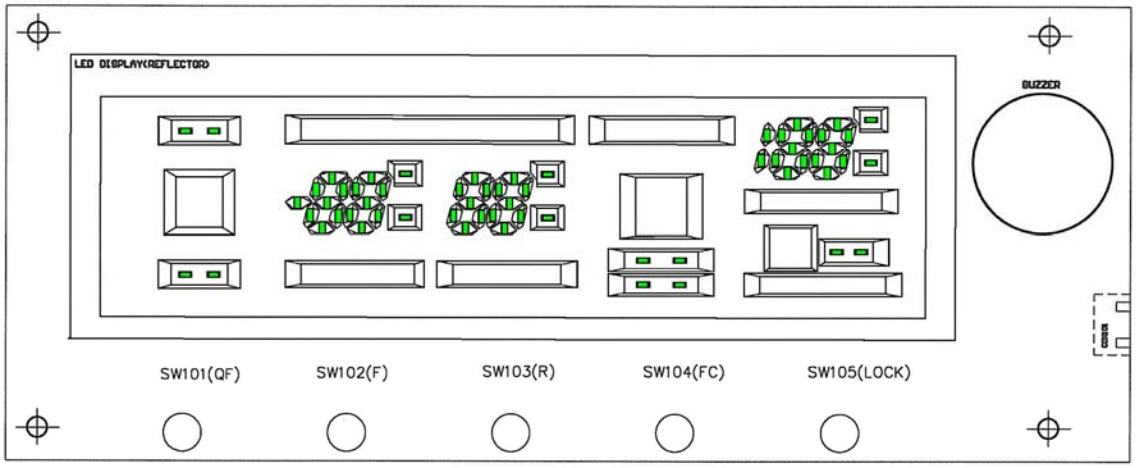
APPLICATION

No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	6870JB8203A	PWB(PCB)	BEST BRAVO-PJT	DOO SAN	T=1.6
2	6170JB2012B	TRANSFORMER,SMPS[COIL]	DL-PJT 2.9MH/20W	SAM IL	TRANS
3	6170JB2012C	TRANSFORMER,SMPS[COIL]			TRANS
4	6630AQ2109D	CONNECTOR (CIRC),WAFER	YW396-09AV	YEON HO	CON1
5	6630AQ2105E	CONNECTOR (CIRC),WAFER	YW396-07AV	YEON HO	CON2
6	6630AQ2105B	CONNECTOR (CIRC),WAFER	YW395-05AV	YEON HO	CON3
7	6630JB8004E	CONNECTOR (CIRC),WAFER	SMW250 YEONHO 6P 2.5MM STRAIGHT SN	YEON HO	CON4
8	6630JB8004L	CONNECTOR (CIRC),WAFER	SMW250 YEONHO 12P 2.5MM STRAIGHT SN	YEON HO	CON5
9	6630JB8004C	CONNECTOR (CIRC),WAFER	SMW250 YEONHO 4P 2.5MM STRAIGHT SN	YEON HO	CON6
10	6630JB8004F	CONNECTOR (CIRC),WAFER	SMW250 YEONHO 7P 2.5MM STRAIGHT SN	YEON HO	CON7
11	0IZZJB2054V	IC,DRAWING	TMP87C848N 42P SDIP BK MASK BRAVO33-PJT BEST/BETTER	TOSHIBA	IC1
12	0ISKSJ5100A	IC,POWER MANAGEMENT	STR-G6353 5PIN BK SMPS 2,4PIN FORM	SANKEN	IC2
13	0IPMGNE001A	IC,POWER MANAGEMENT	PS2561L1-1-V NEC 4P/DIP BK + TLP721F	NEC	IC3
14	0IKE431000A	IC,KEC	KIA431 3 PIN TP - -	KEC	IC4
15	0IKE780500Z	IC,LINEAR	KIA7805PI 3DIP BK 5V 1A REFORM	KEC	IC5
16	0IKE65003B	IC,KEC	KID65003AP 16P,SDIP BK DRIVE IC	KEC	IC6
17	0IKE704200A	IC,KEC	KIA7042P KEC 3P BK RESET	KEC	IC7
18	0IT0777400A	IC,DRAWING	TA7774AP 16 SDIP BK DRIVE IC STEPPING MOTOR	TOSHIBA	IC8
19	6920AL2001B	RELAY	ALZ12B12 NAIS 250VAC 16A 12VDC 1A NO VENTING	NAIS	RY1
20	6920JB2003A	RELAY	GSN-1A OMRON 250VAC 1.5A 12VDC 1A JAPAN	OMRON	RY5,RY6
21	6920JB2003E	RELAY	G5NB-1A-E(CHINA) OMRON 250VAC 5A 12VDC 1A NO VENTING	OMRON	RY2-4
22	6920JB2009B	RELAY	G5SB-14 OMRON 250VAC 5A 12VDC 1C NO VENTING	OMRON	-
23	-	-	-	-	-
24	6212JB8001B	RESONATOR,CERAMIC	CSTS0400MG03 MURATA 4MHZ TP -	MURATA	OSC1
25	6102JB8001B	VARISTOR	INR14D621 IL/JIN UL/VDE BK 620V	IL JIN	VA1
26	6102W5V007A	VARISTOR	INR14D331K IL JIN UL/CSA/VDE BK	IL JIN	VA1
27	0DB3M0000AA	DIODE,RECTIFIERS	D3SBA60 BK SHINDENGEN - 600V 4A 80A - 10UA	SHINDENGEN	BD1
28	0DD4004004C	DIODE,RECTIFIERS	RECT1N4004 TP	DELTA	D7
29	0DR107009AA	DIODE,RECTIFIERS	FR107 TP RECTRON DO41 1000V 1A 30A 500NSEC 5A	DELTA	D1,D2,D5,D6,D8,D9
30	0DRSA00070A	DIODE,RECTIFIERS	RL2 SANKEN BK NON 400V 2A 40A 50NSEC 10UA	SANKEN	D3,D4
31	0CE105BK638	CAPACITOR,FIXED ELECTROLYTIC	1UF KME RGYX 50V 0.2 FM5 TP 5	SAM WHA	CE10
32	0CE106EK638	CAPACITOR,FIXED ELECTROLYTIC	10UF KMG 50V 20% FM5 TP 5	SAM WHA	CE6-CE9
33	0CE227BF638	CAPACITOR,FIXED ELECTROLYTIC	220UF KME TYPE 16V 20% FM5 TP 5	SAM WHA	CE5
34	0CE227BH638	CAPACITOR,FIXED ELECTROLYTIC	220UF KME RG 25V 20% FM5 TP 5	SAM WHA	CE11,CE12
35	-	-	-	-	-
36	0CE476BK638	CAPACITOR,FIXED ELECTROLYTIC	47UF KME TYPE 50V 20% FM5 TP 5	SAM WHA	CE2
37	0CE476ZV6E0	CAPACITOR,FIXED ELECTROLYTIC	47UF HE 450V 20% BULK SNAP IN	SAM WHA	CE1
38	0CE687YH6E0	CAPACITOR,FIXED ELECTROLYTIC	680UF RX 25V 20% BULK SNAP IN	SAM WHA	CE3
39	0CE687VJ618	CAPACITOR,FIXED ELECTROLYTIC	680UF RX 35V 20% TP 5 FL	SAM WHA	CE4
40	0CK102DK99A	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	1NF 2012 50V 80%,-20% R/TP X7R	MURATA	CC17,CC20
41	0CK1049K949	CAPACITOR,FIXED CERAMIC(High dielectric)	0.1UF D 50V 80%,-20% F(Y5V) TA52	SAM WHA	CC3,CC4,CC6,CC7
42	0CK104DK99A	CAPACITOR,FIXED CERAMIC(High dielectric)	0.1UF 2012 50V 80%,-20% R/TP JE	MURATA	CC5,CC19
43	0CK22102510	CAPACITOR,FIXED CERAMIC(High dielectric)	220P 2KV K B S	SAM WHA	CC2
44	0CK2230K949	CAPACITOR,FIXED CERAMIC(High dielectric)	22NF 50V Z F TA52	SAM WHA	-
45	0CK223DK96A	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	22NF 2012 50V 80%,-20% R/TP X7R	MURATA	CC8,CC9,CC11-15,CC18
46	0CK4719K519	CAPACITOR,FIXED CERAMIC(High dielectric)	470PF 50V K B TA52	SAM WHA	CC1
47	0CQ1041N509	CAPACITOR,FIXED FILM	0.1UF D 100V 10% PE TP5	SAM WHA	CM4
48	0CK102DK99A	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	1NF 2012 50V 80%,-20% R/TP X7R	MURATA	CC20
49	0CQ4732Y430	CAPACITOR,FIXED FILM	4700PF S 630V 5% MPE NI R	SAM WHA	CM3
50	0CQ4741B670	CAPACITOR,FIXED FILM	0.47UF D 275V 20% MPP NI R	SAM WHA	CM1
51	0LR1001M4F0	INDUCTOR,RADIAL LEAD	1000UH 20% R 6X12.5 BULK	TNC	L3,L4
52	0RD1001G609	RESISTOR,FIXED CARBON FILM	1K OHM 1/4 W 5% TA52	SMART	R19
53	0RD1002G609	RESISTOR,FIXED CARBON FILM	10K OHM 1/4 W 5% TA52	SMART	R29,R35,RCR1
54	0RD2001G609	RESISTOR,FIXED CARBON FILM	2K OHM 1/4 W 5% TA52	SMART	R17,R20,R21,R22,R26,R27,R35
55	0RD3901G609	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/4 W 5% TA52	SMART	R34,R41
56	0RD4701G609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/4 W 5% TA52	SMART	R16,R33,R40
57	0RD5603H609	RESISTOR,FIXED CARBON FILM	560K OHM 1/2 W 5% TA52	SMART	R2
58	0RD2001G609	RESISTOR,FIXED CARBON FILM	2K OHM 1/4 W 5% TA52	SMART	R45
59	0RD4701G609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/4 W 5% TA52	SMART	R46
60	0RJ2791L622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1/8 W 5% 2012 R/TP	ROHM	R21
61	0RH1002L622	RESISTOR,METAL GLAZED(CHIP)	10KOHM 1/8 W 5% 2012 R/TP	ROHM	R15,R28,R30,R42,R8
62	0RH1004L622	RESISTOR,METAL GLAZED(CHIP)	1MOHM 1/8 W 5% 2012 R/TP	ROHM	R13
63	0RH102FL622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1/8 W 2012 5.00% D	ROHM	R7
64	0RH202FL622	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1/8 W 5% 2012 R/TP	ROHM	R23-R25,R38,R39
65	0RH3300L622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1/8 W 5% 2012 R/TP	ROHM	R31,R43
66	0RH4701L622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1/8 W 5% 2012 R/TP	ROHM	R14,R16,R37
67	0RD1000E672	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1/8 W 5% 2012 R/TP	ROHM	R5
68	0RD1501H609	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/2 W 5% TA52	SMART	R32,R44
69	0RJ0000E672	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1/8 W 5% 2012 R/TP	ROHM	RJ1
70	0RJ2491E472	RESISTOR,METAL GLAZED(CHIP)	2.4K OHM 1/8 W 1% 2012 R/TP	ROHM	RL2
71	0RJ6800E672	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1/8 W 5% 2012 R/TP	ROHM	R6
72	0RD6801G609	RESISTOR,FIXED CARBON FILM	6.8K OHM 1/4 W 5% TA52	SMART	R4
73	0RJ9191E472	RESISTOR,METAL GLAZED(CHIP)	9.1K OHM 1/8 W 1% 2012 R/TP	ROHM	RL1
74	0RJ1002E472	RESISTOR,FIXED METAL FILM	10K OHM 1/8 W 1.00% 2012 R/TP	ROHM	RT1
75	0RN1622G409	RESISTOR,FIXED METAL FILM	16.2K OHM 1/4 W 1.00% TA52	SMART	RF1
76	0RN2612G409	RESISTOR,FIXED METAL FILM	26.1K OHM 1/4 W 1.00% TA52	SMART	RR1,RD1
77	0RS0151J609	RESISTOR,FIXED METAL OXIDE FILM	1.5 OHM 1 W 5.00% TA52	SMART	ROCP
78	0RS0101J609	RESISTOR,FIXED METAL OXIDE FILM	1 OHM 1 W 5% TA52	SMART	ROCP
79	0RS5602K641	RESISTOR,FIXED METAL OXIDE FILM	56K OHM 2 W 5.00% F20	SMART	R3
80	0RS3303J609	RESISTOR,FIXED METAL OXIDE FILM	330K OHM 1 W 5.00% TA52	SMART	R1
81	0TR319808AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	KEC	Q3,Q5
82	0TRKE00008A	TRANSISTOR,BIPOLARS	KEC KTB1151 BK TO126 60V 5A	KEC	Q2,Q4
83	0TRKE60016A	TRANSISTOR,BIPOLARS	KEC KRC106S R/TP SOT23 50V 100MA	KEC	Q1
84	6200JB8004A	FILTER(CIRC),EMC	CY2H2050 TNC - -	TNC	L1
85	6200JB8007X	FILTER(CIRC),EMC	UV11.0533 TNC BK 0.5A 320MH	TNC	L2
86	6210JB8001A	FILTER(CIRC),EMC	BFS3310A0 SAMWHA TPS2 BEAD FILTER	SAM WHA	FB1
87	6600RRT001Z	SWITCH,TACT	JTP1280A6 JEIL 12VDC 50MA -	JEIL	SW1
88	0DZMR00029A	DIODE,ZENERS	1N5232B MOTORORA TP DO34 0.5W 5.6V 81MA PF	DEL TA	ZD1
89					J03,J04,J06-J12,J15(10MM)
	6854B50001A	JUMP WIRE	0.6MM S2MM TP TAPING SN	DAE A LEAD	J13,J14(8MM)
					J01,J02,J05(12.5MM)
	0FZZJB3001A	FUSE,DRAWING	2A 250V - SLOW-BLOW LITTELFUSE,TRIAD	SAM JU KYO YUK	FUSE1
90	1SBF0302418	SCREW TAP TITE(S),BINDING HEAD	+ D3.0 L8.0 MSWR3FZY	HAENG SUNG	
91					
92	4920JB3007A	HEAT SINK	23.3*17*25 DRIVE IC STR R-S64,65,73 2PIN 1-SCREW 3MM -	(IC2)	(IC2)
93	49111004	SOLDER,SOLDERING	NA HEESUNG METAL BAR SN 63% NA	-	-
94	59333105	FLUX	JS-71 KOKI SANEI KOREA(KSK) SG:0.808 +/-0.003	-	-
95	9VWF0120000	SOLDER(ROSIN WIRE) RS0	D1.20	-	-

Display Board Schematic



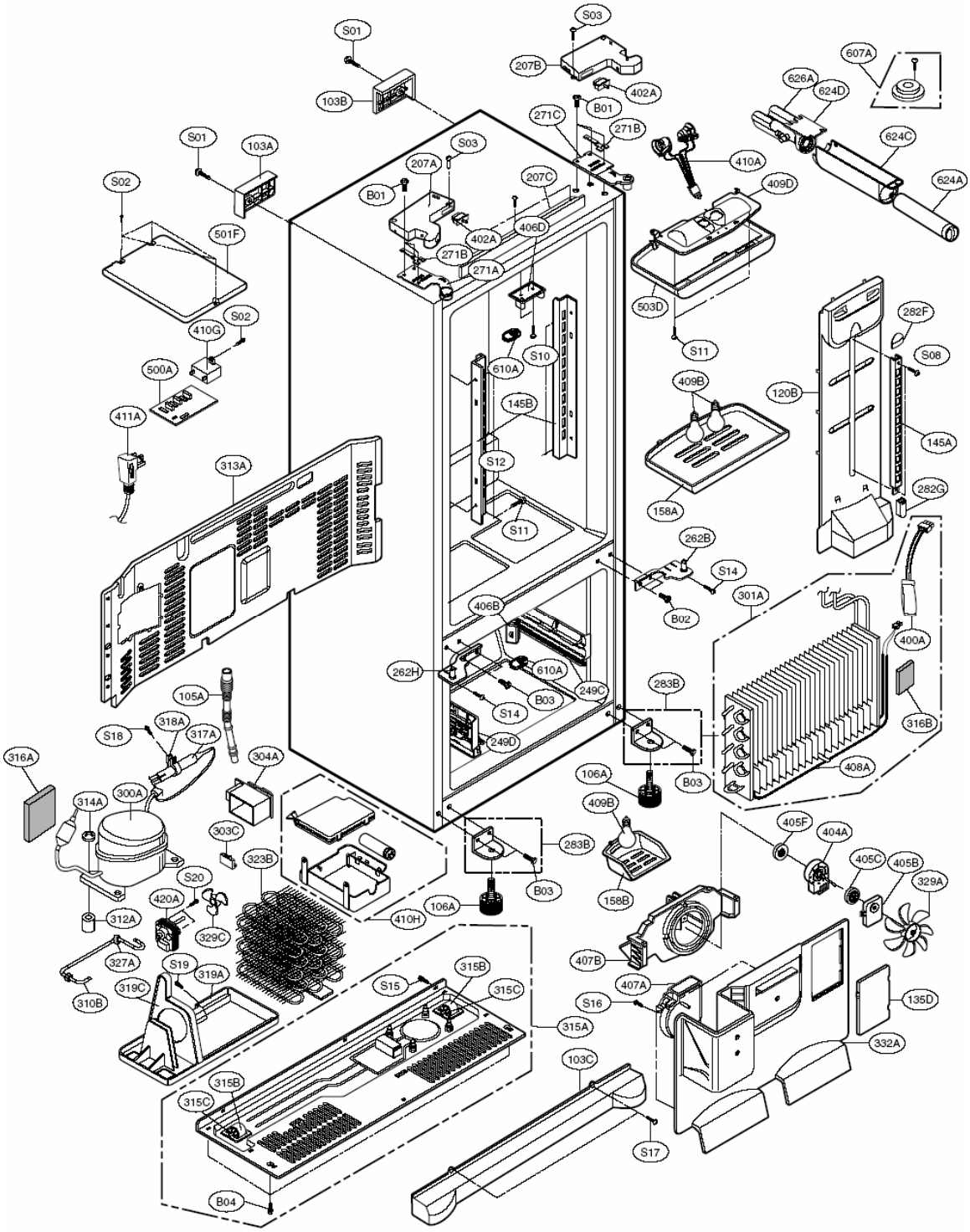
Display Board Layout



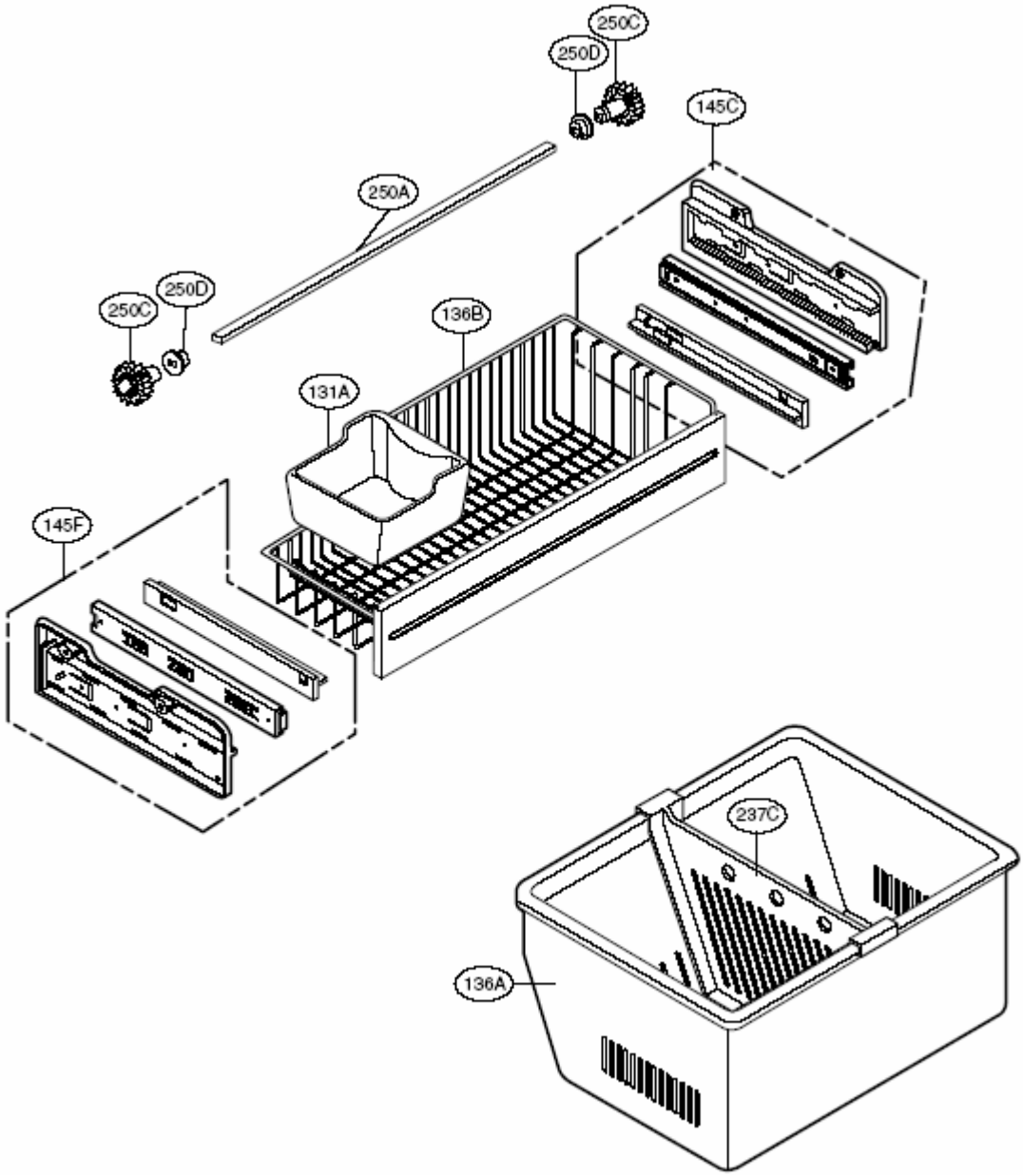
No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	-	PWB(PCB)	BRAVO-PJT BEST MODULE DISPLAY PCB	DAE DUCK	STH
2	-	-	-	-	-
3	-	REFLECTOR	BRAVO-PJT BEST NORYL	YANG WOO	-
4	-	-	-	-	-
5	4140JB1031	NAME PLATE,P(H)	BRAVO-PJT BEST	YANG WOO	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-
9	-	-	-	-	-
10	-	-	-	-	-
11	6630JB8005C	CONNECTOR (CIRC),WAFER	SMAW250-04	YEON HO	CON101
12	-	-	-	-	-
13	0IZZJB2041S	IC,DRAWING	TMP87CH47U 44P,QFP44-P-1010 TRAY BRAVO-PJT BEST	TOSHIBA	IC101(S:T)
14	0IZZJB2052C	IC,DRAWING	TMP87CH47U 44P,QFP44-P-1010 TRAY BRAVO-PJT BEST	TOSHIBA	IC101(S:T)
15	0IZZJB2052F	IC,DRAWING	TMP87CH47U 44P,QFP44-P-1010 TRAY BRAVO-PJT BEST LGA	TOSHIBA	IC101(S:T)
16	-	-	-	-	-
17	-	-	-	-	-
18	-	-	-	-	-
19	-	-	-	-	-
20	0ISTLMI001A	IC,STANDARD LOGIC	M54563FP MITSUBISHI 20 P/TP CONVERT	MITSUBISHI	IC105
21	0IKE6500030C	IC,KEC	KID65003AF 16SOP BK 7CH DRIVER	KEC	IC106,107
22	-	-	-	-	-
23	0ISTLKE002A	IC,STANDARD LOGIC	KIA78L05F KEC SOT-89 TP REGULATOR	KEC	IC102
24	0ISTLKE003A	IC,STANDARD LOGIC	KIA7042AF KEC SOT-89 TP RESET IC	KEC	IC103
25					
26	0ISTLKE004A	IC,STANDARD LOGIC	KRA106S KEC SOT-23 TP TRANSISTOR	KEC	QI04
27	0ISTLKE005A	IC,STANDARD LOGIC	KRC106S KEC SOT-23 TP TRANSISTOR	KEC	QI01-103
28	0ISG9346600	IC,SGS-THOMSON	M93C46-MN6T 8PIN TP AUTO RESTART	ST	IC104
29	0IRH9346000	IC,ROHM	BR93LC46RF-W 8PIN SOP BK EEPROM	ROHM	
30	6212BB3245A	RESONATOR,CERAMIC	CSTCR4M00G53-R0 MURATA 4.0MHZ +/- 0.5% T/R SMD	MURATA	OSC101
31					
32	-	-	-	-	-
33	0CE107VF60C	CAPACITOR,FIXED ELECTR	100UF MV 16V 20% R/TP(SMD) SMD	SAM-HWA	CE102
34	0CE476VH60C	CAPACITOR,FIXED ELECTR	47UF MV 25V 20% R/TP(SMD) SMD	SAM-HWA	CE103
35	-	-	-	-	-
36	-	-	-	-	-
37	0CK104DX94A	CAPACITOR,FIXED CERAMI	100NF 2012 50V 80%,-20% R/TP F(Y5V)	MURATA	CC101-108
38	0CK102DK96A	CAPACITOR,FIXED CERAMI	INF 2012 50V 80%,-20% R/TP X7R	MURATA	CC109
39	0RH1000L622	RESISTOR,METAL GLAZED(	100 OHM 1 / 8 W 2012 5.00% D	ROHM	RI23
40	0RD2200E672	RESISTOR,METAL GLAZED(	220 OHM 1/8 W 5% 2012 R/TP	ROHM	RI06
41	0RD1001E672	RESISTOR,METAL GLAZED(	1K OHM 1/8 W 5% 2012 R/TP	ROHM	RI02,107
42	0RD2001E672	RESISTOR,METAL GLAZED(	2K OHM 1/8 W 5% 2012 R/TP	ROHM	RI01,122
43	0RD4701E672	RESISTOR,METAL GLAZED(	4.7K OHM 1/8 W 5% 2012 R/TP	ROHM	RI03,104,108-110,125
44	0RD1004E672	RESISTOR,METAL GLAZED(	1M OHM 1/8 W 5% 2012 R/TP	ROHM	RI05
45	-	-	-	-	-
46	-	-	-	-	-
47	0RJ2700H680	RESISTOR,METAL GLAZED(	270 OHM 1 / 2 W 5025 5.00% D	ROHM	RI20
48	0RJ3300H680	RESISTOR,METAL GLAZED(	330 OHM 1 / 2 W 5025 5.00% D	ROHM	RIII-119
49	-	-	-	-	-
50	0RJ0000E672	RESISTOR,METAL GLAZED(	0 OHM 1/8 W 5% 2012 R/TP	ROHM	OP1
51	0RJ0000E672	RESISTOR,METAL GLAZED(	0 OHM 1/8 W 5% 2012 R/TP	ROHM	OP2
52	0RJ0000E672	RESISTOR,METAL GLAZED(	0 OHM 1/8 W 5% 2012 R/TP	ROHM	OP3
53	0DZAM00IB8A	DIODE,ZENERS	RLZ ROHM R/TP LLDS(LL-34) 500MW 5.6V 20MA .PF	ROHM	ZDI01
54	0DRAM0002BA	DIODE,RECTIFIERS	RLR4004 ROHM R/TP SOT23 400V 1A 20A .SEC 10MA	ROHM	DI01-106
55	0DSAM0006BA	DIODE,SWITCHING	RLS4148 ROHM R/TP LLDS(LL-34) 75V 450MA 2000MA	ROHM	DI07-111
56	-	-	-	-	-
57	0DLLE0098AA	LED	LEDTECH HT-S91UYG R/TP GREEN/YELLOW 40MCD	LEDTECH	LI58-173(RT)
58	0DLLE0098AA	LED	LEDTECH HT-S91UYG R/TP GREEN/YELLOW 40MCD	LEDTECH	LI18-131,134-147,150-153
59	0DLLE0098AA	LED	LEDTECH HT-S91UYG R/TP GREEN/YELLOW 40MCD	LEDTECH	LI17,132,~~133~~,148,~~149~~,174~177,176⚠
60	0DLLE0098AA	LED	LEDTECH HT-S91UYG R/TP GREEN/YELLOW 40MCD	LEDTECH	133,149,175
61	0DLLE0098AA	LED	LEDTECH HT-S91UYG R/TP GREEN/YELLOW 40MCD	LEDTECH	LI09,LI10
62	0DLLE0098AA	LED	LEDTECH HT-S91UYG R/TP GREEN/YELLOW 40MCD	LEDTECH	LI11,112
63	-	-	-	-	-
64	6908JB8003A	BUZZER,PIEZO CERAMIC	BM-20B BUJEON PIEZO 4KHZ 65DB	BUJEON	BUZZER
65	6600ART005A	SWITCH,TACT	KPS-1105AM KYUNG IN(HK) 12VDC 50MA SMD	KYUNG IN	SWI01-105
66	6600ART002J	SWITCH,TACT	JTP-1138 JEIL 12VDC 50MA SMD	JEIL	
67	49111001	SOLDER,SOLDERING	SOLDERIROSIN WIRE1R50	HUISUNG	-
68	49111004	SOLDER,SOLDERING	H63A	HUISUNG	-
69	59333105	FLUX	SG:0.825-0.830 KOREA F.H-206	KOKI	-
70	-	-	-	-	-
71	-	-	-	-	-
72	-	-	-	-	-

EXPLODED VIEWS

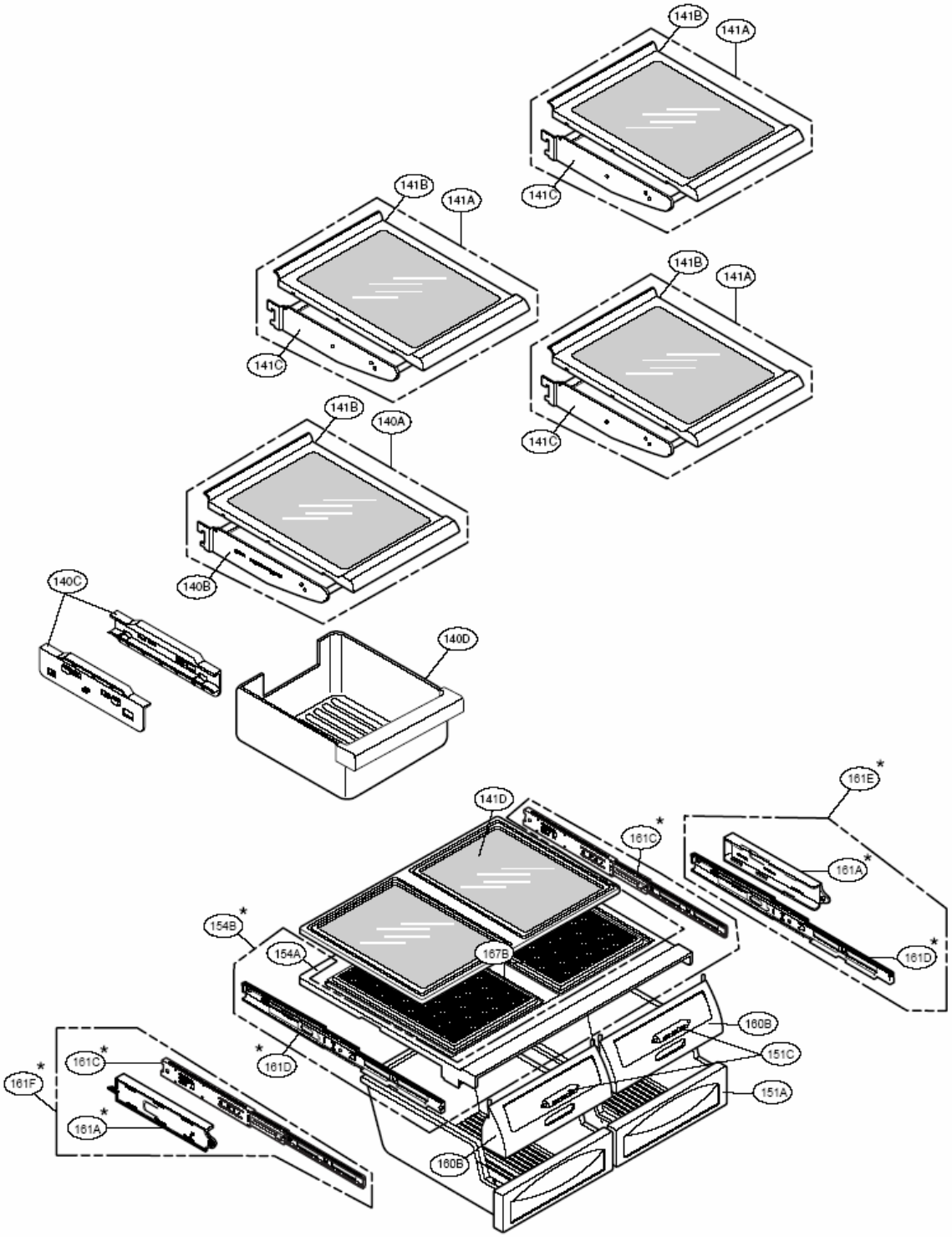
CASE PARTS



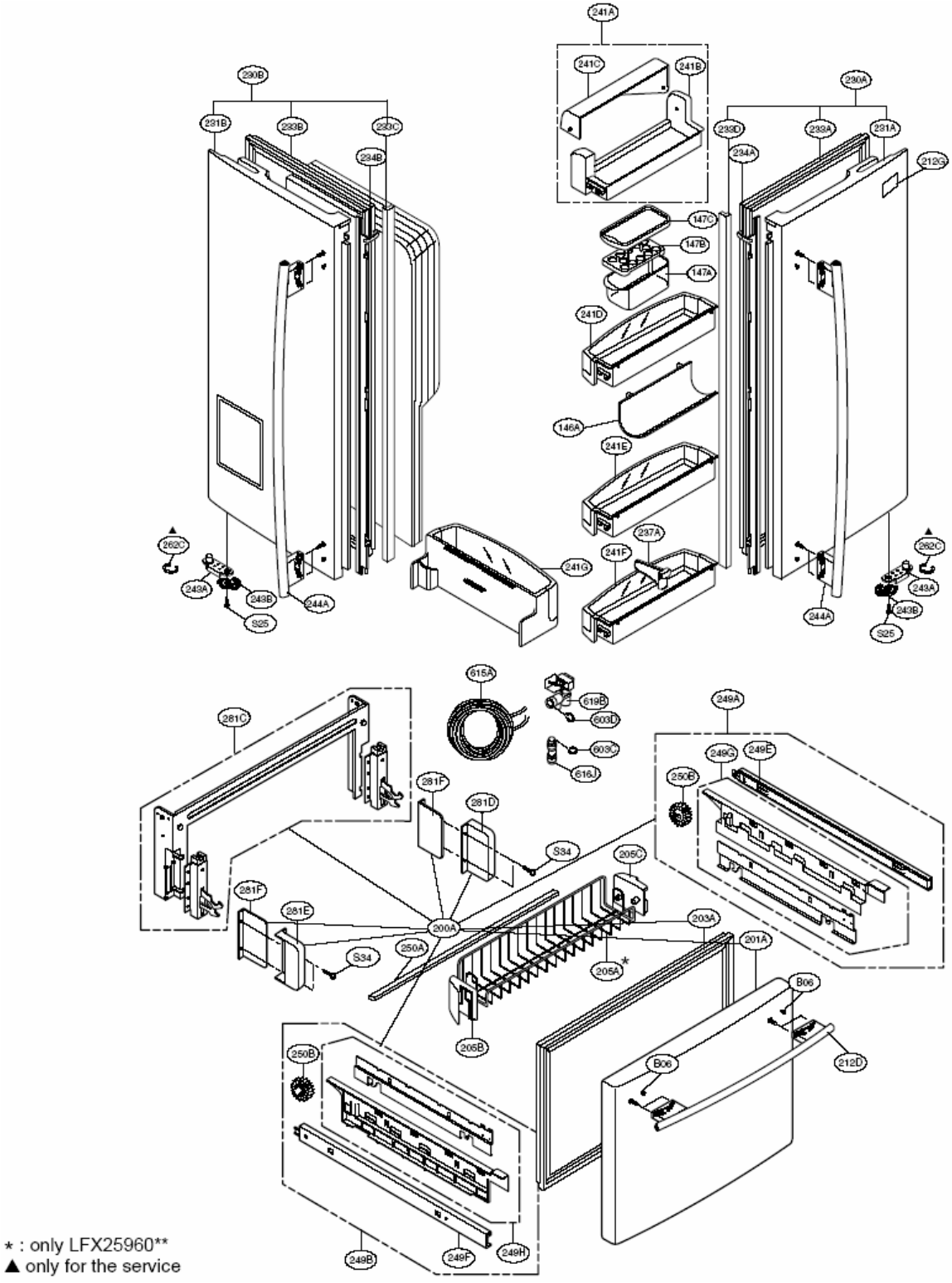
FREEZER PARTS



RERIGERATOR PARTS

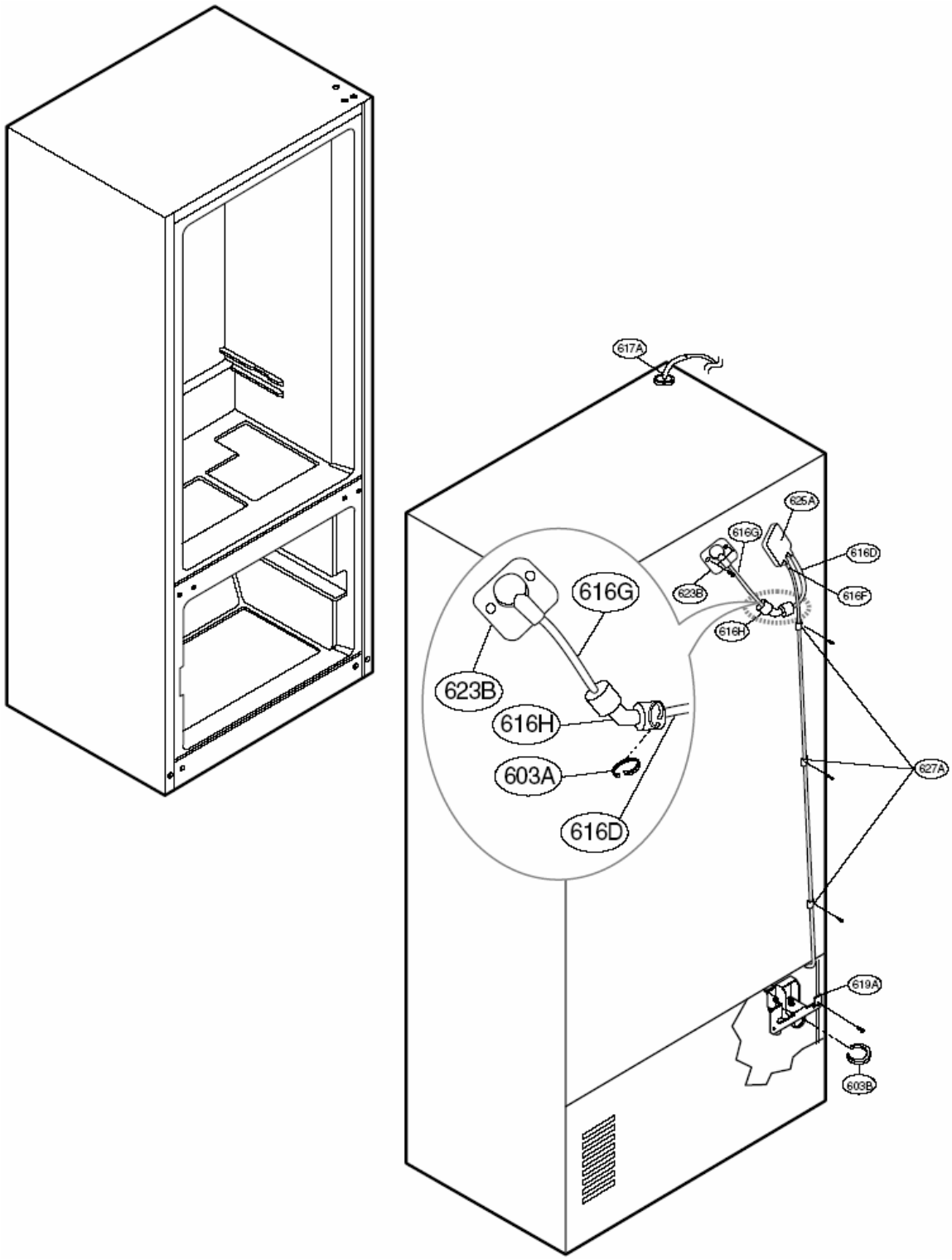


DOOR PARTS

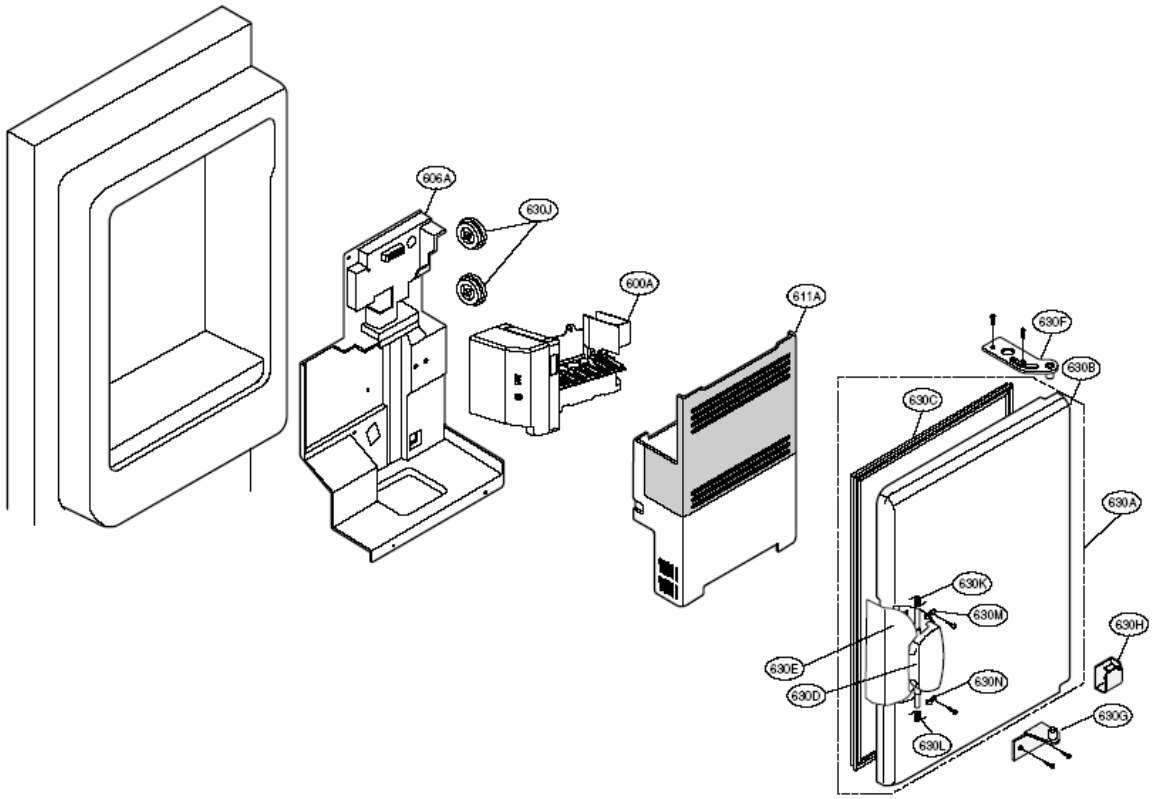


★ : only LFX25960**
▲ only for the service

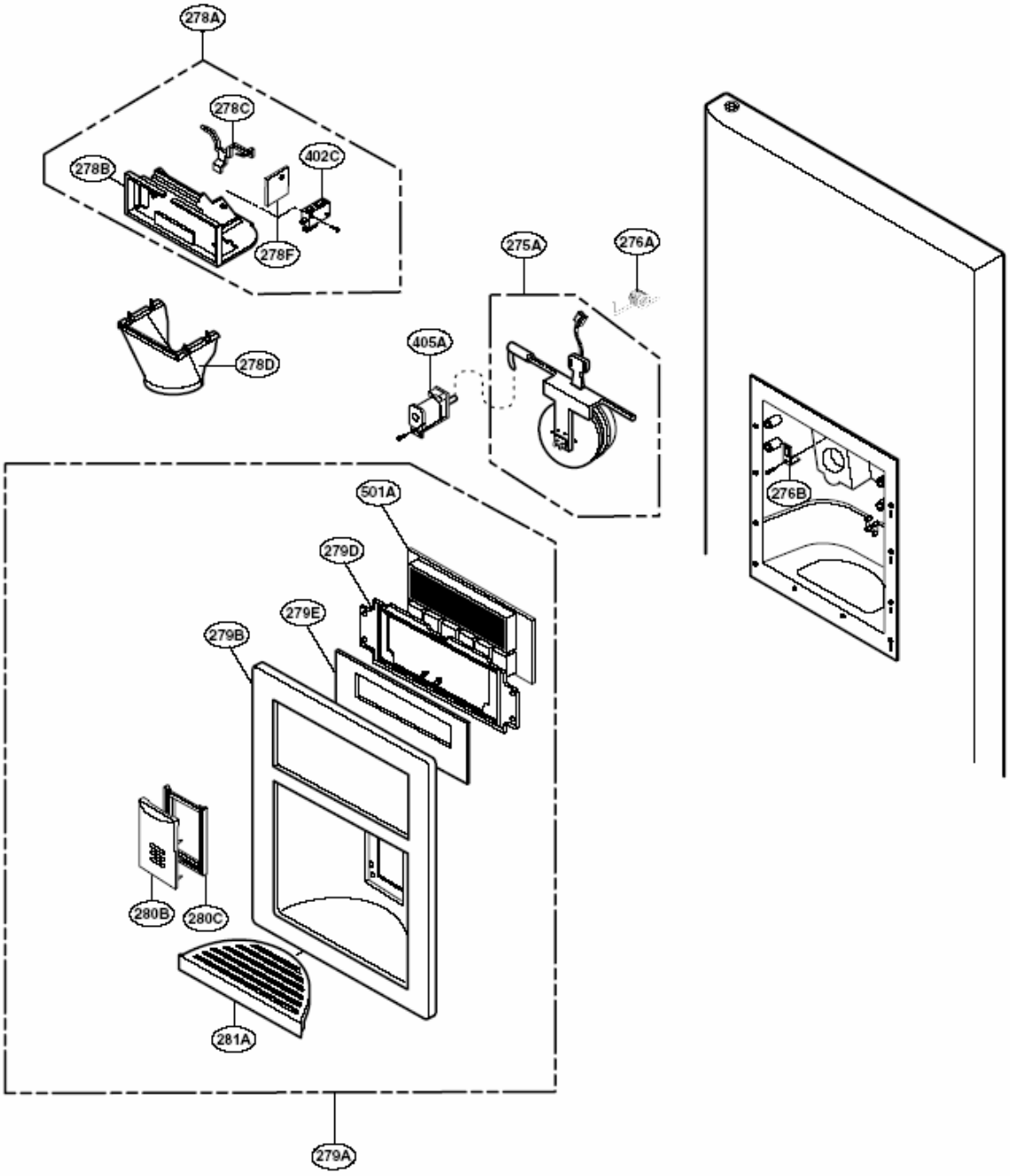
ICE & WATER PARTS



ICEMAKER PARTS



DISPENSER PARTS



PARTS LIST

Always order parts by Part Number, Model Number, and Serial Number.

A = LFX21960ST
B = LFX25960ST
C = LFX25960SW
D = LFX25960TT

Model	Loc.	Part#	Description
C	103A	3650JA2061A	Handle, Rear
D	103A	3650JA2061W	Handle, Rear
AB	103A	3650JA2113N	Handle, Rear
C	103B	3650JA2061B	Handle, Rear
D	103B	3650JA2061X	Handle, Rear
AB	103B	3650JA2113P	Handle, Rear
C	103C	3550JJ0008A	Cover, Lower
AB	103C	3550JJ0008C	Cover, Lower
D	103C	3550JJ0008L	Cover, Lower
ABCD	105A	5251JA3003B	Tube Assembly, Drain
ABCD	106A	4779JJ2001A	Leg Assembly, Adjust
A	120B	5208JA1156A	Duct, Multi
BCD	120B	5209JJ1009D	Duct Assembly, Multi
ABCD	131A	5074JA2004A	Bucket, Ice
ABCD	135D	3551JJ2028A	Cover Assembly, Grille Fan
BCD	136A	3390JJ1072A	Tray, Drawer
A	136A	3390JJ1073A	Tray, Drawer
ABCD	136B	3391JA2054C	Tray Assembly, Drawer
A	140A	5027JJ2014E	Shelf Assembly, Refrigerator
BCD	140A	5027JJ2014F	Shelf Assembly, Refrigerator
BCD	140B	5027JJ2012D	Shelf Assembly, Net
BCD	140C	4975JA2028A	Guide Assembly, Rail
A	140C	4975JA2028B	Guide Assembly, Rail
BCD	140D	3391JA2055A	Tray Assembly, Meat
A	140D	3391JA2055B	Tray Assembly, Meat
A	141A	5027JJ2014G	Shelf Assembly, Refrigerator
BCD	141A	5027JJ2014H	Shelf Assembly, Refrigerator
BCD	141B	5026JJ1050A	Shelf, Refrigerator
A	141B	5026JJ1051A	Shelf, Refrigerator
A	141C	5027JJ2012E	Shelf Assembly, Net
BCD	141C	5027JJ2012F	Shelf Assembly, Net

Parts List Continued

Model	Loc.	Part No.	Description
A	141D	4890JD1072B	Cover, Glass
BCD	141D	4890JD1072C	Cover, Glass
ABCD	145A	4930JA2080C	Holder, Shelf
ABCD	145B	4930JA2081C	Holder, Shelf
A	145C	4975JA1040D	Guide Assembly, Rail
BCD	145C	4975JA1040F	Guide Assembly, Rail
A	145F	4975JA1040C	Guide Assembly, Rail
BCD	145F	4975JA1040E	Guide Assembly, Rail
ABCD	146A	J469-00030A	Rack
ABCD	147A	5074JJ1016A	Bucket, Dairy
ABCD	147B	3390JJ1082A	Tray, Egg
ABCD	147C	3550JJ1084A	Cover, Bucket
BCD	151A	3391JJ2012D	Tray Assembly, Vegetable
A	151A	3391JJ2012G	Tray Assembly, Vegetable
ABCD	151C	4940JA2026D	Knob, Shutter
BCD	154A	3550JA0106A	Cover, TV
A	154A	3551JJ2023C	Cover Assembly, TV
ABCD	158A	3550JJ1070B	Cover, Lamp
ABCD	158B	3550JA1386B	Cover, Lamp
ABCD	160B	3551JJ2019D	Cover Assembly, Tray
A	161C	5218JA2010B	Rail, Slide
A	161D	5218JA2010A	Rail, Slide
A	161E	4975JJ2019E	Guide Assembly, Rail
A	161F	4975JJ2019F	Guide Assembly, Rail
BCD	167B	3550JJ1069A	Cover, Magic Room
A	167B	3550JJ1073A	Cover, Magic Room
A	200A	3581JA8817B	Door Assembly, Freezer
C	200A	3581JA8820A	Door Assembly, Freezer
D	200A	3581JA8820B	Door Assembly, Freezer
B	200A	3581JA8820D	Door Assembly, Freezer
C	201A	5433JA8558E	Door Foam Assembly, Freezer
D	201A	5433JA8558G	Door Foam Assembly, Freezer
AB	201A	5433JA8558H	Door Foam Assembly, Freezer
CD	203A	4987JA2008E	Gasket Assembly, Door
AB	203A	4987JA2008J	Gasket Assembly, Door
BCD	205A	5004JJ1061B	Basket, Door
BCD	205B	5004JA2017A	Basket, Tilt
A	205B	5006JJ2013A	Cap, Cover
BCD	205C	5004JA2017B	Basket, Tilt
A	205C	5006JJ2013B	Cap, Cover

Parts List, continued

Model	LOC.	PART #	Description
ABCD	241D	5005JJ2014J	Basket Assembly, Door
ABCD	241E	5005JJ2014G	Basket Assembly, Door
ABCD	241F	5005JJ2014H	Basket Assembly, Door
ABCD	241G	5005JA2071B	Basket Assembly, Door
C	243A	4620JJ3006A	Stopper, Door
AB	243A	4620JJ3006C	Stopper, Door
D	243A	4620JJ3006D	Stopper, Door
ABCD	243B	4620JJ2009A	Stopper, Door
C	244A	3651JA1023G	Handle Assembly, Freezer
D	244A	3651JA1023P	Handle Assembly, Freezer
AB	244A	3651JA1023R	Handle Assembly, Freezer
A	249A	5098JJ2002R	Connector Assembly
BCD	249A	5098JJ2002T	Connector Assembly
A	249B	5098JJ2002Q	Connector Assembly
BCD	249B	5098JJ2002S	Connector Assembly
BCD	249C	4930JA1066A	Holder, Rail
A	249C	4930JA1068A	Holder, Rail
BCD	249D	4930JA1066B	Holder, Rail
A	249D	4930JA1068B	Holder, Rail
ABCD	249E	5218JA1009E	Rail, Slide
A	249F	5218JA1009F	Rail, Slide
BCD	249F	5218JA1010F	Rail, Slide
A	249G	5098JA2001E	Connector Assembly
BCD	249G	5098JA2001H	Connector Assembly
A	249H	5098JA2001F	Connector Assembly
BCD	249H	5098JA2001G	Connector Assembly
ABCD	250A	4270JA3009H	Bar
ABCD	250B	4403JA3005A	Connector Assembly
ABCD	250C	4470JA2008A	Gear, Ice
ABCD	250D	5006JA2069A	Cap, Cover
C	262B	4775JJ2017B	Hinge Assembly, Center
AB	262B	4775JJ2017F	Hinge Assembly, Center
D	262B	4775JJ2017P	Hinge Assembly, Center
ABCD	262C	4350JA3005B	Ring
C	262H	4775JJ2017D	Hinge Assembly, Center
AB	262H	4775JJ2017H	Hinge Assembly, Center
D	262H	4775JJ2017R	Hinge Assembly, Center
ABCD	271A	4775JJ2014B	Hinge Assembly, Upper
ABCD	271B	4510JA3004A	Lever, Hinge
ABCD	271C	4775JJ2014A	Hinge Assembly, Upper

Parts List, continued

Model	LOC.	PART #	Description
ABCD	275A	5007JA3006R	Cap Assembly, Duct
A	276A	4970JA3025B	Spring, Lever
ABCD	276B	4930JA3043A	Holder, Lever
C	278A	3017JA2008A	Funnel Assembly
ABD	278A	3017JA2008B	Funnel Assembly
C	278B	3210JA1072A	Frame, Funnel
ABD	278B	3210JA1072B	Frame, Funnel
BD	278C	4510JA2022A	Lever, Dispenser
A	278C	4510JA2027A	Lever, Ice Maker
AB	278D	3016JA2004E	Funnel
ABD	278F	6871JB2074A	PCB Assembly, Display
CD	279A	3551JA1132F	Cover Assembly, Dispenser
AB	279A	3551JA1132K	Cover Assembly, Dispenser
C	279B	3550JA1443A	Cover, Dispenser
ABD	279B	3550JA1443B	Cover, Dispenser
ABCD	279D	3550JA2302A	Cover, PCB
ABCD	279E	4890JD1111B	Decor, Glass Door
ABCD	280B	4930JA2074B	Holder, Button
ABD	280C	5020JA2040E	Button, Lever
C	280C	5020JA2040F	Button, Lever
C	281A	3806JA2118A	Decor, Drain
D	281A	3806JA2118B	Decor, Drain
AB	281A	3806JA2150A	Decor, Drain
ABCD	281C	4811JJ2015A	Bracket Assembly, Door
ABCD	281D	3550JA2267B	Cover, Hinge
ABCD	281E	3550JA2267A	Cover, Hinge
ABCD	281F	3550JA2264A	Cover, Hinge
ABCD	282F	3806JL1037C	Decor, Duct
BCD	282G	5006JA3111A	Cap, Duct
ABCD	283B	4774JJ3002A	Hinge, Lower
BCD	300A	2521C-A7256	Compressor, Set Assembly
A	300A	2521JA1006H	Compressor, Assembly
ABCD	301A	5421JJ1003B	Evaporator Assembly
BCD	303B	6748C-0002C	Thermistor, PTC
BCD	303C	6750C-0004R	Overload Protect
A	303C	6750JA3001B	Overload Protect
BCD	304A	3550JA2042B	Cover, PTC
A	304A	3550JA2158A	Cover, PTC
BCD	310B	4J00977N	Pipe, Compressor Sealing
ABCD	312A	5040JA3071A	Damper, Compressor

Parts List, continued

Model	LOC.	PART #	Description
ABCD	313A	3551JJ2018A	Cover Assembly, Machinery (Rear)
ABCD	314A	4620JA3015A	Stopper, Compressor
ABCD	315A	3103JJ1001H	Base Assembly, Compressor
ABCD	315B	4580JA3033A	Roller
ABCD	315C	4J04238A	Pin, Common
ABCD	316A	5072JA3003F	Damper, Noise
ABCD	316B	5072JA3003B	Damper, Noise
BCD	317A	5851JA2002P	Drier Assembly
A	317A	5851JA2008A	Drier Assembly
ABCD	318A	4930JA3034A	Holder, Drier
ABCD	319A	3390JA0040A	Tray, Drip
ABCD	319C	4974JJ1036A	Guide, Fan
ABCD	323B	5403JJ1004B	Condenser Assembly, Wire
BCD	327A	4J03020A	Damper, Pipe
A	327A	4J04328A	Damper, Pipe
ABCD	329A	5901JA1021A	Fan Assembly
ABCD	329C	5901JA1013A	Fan Assembly
ABCD	332A	3530JA0034A	Grille, Fan
ABCD	400A	6615JB2005H	Controller Assembly
CD	402A	6600JB3007A	Switch, Push Button
AB	402A	6600JB3007E	Switch, Push Button
ABCD	402C	6600JB3001E	Switch, Micro
ABCD	404A	4681JB1029E	Motor, DC
ABCD	405A	6421JB2002D	Solenoid Assembly
ABCD	405B	4810JJ2005A	Bracket, Motor
ABCD	405C	5040JA2009B	Damper, Motor Support
ABCD	405F	5040JA2004B	Damper, Motor Support
ABCD	406B	6600JB1004A	Switch, Push Button
BCD	406D	4930JJ2016A	Holder, Door
A	406D	4931JA3006A	Holder Assembly, Gasket
BCD	406D	4931JA3006A	Holder Assembly, Gasket
BCD	406E	4986JA2062A	Gasket, Door
ABCD	407A	5209JA1044A	Duct Assembly, Connector
ABCD	407B	4810JJ0003A	Bracket, Motor
ABCD	408A	5300JK1005D	Heater, Sheath
BCD	409B	6912JB2004K	Lamp, Incandescent
A	409B	6912JK2002C	Lamp, Incandescent
ABCD	409D	3034JA1009A	Reflector, Lamp
ABCD	410A	6621JK2002D	Drawing, Assembly
BCD	410G	0CZZJB2012K	Capacitor, Film, Box

Parts List, continued

Model	LOC.	PART #	Description
A	410G	0CZZJB2014D	Capacitor, Film, Box
BCD	410H	J513-00012P	Capacitor, Film, Box
A	410H	J513-00012Z	Capacitor, AL, Radial
BCD	410J	3111JB1017J	Case Assembly, PCB
ABCD	411A	6411JB1013Y	Power Cord Assembly
ABCD	420A	4681JB1029D	Motor, DC
ABCD	500A	6871JB1431A	PCB Assembly, Main
ABCD	501A	6871JB1432A	PCB Assembly, Display
ABCD	501F	3551JA2144B	Cover Assembly, PCB
ABCD	503D	3110JJ1014A	Case, Lamp
ABCD	600A	5989JB0001A	Ice Maker Assembly, Kit
ABCD	603A	4004JA3002A	Clip
ABCD	603B	4930JA3091A	Holder, Bracket
BCD	603C	4004JA3002A	Clip
BCD	603D	4930JA3091A	Holder, Bracket
BCD	606A	4681JA1006D	Motor, AC
ABCD	606A	6421JA3001N	Solenoid Assembly
ABCD	607A	4931JA3005B	Holder Assembly, Bracket
ABCD	610A	3550JA2247A	Cover, Sensor
ABCD	610B	6500JB1003G	Sensor
ABCD	610C	6500JB2002N	Sensor
ABCD	611A	5075JA1044A	Bucket Assembly, Ice
ABCD	615A	4838JA2003A	Tank, Water
ABCD	616D	5210JA3005L	Tube, Plastic
ABCD	616F	5210JA3004U	Tube, Plastic
ABCD	616G	5210JA3005W	Tube, Plastic
ABCD	616H	4932JA3009A	Connector, Tube
ABCD	617A	4970JA3004J	Spring
ABCD	619A	5220JB2009A	Valve, Water
BCD	619B	5220JB2008A	Valve, Water
ABCD	623B	5006JJ2009A	Cap, Cover
ABCD	624A	5231JA2006A	Filter Assembly, Water
BCD	624B	5230JA2003A	Filter, Head
ABCD	624C	3550JD1128A	Cover, Filter
A	624D	5230JA2003A	Filter, Head
ABCD	625A	3550JA2184A	Cover, Tube
ABCD	626A	3550JA2279A	Cover, Filter
ABCD	627A	4930JA3054A	Holder, Pipe
ABCD	630A	3581JA1182A	Door Assembly, Freeze Room
ABCD	630B	5433JA2071A	Door Foam Assembly, Home Bar

Parts List, continued

Model	LOC.	PART #	Description
ABCD	630C	4987JA2012A	Gasket Assembly, Door
ABCD	630D	3650JD1160A	Handle, Home Bar
ABCD	630E	3806JA2119A	Decor, Handle
ABCD	630F	4775JA2101A	Hinge Assembly, Upper
ABCD	630G	4775JA2102A	Hinge Assembly, Lower
ABCD	630H	3550JA3188A	Cover, Home Bar
ABCD	630J	4987JA3025A	Gasket Assembly, Door
ABCD	630K	4970JA3044A	Spring
ABCD	630L	4970JA3045A	Spring
ABCD	630M	4860JA3010A	Clamp
ABCD	630N	4860JA3010B	Clamp
ABCD	B01	4000W4A003A	Screw, Customzied
CD	B02	1STZJA3004D	Screw, Customzied
AB	B02	1STZJA3004Q	Screw, Customzied
ABCD	B03	1STZJA3004F	Screw, Customzied
ABCD	B04	1BZZJA2002A	Bolt, Common
BCD	B06	1SBZJA3004L	Screw, Customzied
AB	B06	1SBZJA3004W	Screw, Customzied
BCD	S01	4J00415D	Screw, Customzied
ABCD	S03	4J01424B	Screw, Customzied
ABCD	S08	1SZZJJ3005E	Screw, Customzied
A	S10	1SBZJA3004L	Screw, Customzied
ABCD	S11	3J05696W	Screw, Customzied
ABCD	S12	1SZZJJ3005E	Screw, Customzied
CD	S14	1SZZJJ3010B	Screw, Customzied
AB	S14	1SZZJJ3010D	Screw, Customzied
ABCD	S15	4000W4A003A	Screw, Customzied
ABCD	S16	4J00415D	Screw, Customzied
ABCD	S17	4J00415D	Screw, Customzied
ABCD	S18	4J00415D	Screw, Customzied
ABCD	S19	4J00415D	Screw, Customzied
ABCD	S20	1SZZJA3016A	Screw, Customzied
ABCD	S25	1SZZJA3011D	Screw, Customzied
C	S25	5078JJ1035A	Cap, Decor Refrigerator
BCD	S34	1SZZJA3011B	Screw, Customzied
ABCD	S34	FAB30025701	Screw, Customzied

NOTES

APPENDIX A

CONVERSION TABLE *Ready Reference*

Termperature Conversion Chart				
Temp ^{O}F	**equivalent temp ^{O}C**		**Temp ^{O}C**	**equivalent temp ^{O}F**
0	-17.8		0	32
1	-17.2		1	33.8
2	-16.7		2	35.6
3	-16.1		3	37.4
4	-15.6		4	39.2
5	-15.0		5	41
6	-14.4		6	42.8
7	-13.9		7	44.6
8	-13.3		8	46.4
9	-12.8		9	48.2
10	-12.2		10	50
11	-11.7		11	51.8
12	-11.1		12	53.6
13	-10.6		13	55.4
14	-10.0		14	57.2
15	-9.4		15	59
16	-8.9		16	60.8
17	-8.3		17	62.6
18	-7.8		18	64.4
19	-7.2		19	66.2
20	-6.7		20	68
21	-6.1		21	69.8
22	-5.6		22	71.6
23	-5.0		23	73.4
24	-4.4		24	75.2
25	-3.9		25	77
26	-3.3		26	78.8
27	-2.8		27	80.6
28	-2.2		28	82.4
29	-1.7		29	84.2
30	-1.1		30	86
31	-0.6		31	87.8
32	0.0		32	89.6
33	0.6		33	91.4
34	1.1		34	93.2
35	1.7		35	95
36	2.2		36	96.8
37	2.8		37	98.6
38	3.3		38	100.4
39	3.9		39	102.2
40	4.4		40	104

For temperatures beyond the range of this chart the formulae are:

^{O}F to ^{O}C

$^{O}F = 9/5 (^{O}C+32)$

^{O}C to ^{O}F

$^{O}C = 5/9 (^{O}F-32)$

APPENDIX B

This section contains copies of service bulletins that have been issued by the factory and are applicable to LFX21960 and LFX25960 French Door refrigerators. It is current as of the time of printing Copies of files attached to the service bulletins are also included.

Servicers of LG products should regularly check for updated service bulletins to be certain that they have the latest information on parts and servicing procedures for the product they are repairing. Service bulletins can be checked online using GCSC (aic.lgservice.com) or using CS Academy (www.lgcsacademy.com).

SERVICE BULLETIN

LG Electronics

No. : 0REF20080304
Date : 2008-04-27

Factory	Factory Model	Suffix	Model No.	Factory	Factory Model	Suffix	Model No.
EKHQ	GR-B218JSAA	ASTCLGA	L8FC21755ST	EKHQ	GR-B218JSCA	ASTCLGA	LFC21760ST
EKHQ	GR-B218JTAA	ATICLGA	L8FC21755TT	EKHQ	GR-B218JVAA	AWBCLGA	L8FC21755SB
EKHQ	GR-B258JBAA	ASWCLGA	L8FC25750WW	EKHQ	GR-B258JQCA	ASWCLGA	LFC25760SW
EKHQ	GR-B258JSAA	ASTCLGA	L8FC25750ST	EKHQ	GR-B258JSCA	ASTCLGA	LFC25760ST
EKHQ	GR-B258JTAA	ATICLGA	L8FC25750TT	EKHQ	GR-B258JTCA	ANTCLGA	LFC25760TT
EKHQ	GR-B258JTCA	ATICLGA	LFC25760TT	EKHQ	GR-B258JVAA	ASWCLGA	L8FC25750SW
EKHQ	GR-B258JVAA	AWBCLGA	L8FC25750SB	EKHQ	GR-B258JVCA	AWBCLGA	LFC25760SB
EKHQ	GR-F218JLTA	ABICSER	75194	EKHQ	GR-F218JLTA	ASWCSER	75192
EKHQ	GR-F218JLTA	AWBCSER	75199	EKHQ	GR-F218JQKA	ABICSER	77194
EKHQ	GR-F218JQKA	ASWCSER	77192	EKHQ	GR-F218JQKA	AWBCSER	77199
EKHQ	GR-F218JSKA	ASTCLGA	LFD21860ST	EKHQ	GR-F218JSKA	ASTCSER	77193
EKHQ	GR-F218JSTA	ASTCLGA	L8FD21855ST	EKHQ	GR-F218JSTA	ASTCSER	75193
EKHQ	GR-F218JTKA	ATICSER	77196	EKHQ	GR-F218JTTA	ATICSER	75196
EKHQ	GR-F258JBTA	ASWCLGA	L8FD25850WW	EKHQ	GR-F258JLTA	ABICSEF	75554
EKHQ	GR-F258JLTA	ABICSER	75544	EKHQ	GR-F258JLTA	ASWCSEF	75552
EKHQ	GR-F258JLTA	ASWCSER	75542	EKHQ	GR-F258JLTA	AWBCSEF	75559
EKHQ	GR-F258JLTA	AWBCSER	75549	EKHQ	GR-F258JQKA	ABICSEF	77554
EKHQ	GR-F258JQKA	ABICSER	77544	EKHQ	GR-F258JQKA	ASWCLGA	LFD25860SW
EKHQ	GR-F258JQKA	ASWCSEF	77552	EKHQ	GR-F258JQKA	ASWCSER	77542
EKHQ	GR-F258JQKA	AWBCSEF	77559	EKHQ	GR-F258JQKA	AWBCSER	77549
EKHQ	GR-F258JSKA	ASTCLGA	LFD25860ST	EKHQ	GR-F258JSKA	ASTCSEF	77553
EKHQ	GR-F258JSKA	ASTCSER	77543	EKHQ	GR-F258JSTA	ASTCLGA	LRFD25850ST
EKHQ	GR-F258JSTA	ASTCSEF	75553	EKHQ	GR-F258JSTA	ASTCSER	75543
EKHQ	GR-F258JTKA	ANTCLGA	LFD25860TT	EKHQ	GR-F258JTKA	ATICLGA	LFD25860TT
EKHQ	GR-F258JTKA	ATICSEF	77556	EKHQ	GR-F258JTKA	ATICSER	77546
EKHQ	GR-F258JTTA	ATICLGA	L8FD25850TT	EKHQ	GR-F258JTTA	ATICSEF	75556
EKHQ	GR-F258JTTA	ATICSER	75546	EKHQ	GR-F258JVKA	AWBCLGA	LFD25860SB
EKHQ	GR-F258JVTA	ASWCLGA	L8FD25850SW	EKHQ	GR-F258JVTA	AWBCLGA	L8FD25850SB
EKHQ	GR-L218SSKA	ASTCLGA	LFX21960ST	EKHQ	GR-L258SQKA	ASWCLGA	LFX25960SW
EKHQ	GR-L258SQLA	ABICSER	77564	EKHQ	GR-L258SQLA	ASWCSEF	77572
EKHQ	GR-L258SQLA	ASWCSER	77562	EKHQ	GR-L258SQLA	AWBCSEF	77579
EKHQ	GR-L258SQLA	AWBCSER	77569	EKHQ	GR-L258SSJ	ASTCLGA	LFX25960ST
EKHQ	GR-L258SSKA	ASTCLGA	LFX25960ST	EKHQ	GR-L258SSLA	ASTCSEF	77573
EKHQ	GR-L258SSLA	ASTCSER	77563	EKHQ	GR-L258STKA	ATICLGA	LFX25960TT
EKHQ	GR-L258SVKA	AWBCLGA	LFX25960SB				

Buyer Name	Buyer Code	Buyer Name	Buyer Code	Buyer Name	Buyer Code
LGEUS	US000001	LGEAI	US000002	SEARS HOLDINGS CORPORATION	US006712

DATE	2008-02-28	EFFECTIVE FROM(SERIAL NO.)	803KR**00001
	Change of Left Can Shelf on 21 and 25 ft French Door Refrigerators		

French Door Cam Lever.pdf

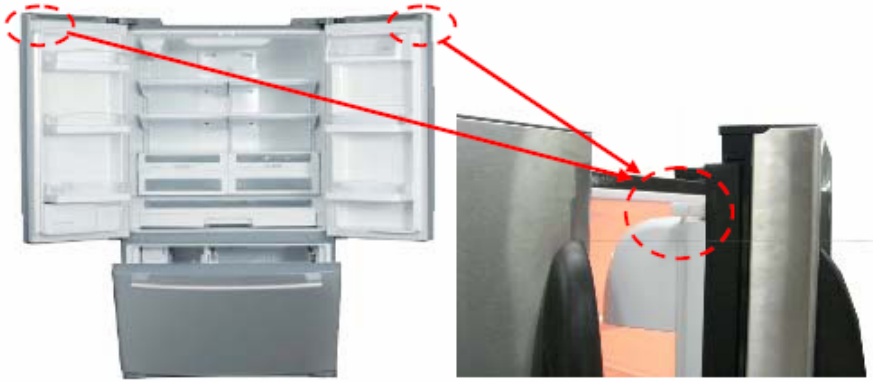
** FILE THIS SERVICE BULLETIN WITH YOUR SERVICE MANUAL

NOTE(**) : INTERCHANGEABILITY CODE				KEY-WORD CODE
	Parts	Set		
A	Original	Early	Original or new parts may be used in early or late production sets.	1. To improve performance
	New	Late	Use original parts until exhausted, then stock new parts.	2. To improve productivity
B	Original	Early	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.	3. To improve reliability
	New	Late		4. Change of material or dimension
C	Original	Early	New parts only may be used in early or late production sets. Stock new parts.	5. Addition
	New	Late		6. Deletion
D	Original	Early	Original parts only may be used in early production sets. New parts may be used in late production sets only. Stock original and new parts.	7. Correction
	New	Late		

CHIEF ENGINEER, Factory. *approved*

3 Door Bottom Freezer – Cam Shaft

◇ Cam Shaft Information



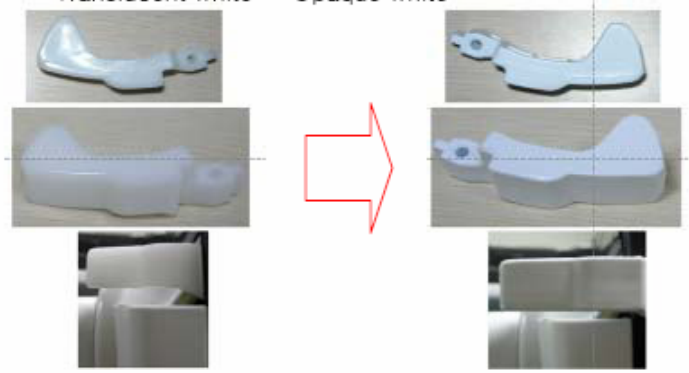
Loc No.	Part No.	Remark
234A	4430JJ2004A	for Right Door
234B	4430JJ2004B	for Left Door

Location – Left & Right Gaskets in the Fresh Food Compartment
Function– ① To prevent door opening (role of Stopper)
② To prevent simultaneous door opening

◇ Changed Cam Shaft

① Material was changed to prevent damage to door gaskets when both doors were opened simultaneously.
N109-LD (POM) → TE-24S (POM)

② Color changed with the material change
Translucent white → Opaque white



◇ Changed Time

March 1, 2006 production (Serial No. 603KR**00001)

◇ Service Plan

When a cam shaft gets damaged, it should be replaced as per this service bulletin. A broken cam shaft does not require a gasket replacement or a door replacement.

◇ How to replace

See next page.

Pic. 1

Pic. 2

Pull out the upper part of the gasket as in picture 5.

Pic. 3

Pic. 4

4. Carefully bend the gasket out of the way and remove the Phillips screw as shown in picture 6.

Pic. 5

Pic. 6

5. After removing the screw, pull out the Cam Shaft to complete th disassembly process.

Pic. 7

The reassembly order and method are the reverse of disassembly. Caution. The right and left cams are similar, but NOT interchangeable. Be sure to install the correct part, properly aligned.

Left Door

Right Door

Replace both (left, right) parts as per the above instructions.

SERVICE BULLETIN

LG Electronics

No. : CREF20080805
Date : 2008-04-27

Model

Factory	Factory Model	Suffix	Model No.	Factory	Factory Model	Suffix	Model No.
EKHQ	GR-B218JSAA	ASTCLGA	LRFC21755ST	EKHQ	GR-B218JSCA	ASTCLGA	LFC21760ST
EKHQ	GR-B218JTAA	ATICLGA	LRFC21755TT	EKHQ	GR-B218JVAA	AWBCLGA	LRFC21755SB
EKHQ	GR-B258JBAA	ASWCLGA	LRFC25750WW	EKHQ	GR-B258JQCA	ASWCLGA	LFC25760SW
EKHQ	GR-B258JSAA	ASTCLGA	LRFC25750ST	EKHQ	GR-B258JSCA	ASTCLGA	LFC25760ST
EKHQ	GR-B258JTAA	ATICLGA	LRFC25750TT	EKHQ	GR-B258JTCA	ANTCLGA	LFC25760TT
EKHQ	GR-B258JTCA	ATICLGA	LFC25760TT	EKHQ	GR-B258JVAA	ASWCLGA	LRFC25750SW
EKHQ	GR-B258JVAA	AWBCLGA	LRFC25750SB	EKHQ	GR-B258JVCA	AWBCLGA	LFC25760SB
EKHQ	GR-F218JLTA	ABICSER	75194	EKHQ	GR-F218JLTA	ASWCSER	75192
EKHQ	GR-F218JLTA	AWBCSER	75199	EKHQ	GR-F218JQKA	ABICSER	77194
EKHQ	GR-F218JQKA	ASWCSER	77192	EKHQ	GR-F218JQKA	AWBCSER	77199
EKHQ	GR-F218JSKA	ASTCLGA	LFD21860ST	EKHQ	GR-F218JSKA	ASTCSER	77193
EKHQ	GR-F218JSTA	ASTCLGA	LRFD21855ST	EKHQ	GR-F218JSTA	ASTCSER	75193
EKHQ	GR-F218JTKA	ATICSER	77196	EKHQ	GR-F218JTTA	ATICSER	75196
EKHQ	GR-F258JBTA	ASWCLGA	LRFD25850WW	EKHQ	GR-F258JLTA	ABICSEF	75554
EKHQ	GR-F258JLTA	ABICSER	75544	EKHQ	GR-F258JLTA	ASWCSEF	75552
EKHQ	GR-F258JLTA	ASWCSER	75542	EKHQ	GR-F258JLTA	AWBCSEF	75559
EKHQ	GR-F258JLTA	AWBCSER	75549	EKHQ	GR-F258JQKA	ABICSEF	77554
EKHQ	GR-F258JQKA	ABICSER	77544	EKHQ	GR-F258JQKA	ASWCLGA	LFD25860SW
EKHQ	GR-F258JQKA	ASWCSEF	77552	EKHQ	GR-F258JQKA	ASWCSER	77542
EKHQ	GR-F258JQKA	AWBCSEF	77559	EKHQ	GR-F258JQKA	AWBCSER	77549
EKHQ	GR-F258JSKA	ASTCLGA	LFD25860ST	EKHQ	GR-F258JSKA	ASTCSEF	77553
EKHQ	GR-F258JSKA	ASTCSER	77543	EKHQ	GR-F258JSTA	ASTCLGA	LRFD25850ST
EKHQ	GR-F258JSTA	ASTCSEF	75553	EKHQ	GR-F258JSTA	ASTCSER	75543
EKHQ	GR-F258JTKA	ANTCLGA	LFD25860TT	EKHQ	GR-F258JTKA	ATICLGA	LFD25860TT
EKHQ	GR-F258JTKA	ATICSEF	77556	EKHQ	GR-F258JTKA	ATICSER	77546
EKHQ	GR-F258JTTA	ATICLGA	LRFD25850TT	EKHQ	GR-F258JTTA	ATICSEF	75556
EKHQ	GR-F258JTTA	ATICSER	75546	EKHQ	GR-F258JVKA	AWBCLGA	LFD25860SB
EKHQ	GR-F258JVTA	ASWCLGA	LRFD25850SW	EKHQ	GR-F258JVTA	AWBCLGA	LRFD25850SB
EKHQ	GR-L218SSKA	ASTCLGA	LFX21960ST	EKHQ	GR-L258SQKA	ASWCLGA	LFX25960SW
EKHQ	GR-L258SQLA	ABICSER	77564	EKHQ	GR-L258SQLA	ASWCSEF	77572
EKHQ	GR-L258SQLA	ASWCSER	77562	EKHQ	GR-L258SQLA	AWBCSEF	77579
EKHQ	GR-L258SQLA	AWBCSER	77569	EKHQ	GR-L258SSJ	ASTCLGA	LFX25960ST
EKHQ	GR-L258SSKA	ASTCLGA	LFX25960ST	EKHQ	GR-L258SSLA	ASTCSEF	77573
EKHQ	GR-L258SSLA	ASTCSER	77563	EKHQ	GR-L258STKA	ATICLGA	LFX25960TT
EKHQ	GR-L258SVKA	AWBCLGA	LFX25960SB				

Buyer

Buyer Name	Buyer Code	Buyer Name	Buyer Code	Buyer Name	Buyer Code
LGEUS	US000001	LGEAI	US000002	SEARS HOLDINGS CORPORATION	US006712

EFFECTIVE DATE	2008-02-28	EFFECTIVE FROM(SERIAL NO.)	803KR**00001
Subject	Change of Right Cam Shaft on 21 and 25 ft French Door Refrigerators		

No.	Loc No.	Before Change		After Change		Note	K-Code	Remark
		Part No	DESC./SPEC.	Part No	DESC./SPEC.			
1	234A		/	4430JJ2004A	Cam Shaft / MOLD POM PBT NATURAL OD48.4 ANG59.5 BRAVO-PJT	C	1	

Reason Of Change

To enable Cam Shaft replacement as a service item rather than replacing the entire Gasket Holder Assembly.

PLEASE NOTE that this Service Bulletin includes an attachment in Adobe Acrobat (pdf) format. If you have trouble downloading or viewing this attachment, please contact our GCSC administrator. Send an email to: GCSCadmin@lge.com.

French Door Cam Lever.pdf

	NOTE(**) : INTERCHANGEABILITY CODE		KEY-WORD CODE
	Parts Set		1. To improve performance
A	Original → Early New → Late	Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.	2. To improve productivity
B	Original → Early New → Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.	3. To improve reliability 4. Change of material or dimension
C	Original → Early New → Late	New parts only may be used in early or late production sets. Stock new parts.	5. Addition 6. Deletion
D	Original → Early New → Late	Original parts only may be used in early production sets. New parts may be used in late production sets only. Stock original and new parts.	7. Correction

CHIEF ENGINEER , Factory. approved

SERVICE BULLETIN

LG Electronics

No. : CREF20080652
Date : 2008-08-08

Model	Factory / Factory Model / Suffix / Model No.: EKHQ GR-L218SSKA ASTCLGA LFX21960ST EKHQ GR-L258SQKA ASWCLGA LFX25960SW EKHQ GR-L258SSKA ASTCLGA LFX25960ST EKHQ GR-L258SVKA AWBCLGA LFX25960SB EKHQ GR-L258SQJ ASWCLGA LFX25960SW EKHQ GR-L258SSJ ASTCLGA LFX25960ST EKHQ GR-L258STKA ATICLGA LFX25960TT
	Buyer Name / Buyer Code: LGEUS US000001 LGEAI US000002
EFFECTIVE DATE	2008-08-08 — EFFECTIVE FROM(SERIAL NO.) 808KR**00001
Subject	Change of Ice Room Door and Lower Hinge on LFX21960 and LFX25960 refrigerators

o.	Before Change		After Change		Note	K-Code	Remark
	Part No	DESC./SPEC.	Part No	DESC./SPEC.			
630B	5433JA2071A	Door Foam Assembly,Home Bar / BRAVO2-PJT ICE,DOOR	5433JA2071A	Door Foam Assembly,Home Bar / BRAVO2-PJT ICE,DOOR	C	3	
630G	4775JA2102A	Hinge Assembly,Lower / BRAVO2-PJT ICE DOOR	4775JA2102A	Hinge Assembly,Lower / BRAVO2-PJT ICE DOOR	A	3	

Please note that this service bulletin includes an attached file in Adobe Acrobat (.pdf) format. Adobe Acrobat Reader is a free downloadable program from www.Adobe.com

om Door.pdf

** FILE THIS SERVICE BULLETIN WITH YOUR SERVICE MANUAL

NOTE(**) : INTERCHANGEABILITY CODE			KEY-WORD CODE
	Parts / Set		1. To improve performance
A	Original → Early, New → Late (crossed)	Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.	2. To improve productivity
B	Original → Early, New → Early/Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.	3. To improve reliability 4. Change of material or dimension
C	New → Early/Late	New parts only may be used in early or late production sets. Stock new parts.	5. Addition 6. Deletion
D	Original → Early, New → Late	Original parts only may be used in early production sets. New parts may be used in late production sets only. Stock original and new parts.	7. Correction

CHIEF ENGINEER , Factory. *approved*

Change of Ice Room Door (Door Foam Assembly, Home Bar type (LFX21960ST, LFX25960※)

SVC Item	Location No	Before Change	After Change
Door Foam Assembly, Home Bar	630B 630G		

Note: A design change to the Ice Room Door and the Lower Hinge went into effect with models produced in June, 2006. If the Ice Room Door (P/N 5433JA2071A) must be replaced on earlier units, the Lower Hinge (P/N 4775JA2102A) should also be replaced. If the Lower Hinge must be replaced, it is not necessary to replace the door.

SERVICE BULLETIN

LG Electronics

No. : CREF20080415
Date : 2008-11-28

Model

Factory	Factory Model	Suffix	Model No.	Factory	Factory Model	Suffix	Model No.
EKHQ	GR-B218JSAA	ASTCLGA	LRFC21755ST	EKHQ	GR-B218JSCA	ASTCLGA	LFC21760ST
EKHQ	GR-B218JTAA	ATICLGA	LRFC21755TT	EKHQ	GR-B218JVAA	AWBCLGA	LRFC21755SB
EKHQ	GR-B258JBAA	ASWCLGA	LRFC25750WW	EKHQ	GR-B258JQCA	ASWCLGA	LFC25760SW
EKHQ	GR-B258JSAA	ASTCLGA	LRFC25750ST	EKHQ	GR-B258JSCA	ASTCLGA	LFC25760ST
EKHQ	GR-B258JTAA	ATICLGA	LRFC25750TT	EKHQ	GR-B258JTCA	ANTCLGA	LFC25760TT
EKHQ	GR-B258JTCA	ATICLGA	LFC25760TT	EKHQ	GR-B258JVAA	ASWCLGA	LRFC25750SW
EKHQ	GR-B258JVAA	AWBCLGA	LRFC25750SB	EKHQ	GR-B258JVCA	AWBCLGA	LFC25760SB
EKHQ	GR-F218JLTA	ABICSER	75194	EKHQ	GR-F218JLTA	ASWCSER	75192
EKHQ	GR-F218JLTA	AWBCSER	75199	EKHQ	GR-F218JQKA	ABICSER	77194
EKHQ	GR-F218JQKA	ASWCSER	77192	EKHQ	GR-F218JQKA	AWBCSER	77199
EKHQ	GR-F218JSKA	ASTCLGA	LFD21860ST	EKHQ	GR-F218JSKA	ASTCSER	77193
EKHQ	GR-F218JSTA	ASTCLGA	LRFD21855ST	EKHQ	GR-F218JSTA	ASTCSER	75193
EKHQ	GR-F218JTKA	ATICSER	77196	EKHQ	GR-F218JTTA	ATICSER	75196
EKHQ	GR-F258JBTA	ASWCLGA	LRFD25850WW	EKHQ	GR-F258JLTA	ABICSEF	75554
EKHQ	GR-F258JLTA	ABICSER	75544	EKHQ	GR-F258JLTA	ASWCSEF	75552
EKHQ	GR-F258JLTA	ASWCSER	75542	EKHQ	GR-F258JLTA	AWBCSEF	75559
EKHQ	GR-F258JLTA	AWBCSER	75549	EKHQ	GR-F258JQKA	ABICSEF	77554
EKHQ	GR-F258JQKA	ABICSER	77544	EKHQ	GR-F258JQKA	ASWCLGA	LFD25860SW
EKHQ	GR-F258JQKA	ASWCSEF	77552	EKHQ	GR-F258JQKA	ASWCSER	77542
EKHQ	GR-F258JQKA	AWBCSEF	77559	EKHQ	GR-F258JQKA	AWBCSER	77549
EKHQ	GR-F258JSKA	ASTCLGA	LFD25860ST	EKHQ	GR-F258JSKA	ASTCSEF	77553
EKHQ	GR-F258JSKA	ASTCSER	77543	EKHQ	GR-F258JSTA	ASTCLGA	LRFD25850ST
EKHQ	GR-F258JSTA	ASTCSEF	75553	EKHQ	GR-F258JSTA	ASTCSER	75543
EKHQ	GR-F258JTKA	ANTCLGA	LFD25860TT	EKHQ	GR-F258JTKA	ATICLGA	LFD25860TT
EKHQ	GR-F258JTKA	ATICSEF	77556	EKHQ	GR-F258JTKA	ATICSER	77546
EKHQ	GR-F258JTTA	ATICLGA	LRFD25850TT	EKHQ	GR-F258JTTA	ATICSEF	75556
EKHQ	GR-F258JTTA	ATICSER	75546	EKHQ	GR-F258JVKA	AWBCLGA	LFD25860SB
EKHQ	GR-F258JVTA	ASWCLGA	LRFD25850SW	EKHQ	GR-F258JVTA	AWBCLGA	LRFD25850SB
EKHQ	GR-L218SSKA	ASTCLGA	LFX21960ST	EKHQ	GR-L258SQJ	ASWCLGA	LFX25960SW
EKHQ	GR-L258SQKA	ASWCLGA	LFX25960SW	EKHQ	GR-L258SQLA	ABICSER	77564
EKHQ	GR-L258SQLA	ASWCSEF	77572	EKHQ	GR-L258SQLA	ASWCSER	77562
EKHQ	GR-L258SQLA	AWBCSEF	77579	EKHQ	GR-L258SQLA	AWBCSER	77569
EKHQ	GR-L258SSJ	ASTCLGA	LFX25960ST	EKHQ	GR-L258SSKA	ASTCLGA	LFX25960ST
EKHQ	GR-L258SSLA	ASTCSEF	77573	EKHQ	GR-L258SSLA	ASTCSER	77563
EKHQ	GR-L258STKA	ATICLGA	LFX25960TT	EKHQ	GR-L258SVKA	AWBCLGA	LFX25960SB

Buyer

Buyer Name	Buyer Code	Buyer Name	Buyer Code	Buyer Name	Buyer Code
LGEUS	US000001	LGEAI	US000002	SEARS HOLDINGS CORPORATION	US006712

EFFECTIVE DATE	2008-11-27	EFFECTIVE FROM(SERIAL NO.)	
Subject	Change of geared rail bar material on bottom mount freezer models		

No.	Loc No.	Before Change		After Change		Note	K-Code
		Part No	DESC./SPEC.	Part No	DESC./SPEC.		
1	250a	4270JA3009H	Bar / EXTRUSION HSWR MSWR SILVER T6.0 673MM 06 3D B/F M/C FaMy3	4270JA3009H	Bar / EXTRUSION HSWR MSWR SILVER T6.0 673MM 06 3D B/F M/C FaMy3	C	4

Reason Of Change

Some of the bars that connect the two gears (Geared Rail Bar) in drawer type, bottom mount freezers, have begun to develop oxidation (rust). Therefor, the finish of the bar has been changed from a Ni-Cr (Nickel-Chrome)

This Service Bulletin shows how to replace the Geared Rail Bar.

Geared Rail Bar Svc.pdf

** FILE THIS SERVICE BULLETIN WITH YOUR SERVICE MANUAL.

NOTE(**) : INTERCHANGEABILITY CODE			KEY-WORD CODE
	Parts Set		
A	Original → Early New → Late	Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.	1. To improve performance 2. To improve productivity 3. To improve reliability 4. Change of material or dimension 5. Addition 6. Deletion 7. Correction
B	Original → Early New → Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.	
C	Original → Early New → Late	New parts only may be used in early or late production sets. Stock new parts.	
D	Original → Early New → Late	Original parts only may be used in early production sets. New parts may be used in late production sets only. Stock original and new parts.	

CHIEF ENGINEER , Factory. approved

HOW TO REMOVE AND REINSTALL THE GEARED RAIL BARS

Step 1) Open the freezer door.

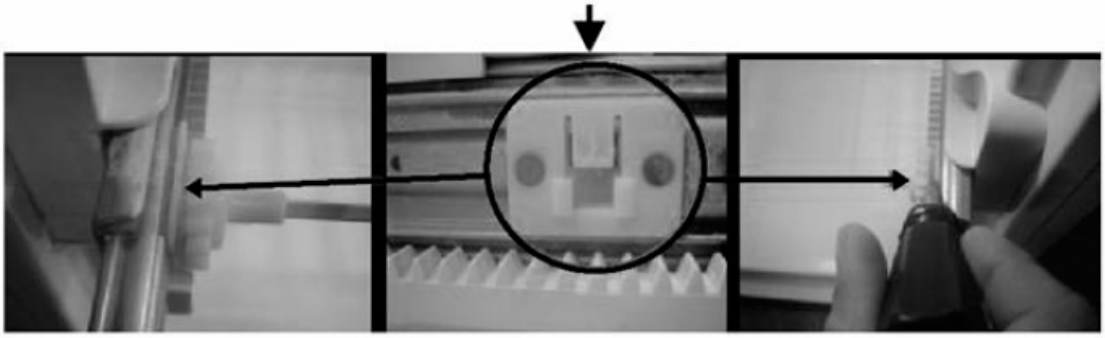
Step 2) Remove the lower basket.

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

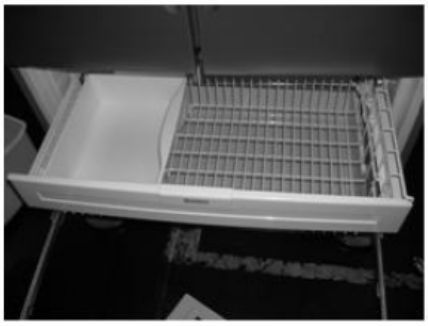
Step 4) Lift the freezer door up to unhook it from the rail support and remove.
Pull both rails to full extension.

Step 5) First: Insert a flat blade screwdriver between the gear and the tab on the mounting bracket.
With the tab depressed, lift up on the gear assembly.
Second: Remove the center rail.
Third: Use the screwdriver to depress the tab on the right side and remove the right gear assembly.

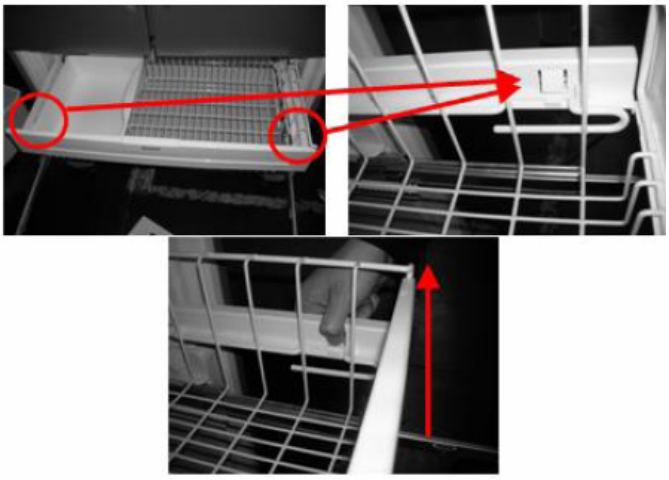
NOTE: THIS TAB MUST BE PUSHED IN TO RELEASE THE GEAR.



Step 6) Pull out the tray.

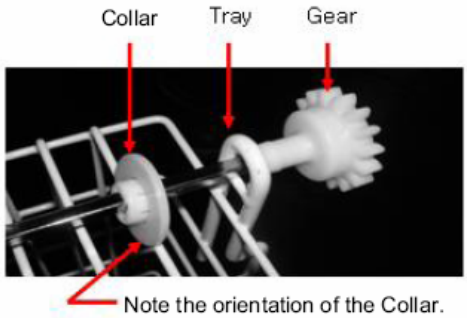


Step 7) Push the tab on each siderail to release the tray.
Lift the tray from the rails.

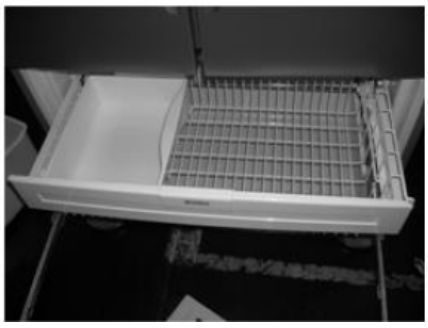


Step 8) a. With a flat blade screwdriver placed between the locking collar and the tray, pry the collar from the gear assembly.
b. Follow the same procedure for the other side.

Step 9) Replace the bar with care. Note the position of the Collar, Tray, and Gear in the picture below.



Step 10) Reinstall the tray.



STEP 11) Reinstall the right side gear into the clip.



STEP 12) Insert the bar into the right side gear.

STEP 13) Insert the bar into the left gear and insert the gear into the clip. (Gears do not have to be straight across from each other.)

STEP 14) 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 15) Reinstall the freezer door by inserting the rail tabs into the guide rail.

STEP 16) Reinstall the two screws into the guide rails (one from each side).


STEP 17) Reinstall the lower basket, and close the freezer door.

SERVICE BULLETIN

LG Electronics

No. : CREF20060417
Date : 2006-12-06

Model

Factory	Factory Model	Suffix	Model No.	Factory	Factory Model	Suffix	Model No.
EKHQ	GR-B218JSCA	ASTCLGA	LFC21760ST	EKHQ	GR-B258JQCA	ASWCLGA	LFC25760SW
EKHQ	GR-B258JSCA	ASTCLGA	LFC25760ST	EKHQ	GR-B258JTCA	ANTCLGA	LFC25760TT
EKHQ	GR-B258JTCA	ATICLGA	LFC25760TT	EKHQ	GR-B258JVCA	AWBCLGA	LFC25760SB
EKHQ	GR-F218JQKA	ABICSER	77194	EKHQ	GR-F218JQKA	ASWCSER	77192
EKHQ	GR-F218JQKA	AWBCSER	77199	EKHQ	GR-F218JSKA	ASTCLGA	LFD21860ST
EKHQ	GR-F218JSKA	ASTCSER	77193	EKHQ	GR-F258JQKA	ABICSEF	77554
EKHQ	GR-F258JQKA	ABICSER	77544	EKHQ	GR-F258JQKA	ASWCLGA	LFD25860SW
EKHQ	GR-F258JQKA	ASWCSEF	77552	EKHQ	GR-F258JQKA	ASWCSER	77542
EKHQ	GR-F258JQKA	AWBCSEF	77559	EKHQ	GR-F258JQKA	AWBCSER	77549
EKHQ	GR-F258JSKA	ASTCLGA	LFD25860ST	EKHQ	GR-F258JSKA	ASTCSEF	77553
EKHQ	GR-F258JSKA	ASTCSER	77543	EKHQ	GR-F258JTKA	ANTCLGA	LFD25860TT
EKHQ	GR-F258JTKA	ATICLGA	LFD25860TT	EKHQ	GR-F258JTKA	ATICSEF	77556
EKHQ	GR-F258JTKA	ATICSER	77546	EKHQ	GR-F258JVKA	AWBCLGA	LFD25860SB
EKHQ	GR-F258JVTA	ASWCLGA	LRFD25850SW	EKHQ	GR-F258JVTA	AWBCLGA	LRFD25850SB
EKHQ	GR-L218SSKA	ASTCLGA	LFX21960ST	EKHQ	GR-L258SQKA	ASWCLGA	LFX25960SW
EKHQ	GR-L258SQLA	ABICSER	77564	EKHQ	GR-L258SQLA	ASWCSEF	77572
EKHQ	GR-L258SQLA	ASWCSER	77562	EKHQ	GR-L258SQLA	AWBCSEF	77579
EKHQ	GR-L258SQLA	AWBCSER	77569	EKHQ	GR-L258SSKA	ASTCLGA	LFX25960ST
EKHQ	GR-L258SSLA	ASTCSEF	77573	EKHQ	GR-L258SSLA	ASTCSER	77563
EKHQ	GR-L258STKA	ATICLGA	LFX25960TT	EKHQ	GR-L258SVKA	AWBCLGA	LFX25960SB

Buyer

Buyer Name	Buyer Code	Buyer Name	Buyer Code	Buyer Name	Buyer Code
LGEUS	US000001	LGEAI	US000002		

EFFECTIVE DATE	2006-12-11	EFFECTIVE FROM(SERIAL NO.)	612KR00001

Subject Change the Geared Rail Bar used on the Tray, Drawer

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No.	Loc No.	Before Change		After Change		Note	K-Code	Remark
		Part No	DESC./SPEC.	Part No	DESC./SPEC.			
1	250E		/	MAK36519001	Bar / PRESS MSWR 5 MSWR S/	C	5	

Reason Of Change
To provide more stability and to match the bar컬 color to the tray.
CREF20060417 Geared Rail Bar Material.pdf

** FILE THIS SERVICE BULLETIN WITH YOUR SERVICE MANUAL

	NOTE(**) : INTERCHANGEABILITY CODE			KEY-WORD CODE
	Parts	Set		1. To improve performance
A	Original → Late New → Early		Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.	2. To improve productivity
B	Original → Late New → Early		Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.	3. To improve reliability 4. Change of material or dimension
C	Original → Late New → Early		New parts only may be used in early or late production sets. Stock new parts.	5. Addition 6. Deletion
D	Original → Late New → Early		Original parts only may be used in early production sets. New parts may be used in late production sets only. Stock original and new parts.	7. Correction

CHIEF ENGINEER , Factory. approved

SVC Bulletins

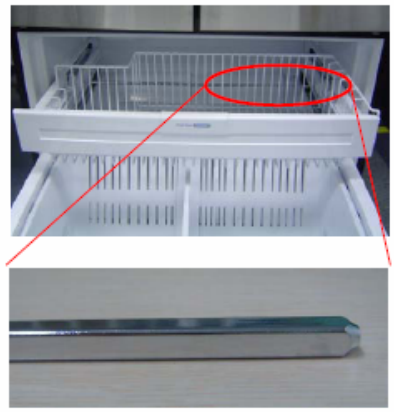
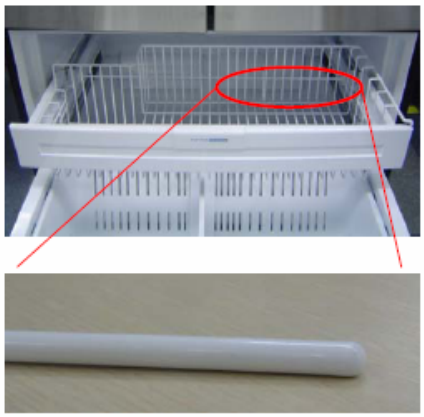
1. Subject: 3 Door Bottom Freezer Geared Rail change information

2. Applied Model: ~~GR-B218, 258/GR-F218, 258/GR-L218, 258~~*** | 3. Applicable Serial No.: 612KR00001

4. Purpose: To provide more stability and to match the bar's color to the tray

5. Information

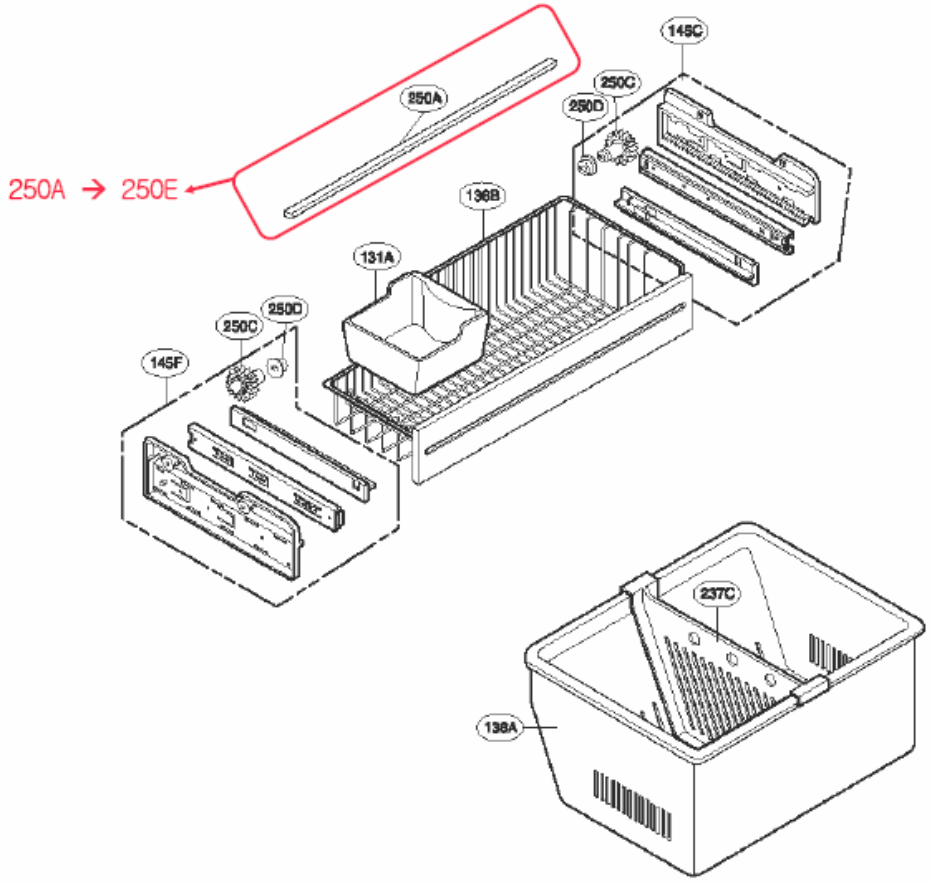
Geared Rail Bar

Before change	***After change***
	
-Shape: Square	***-Shape: Circle***
-Material: HSWR	***-Material: MSWR***
-Finishing: Zn Plating	***-Finishing: PE Coating***
-Color: Silver	***-Color: White***

6. Service: If there is a request for service on a unit produced before December, 2006 (S/N before 612KR....) that concerns the Geared Rail Bar; replace the bar with the new type.

SVC Bulletins

Geared Rail Bar Location No.



P/No: 4270JA3009H (before change) ▶ MAK36519001 (after change)

SERVICE BULLETIN

LG Electronics

No. : CREF20070421
Date : 2007-01-21

Model

Factory	Factory Model	Suffix	Model No.	Factory	Factory Model	Suffix	Model No.
EKHQ	GR-F218JLTA	ABICSER	75194	EKHQ	GR-F218JLTA	ASWCSER	75192
EKHQ	GR-F218JLTA	AWBCSER	75199	EKHQ	GR-F218JQKA	ABICSER	77194
EKHQ	GR-F218JQKA	ASWCSER	77192	EKHQ	GR-F218JQKA	AWBCSER	77199
EKHQ	GR-F218JSKA	ASTCLGA	LFD21860ST	EKHQ	GR-F218JSKA	ASTCSER	77193
EKHQ	GR-F218JSTA	ASTCLGA	LRFD21855ST	EKHQ	GR-F218JSTA	ASTCSER	75193
EKHQ	GR-F218JTKA	ATICSER	77196	EKHQ	GR-F218JTTA	ATICSER	75196
EKHQ	GR-F258JBTA	ASWCLGA	LRFD25850WW	EKHQ	GR-F258JLTA	ABICSEF	75554
EKHQ	GR-F258JLTA	ABICSER	75544	EKHQ	GR-F258JLTA	ASWCSEF	75552
EKHQ	GR-F258JLTA	ASWCSER	75542	EKHQ	GR-F258JLTA	AWBCSEF	75559
EKHQ	GR-F258JLTA	AWBCSER	75549	EKHQ	GR-F258JQKA	ABICSEF	77554
EKHQ	GR-F258JQKA	ABICSER	77544	EKHQ	GR-F258JQKA	ASWCLGA	LFD25860SW
EKHQ	GR-F258JQKA	ASWCSEF	77552	EKHQ	GR-F258JQKA	ASWCSER	77542
EKHQ	GR-F258JQKA	AWBCSEF	77559	EKHQ	GR-F258JQKA	AWBCSER	77549
EKHQ	GR-F258JSKA	ASTCLGA	LFD25860ST	EKHQ	GR-F258JSKA	ASTCSEF	77553
EKHQ	GR-F258JSKA	ASTCSER	77543	EKHQ	GR-F258JSTA	ASTCLGA	LRFD25850ST
EKHQ	GR-F258JSTA	ASTCSEF	75553	EKHQ	GR-F258JSTA	ASTCSER	75543
EKHQ	GR-F258JTKA	ANTCLGA	LFD25860TT	EKHQ	GR-F258JTKA	ATICLGA	LFD25860TT
EKHQ	GR-F258JTKA	ATICSEF	77556	EKHQ	GR-F258JTKA	ATICSER	77546
EKHQ	GR-F258JTTA	ATICLGA	LRFD25850TT	EKHQ	GR-F258JTTA	ATICSEF	75556
EKHQ	GR-F258JTTA	ATICSER	75546	EKHQ	GR-F258JVKA	AWBCLGA	LFD25860SB
EKHQ	GR-F258JVTA	ASWCLGA	LRFD25850SW	EKHQ	GR-F258JVTA	AWBCLGA	LRFD25850SB
EKHQ	GR-L218SSKA	ASTCLGA	LFX21960ST	EKHQ	GR-L258SQJ	ASWCLGA	LFX25960SW
EKHQ	GR-L258SQKA	ASWCLGA	LFX25960SW	EKHQ	GR-L258SQLA	ABICSER	77564
EKHQ	GR-L258SQLA	ASWCSEF	77572	EKHQ	GR-L258SQLA	ASWCSER	77562
EKHQ	GR-L258SQLA	AWBCSEF	77579	EKHQ	GR-L258SQLA	AWBCSER	77569
EKHQ	GR-L258SSJ	ASTCLGA	LFX25960ST	EKHQ	GR-L258SSKA	ASTCLGA	LFX25960ST
EKHQ	GR-L258SSLA	ASTCSEF	77573	EKHQ	GR-L258SSLA	ASTCSER	77563
EKHQ	GR-L258STKA	ATICLGA	LFX25960TT	EKHQ	GR-L258STWA	ATICLGA	LFX25950TT
EKHQ	GR-L258SVKA	AWBCLGA	LFX25960SB				

Buyer

Buyer Name	Buyer Code	Buyer Name	Buyer Code	Buyer Name	Buyer Code
LGEUS	US000001	LGEAI	US000002	SEARS HOLDINGS CORPORATION	US006712

EFFECTIVE DATE	2007-01-21	EFFECTIVE FROM(SERIAL NO.)	404KR**00001
Subject	3 Door Bottom Freezer Tilting Door Servicing Instructions		

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No.	Loc No.	Before Change		After Change		Note	K-Code	Remark
		Part No	DESC./SPEC.	Part No	DESC./SPEC.			
1	281C	4811JJ2015A	Bracket Assembly,Door / 4810JA1042A BRAVO-PJ	4811JJ2015A	Bracket Assembly,Door / 4810JA1042A BRAVO-PJ	A	1	

Installation Instructions

Assembly Method for Tilting Doors.

Applicable Models

LG - U.S.A	
LFD21860ST	GR-F218JSKA.ASTCLGA
LFD25860SB	GR-F258JVKA.AWBCLGA
LFD25860ST	GR-F258JSKA.ASTCLGA
LFD25860SW	GR-F258JQKA.ASWCLGA
LFD25860TT	GR-F258JTKA.ATICLGA
LFX21960ST	GR-L218SSKA.ASTCLGA
LFX25960SB	GR-L258SVKA.AWBCLGA
LFX25960ST	GR-L258SSKA.ASTCLGA
LFX25960SW	GR-L258SQKA.ASWCLGA
LFX25960TT	GR-L258STKA.ATICLGA
LRFD21855ST	GR-F218JSTA.ASTCLGA
LRFD25850SB	GR-F258JVTA.AWBCLGA
LRFD25850ST	GR-F258JSTA.ASTCLGA
LRFD25850SW	GR-F258JVTA.ASWCLGA
LRFD25850TT	GR-F258JTTA.ATICLGA
LRFD25850WW	GR-F258JBTA.ASWCLGA

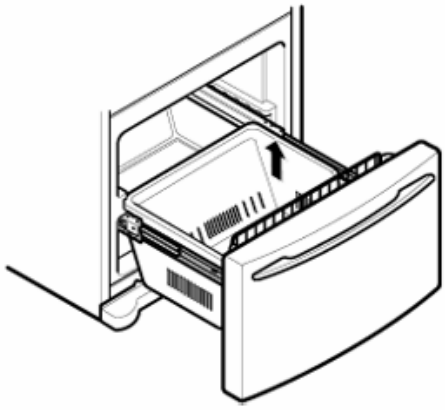
Sears - U.S.A	
75192	GR-F218JLTA.ASWCSER
75193	GR-F218JSTA.ASTCSER
75194	GR-F218JLTA.ABICSER
75196	GR-F218JTTA.ATICSER
75199	GR-F218JLTA.AWBCSER
75542	GR-F258JLTA.ASWCSER
75543	GR-F258JSTA.ASTCSER
75544	GR-F258JLTA.ABICSER
75546	GR-F258JTTA.ATICSER
75549	GR-F258JLTA.AWBCSER
75552	GR-F258JLTA.ASWCSEF
75553	GR-F258JSTA.ASTCSEF
75554	GR-F258JLTA.ABICSEF
75556	GR-F258JTTA.ATICSEF
75559	GR-F258JLTA.AWBCSEF
77192	GR-F218JQKA.ASWCSER
77193	GR-F218JSKA.ASTCSER
77194	GR-F218JQKA.ABICSER
77196	GR-F218JTKA.ATICSER
77199	GR-F218JQKA.AWBCSER
77542	GR-F258JQKA.ASWCSER
77543	GR-F258JSKA.ASTCSER
77544	GR-F258JQKA.ABICSER
77546	GR-F258JTKA.ATICSER
77549	GR-F258JQKA.AWBCSER
77552	GR-F258JQKA.ASWCSEF
77553	GR-F258JSKA.ASTCSEF
77554	GR-F258JQKA.ABICSEF
77556	GR-F258JTKA.ATICSEF
77559	GR-F258JQKA.AWBCSEF
77564	GR-L258SQLA.ABICSER
77572	GR-L258SQLA.ASWCSEF
77562	GR-L258SQLA.ASWCSER
77569	GR-L258SQLA.AWBCSER
77573	GR-L258SSLA.ASTCSEF
77579	GR-L258SQLA.AWBCSEF
77563	GR-L258SSLA.ASTCSER

LG - Canada	
LFX25960ST	GR-L258SSKA.ASTCGSC
LFD21860ST	GR-F218JSKA.ASTCGSC
LFD21860SW	GR-F218JQKA.ASWCGSC
LRFC21760ST	GR-F218JSTA.ASTCGSC
LFD25860ST	GR-F258JSKA.ASTCGSC
LRFC21760SW	GR-F218JVTA.ASWCGSC
LRFC25760ST	GR-F258JSTA.ASTCGSC

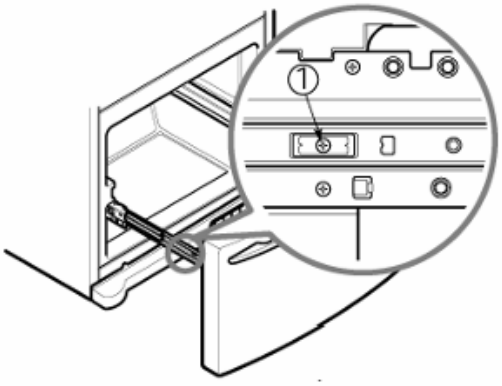
To remove and replace the freezer door, the manufacturer's recommended method is the same as printed in the Owner's Manual and Installation Card. See below.

Older Models (without a geared rail)

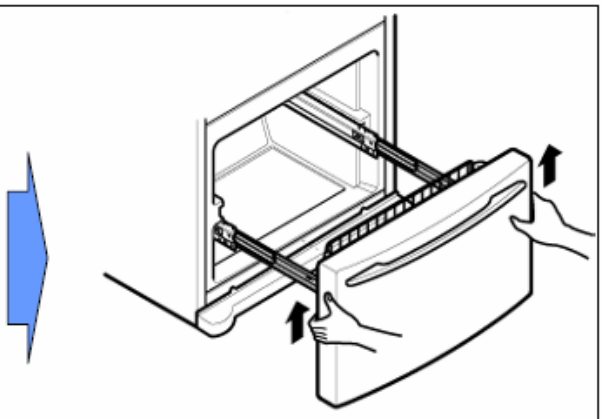
To Remove the Freezer Door



Pull the drawer out to full extension and remove the basket by lifting it up.

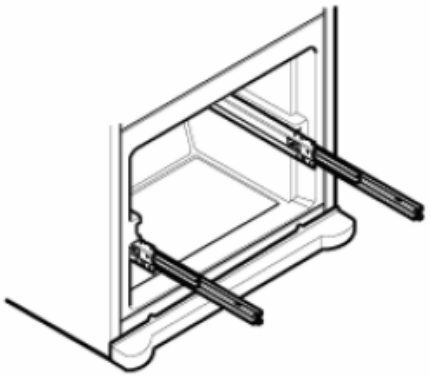


Remove one screw from each side rail.

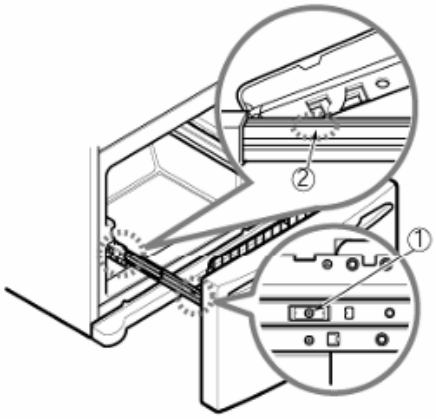


Lift the door to unhook the door support tabs from the rails.

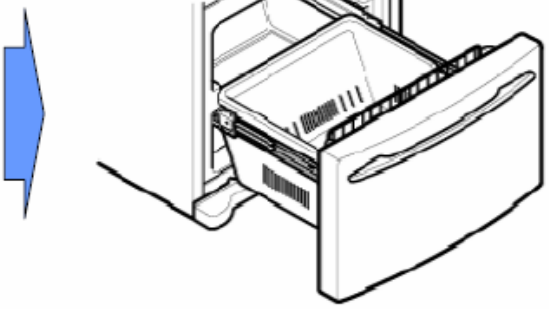
To Replace the Freezer Door



Pull both rails out to full extension.



Hook the rear door support tabs into the slots in the rails, as illustrated (2). Lower the door so the front tabs fit into the front rail slots and replace the screw (number 1 above) in each side.

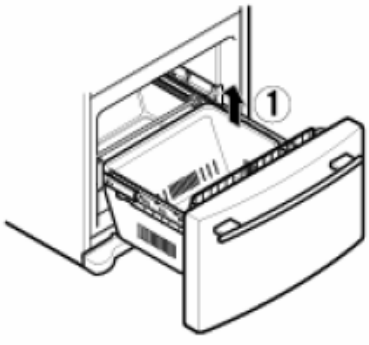


With the drawer pulled out to full extension, insert the lower basket in the rail assembly.

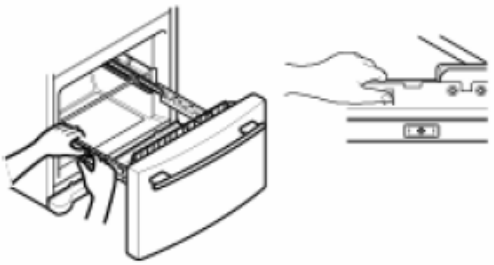
Caution: When removing the drawer, do not lift by the handle. If the handle comes off, it can damage the door and/or cause personal injury.

Newer Models (with a geared rail)

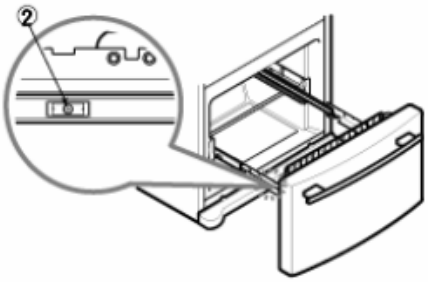
To Remove the Freezer Door



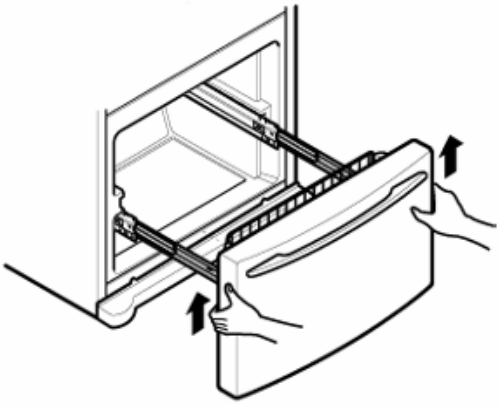
Pull the drawer out to full extension and remove the basket by lifting it up. (Note: this is easier if the door is in the tilted position.)



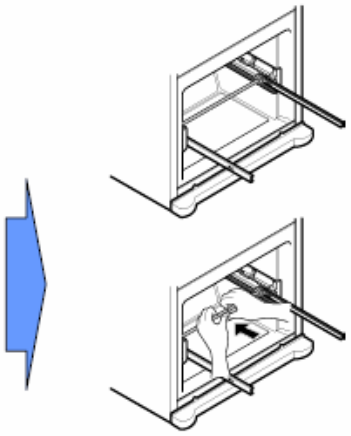
There are two tabs on each plastic rail cover. Depress these with your thumbs and pull the rail cover straight up. Repeat for the other side.



Remove one screw (no. 2 above) from the tab holding each side rail.

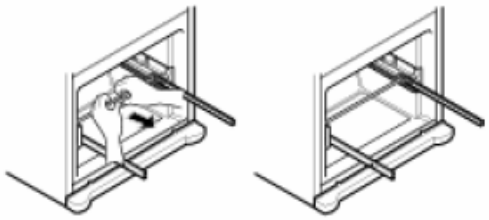


With both hands, hold both sides of the door and pull it up to separate it from the rails.

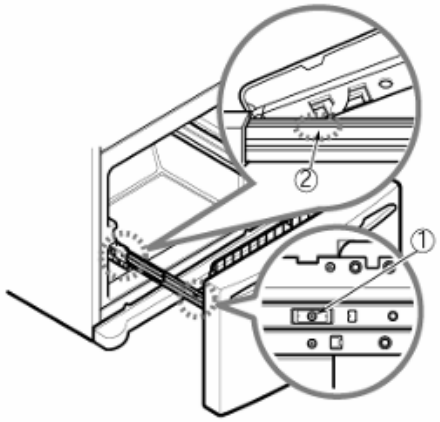


With both hands, hold the center bar and push it in so the side rails will remain aligned on the toothed rails.

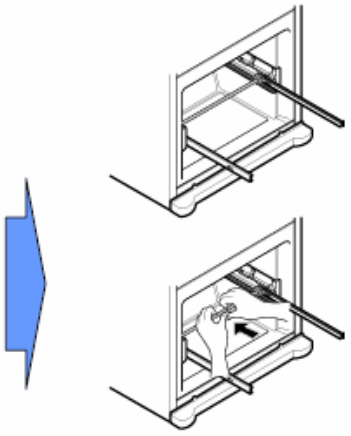
To Replace Freezer Door



With both hands, hold the center bar and pull it out to let both rails come to full extension simultaneously

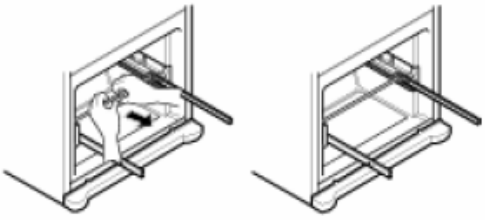


Hook the rear door support tabs into the slots in the rails tabs, as illustrated (2). Lower the door so the front tabs fit into the front rail slots and replace the screw (number 1 above) in each side.

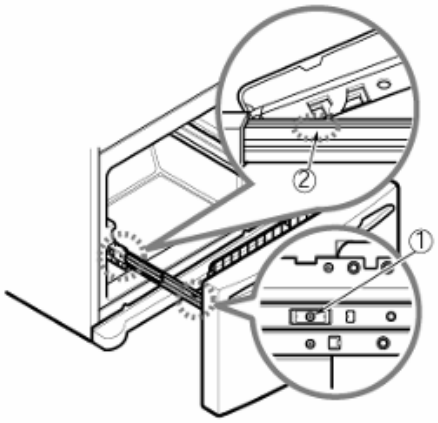


With both hands, hold the center bar and push it in so the side rails will remain aligned on the toothed rails.

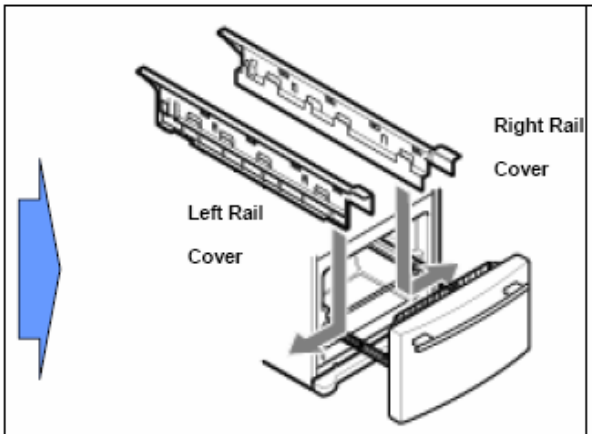
To Replace Freezer Door



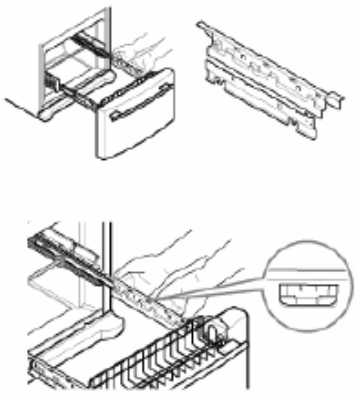
With both hands, hold the center bar and pull it out to let both rails come to full extension simultaneously



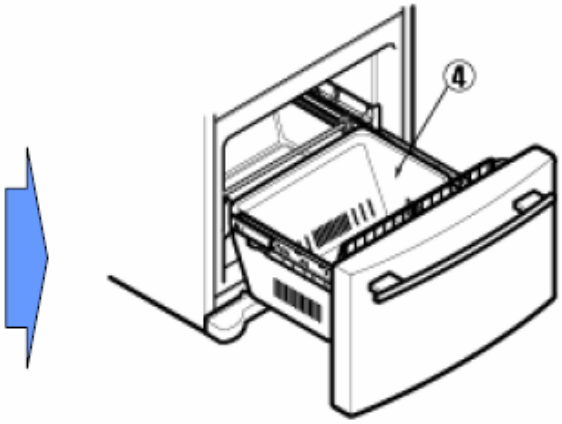
Hook the rear door support tabs into the slots in the rails tabs, as illustrated (2). Lower the door so the front tabs fit into the front rail slots and replace the screw (number 1 above) in each side.



Make sure you have the correct rail cover for each side.



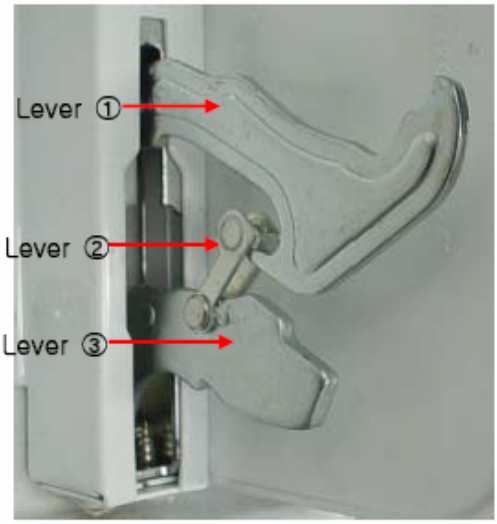
Align the top holes of the rail cover with the top holes of the door supports to assemble the rail covers.



With the drawer pulled out to full extension, insert the lower basket (4) in the rail assembly.

Caution: When removing the drawer, do not lift by the handle. If the handle comes off, it can damage the door and/or cause personal injury.

If the Tilting Door comes off while installing or servicing, please follow next steps.



1. Removing tilting door.

Tilt the freezer door.

Carefully pull the plastic cover.

(View without the plastic cover.)

With a small screwdriver, lift lever ② from lever ③ to engage lever ①.

After raising both side levers, ②, lift and pull door to remove.

Normal lever position when removing door. (Lever ② connects levers ① and ③.)

2. Reassemble Lever.

Push lever ① toward lever ③ with a tool. (This will require force to overcome spring tension.)
The handle of a screwdriver was used in the picture above.

While pushing lever ①, turn over lever ② to lever ①.

After reassembling the lever, reattach the door.

3. Reassemble the Freezer Door.

To reassemble door, insert lever ① first...

and then, insert lever ③.

Turn over lever ② to lever ③.

Lever ③ should be assembled as in the above picture.

SERVICE BULLETIN

LG Electronics

No. : CREF20070424
Date : 2007-02-08

Model

Factory	Factory Model	Suffix	Model No.	Factory	Factory Model	Suffix	Model No.
EKHQ	GR-B218JSAA	ASTCLGA	LRFC21755ST	EKHQ	GR-B218JSCA	ASTCLGA	LFC21760ST
EKHQ	GR-B218JTAA	ATICLGA	LRFC21755TT	EKHQ	GR-B218JVAA	AWBCLGA	LRFC21755SB
EKHQ	GR-B258JBAA	ASWCLGA	LRFC25750WW	EKHQ	GR-B258JQCA	ASWCLGA	LFC25760SW
EKHQ	GR-B258JSAA	ASTCLGA	LRFC25750ST	EKHQ	GR-B258JSCA	ASTCLGA	LFC25760ST
EKHQ	GR-B258JTAA	ATICLGA	LRFC25750TT	EKHQ	GR-B258JTCA	ANTCLGA	LFC25760TT
EKHQ	GR-B258JTCA	ATICLGA	LFC25760TT	EKHQ	GR-B258JVAA	ASWCLGA	LRFC25750SW
EKHQ	GR-B258JVAA	AWBCLGA	LRFC25750SB	EKHQ	GR-B258JVCA	AWBCLGA	LFC25760SB
EKHQ	GR-F218JLTA	ABICSER	75194	EKHQ	GR-F218JLTA	ASWCSER	75192
EKHQ	GR-F218JLTA	AWBCSER	75199	EKHQ	GR-F218JQKA	ABICSER	77194
EKHQ	GR-F218JQKA	ASWCSER	77192	EKHQ	GR-F218JQKA	AWBCSER	77199
EKHQ	GR-F218JSKA	ASTCLGA	LFD21860ST	EKHQ	GR-F218JSKA	ASTCSER	77193
EKHQ	GR-F218JSTA	ASTCLGA	LRFD21855ST	EKHQ	GR-F218JSTA	ASTCSER	75193
EKHQ	GR-F218JTKA	ATICSER	77196	EKHQ	GR-F218JTTA	ATICSER	75196
EKHQ	GR-F258JBTA	ASWCLGA	LRFD25850WW	EKHQ	GR-F258JLTA	ABICSEF	75554
EKHQ	GR-F258JLTA	ABICSER	75544	EKHQ	GR-F258JLTA	ASWCSEF	75552
EKHQ	GR-F258JLTA	ASWCSER	75542	EKHQ	GR-F258JLTA	AWBCSEF	75559
EKHQ	GR-F258JLTA	AWBCSER	75549	EKHQ	GR-F258JQKA	ABICSEF	77554
EKHQ	GR-F258JQKA	ABICSER	77544	EKHQ	GR-F258JQKA	ASWCLGA	LFD25860SW
EKHQ	GR-F258JQKA	ASWCSEF	77552	EKHQ	GR-F258JQKA	ASWCSER	77542
EKHQ	GR-F258JQKA	AWBCSEF	77559	EKHQ	GR-F258JQKA	AWBCSER	77549
EKHQ	GR-F258JSKA	ASTCLGA	LFD25860ST	EKHQ	GR-F258JSKA	ASTCSEF	77553
EKHQ	GR-F258JSKA	ASTCSER	77543	EKHQ	GR-F258JSTA	ASTCLGA	LRFD25850ST
EKHQ	GR-F258JSTA	ASTCSEF	75553	EKHQ	GR-F258JSTA	ASTCSER	75543
EKHQ	GR-F258JTKA	ANTCLGA	LFD25860TT	EKHQ	GR-F258JTKA	ATICLGA	LFD25860TT
EKHQ	GR-F258JTKA	ATICSEF	77556	EKHQ	GR-F258JTKA	ATICSER	77546
EKHQ	GR-F258JTTA	ATICLGA	LRFD25850TT	EKHQ	GR-F258JTTA	ATICSEF	75556
EKHQ	GR-F258JTTA	ATICSER	75546	EKHQ	GR-F258JVKA	AWBCLGA	LFD25860SB
EKHQ	GR-F258JVTA	ASWCLGA	LRFD25850SW	EKHQ	GR-F258JVTA	AWBCLGA	LRFD25850SB
EKHQ	GR-L218SSKA	ASTCLGA	LFX21960ST	EKHQ	GR-L258SQJ	ASWCLGA	LFX25960SW
EKHQ	GR-L258SQKA	ASWCLGA	LFX25960SW	EKHQ	GR-L258SQLA	ABICSER	77564

	EKHQ	GR-L258SQLA	ASWCSEF	77572	EKHQ	GR-L258SQLA	ASWCSER	77562		
	EKHQ	GR-L258SQLA	AWBCSEF	77579	EKHQ	GR-L258SQLA	AWBCSER	77569		
	EKHQ	GR-L258SQWA	ASWCLGA	LFX25950SW	EKHQ	GR-L258SQWA	AWBCLGA	LFX25950SB		
	EKHQ	GR-L258SSJ	ASTCLGA	LFX25960ST	EKHQ	GR-L258SSKA	ASTCLGA	LFX25960ST		
	EKHQ	GR-L258SSLA	ASTCSEF	77573	EKHQ	GR-L258SSLA	ASTCSER	77563		
	EKHQ	GR-L258STKA	ATICLGA	LFX25960TT	EKHQ	GR-L258STWA	ATICLGA	LFX25950TT		
	EKHQ	GR-L258SVKA	AWBCLGA	LFX25960SB						
Buyer	Buyer Name	Buyer Code	Buyer Name	Buyer Code	Buyer Name			Buyer Code		
	LGEUS	US000001	LGEAI	US000002	SEARS HOLDINGS CORPORATION			US006712		
EFFECTIVE DATE	2007-02-08		EFFECTIVE FROM(SERIAL NO.)					404KR**00001		
Subject	Change of Adjusting Legs on 3 Door Bottom Freezer Refrigerators									

No.	Loc No.	Before Change		After Change		Note	K-Code	Remark
		Part No	DESC./SPEC.	Part No	DESC./SPEC.			
1	106A	4779JJ2001A	Leg Assembly,Adjust/ PP 44.5MM 12MM KS-PJT B/M 20/22 CU.FT	4779JJ2001B	Leg Assembly,Adjust/ PP 44.5MM 12MM KS-PJT B/M 20/22 CU.FT HEXAGON HEAD	A	1	

Reason Of Change

For easier leveling of refrigerators by customers or installers, a hexagon shape is formed at the top of the leveling leg.

SVC Bulletin for 3 Door Bottom Freezer Leg.jpg
CREF20070424 Bottm Fzr Adjusting Feet.pdf

** FILE THIS SERVICE BULLETIN WITH YOUR SERVICE MANUAL

NOTE(**) : INTERCHANGEABILITY CODE

	Parts	Set	
A	Original	Early	Original or new parts may be used in early or late production sets.
	New	Late	Use original parts until exhausted, then stock new parts.
B	Original	Early	Original parts may be used in early production sets only.
	New	Late	New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
C	Original	Early	New parts only may be used in early or late production sets.
	New	Late	Stock new parts.
D	Original	Early	Original parts only may be used in early production sets.
	New	Late	New parts may be used in late production sets only. Stock original and new parts.

KEY-WORD CODE

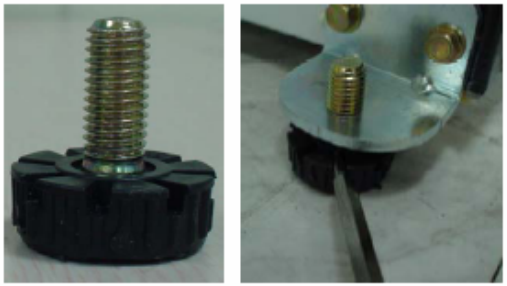
1. To improve performance
2. To improve productivity
3. To improve reliability
4. Change of material or dimension
5. Addition
6. Deletion
7. Correction

New Adjusting Legs for 3 Door Bottom Freezer Refrigerators

For easier leveling of refrigerators by customers or installers, a hexagon shape is formed at the top of the leveling leg.

Before

P/No.: 4779JJ2001A
Loc No.: 106A



Turn the leveling screw clockwise to raise or counterclockwise to lower by using flat blade screwdriver.

After

P/No.: 4779JJ2001B
Loc No.: 106A

Turn the leveling screw clockwise to raise or counterclockwise to lower by using **11/32`` wrench or flat blade screwdriver.**

SERVICE BULLETIN

LG Electronics

No. : CRBF20070432
Date : 2007-03-06

Model	Factory Factory Model Suffix Model No. Factory Factory Model Suffix Model No. EKHQ GR-L218SSKA ASTCLGA LFX21960ST EKHQ GR-L258SSKA ASTCLGA LFX25960ST
Buyer	Buyer Name Buyer Code Buyer Name Buyer Code Buyer Name Buyer Code LGEUS US000001 LGEAI US000032
EFFECTIVE DATE	2007-03-06 / EFFECTIVE FROM(SERIAL NO.) ***6*****
Subject	Change the service procedure for the Foamed Door Assembly, Left on Ice-In-Door models

No.	Loc No.	Before Change: Part No	Before Change: DESC./SPEC.	After Change: Part No	After Change: DESC./SPEC.	Note	K-Code	Remark
1	231B	5433JA0501B	[illegible]	5433JA0501B	[illegible]	A	5	
2	6302	4987JA3025A	Gasket Assembly,Door / LAST NO.# [illegible] / SILICON	4987JA3025A	Gasket Assembly,Door / LAST NO.# [illegible] / SILICON	A	5	

Reason Of Change

Change the service procedure for the Foamed Door Assembly, Left on Ice-In-Door models.
Replacement doors (Part No. 5433JA0001*) do not include gaskets for the Ice Room Ventilation ducts. If the Service Technician must order a new Foamed Door Assembly, new gaskets (Gasket Assembly, Door, Part no. 4987JA3025A) should be ordered at the same time. Note that two (2) gaskets are required. These must be installed by the Service Technician before the service is complete.

CRBF20070432 Ice Room Vent Gaskets.JPG
CRBF20070432 Ice Room Vent Gaskets.pdf

** FILE THIS SERVICE BULLETIN WITH YOUR SERVICE MANUAL

NOTE(**) : INTERCHANGEABILITY CODE			KEY-WORD CODE
	Parts / Set		1. To improve performance 2. To improve productivity 3. To improve reliability 4. Change of material or dimension 5. Addition 6. Deletion 7. Correction
A	Original → Early; New → Late	Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.	
B	Original → Early; New → Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.	
C	Original → Early; New → Late	New parts only may be used in early or late production sets. Stock new parts.	
D	Original → Early; New → Late	Original parts only may be used in early production sets. New parts may be used in late production sets only. Stock original and new parts.	

CHIEF ENGINEER, Factory. *approved*

Service Bulletin

1. Subject: Ice Room Ventilation Gaskets on French Door Refrigerators with Ice-in-Door

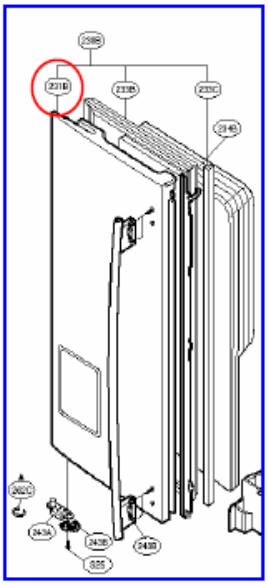
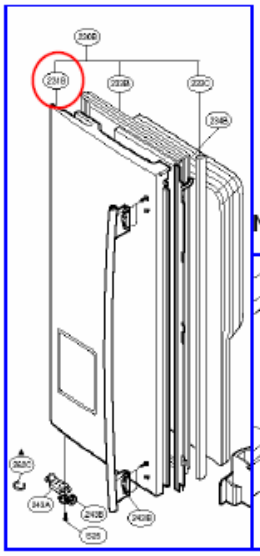
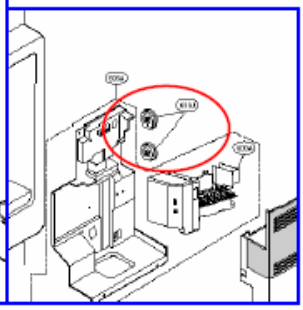
2. Applicable Models: LFX21960ST & LFX25960ST

3. Applicable Serial No.: ***KR*****

4. Purpose: Change the service procedure for the Foamed Door Assembly, Left.

5. Information

The service method has changed for the Foamed Door Assembly, Left

Before change	*After change*
Door Foam Assembly, Refrigerator P/No: 5433JA8561* (Loc. 231B)  **Order Door Foam Assembly, Refrigerator, P/No. 5433JA8561***	**Door Foam Assembly, Refrigerator P/No: 5433JA8561* (Loc. 231B)**  **Gasket Assembly, Door (Gasket Beta) No: 4987JA3025A (Loc. 630J)**  **Order Door Foam Assembly, Refrigerator P/No. 5433JA8561*, and Gasket Assembly, Door, P/No. 4987JA3025A**

6. **Service Note:** If a new *Door Foam Assembly, Refrigerator (P/No:5433JA8561*),* must be ordered to complete the repair of the refrigerator, the service technician should also order new *Gasket Assembly, Door (P/No: 4987JA3025A),* (**2 required**) at the same time. The technician must assemble the new gasket assemblies into the new door before the foamed door service is complete.

SERVICE BULLETIN

LG Electronics

No. : CREF20070451
Date : 2007-03-18

Model	Factory	Factory Model	Suffix	Model No.	Factory	Factory Model	Suffix	Model No.
	EKHQ	GR-F218JSKA	ASTCLGA	LFD21860ST	EKHQ	GR-F218JSTA	ASTCLGA	LRFD21855ST
	EKHQ	GR-F258JBTA	ASWCLGA	LRFD25850WW	EKHQ	GR-F258JQKA	ASWCLGA	LFD25860SW
	EKHQ	GR-F258JSKA	ASTCLGA	LFD25860ST	EKHQ	GR-F258JSKA	ASTCSEF	77553
	EKHQ	GR-F258JSTA	ASTCLGA	LRFD25850ST	EKHQ	GR-F258JTKA	ANTCLGA	LFD25860TT
	EKHQ	GR-F258JTKA	ATICLGA	LFD25860TT	EKHQ	GR-F258JTTA	ATICLGA	LRFD25850TT
	EKHQ	GR-F258JVKA	AWBCLGA	LFD25860SB	EKHQ	GR-F258JVTA	ASWCLGA	LRFD25850SW
	EKHQ	GR-F258JVTA	AWBCLGA	LRFD25850SB	EKHQ	GR-L218SSKA	ASTCLGA	LFX21960ST
	EKHQ	GR-L258SQJ	ASWCLGA	LFX25960SW	EKHQ	GR-L258SQKA	ASWCLGA	LFX25960SW
	EKHQ	GR-L258SSJ	ASTCLGA	LFX25960ST	EKHQ	GR-L258SSKA	ASTCLGA	LFX25960ST
	EKHQ	GR-L258STKA	ATICLGA	LFX25960TT	EKHQ	GR-L258SVKA	AWBCLGA	LFX25960SB

Buyer	Buyer Name	Buyer Code	Buyer Name Buyer Code Buyer Name Buyer Code
	LGEUS	US000001	LGEAI US000002
EFFECTIVE DATE	2007-03-08	EFFECTIVE FROM(SERIAL NO.)	703KR00001
Subject	Changed Water Tank Front Covers on French Door (3 door) refrigerators		

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No.	Loc No.	Before Change		After Change		Note	K-Code	Remark
		Part No	DESC./SPEC.	Part No	DESC./SPEC.			
1	312B	3550JL1012A	Cover,Front / MOLD ABS AF-305 ABS AF-305 SUPER WHITE T2.5 BRAVO-PJT 04(E)	3550JJ1071A	Cover,Front / MOLD ABS HG-173 ABS	B	2	

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Reason Of Change
To facilitate production by standardizing front covers.
CREF20070451 Water Reservoir Cover.pdf

** FILE THIS SERVICE BULLETIN WITH YOUR SERVICE MANUAL

NOTE(**) : INTERCHANGEABILITY CODE				KEY-WORD CODE
	Parts	Set		1. To improve performance
A	Original → Early New → Late		Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.	2. To improve productivity
B	Original → Early New → Late		Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.	3. To improve reliability 4. Change of material or dimension
C	Original → Early New → Late		New parts only may be used in early or late production sets. Stock new parts.	5. Addition 6. Deletion
D	Original → Early New → Late		Original parts only may be used in early production sets. New parts may be used in late production sets only. Stock original and new parts.	7. Correction

CHIEF ENGINEER . approved
Factory.

Service Bulletin

1. Subject: Changed Water Tank Front Cover on French Door (3 door) refrigerators

2. Applicable Models: GR-L258 (218) & F258 (218)***

3. Applicable Serial No.: ***KR*****

4.Purpose: To standardize water tank front covers.

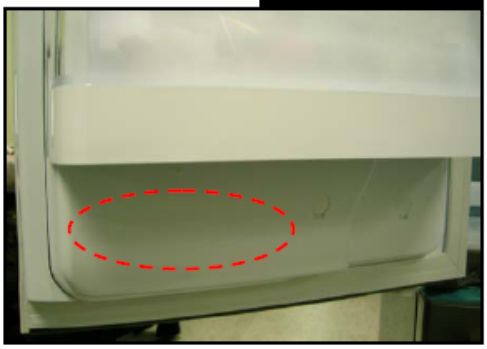
5. Information

Part Number change of Cover, Front

Before change	*After change*

3550JL1012A

3550JJ1071A



6. Service: If it is necessary to replace Front Cover, 3550JL1012A (with graphic), order a Front Cover, 3550JJ1071A (without graphic).

SERVICE BULLETIN

LG Electronics

No. : 06EF20070481
Date : 2007-04-12

Model													
Factory	Factory Model	Suffix	Model No.	Factory	Factory Model	Suffix	Model No.						
EKHQ	GR-B218JSAA	ASTCLGA	LRFC21755ST	EKHQ	GR-B218JSCA	ASTCLGA	LFC21760ST						
EKHQ	GR-B218JTAA	ATICLGA	LRFC21755TT	EKHQ	GR-B218JVAA	AWBCLGA	LRFC21755SB						
EKHQ	GR-B258JBAA	ASWCLGA	LRFC25750WW	EKHQ	GR-B258JQCA	ASWCLGA	LFC25760SW						
EKHQ	GR-B258JSAA	ASTCLGA	LRFC25750ST	EKHQ	GR-B258JSCA	ASTCLGA	LFC25760ST						
EKHQ	GR-B258JTAA	ATICLGA	LRFC25750TT	EKHQ	GR-B258JTCA	ANTCLGA	LFC25760TT						
EKHQ	GR-B258JTCA	ATICLGA	LFC25760TT	EKHQ	GR-B258JVAA	ASWCLGA	LRFC25750SW						
EKHQ	GR-B258JVAA	AWBCLGA	LRFC25750SB	EKHQ	GR-B258JVCA	AWBCLGA	LFC25760SB						
EKHQ	GR-F218JGMA	AHMCSEF	77729	EKHQ	GR-F218JGMA	AHMCSER	77719						
EKHQ	GR-F218JLTA	ABICSER	75194	EKHQ	GR-F218JLTA	ASWCSER	75192						
EKHQ	GR-F218JLTA	AWBCSER	75199	EKHQ	GR-F218JQKA	ABICSER	77194						
EKHQ	GR-F218JQKA	ASWCSER	77192	EKHQ	GR-F218JQKA	AWBCSER	77199						
EKHQ	GR-F218JSKA	ASTCLGA	LFD21860ST	EKHQ	GR-F218JSKA	ASTCSER	77193						
EKHQ	GR-F218JSTA	ASTCLGA	LRFD21855ST	EKHQ	GR-F218JSTA	ASTCSER	75193						
EKHQ	GR-F218JTKA	ATICSER	77196	EKHQ	GR-F218JTTA	ATICSER	75196						
EKHQ	GR-F258JBTA	ASWCLGA	LRFD25850WW	EKHQ	GR-F258JLTA	ABICSEF	75554						
EKHQ	GR-F258JLTA	ABICSER	75544	EKHQ	GR-F258JLTA	ASWCSEF	75552						
EKHQ	GR-F258JLTA	ASWCSER	75542	EKHQ	GR-F258JLTA	AWBCSEF	75559						
EKHQ	GR-F258JLTA	AWBCSER	75549	EKHQ	GR-F258JQKA	ABICSEF	77554						
EKHQ	GR-F258JQKA	ABICSER	77544	EKHQ	GR-F258JQKA	ASWCLGA	LFD25860SW						
EKHQ	GR-F258JQKA	ASWCSEF	77552	EKHQ	GR-F258JQKA	ASWCSER	77542						
EKHQ	GR-F258JQKA	AWBCSEF	77559	EKHQ	GR-F258JQKA	AWBCSER	77549						
EKHQ	GR-F258JSKA	ASTCLGA	LFD25860ST	EKHQ	GR-F258JSKA	ASTCSEF	77553						
EKHQ	GR-F258JSKA	ASTCSER	77543	EKHQ	GR-F258JSTA	ASTCLGA	LRFD25850ST						
EKHQ	GR-F258JSTA	ASTCSEF	75553	EKHQ	GR-F258JSTA	ASTCSER	75543						
EKHQ	GR-F258JTKA	ANTCLGA	LFD25860TT	EKHQ	GR-F258JTKA	ATICLGA	LFD25860TT						
EKHQ	GR-F258JTKA	ATICSEF	77556	EKHQ	GR-F258JTKA	ATICSER	77546						
EKHQ	GR-F258JTTA	ATICLGA	LRFD25850TT	EKHQ	GR-F258JTTA	ATICSEF	75556						
EKHQ	GR-F258JTTA	ATICSER	75546	EKHQ	GR-F258JVKA	AWBCLGA	LFD25860SB						
EKHQ	GR-F258JVTA	ASWCLGA	LRFD25850SW	EKHQ	GR-F258JVTA	AWBCLGA	LRFD25850SB						
EKHQ	GR-L218SSKA	ASTCLGA	LFX21960ST	EKHQ	GR-L258SQJ	ASWCLGA	LFX25960SW						
EKHQ	GR-L258SQKA	ASWCLGA	LFX25960SW	EKHQ	GR-L258SQLA	ABICSER	77564						
EKHQ	GR-L258SQLA	ASWCSEF	77572	EKHQ	GR-L258SQLA	ASWCSER	77562						
EKHQ	GR-L258SQLA	AWBCSEF	77579	EKHQ	GR-L258SQLA	AWBCSER	77569						
EKHQ	GR-L258SSJ	ASTCLGA	LFX25960ST	EKHQ	GR-L258SSKA	ASTCLGA	LFX25960ST						
EKHQ	GR-L258SSLA	ASTCSEF	77573	EKHQ	GR-L258SSLA	ASTCSER	77563						
EKHQ	GR-L258STKA	ATICLGA	LFX25960TT	EKHQ	GR-L258SVKA	AWBCLGA	LFX25960SB						

Buyer	Buyer Name	Buyer Code	Buyer Name	Buyer Code	Buyer Name	Buyer Code
	LGEUS	US0000001	LGEAI	US0000002	SEARS HOLDINGS CORPORATION	US0006712

EFFECTIVE DATE	2007-04-18	EFFECTIVE FROM(SERIAL NO.)	74RE1450
Subject	Change wiring harness in refrigerator lamp cover of French Door Refrigerators		

No.	Loc No.	Before Change		After Change		Note	K-Code	Remark
		Part No	DESC./SPEC.	Part No	DESC./SPEC.			
1	410A	6621JK2002D	Drawing Assembly / PS1150-20 LAMP SOCKE	6621JK2003B	Drawing Assembly / PS1150-34 LAMP SOCKET THERMO DISK HEAT SHRINK TUBE UL1015 AWG22 BS-PJT PARK ELECTRONICS CO.LTD	C	3	

Reason or Change

Lamp heat can cause deformation of the plastic lamp cover in certain conditions. A wiring harness that includes a thermal protector has been added to improve safety and prevent deformation of the cover.

CREF20070461 Lamp Harness.pdf

** FILE THIS SERVICE BULLETIN WITH YOUR SERVICE MANUAL

NOTE(**) : INTERCHANGEABILITY CODE

	Parts	Set	
A	Original → New	Early → Late	Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.
B	Original → New	Early → Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts whenever possible, then stock new parts.
C	Original → New	Early → Late	New parts only may be used in early or late production sets. Stock new parts.
D	Original → New	Early → Late	Original parts only may be used in early production sets. New parts may be used in late production sets only. Stock original and new parts.

KEY-WORD CODE

1. To improve performance
2. To improve productivity
3. To improve reliability
4. Change of material or dimension
5. Addition
6. Deletion
7. Correction

CHIEF ENGINEER , *approved*
Factory.

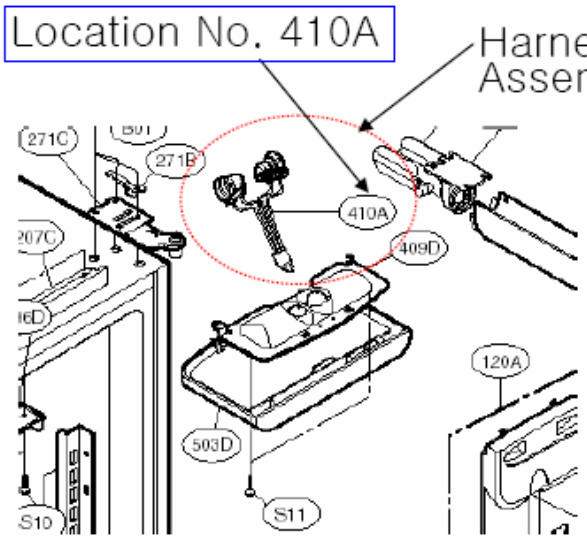
SVC BULLETIN

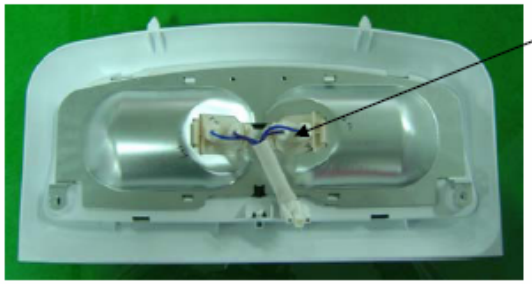
TP application

Application Date: 2007.04.19

Change Description

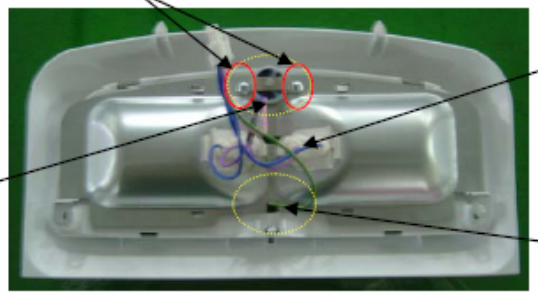
Change the Harness Assembly used on the Lamp Bracket
Before change, P/NO 6621JK2002D. After change, P/NO 6621JK2003B





P/No (before)
6621JK2002D

Attach TP (Thermal Protector)
to the bracket with two screws.



P/No (after)
6621JK2003B

Screw holes

Insert Earth receptacle
to Tab on Bracket

SERVICE BULLETIN

LG Electronics

No. : CREF20070490
Date : 2007-05-25

Model	Factory / Factory Model / Suffix / Model No. / Factory / Factory Model / Suffix / Model No. EKHQ GR-L218SSKA ASTCLGA LFX21960ST EKHQ GR-L258SQI ASWCLGA LFX25960SW EKHQ GR-L208SQSA ASWCLGA LFX21960SW EKHQ GR-L258SQWA ASWCLGA LFX25950SW EKHQ GR-L208SQWA AWBCLGA LFX21960SB EKHQ GR-L258SSI ASTCLGA LFX25960ST EKHQ GR-L208SSKA ASTCLGA LFX21960ST EKHQ GR-L258STKA ATICLGA LFX25960TT EKHQ GR-L208STWA ATECLGA LFX21960TT EKHQ GR-L258SVKA AWBCLGA LFX25960SB
Buyer	Buyer Name / Buyer Code / Buyer Name / Buyer Code / Buyer Name / Buyer Code LGEUS US000001 LGEAC US000002
EFFECTIVE DATE	2007-05-22 — EFFECTIVE FROM(SERIAL NO.) 705KR**00001
Subject	Icing reduction on Icemaker motor and Grille, Fan

No.	Loc No.	Before Change: Part No	Before Change: DESC./SPEC.	After Change: Part No	After Change: DESC./SPEC.	Note	K-Code	Remark
1	407A	3209OA1044A	Duct Assembly,Connector / BRAVO-2 PJT ,SCROLL ASSY	3209OA1044A	Duct Assembly,Connector / BRAVO-2 PJT ,SCROLL ASSY	C	1	
2	332C		/	AEB34270001	Grille Assembly,Fan / BRAVO-2 PJT GRILLE ASSY Fan	C	5	
3	332A	3530OA0034A	Grille,Fan / MPS SUPER WHITE T2.8 BRAVO-2, PJT 02,SAC,FT		/	C	6	

Reason Of Change

Ice fan freezing reduction.

Fan noise and Er IF error display are caused by Ice Fan freezing. After verification of the freezing problem, the Duct Assembly, the Connector, and the Grille Fan must all be replaced. The service technician must also be sure that foam seals and Al (aluminum) tape are present and properly installed. These components are essential for optimum performance.

CREF20070490 Icemaker Icing 51.JPG
CREF20070490 Icemaker Icing 52.JPG
CREF20070490 Icemaker Icing 53.JPG
CREF20070490 Icemaker, Icing Reduction.pdf

** FILE THIS SERVICE BULLETIN WITH YOUR SERVICE MANUAL

NOTE[**] : INTERCHANGEABILITY CODE			KEY-WORD CODE
	Early / Set		1. To improve performance
A	Original — Early / New — Late	Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.	2. To improve productivity
B	Original — Early / New — Late	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.	3. To improve reliability 4. Change of material or dimension
C	Original — Early / New — Late	New parts only may be used in early or late production sets. Stock new parts.	5. Addition 6. Deletion
D	Original — Early / New — Late	Original parts only may be used in early production sets. New parts may be used in late production sets only. Stock original and new parts.	7. Correction

CHIEF ENGINEER, Factory, approved

Service Bulletin

1.Subject: Icing reduction on Icemaker motor and Grille, Fan

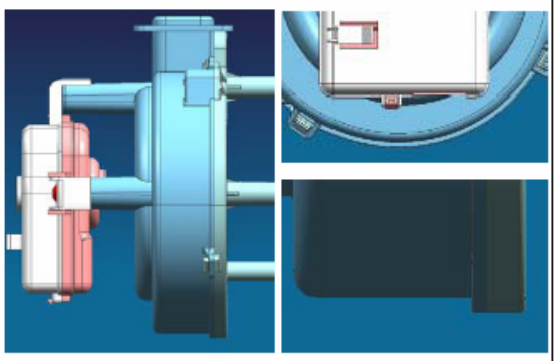
2.Applicable Models: LFX21***, LFX25***

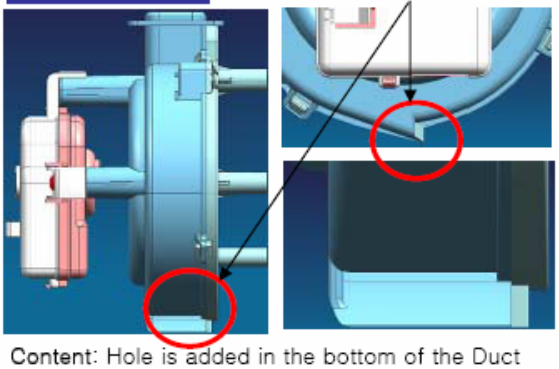
3. Applicable Serial No.: 604KR***** ~ 703KR*****

4.Purpose: Ice fan freezing reduction.
Fan noise and *Er IF* error display are caused by Ice Fan freezing. After verification of the freezing problem, the Duct Assembly, the Connector, and the Grille Fan must all be replaced. The service technician must also be sure that foam seals and Al (aluminum) tape are present and properly installed. These components are essential for optimum performance.

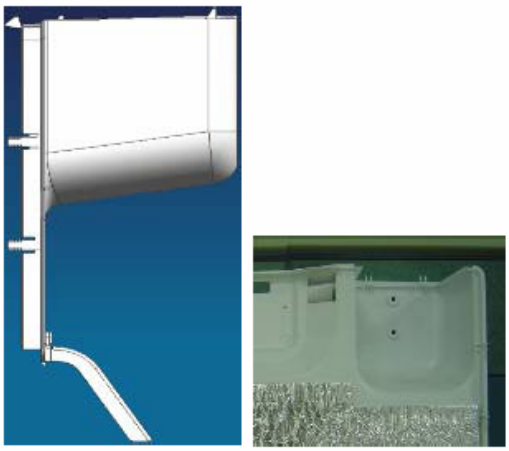
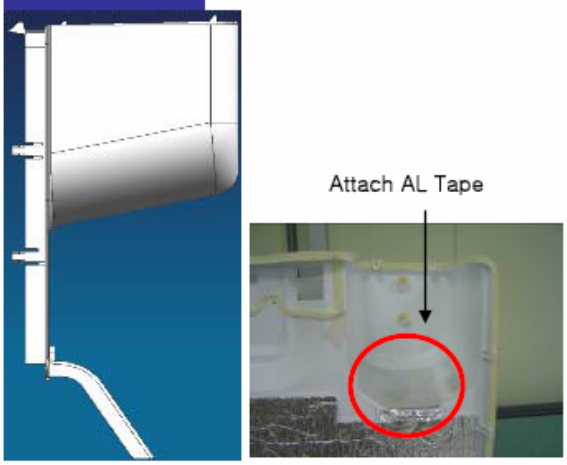
5. Information

Before change	After change
ITEM - Duct Assembly, Connector - P/No: 5209JA1044A - LOC NO: 407A CONTENTS	ITEM - Parts: Duct Assembly, Connector - P/No: 5209JA1044A - LOC NO: 407A CONTENTS





Content: Hole is added in the bottom of the Duct Assembly connector.

Before change	After change
ITEM - Grille, Fan - P/No: 3530JA0034A - LOC NO: 332A **CONTENTS** 	**ITEM** - Parts: Grille Assembly, Fan - P/No: AEB34270101 (3530JA0034A+MDS39077701) - LOC NO : 332C **CONTENTS**  Content: Al tape is added in the Grille Assembly, Fan

SERVICE PROCEDURE

1. Unplug the refrigerator.

2. Pull the freezer door open.

3. Remove the basket.

4. Push the 2 tabs on each rail cover and remove the covers.

4. Remove the screw from the locking tab on each side rail.

5. Carefully lift the door and remove it.

6. Remove the stabilizing gear and bar.

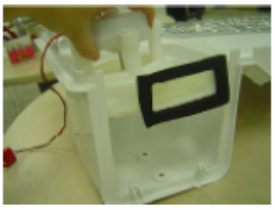
7. Remove the upper drawer.

8. Remove the upper and lower guide rail assemblies from the left side.

9. Pull the Grille, Fan, forward and unplug the icing fan and freezer fan harnesses.

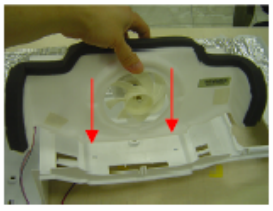
10. Remove two screws from the Duct, Connector

11. Separate the Duct, Connector from the grille.



12. Remove one screw from the main fan.

13. Remove two screws from the main fan.



14. Lift the main fan from the Grille, fan.

15. Change the new Duct, connector and Grille, Fan.

16. Change the New Parts. Reassemble in the reverse order of disassembly.

SERVICE BULLETIN

LG Electronics

No. : CREF20070504
Date : 2007-06-15

Model

Factory	Factory Model	Suffix	Model No.	Factory	Factory Model	Suffix	Model No.
EKHQ	GR-B218JSAA	ASTCLGA	LRFC21755ST	EKHQ	GR-B218JSCA	ASTCLGA	LFC21760ST
EKHQ	GR-B218JTAA	ATICLGA	LRFC21755TT	EKHQ	GR-B218JVAA	AWBCLGA	LRFC21755SB
EKHQ	GR-B258JBAA	ASWCLGA	LRFC25750WW	EKHQ	GR-B258JQCA	ASWCLGA	LFC25760SW
EKHQ	GR-B258JSAA	ASTCLGA	LRFC25750ST	EKHQ	GR-B258JSCA	ASTCLGA	LFC25760ST
EKHQ	GR-B258JTAA	ATICLGA	LRFC25750TT	EKHQ	GR-B258JTCA	ANTCLGA	LFC25760TT
EKHQ	GR-B258JTCA	ATICLGA	LFC25760TT	EKHQ	GR-B258JVAA	ASWCLGA	LRFC25750SW
EKHQ	GR-B258JVAA	AWBCLGA	LRFC25750SB	EKHQ	GR-B258JVCA	AWBCLGA	LFC25760SB
EKHQ	GR-D267DTU	ATICLGA	LRSPC2661T	EKHQ	GR-D277STSA	ATICLGA	LSC27991TT
EKHQ	GR-F218JGMA	AHMCSEF	77729	EKHQ	GR-F218JGMA	AHMCSER	77719
EKHQ	GR-F218JLTA	ABICSER	75194	EKHQ	GR-F218JLTA	ASWCSER	75192
EKHQ	GR-F218JLTA	AWBCSER	75199	EKHQ	GR-F218JQKA	ABICSER	77194
EKHQ	GR-F218JQKA	ASWCSER	77192	EKHQ	GR-F218JQKA	AWBCSER	77199
EKHQ	GR-F218JQMA	ASWCSER	77712	EKHQ	GR-F218JSKA	ASTCLGA	LFD21860ST
EKHQ	GR-F218JSKA	ASTCSER	77193	EKHQ	GR-F218JSMA	ASTCSER	77713
EKHQ	GR-F218JSTA	ASTCLGA	LRFD21855ST	EKHQ	GR-F218JSTA	ASTCSER	75193
EKHQ	GR-F218JTKA	ATICSER	77196	EKHQ	GR-F218JTTA	ATICSER	75196
EKHQ	GR-F258JBTA	ASWCLGA	LRFD25850WW	EKHQ	GR-F258JLTA	ABICSEF	75554
EKHQ	GR-F258JLTA	ABICSER	75544	EKHQ	GR-F258JLTA	ASWCSEF	75552
EKHQ	GR-F258JLTA	ASWCSER	75542	EKHQ	GR-F258JLTA	AWBCSEF	75559
EKHQ	GR-F258JLTA	AWBCSER	75549	EKHQ	GR-F258JQKA	ABICSEF	77554
EKHQ	GR-F258JQKA	ABICSER	77544	EKHQ	GR-F258JQKA	ASWCLGA	LFD25860SW
EKHQ	GR-F258JQKA	ASWCSEF	77552	EKHQ	GR-F258JQKA	ASWCSER	77542
EKHQ	GR-F258JQKA	AWBCSEF	77559	EKHQ	GR-F258JQKA	AWBCSER	77549
EKHQ	GR-F258JSKA	ASTCLGA	LFD25860ST	EKHQ	GR-F258JSKA	ASTCSEF	77553
EKHQ	GR-F258JSKA	ASTCSER	77543	EKHQ	GR-F258JSTA	ASTCLGA	LRFD25850ST
EKHQ	GR-F258JSTA	ASTCSEF	75553	EKHQ	GR-F258JSTA	ASTCSER	75543
EKHQ	GR-F258JTKA	ANTCLGA	LFD25860TT	EKHQ	GR-F258JTKA	ATICLGA	LFD25860TT
EKHQ	GR-F258JTKA	ATICSEF	77556	EKHQ	GR-F258JTKA	ATICSER	77546
EKHQ	GR-F258JTTA	ATICLGA	LRFD25850TT	EKHQ	GR-F258JTTA	ATICSEF	75556
EKHQ	GR-F258JTTA	ATICSER	75546	EKHQ	GR-F258JVKA	AWBCLGA	LFD25860SB
EKHQ	GR-F258JVTA	ASWCLGA	LRFD25850SW	EKHQ	GR-F258JVTA	AWBCLGA	LRFD25850SB
EKHQ	GR-G267ATBA	ATICLGA	LRSC26980TT	EKHQ	GR-G267AVBA	AWBCLGA	LRSC26980SB
EKHQ	GR-G277STSA	ATICLGA	LSC27990TT	EKHQ	GR-L218DSVA	ASTCLGA	LFX21980ST
EKHQ	GR-L218SSKA	ASTCLGA	LFX21960ST	EKHQ	GR-L227SSPA	ASTCLGA	LSC21943ST
EKHQ	GR-L247DVUA	ASWCLGA	LRSPC2341SW	EKHQ	GR-L247ERA	ABICLGA	LRSPC2331BS
EKHQ	GR-L247ERA	ASWCLGA	LRSPC2331W	EKHQ	GR-L247ERA	AWBCLGA	LRSPC2331BK
EKHQ	GR-L247TRA	ANICLGA	LRSPC2331NI	EKHQ	GR-L247TRA	ATICLGA	LRSPC2331T
EKHQ	GR-L258DSVA	ASTCLGA	LFX25980ST	EKHQ	GR-L258SQJ	ASWCLGA	LFX25960SW
EKHQ	GR-L258SQKA	ASWCLGA	LFX25960SW	EKHQ	GR-L258SQLA	ABICSER	77564
EKHQ	GR-L258SQLA	ASWCSEF	77572	EKHQ	GR-L258SQLA	ASWCSER	77562
EKHQ	GR-L258SQLA	AWBCSEF	77579	EKHQ	GR-L258SQLA	AWBCSER	77569
EKHQ	GR-L258SQWA	ASWCLGA	LFX25950SW	EKHQ	GR-L258SQWA	AWBCLGA	LFX25950SB

EKHQ	GR-L258SSJ	ASTCLGA	LFX25960ST	EKHQ	GR-L258SSKA	ASTCLGA	LFX25960ST
EKHQ	GR-L258SSLA	ASTCSEF	77573	EKHQ	GR-L258SSLA	ASTCSER	77563
EKHQ	GR-L258STKA	ATICLGA	LFX25960TT	EKHQ	GR-L258STWA	ATICLGA	LFX25950TT
EKHQ	GR-L258SVKA	AWBCLGA	LFX25960SB	EKHQ	GR-L267ATBA	ATICLGA	LRSC26944TT
EKHQ	GR-L267ATBT	ATICLGA	LRSC26960TT	EKHQ	GR-L267ATFA	ATICLGA	LRSC26930TT
EKHQ	GR-L267ATRA	ATICLGA	LRSC26920TT	EKHQ	GR-L267ATRA	ATICLGB	LRSC26922TT
EKHQ	GR-L267AVBA	ASWCLGA	LRSC26944SW	EKHQ	GR-L267AVFA	ASWCLGA	LRSC26930SW
EKHQ	GR-L267AVRA	ASWCLGA	LRSC26920SW	EKHQ	GR-L267AVRA	ASWCLGB	LRSC26922SW
EKHQ	GR-L267AVRA	AWBCLGA	LRSC26920SB	EKHQ	GR-L267AVRA	AWBCLGB	LRSC26922SB
EKHQ	GR-L267BNRY	ANTCLGA	LSC26905TT	EKHQ	GR-L267BSPA	ASTCLGA	LRSC26940ST
EKHQ	GR-L267BSPA	ASTCLGB	LRSC26941ST	EKHQ	GR-L267BTPA	ATICLGA	LRSC26940TT
EKHQ	GR-L267BTPA	ATICLGC	LSC26945TT	EKHQ	GR-L267BTR	ATICLGA	LRSC26915TT
EKHQ	GR-L267BTR	ATICLGB	LRSC26912TT	EKHQ	GR-L267BTRA	ATICLGA	LRSC26925TT
EKHQ	GR-L267BTRA	ATICLGB	LRSC26923TT	EKHQ	GR-L267BVPA	ASWCLGA	LRSC26940SW
EKHQ	GR-L267BVPA	ASWCLGB	LRSC26941SW	EKHQ	GR-L267BVPA	ASWCLGC	LSC26945SW
EKHQ	GR-L267BVPA	AWBCLGA	LRSC26940SB	EKHQ	GR-L267BVPA	AWBCLGB	LRSC26941SB
EKHQ	GR-L267BVR	ASWCLGA	LRSC26915SW	EKHQ	GR-L267BVR	ASWCLGB	LRSC26912SW
EKHQ	GR-L267BVRA	ASWCLGA	LRSC26925SW	EKHQ	GR-L267BVRA	ASWCLGB	LRSC26923SW
EKHQ	GR-L267DTR	ATICLGA	LRSC26910TT	EKHQ	GR-L267DTR	ATICLGB	LRSC26911TT
EKHQ	GR-L267DVR	ASWCLGA	LRSC26910SW	EKHQ	GR-L267DVR	ASWCLGB	LRSC26911SW
EKHQ	GR-L277SSSA	ASTCLGA	LSC27970ST	EKHQ	GR-L277SSVA	ASTCLGA	LSC27950ST
EKHQ	GR-L277SVVA	ASWCLGA	LSC27950SW	EKHQ	GR-L277SVVA	AWBCLGA	LSC27950SB

Buyer	Buyer Name	Buyer Code	Buyer Name	Buyer Code	Buyer Name	Buyer Code
	LGEUS	US000001	LGEAI	US000002	SEARS HOLDINGS CORPORATION	US006712

EFFECTIVE DATE	2007-06-15	EFFECTIVE FROM(SERIAL NO.)	705KR00001
Subject	DRIER 25 ea. in use (SVC 2 types), Separate Evacuated Packaging		

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No.	Loc No.	Before Change		After Change		Note	K-Code	Remark
		Part No	DESC./SPEC.	Part No	DESC./SPEC.			
1	317A	5851JA2002M	Drier Assembly / C1220T HFC 2WAY XH-7 GR-161 151 051 181 S352 392 142 322 S392 352 GR-00	5851JA2008R	-/-	A	1	
2	317A	5851JA2002P	Drier Assembly / C1220T HFC DANMAL XH-7 R-B362 364 422 464 42 564 55 R-S73 76 R-D732 R-K091 092 09 GR-00	5851JA2008R	-/-	A	1	
3	317A	5851JA2002R	Drier Assembly / C1220T HFC DANMAL XH-7 GR-122 182 132 R-B092 094 144 14 09	5851JA2008R	-/-	A	1	
4	317A	5851JA2002U	DRIER ASSEMBLY / C1220T HFC DANMAL XH-9 GR-171 262 359 399 409 642 GR-S642 552	5851JA2008R	-/-	A	1	
5	317A	5851JA2006G	Drier Assembly / XH-7 8*12 10G DANMAL	5851JA2008R	-/-	A	1	
6	317A	5851JA2006L	Drier Assembly / XH-9 8*12 12G DANMAL DIOS	5851JA2008R	-/-	A	1	
7	317A	5851JA2007E	Drier Assembly / XH-7 8*12 10G DANMAL RIGHT	5851JA2008R	-/-	A	1	
8	317A	5851JA2007F	Drier Assembly / XH-7 8*12 10G BIDANMAL RIGHT	5851JA2008R	-/-	A	1	
			Drier Assembly /		-/			

9	317A	5851JA2007J	XH-7 8*12 10G DANMAL GR-00 -	5851JA2008R	-	A	1
10	317A	5851JA2007L	Drier Assembly / XH-9 8*12 10G DANMAL GR-00 -	5851JA2008R	- / -	A	1
11	317A	5851JA2008A	Drier Assembly / XH-7 8*12 10G DANMAL -	5851JA2008R	- / -	A	1

Reason Of Change
Improve drier servicing by providing driers in evacuated packaging. Reduce number of driers required for various models to 2 types.
CREF20070504 Drier Packaging.pdf

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NOTE(**) : INTERCHANGEABILITY CODE				KEY-WORD CODE
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D	Original New	Early Late	Original parts only may be used in early production sets. New parts may be used in late production sets only. Stock original and new parts.	7. Correction

CHIEF ENGINEER , Factory. *approved*

REF. SVC Technical Guide

(Index No.) 2007.03.16

1. Title: SVC Technical Info. for DRIER ASSEMBLY Individual Evacuated Packaging

2. Model: GR-00	**3. S/NO: 2007.03.28**

4. Info: Modification, Quality Improvement, Temporary Countermeasure, etc.

5. Modification Summary: DRIER 25 ea. in use (SVC 2 types), Separate Evacuated Packaging.

6. Modification Reason: Improve SVC DRIER by Evacuated Packaging, Classify into 2 types to avoid varied types

7. Modification (Improvement) Detail:

Before

1. Model; GR-%197~277**
GR-%332%%~%712%%%
GR-122, 142, 182

2. P/NO:
5851JA2002M, P, R, U
5851JA2006G, L
5851JA2007E,F,J,K,L,W,X
5851JA2008A
➔ Interior diameter in outlet (Φ2.2)

After

P/NO:
5851JA2008R (for 1-EVA)
➔ Interior diameter in outlet (Φ2.2)

8. SVC Solution (in agreement with existing one):

XH-9, Inlet 4.9, desiccant amount: 12 grams, Outlet 2.2 ➔ 1-EVA (1 type in use)

9. Action Before Modification (☐ Discard all ☐ Use without Modification ☐ Use with Modification● Others: No action)
☞ **No modification**

10.Action for Products Sold Out (☐ Recycling ☐ 1:1 Exchange with the Modified ☐ Recall and Repair ● Others)
☞ **No Change**

11.Issuer: H. Yang (TEL: 055-260-3225) Approval: 방선욱 C / 이원복 C / 김석로 C/ 김명균 K 김상배 B
Attached: - pages

12. Info. Provider: GSC 氏

REF. SVC Technical Guide

(Index No.) 2007.03.16

1. Title: SVC Technical Info. for DRIER ASSEMBLY Separate Evacuated Packaging

2. Model: GR-00	**3. S/NO: 2007.03.28**

4. Info: Modification, Quality Improvement, Temporary Countermeasure, etc.

5. Modification Summary: DRIER 25 ea. in use (SVC 2 types), Separate Evacuated Packaging.

6. Modification Reason: Improve SVC DRIER by Evacuated Package, Classify into 2 types to avoid varied types

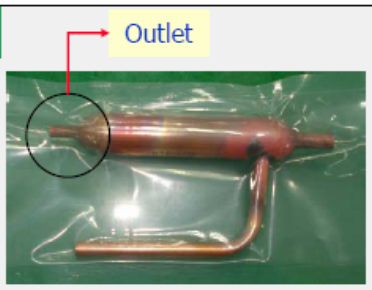
7. Modification (Improvement) Detail:

Before

1. Model: R-B39**~R-B73**
R-U(F)71**, R-T(S)68*~ T(S)77*

2. P/NO:
5851JA2002T
5851JA2007N, R, S, T
➔ Interior diameter in outlet (Φ4.2)

After



P/NO:
5851JA2008S (for 2-EVA)
➔ Interior diameter in outlet (Φ4.2)

8. SVC Solution (in agreement with existing one):

XH-9, Inlet 4.9, desiccant amount: 12grams, Outlet 4.2 ➔ 2-EVA (2 types in use)

9. Action Before Modification (☐ Discard all ☐ Use without modification ☐ Use with modification● Others: No action)
☞ No modification

10. Action for Products Sold Out (☐ Recycling ☐ 1:1 Exchange with the Modified ☐ Recall and Repair ● Others)
☞ No Change

11.Issuer: H. Yang (TEL: 055-260-3225) Approval: 방선욱 C / 이원복 C / 김석로 C / 김명균K 김상배 B
Attached: - **pages**

12. Info. Provider: **GSC** 氏

2007 French Door Training