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LG 76209 Owner's Manual

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* The color vary in each model

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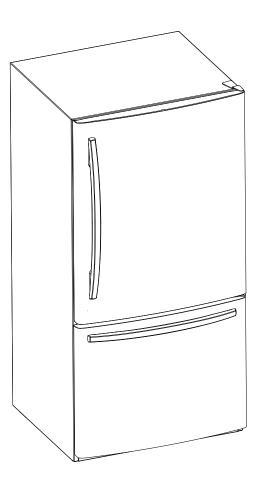
----- Manual continues below ------



BOTTOM FREEZER REFRIGERATOR

REFRIGERATOR SERVICE MANUAL CAUTION

BEFORE SERVICING THE PRODUCT READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



MODELS:

795.7620* 795.6827* 795.7827*

★ color number

Sears Brands Management Corporation, Hoffman Estates, IL 60179 U.S.A. www

www.sears.com

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SAFETY PRECAUTIONS

Please read the following instructions before servicing your refrigerator.

1. Check the refrigerator for current leakage.

2.To prevent electric shock, unplug before servicing.

3. Always check line voltage and amperage.

4.Use standard electrical components.

5.Don't touch metal products in the freezer with wet hands.This may cause frost bite.

6.Prevent water from spiling on to electric elements or the machine parts.

7.Before tilting the refrigerator, remove all materials from on or in the refrigerator.

8. When servicing the evaporator, wear gloves to prevent injuries from the sharp evaporator fins.

9.Service on the refrigerator should be performed by a qualified technician.Sealed system repair must be performed by a CFC certified technician.

1-1. DISCONNECT POWER CORD BEFORE SERVICING

IMPORTANT: Reconnect all grounding devices.

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

1-2. IMPORTANT NOTICE

This information is intended for use by individuals possessing adequate background of electrical, electronic and mechanical experience.

Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

1-3. ELECTRICAL SPECIFICATIONS

Freezer temperature control (Middle setting)	6°F to +8°F
Defrost Control	
Defrost Thermostat	
Electrical Rating : 115VAC, 60Hz	1-5 A
Maximum Current Leakage	0.5mA
Maximum Ground Path Resistance	
Energy Consumption	465kWh/yr (Energy Star)

1-4. NO LOAD PERFORMANCE

Control Position: MID/MID

And Ambient of:	70°F	90°F	
Frozen Foor, °F	4°F to +4°F	Fresh Food, °F	

1-5. REFRIGERATION SYSTEM

Minimum Compressor Capacity Vaccum	21 in
Minimun Equalized Pressure	
@70°F	49 PSIG
@90°F	
Refrigerant R134a	4.2 oz
Compressor	

1-6. INSTALLATION

Clearance must be provided at top, sides and rear of the refrigerator for air circulation.

At Top	2 in
At Sides	
At Rear	

1-7. REPLACEMENT PARTS

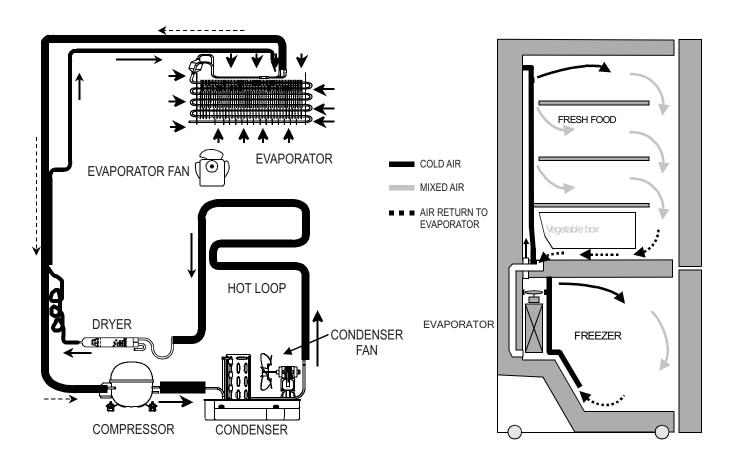
Relay Overload Defrost Thermostat Defrost Heater	6750C-0005P 6930JK2001B
Evaporator Fan Motor Capacitor Compressor (Hi-Side) Evaporator (Lo-Side) Condenser Dryer Condenser Fan Motor Temperature Control Main Control (For Drawer Type Models) Main Control (For Swing Type Models)	0CZZJB2012J TCA32196201 5421JJ1001B 5403JJ1007A 5851JA2007E 4681JB1027P 6500JB1001M EBR64110501

PERFORMANCE DATA (NORMAL OPERATING CONDITIONS)					
AMB	WATTS	SYSTEM PRE	SSURE (PSIG)		
AIVID	WAITS	HIGH SIDE	LOW SIDE		
70°F	98 (+10 / -10)	98 (+5 / -3)	(-5) to (-2)		
90°F	98 (+10 / -10)	130 (+3 / -3)	(-4) to 1		

174 (+5 / -5)

(-2) to 3

1-8. AIR FLOW

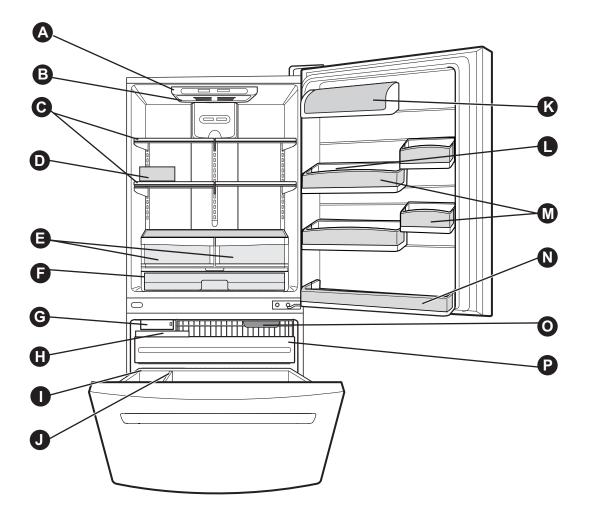


110°F

103 (+5 / -5)

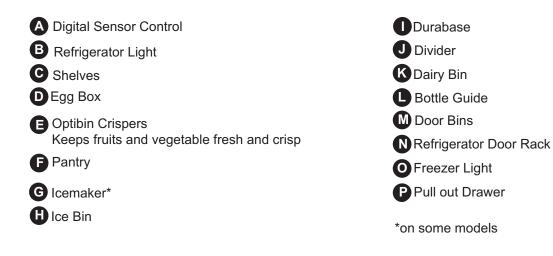
2. PARTS IDENTIFICATION

2-1 FREEZER DRAWER MODEL

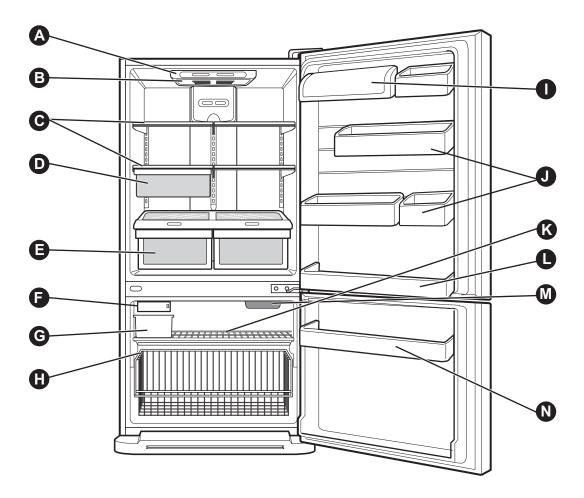


Use this section to become more familiar with the parts and features.

NOTE: This guide covers several different models. The refrigerator you have purchased may have some or all of the items listed below. The locations of the features shown below may not match your model.



2-2 FREEZER SWING MODEL



Use this section to become more familiar with the parts and features.

NOTE: This guide covers several different models. The refrigerator you have purchased may have some or all of the items listed below. The locations of the features shown below may not match your model.





N Freezer Door Rack

3. DISASSEMBLY

3-1 FAN AND FAN MOTOR

1. Remove the freezer shelf. (If your refrigerator has an icemaker, remove the icemaker first).

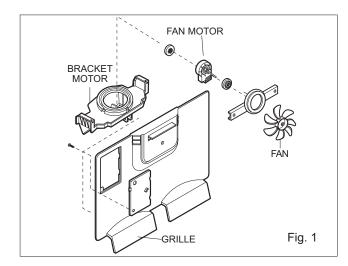
2. Remove the plastic guide for slides on left side by

unscrewing phillips head screws.

3. Remove the grille by removing one screw and pulling the grille forward.

4. Remove the Fan Motor assembly by loosening 2 screw and disassemble the shroud.

5. Pull out the fan and separate the Fan Motor and Bracket.



3-2 DEFROST CONTROL ASSEMBLY

Defrost Control assembly consist of Drefrost Sensor and FUSE-M.

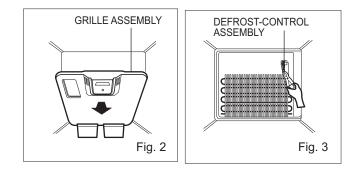
The Defrost Sensor works to defrost automatically. It is attached to the metal side of the Evaporator and senses its temperature.

Fuse-M is safety device for preventing over-heating of the Heater when defrosting.

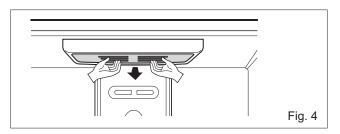
At 72°C, it turns the Defrost Heater off.

1. Pull out the grille assembly. (Figure 2)

2. Separate the connector with the Defrost Control assembly and replace the Defrost Control assembly after cutting the Tie Wrap. (Figure 3)



3-3 LAMP



3-3-1 REFRIGERATOR COMPARTMENT LAMP

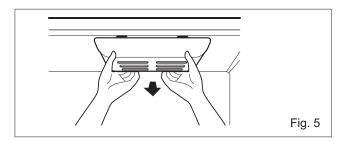
1. Unplug the power cord from the outlet.

2. Remove Refrigerator shelves.

3. Release the hooks on both ends of the lamp shield and pull the shield downward to remove it.

- 4. Turn the lamp counterclockwise.
- 5. Assemble in reverse order of disassembly.

6. Replacement bulb must be the same specification as the original (Max. 60 W-2EA).

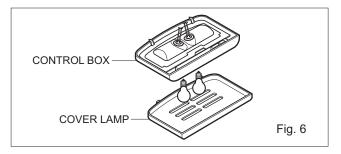


3-3-2 FREEZER COMPARTMENT LAMP

- 1. Unplug refrigerator or disconnect power.
- 2. Reach behind light to remove bulb.
- 3. Replace bulb with a 60W appliance bulb.
- 4. Plug in refrigerator or reconnect power.

3-4 CONTROL BOX-REFRIGERATOR

1. First, remove all shelves in the refrigerator, than remove the Refrigerator control Box by loosening 2 screws.

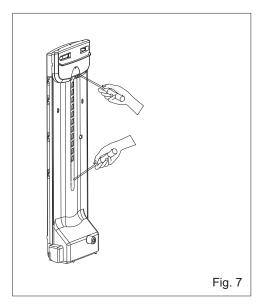


- 2. Remove the Refrigerator Control Box by pulling it downward.
- 3. Disconnect the lead wire on the right position and separate the lamp sockets.

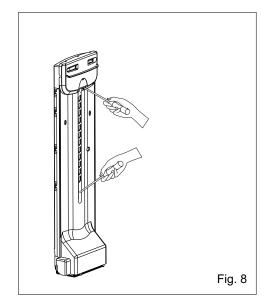
3-5 MULTI DUCT

- 1. Remove an upper and lower Cap by using a flat screwdriver, and loosen 2 screws. (Figure 7,8)
- 2. Disconnect the lead wire on the botton position.

For Drawer Type Models

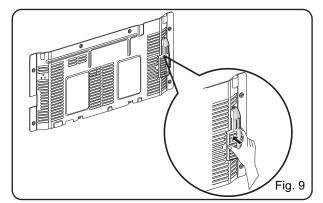


For Swing Type Models

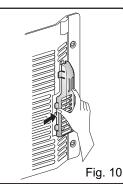


3-6 COVER VALVE 3-6-1 DISASSEMBLE

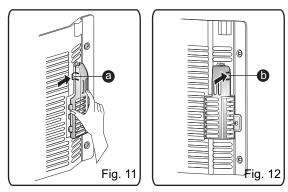
1. Push to inside the cover valve.



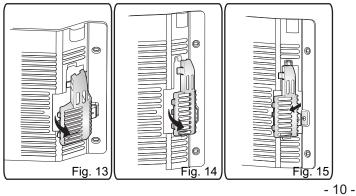
2. Push to the right and release.



3. Release hook (a) & (b)

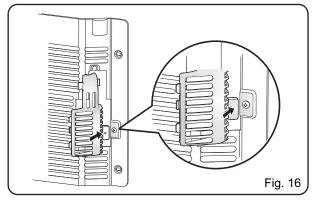


4. Turn the cover valve 120° as shown in the picture, then release it.

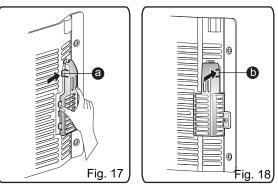


3-6-2 ASSEMBLE

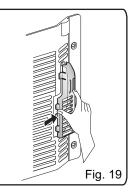
1. Insert the cover valve as shown in the picture, push to insert (may need force).



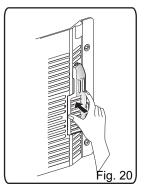
2. Insert hook 2 & D



3. Push to the right to insert the cover valve.



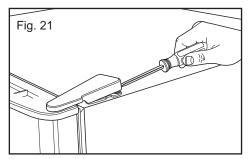
4. Then push to inside to assembly.



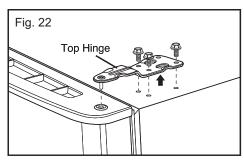
3-7 DOOR DISASSEMBLY FOR DRAWER TYPE MODELS

3-7-1 REMOVE DRAWER REFRIGERATOR DOOR

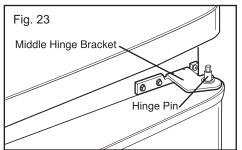
• Gently pry off Top Hinge Cover with a flat head screwdriver and remove.



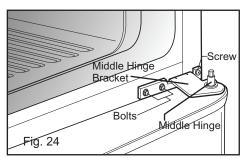
• Using 10mm or 13/32-inch socket wrench, remove the 3 bolts and lift off the Top Hinge. Set parts aside.



• Lift up door slightly and remove it. Place door on a non scratching surface.

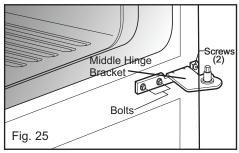


- · Remove washer and set aside.
- Use a 10mm or 13/32 inch socket wrench to remove the 2 bolts in Middle Hinge Bracket. Remove screws. Set Middle Hinge Bracket and other parts aside.

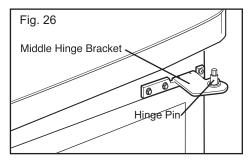


3-7-2 REPLACE DRAWER REFRIGERATOR DOOR

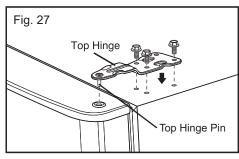
• Reattach Middle Hinge Bracket with the previously removed 2 bolts and 2 screws.



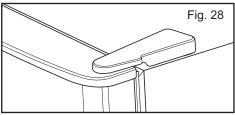
• Put refrigerator door down over the Hinge Pin on the Middle Hinge Pin Bracket.



• Line up Top Hinge with holes in top of refrigerator. Use the 3 bolts to replace the Hinge.

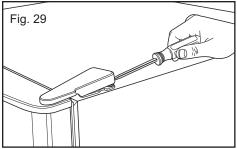


• Tighten Bolts. Force-fit Top Hinge Cover over top Hinge.

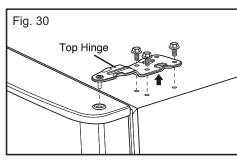


3-7-3 REVERSE DRAWER REFRIGERATOR DOOR

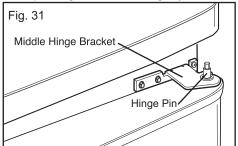
• Gently pry off Top Hinge Cover with a flat head. screwdriver and remove.



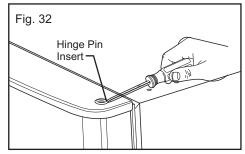
• Using 10mm or 13/32-inch socket wrench, remove the 3 bolts and lift off the Top Hinge. Set parts aside.



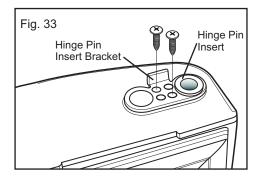
· Lift up refrigerator door slightly and remove it.



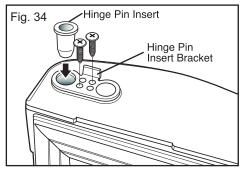
• Remove Hinge Pin Insert on the right side of the door and reinstall on left side.



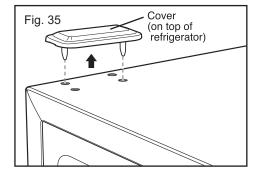
- Turn refrigerator door upside down on a non-scratch surface.
- Loosen the 2 screws to remove the Bottom Hinge Pin Insert Bracket with Hinge Pin Insert.



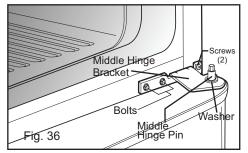
- Remove screw on the opposite side of the door. This screw is no longer necessary and can be discarted.
- Move the Hinge Pin Insert Bracket to the other side of the door, keeping the same orientation, and push the Hinge Pin Insert into the hole on the left side of the bracket. Insert the 2 screws as shown below.



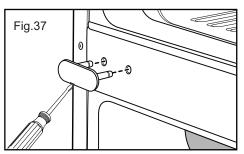
• Pry off cover on top of refrigerator on left side to uncover screw holes and place it on the right side.



- Remove Washer and set aside.
- Using a 1/4 socket wrench, loosen and remove Hinge Pin from the Middle Hinge Bracket.

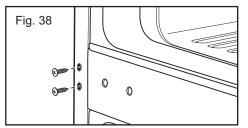


- Use a 10mm or 13/32 inch socket wrench to remove the 2 bolts in Middle Hinge Bracket. Remove 2 screws. Set Middle Hinge Bracket and other parts aside.
- With a flat-head screwdriver, carefully pry off and remove the cover over the screw holes on the left side of refrigerator housing.

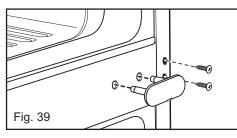


• Remove the 2 outer screws from cabinet frame as shown.

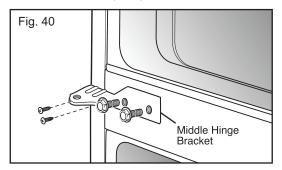
You will need these holes for the Middle Hinge Bracket.



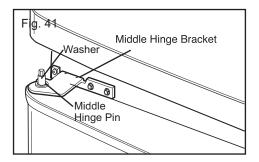
• Place screws into outer holes on right side of cabinet. Attach cover on the right side. Cover is force-fitted.



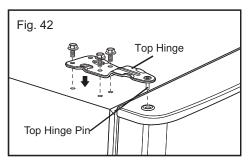
• Flip the middle hinge bracket and position on left side of refrigerator and re-attach with two bolts and a 2 phillips screws.



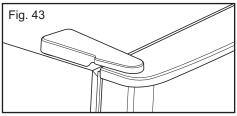
- Attach Middle Hinge Pin and replace washer.
- Put refrigerator door down over the Hinge Pin on the Middle Hinge Pin Bracket.



• Line up Top Hinge with holes in top of refrigerator. Use the 3 bolts to replace the Hinge.



• Tighten Bolts. Force-fit Top Hinge Cover over top Hinge.

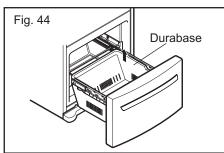


3-7-4 PULL OUT DRAWER

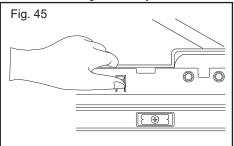
(a) HOW TO REMOVE PULL OUT DRAWER

IMPORTANT: To avoid possible injury, product or property damage, you will need two people to perform the following instructions.

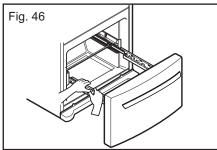
 Pull the drawer open to full lower extension. Remove durabase by lifting it from rail system.



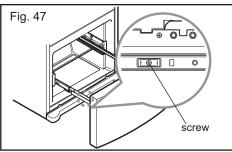
• Press both hangers with yours thumbs to lift it up.



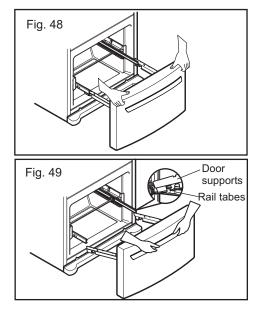
· Separate the left and right rail cover



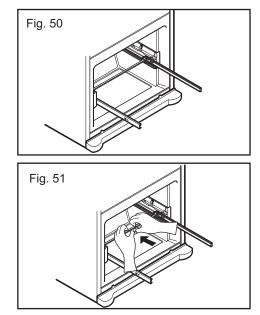
• Remove the screws of the rail on both sides.



- CAUTION: When removing drawer door, do not hold it by the handle. Door could fall down and you may be injured grasp door with both hands as pictured below When removing.
- CAUTION: When laying down the drawer, be careful not to damage the floor or hurt your feet with the sharp edges on hinge side.
- With both hands, hold both sides of the door and pull it up to separate it from the rails.

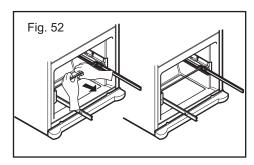


• Push rails back into drawe cavity. With both hands, hold the center of the bar and push it in so that both rails go back simultaneously.

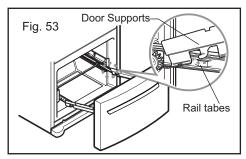


(b) HOW TO INSTALL PULL OUT DRAWER

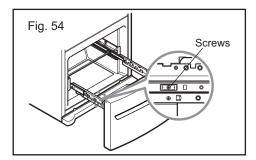
- **IMPORTANT:** To avoid possible injury, product or property damage, you will need two people to perform the following instructions.
- With both hands, hold the center of the bar and pull it out to let both rails out to full extension simultaneously.



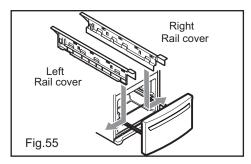
• Hook door supports into rail tabs.



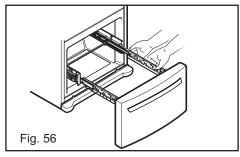
· Lower door into final position and tighten the screws.



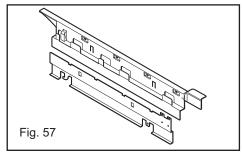
• Make sure you have a right rail cover for each side.

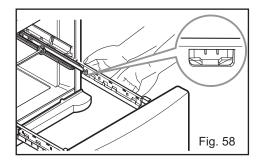


• Align the top holes of the rail cover with the top holes of the door supports to assemble the rail cover.

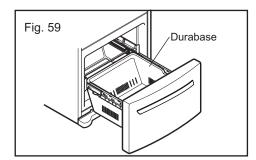


· Verify the hole's assembly





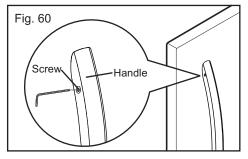
• With the rails pulled out to full extension, insert the durabase in the rail assembly.



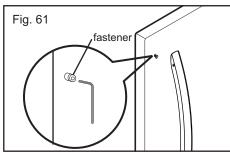
- ▲ WARNING: To prevent accidental child and pet entrapment or suffocation risk. DO NOT allow them to play inside of drawer.
- **WARNING:** DO NOT step or sit down on Freezer Door.

3-7-5 HOW TO REVERSE DRAWER DOOR HANDLE

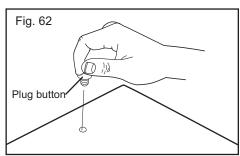
- **NOTE**: Handle appearance may vary from illustrations on this page.
- Loosen the 2 set screws with the 3/32" Allen wrench and remove the handle.



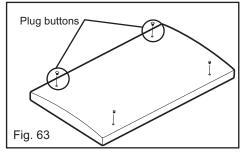
• Loosen the handle mounting fasteners with the 1/4" Allen wrench.



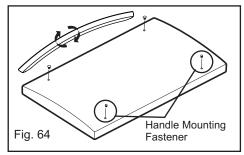
• Unscrew the buttons with your fingers by rotating counterclockwise; they will loosen and fall free.



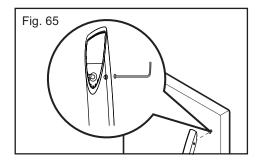
• Install the plug buttons on the left side.



Install the handle mounting fasteners
 on the right side. Turn handle upside down.



• Install the handle by adjusting handle footprints to fit mounting fasteners. Using a 3/32" allen wrench tighten the set screws.

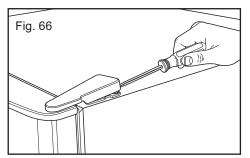


3-8 DOOR DISASSEMBLY FOR SWING TYPE MODELS

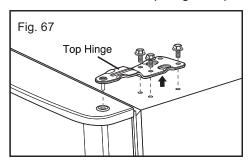
3-8-1 REMOVE SWING REFRIGERATOR AND FREEZER DOORS

Before removing the doors, remove the Base Grille.

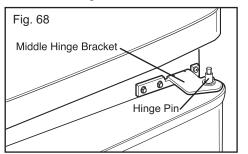
• Gently pry off the Top Hinge Cover with a flat head screwdriver and remove.



• Using 10mm or 13/32-inch socket wrench, remove the 3 bolts and lift off the Top Hinge. Set parts aside.



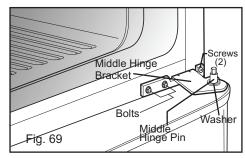
• Lift up door slightly and remove it. Place door on a non scratching surface.



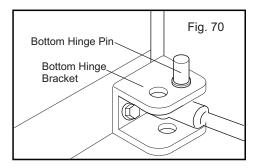
· Remove washer and set aside.

Using a 1/4 socket wrench, loosen and remove Hinge Pin from the Middle Hinge Bracket.

• Use a 10mm or 13/32 inch socket wrench to remove the 2 bolts in Middle Hinge Bracket. Remove screws. Set Middle Hinge Bracket and other parts aside.

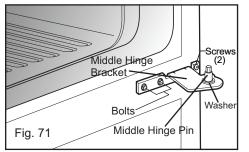


- Carefully lift up the freezer door. Remove and place • it on a non-scratching surface.
- Using a 13/32" 10mm socket wrench with a
- 2" extension, loosen the 2 bolts and remove Bottom Hinge Bracket from right side.

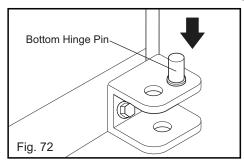


3-8-2 REPLACE SWING REFRIGERATOR AND FREEZER DOORS

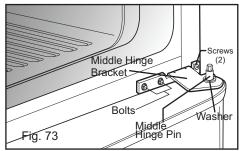
- Reattach Bottom Hinge Bracket using the 2 previously removed bolts.
- Reattach Middle Hinge Bracket with the previously removed 2 bolts and 2 screws.



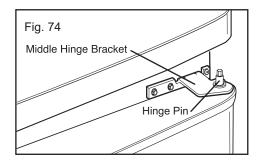
• Place freezer door down on Bottom Hinge Pin.



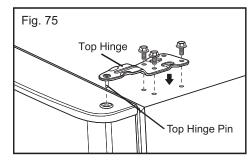
Reattach Middle Hinge Pin. Replace washer.



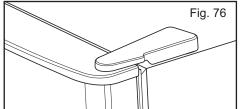
• Put refrigerator door down over the Hinge Pin on the Middle Hinge Pin Bracket.



• Line up Top Hinge with holes in top of refrigerator. Use the 3 bolts to replace the Hinge.

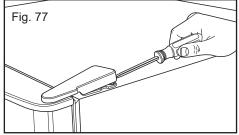


 Tighten Bolts. Force-fit Top Hinge Cover over top Hinge.

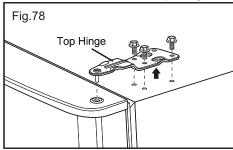


3-8-3 REVERSE SWING REFRIGERATOR AND FREEZER DOORS

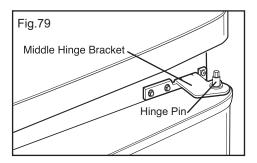
• Gently pry off the Top Hinge Cover with a flat head screwdriver and remove.



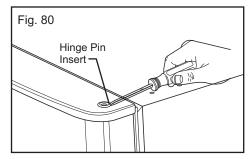
 Using 10mm or 13/32-inch socket wrench, remove the 3 bolts and lift off the Top Hinge. Set parts aside.



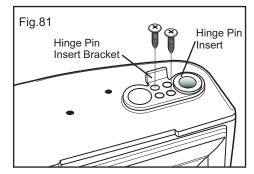
· Lift up refrigerator door slightly and remove it.



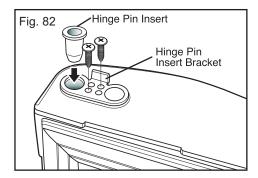
• Remove Hinge Pin Insert on the right side of the door and reinstall on left side of door.



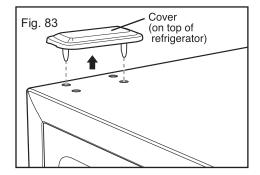
- Turn refrigerator door upside down on a non-scratch surface.
- Loosen the 2 screws to remove the Bottom Hinge Pin Insert Bracket with Hinge Pin Insert.



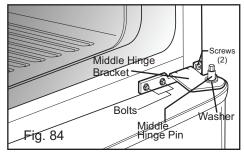
- Remove the screw on the opposite side of the door. This screw is no longer necessary and can be discarted.
- Move the Hinge Pin Insert Bracket to the other side of the door, keeping the same orientation, and push the Hinge Pin Insert into the hole on the left side of the bracket. Insert the 2 screws as shown below.



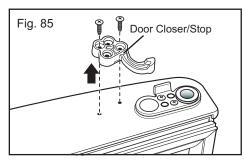
• Pry off cover on top of refrigerator on left side to uncover screw holes and place ir on the right side.



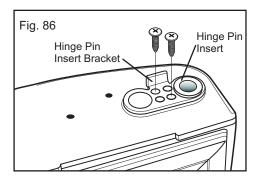
- Remove Washer and set aside.
- Using a 1/4 socket wrench, loosen and remove Hinge Pin from the Middle Hinge Bracket.



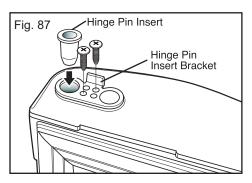
- Carefully lift up the freezer door. Remove and place it on a non scratching surface.
- Turn freezer door upside down.
- With door upside down, loosen the 2 screws and remove the Door Closer/Stop.



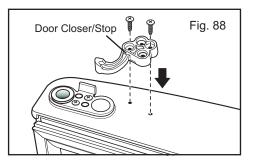
Loosen the 2 screws to remove the Bottom Hinge Pin Insert Bracket with Hinge Pin Insert.



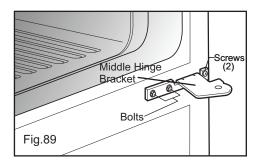
- Remove the screw on the opposite side of the door. This screw is no longer necessary and can be discarted.
- Move the Hinge Pin Insert Bracket to the other side of the door, keeping the same orientation, and push the Hinge Pin Insert into the hole on the left side of the bracket. Insert the 2 screws as shown below.



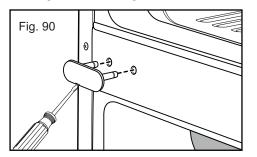
• Take Door Closer/Stop and flip. Line up screw holes and mount on left side of door bottom with the 2 screws. Turn door upright and set aside.



• Use a 10mm or 13/32 inch socket wrench to remove the 2 bolts in Middle Hinge Bracket. Remove 2 screws. Set Middle Hinge Bracket and other parts aside.

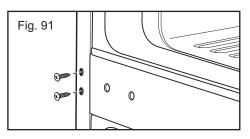


• With a flat-head screwdriver, carefully pry off and remove the cover over the screw holes on the left side of refrigerator housing.

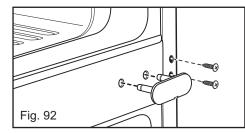


• Remove the 2 outer screws from cabinet frame as shown.

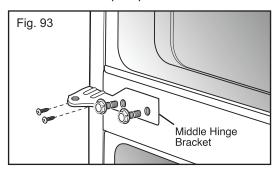
You will need these holes for the Middle Hinge Bracket.



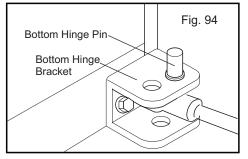
• Place screws into outer holes on right side of cabinet. Attach cover on the right side. Cover is force-fitted.



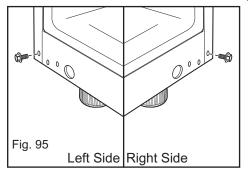
• Flip the middle hinge bracket and position on left side of refrigerator and re-attach with two bolts and a 2 phillips screws.



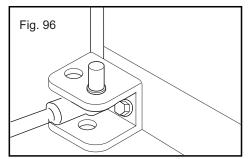
• Using a 13/32" or 10mm socket wrench with 2" extension, loosen the 2 bolts and remove bottom hinge from right side.



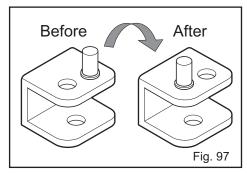
Remove the bolt on bottom of refrigerator from the left side and insert it on the right side. You will need this hole for the Bottom Hinge.



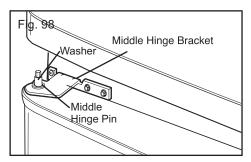
• Move the Bottom Hinge to the left side keeping the same orientation and attach 2 bolts.



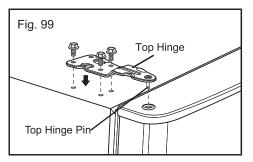
• Change the Hinge Pin from the right side to left side.



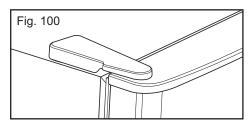
- Put freezer door down over the Bottom Hinge Pin on the Bottom Hinge Bracket.
- Reattach Middle Hinge Pin using a 1/4" socket wrench. Replace washer.
- Put refrigerator door down over the Hinge Pin on the Middle Hinge Pin Bracket.



• Line up Top Hinge with holes in top of refrigerator. Use the 3 bolts to replace the Hinge.

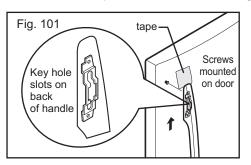


• Tighten Bolts. Force-fit Top Hinge Cover over top Hinge.

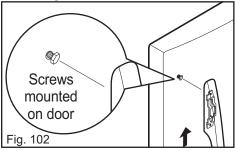


3-8-4 HOW TO REVERSE SWING DOOR HANDLE

- **NOTE**: To assist in installing the handle on the right side, place a small piece of masking tape near the top of the handle before removing.
- Grasp the handle tightly with both hands and slide the handle up (this may require some force).
- The keyhole slots on the back of the handle allow the handle to separate from the mounting screws.

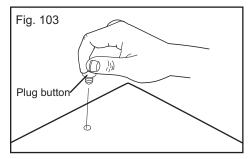


• Use an adjustable wrench to remove the 2 handle mounting screws.

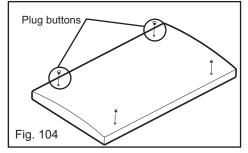


To avoid scratching the door. Do not remove the plug buttons by prying with a screwdriver.

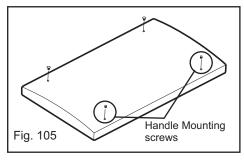
• Unscrew the buttons with your fingers by rotating counterclockwise; they will loosen and fall free.



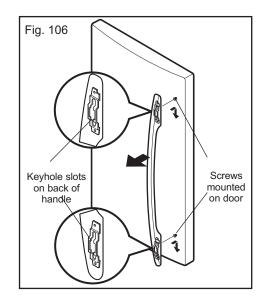
· Install the plug buttons on the left side.



• Install the handle mounting screws on the right side.

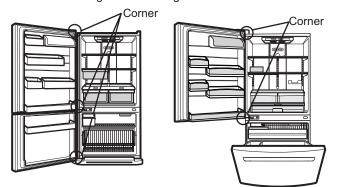


 Align the keyhole slots on the door handle to the handle mounting screws on the door and grasping the handle with both hands, press it firmly against the front of the door and slide the handle down. This may require some force.



3-9 AFTER COMPLETING THE JOB

Make sure that the four corners of the door gasket are not folded over . To ensure a good seal, apply a small amount of silicon grease on the gasket.



3-10 LEVELING AND DOOR CLOSING

To avoid vibration, the unit must be leveled. If necessary adjust the Leveling Legs to compensate for unevenness of the floor. The front should be slightly higher than the rear to aid in door closing.

Your refrigerator has two Front Leveling Screws - one on the right and one on the left. If your refrigerator seems unsteady or you want the doors to close more easily, adjust the refrigerator's tilt using the instruction below:

1. Plug refrigerator power cord into a 3-prong grounded outlet. Move the refrigerator into its final position.

2. Remove the base grille. The two Leveling screws are located on the bottom of the refrigerator on either side.

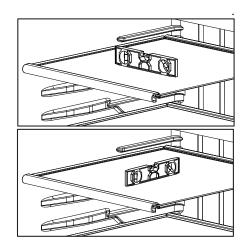
3. Insert a flat screwdriver in slots to adjust the Leveling Screws. Turn the leveling screw clockwise to raise the side of the refrigerator or counterclockwise to lower it. It may take several turns of the Leveling screw to adjust the tilt of the refrigerator.

NOTE: Having someone push against the top of the refrigerator takes some of the weight off the Leveling Screws. This makes it easier to adjust the screws.

4. Open both doors again and check to make sure that they close easily. If not, tilt the refrigerator slightly more to the rear by turning both Leveling Screws clockwise. It may take several more turns, and you should turn both Leveling Screws the same amount.

5. Replace the base grille.

Place level tool on refrigerator shelf as shown below to check if until is level.



3-11 DOOR ALIGNMENT

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

1. Gently pry off the Top Hinge Cover with a flat head screwdriver and remove. Loosen the Top Hinge Bolts using a 10mm or 13/32 in socket wrench or open-end wrench.

2. Have someone hold the freezer door so the space between the two doors is even, and retighten the top hinge bolts.

3. Replace the top hinge Cover.

4. ADJUSTMENT

4-1 COMPRESSOR

4-1-1 Role

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

4-1-2 Composition

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.

4-1-3 Note for Usage

- (1) Be careful not to allow over-voltage and over-current.
- (2) If compressor is dropped or handled carelessly, poor operation and noise may result.
- (3) Use proper electric components appropriate to the Particular Compressor in your product.
- (4) Keep Compressor dry. If the Compressor gets wet (in the rain or a damp environment) and rust forms in the pin of the Hermetic Terminal, poor operation and contact may result.
- (5) When replacing the Compressor, be careful that dust, humidity, and soldering flux don't contaminate the inside of the compressor. Dust, humidity, and solder flux contaminate the cylinder and may cause noise, improper operation or even cause it to lock up.

4-2 PTC-STARTER

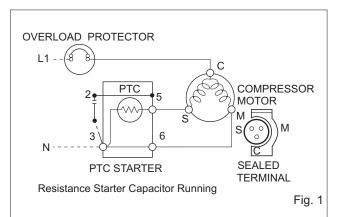
4-2-1 Composition of PTC-Starter

- PTC (Positive Temperature Coefficient) is a no-contact semiconductor starting device which uses ceramic material consisting of BaTiO3.
- (2) The higher the temperature is, the higher the resistance value. These features are used as a starting device for the Motor.

4-2-2 Role of PTC-Starter

- (1) The PTC is attached to the Sealed Compressor and is used for starting the Motor.
- (2) The compressor is a single-phase induction motor. Durign the starting operation, the PTC allows current flow to both the start winding and main winding.

4-2-3 PTC-Applied Circuit Diagram Starting Method for the Motor



4-2-4 Motor Restarting and PTC Cooling

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

4-2-5 Relation of PTC-Starter and OLP

- 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.
- (2) 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.

4-2-6 Note for Using the PTC-Starter

- (1) Be careful not to allow over-voltage and over-current.
- (2) Do not drop or handle carelessly.
- (3) Keep away from any liquid.

If liquid such as oil or water enters the PTC, PTC materials 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 possibly death.

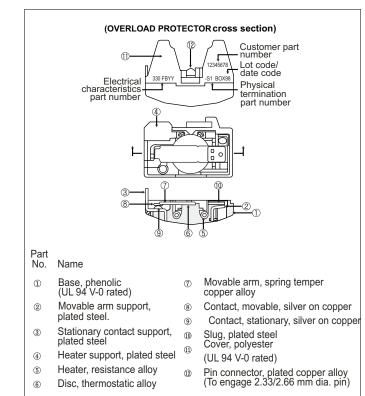
4-3 OLP (OVERLOAD PROTECTOR)

4-3-1 Definition of OLP

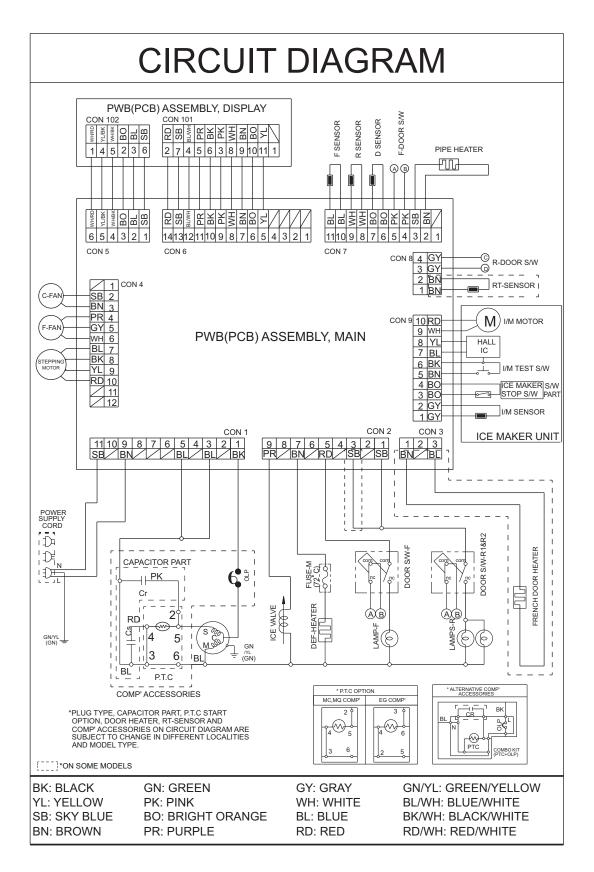
- (1) OLP (OVERLOAD PROTECTOR) is attached to the Compressor and protects the Motor by opening the circuit to the Motor if the temperature rises and activating the bimetal spring in the OLP.
- (2) When high current flows to the Compressor motor, the Bimetal works by heating the heater inside the OLP, and the OLP protects the Motor by cutting off the current flowing to the Compressor Motor.

4-3-2 Role of the OLP

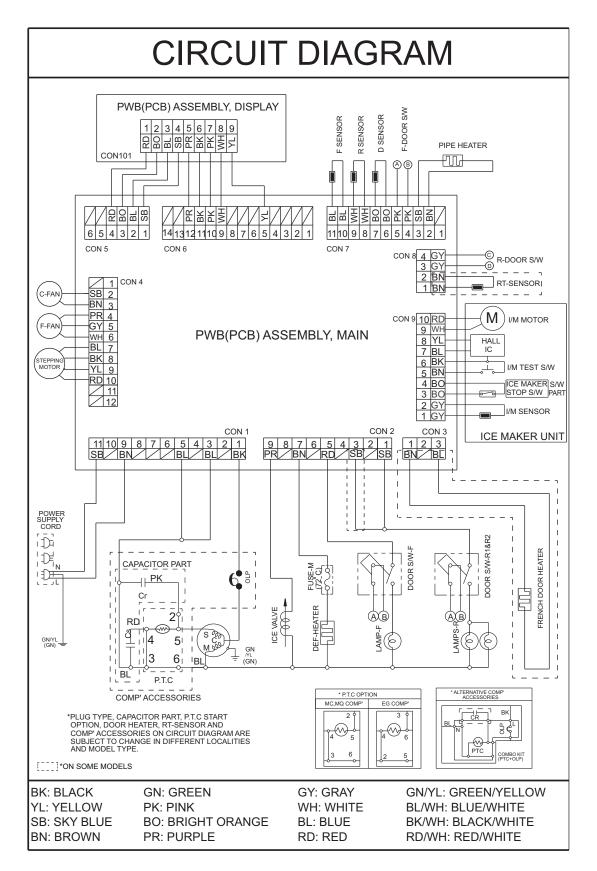
- (1) The OLP is attached to the Sealed Compressor used for the Refrigerator. It prevents the Motor Coil from being started in the Compressor.
- (2) For normal operation of the OLP, do not turn the Adjust Screw of the OLP in any way.



5-1 For Drawer Type Models

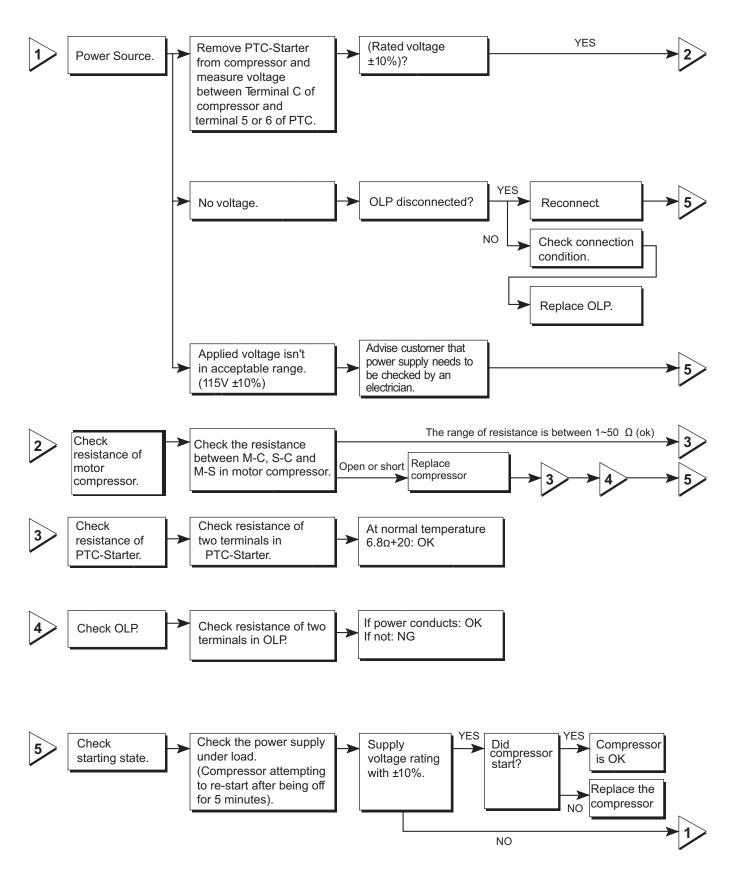


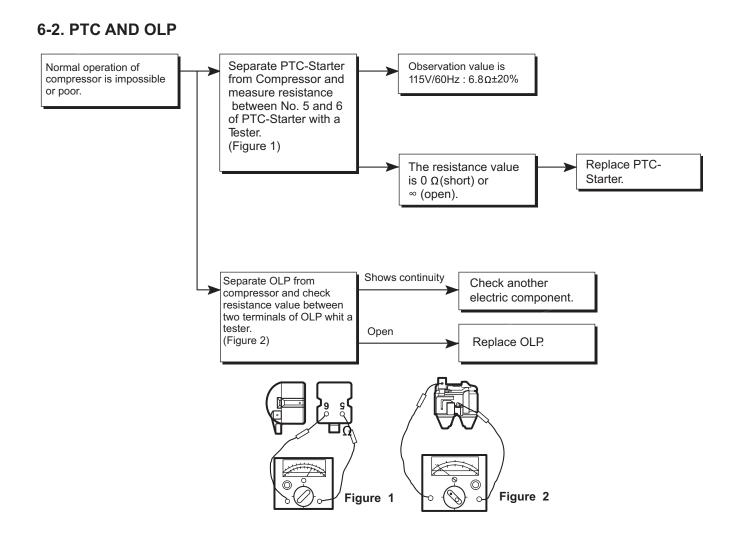
5-2 For Swing Type Models



6. TROUBLESHOOTING

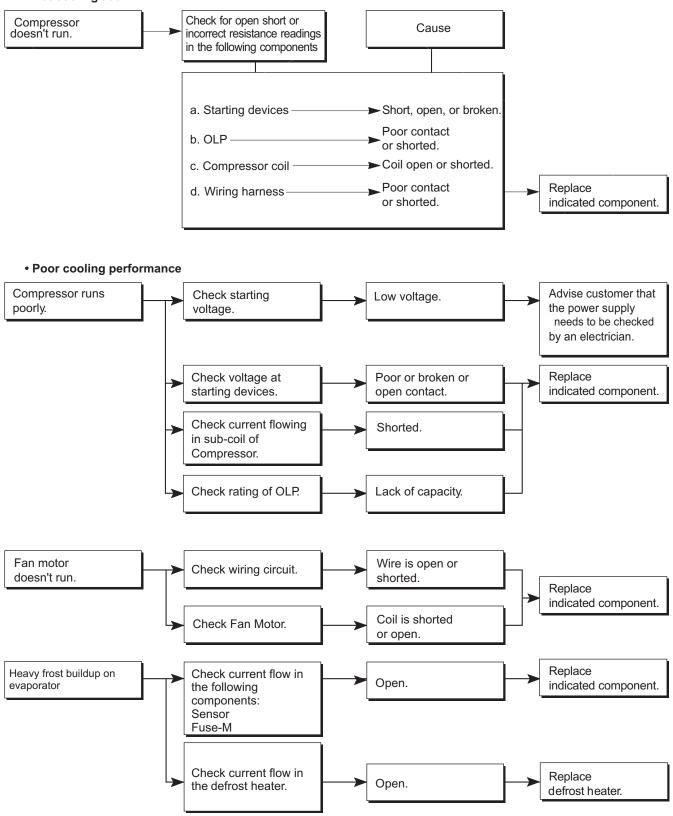
6-1. COMPRESSOR AND ELECTRIC COMPONENTS





6-3 OTHER ELECTRICAL COMPONENTS

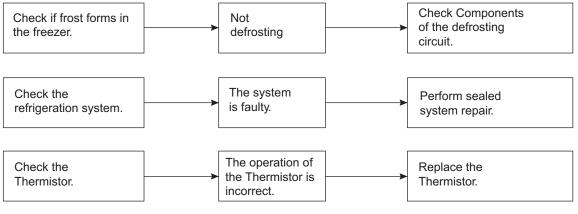
Not cooling at all



6-4 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. 	
Foods in the Refrigerator are 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. 	
Condensartion 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. 	
Condensartion 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 Tray Drip is not firmly fixed. Check if the cover of the compressor enclosure in the front lower side is taken out. 	 Adjust the Leveling Screw, and position the refrigerator in a firm place. Remove the objects. Fix the Tray Drip 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 the 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:

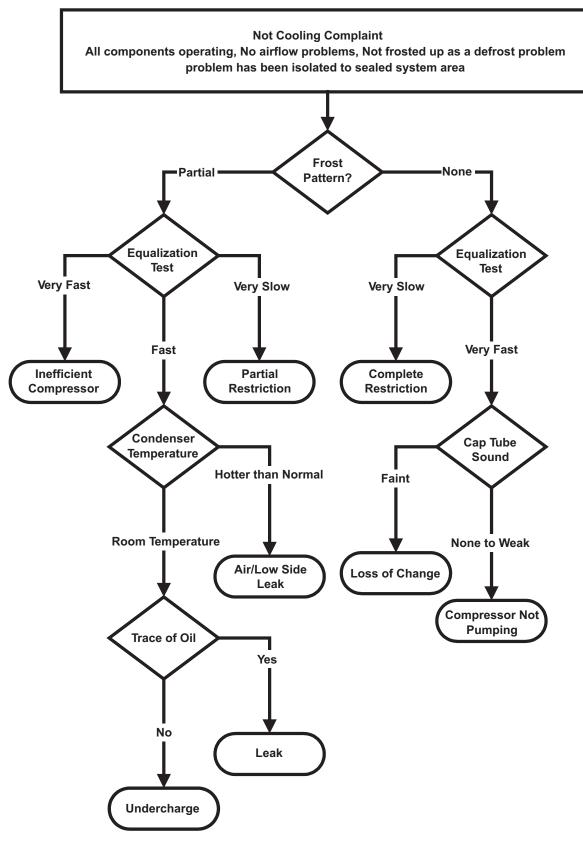


6-5 REFRIGERATION CYCLE

• Troubleshooting Chart

	CAUSE	STATE OF THE UNIT	STATE OF THE EVAPORATOR	TEMPERATURE OF THE COMPRESSOR	REMARKS
LEAKAG	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.
AGE	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.
RESTRICTION	PARTIAL RESTRICTION	Freezer compartment and refrigerator don't cool normally	Flowing sound of refrigerant is heard and frost forms in inlet only.	A little higher than ambient temperature.	 Normal discharging of the refrigerant. The capillary tube is faulty.
CTION	COMPLETE RESTRICTION	Freezer compartment and refrigerator don't cool.	Flowing sound of refrigerant is not heard and frost isn't formed.	Equal to ambient temperature.	- Normal discharging of the refrigerant.
	STURE STRICTION	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.
COMPR	COMPRE- SSION	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.
11117	NO COMPRE- SSION	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.

6-5-1 SEALED SYSTEM DIAGNOSIS

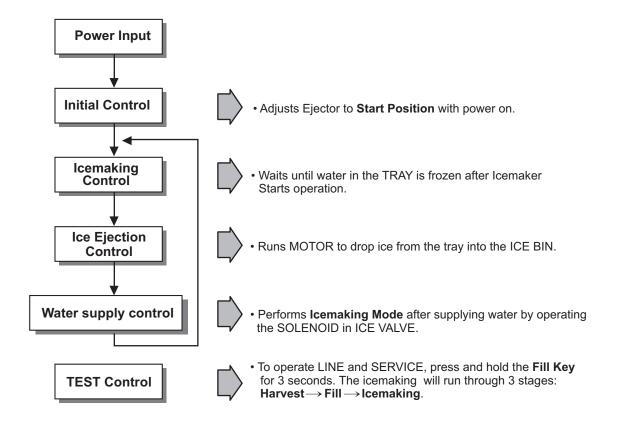


(The equalization test is trying to restart a compressor after it has been operating.)

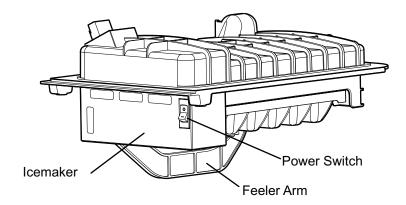
7. OPERATION PRINCIPLE AND REPAIR METHOD OF ICEMAKER

7-1 OPERATION PRINCIPLE

7-1-1 Operation Principle of Icemaker



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



7-2 ICEMAKER FUNCTIONS

7-2-1 Start Position

1) When power is initially applied or reapplied after power is cut, it detects level of the TRAY after completion of MICOM initialization. The detecting lever moves up and down.

2) The level of icemaker tray is judged by output signal, high and low signal, of HALL SENSOR. Make the tray to horizontal by rotating ice ejection motor in normal or reverse direction so that High/Low signal can be applied to MICOM Pin (P22).

3) If there is no change in signals one minute after the geared motor starts to operate, it stops icemaker operation and check the signal every hour. It resets initialization of icemaker when it becomes normal. Ice ejection conducts for 1 cycle.

7-2-2 Icemaking Mode

a) Ice making control is carried out from the completion of water supply to the completion of ice making in the TRAY. Ice making sensor detects the temperature of TRAY and completes ice making.(Ice making sensor is fixed below the TRAY.)

b) Ice making control starts after completion of water supply control or initial control. Under the ice making control, the F room temperature should be operated with the NOTCH of "Normal/Strong".

c) It is judged that ice making is completed when ice making sensor temperature reaches at -8 after 70 minutes + 10 minutes when water is supplied to the TRAY.

7-2-3 Ice Ejection Mode

a) This is to eject ice from the TRAY after ice making is completed.

b) If Hall IC signal is on within 3.6 seconds after ice ejection motor rotates in normal direction, it does not proceed ice ejection but waits. If the ice bank is full, ice ejection motor rotates in normal direction in every hour to check the condition of ice bank. If the ice bank is not full, the water supply control starts after completion of ice ejection control. If the ice bank is full, ice ejection motor rotates in reverse direction and stops under ice making or waiting conditions.

c) If ice bank is not full, ice ejection starts. The TRAY tilts to the maximum and ice is separated from the TRAY and ice checking lever raises.

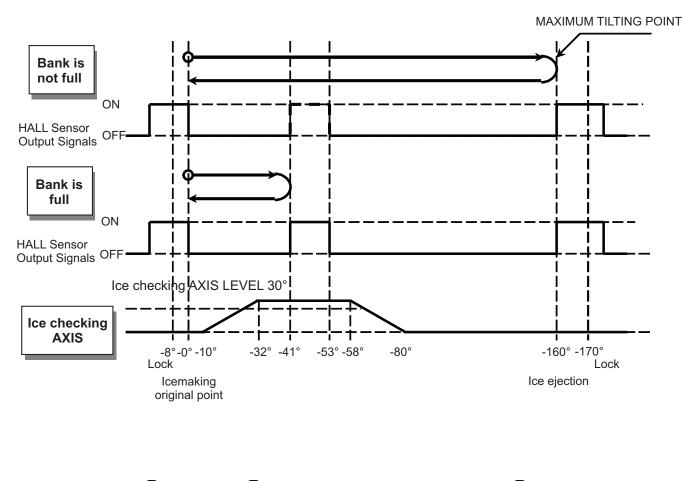
d) Ice ejection motor stops for 1 second if Hall IC signal changes from OFF (low) to ON (high) after 3.6 seconds when ice ejection motor rotates in normal direction. If there is no change in Hall IC signals within 1 minute after ice ejection motor operates, ice ejection motor stops as ice ejection motor or hall IC is out of order.

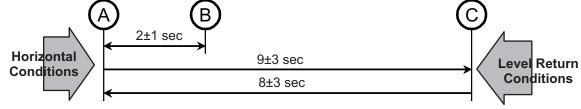
e) If ice ejection motor or Hall IC is abnormal, ice ejection motor rotates in normal direction to exercise initial operation in every hour. It resets the ice maker if ice ejection motor or Hall IC is normal.

f) The TRAY stops for 1 second at maximum tilted conditions.

g) The TRAY returns to horizontal conditions as ice ejection motor rotates in reverse direction.

h) When the TRAY becomes horizontal , the cycle starts to repeat. Water Supply – Ice making – Ice ejection – TRAY returns to Horizontal.





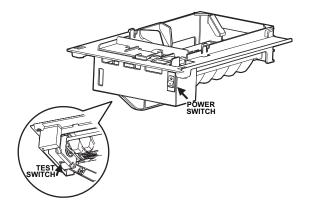
7-2-4 Test Icemaker Mode

Test function starts when test switch is pressed for more than **3 seconds**. User shouldn't force operation while doing test mode, service or cleaning.

Test switch will work only when ice tray its in horizontal position, not during ice ejection or water supplying.

When pressing the Test Switch, feeler arm will sense and then ice tray will start ice ejection, after twisting, ice tray returns to initial position. When returning to horizontal position, water supply will start feeling the ice tray. After this, test mode its done.

Test mode cycle elapsed time of 30 seconds its shown as the next sequence: Feeler arm sensing – Ice ejecting – Ice tray returns to horizontal position – Water supply.



7-2-5 Water Supply Function

This function is for supply water to tray ,by the mechanic water valve ,when ice ejecting finish and tray return to initial position.

Water supply quantity depend of DIP S W.

Water Supply Time Table

No	DISP S/W		Water Supply Time	Note			
	S1	S2	Water Supply Time	NOLE			
1	OFF	OFF	9.0				
2	ON	OFF	8.0	DIP S/W Setting will be depend of			
3	OFF	ON	10.0	water pressure			
4	ON	ON	11.0				

If water supply setting is changed while system is energized, change will be made immediately. But if change occurs when water supply function is working, change will be executed next cycle of icemaker

7-2-6 Ice maker stop switch

- Ice Maker Stop S/W ON state, Ice Maker normal operation
- Ice Maker Stop S/W OFF state: Ice Maker do not operate

8. CIRCUIT OF MICOM (DRAWER TYPE MODELS)

8-1 FUNCTION

8-1-1 Function

Initially set the Refrigerator control at 37°F (3°C) and the Freezer control at 0°F(-18°C)
 You can adjust the Refrigerator and the Freezer control temperature by pressing the Colder ADJUST button.
 When the power is restored after a power failure, it is automatically set to last setting selected.

*Note: To ERROR CODE on display panel refer to page 41.



8-1-2 How to Toggle the Display between °F & °C

1. The display temperature mode can be changed from °F to °C or °C to °F by pressing and holding the COLDER FREEZER TEMP and the COLDER REFRIGERATOR TEMP keys at the same time for over one second.

2. The initial setting is °F. Whenever the mode is changed, the appropriate LED is it.

8-1-3 Control of freezer fan motor

1. Freezer fan motor runs at either regular or high speed (2,400 or 2,700 rpm.)

2. High RPM is used when electricity is first on, for ULTRA ICE, and when refrigerator is overloaded.

Standard RPM is used for normal usage.

3. The fan motor is stopped when refrigerator door is opened

8-1-4 ULTRA ICE

1. The purpose of this function is to intensify the cooling speed of freezer and to increase the amount of ice.

2. Whenever selection switch is pressed, selection/release, the LED will turn ON or OFF.

3. If there is a power outage and the refrigerator is powered on again, ULTRA ICE will be canceled.

4. To activate this function you need to press the ULTRA ICE key and the LED will turn ON. This function will remain activated for 24 hrs. The first three hours the compressor and Freezer Fan will be ON. The next 21hours the freezer will be controlled at the lowest temperature. After 24 hours or if the ULTRA ICE key is pressed again, the freezer will return to its previous temperature.

5. During the first 3 hours:

(1) Compressor and freezer fan (HIGH RPM) run continuously.

(2) If a defrost cycle begins during the first 90 minutes of ULTRA ICE, the ULTRA ICE cycle will complete its cycle after defrosting has ended. If the defrost cycle begins when ULTRA ICE has run for more than 90 minutes, ULTRA ICE will run for two hours after the defrost is completed.

(3) If ULTRA ICE is pressed during defrost, ULTRA ICE is on, this function will start seven minutes after defrost is completed and it shall operate for three hours.

(4) If ULTRA ICE is selected within seven minutes after compressor has stopped, the compressor (compressor delays seven minutes) will start after the balance of the delay time.

(5) The fan motor in the freezer compartment rotates at high speed during ULTRA ICE.

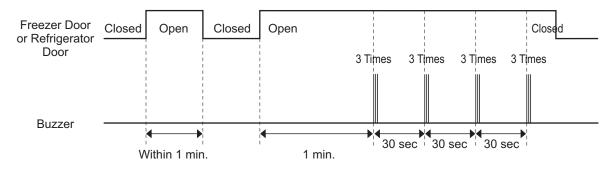
6. For the rest of 21 hours, the freezer will be controlled at the lowest temperature.

8-1-5. Refrigerator Lamp Auto Off

1. To protect the risk of lamp heat, when Refrigerator door opens for 7 min., refrigerator lamp is auto off.

8-1-6 Alarm for Open Door

- 1. This feature sounds a buzzer when the freezer or refrigerator door is not closed within 1 minute after it is opened.
- 2. One minute after the door is opened, the buzzer sounds three times each for 1/2 seconds. These tones repeat every 30 seconds.
- 3. The alarm is cancelled when the freezer or the refrigerator is closed while the buzzer sounds.



8-1-7 Buzzer Sound

When the button on the front Display is pushed, a Ding~ Dong~ sound is produced.

8-1-8 Defrosting (removing frost)

- 1. Defrosting starts each time the COMPRESSOR running time reaches 7 hours.
- 2. For initial power on or for restoring power, defrosting starts when the compressor running time reaches 4 hours.
- 3. Defrosting stops if the sensor temperature reaches 46.4°F(8°C) or more. If the sensor doesn't reach 46.4°F(8°C) in 2 hours, the defrost mode is malfunctioning. (Refer to the defect diagnosis function, 8-1-9.)
- 4. Defrosting won't function if its sensor is defective (wires are cut or short circuited)

8-1-9 Electrical Parts Are Turned On Sequentially

Electrical parts such as COMP, defrosting heater, freezer FAN, etc. are turned on in the following order to prevent noise and parts damage. Several parts are started at the same time at initial power on and are turned off together when TEST is completed.

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

8-1-10 Defect Diagnosis Function

Micom error are separated in "Main Errors" (Affect directly refrigerator performance) and "Secondary Errors" (don't affect the refrigerator performance).

To check in Display the error present, is necessary press Cold key on freezer and Cold key on refrigerator more than 1 Second, if no there any error, all LED will be illuminated, if a main error is present, only certain LED will be illuminated, in case of secondary errors, only one LED or icon will not illuminated.



ERROR CODE on display panel

No.	ltem	Error Indication		Contents	Remarks
1	Normal	NOTCH	ndication	None	DISPLAY switch operates normally
2	Failure of Freezer sensor	Er	Fs	Cut or short circuit wire	
3	Failure of Refrigerator sensor	Er	rS	Cut or short circuit wire	Inspect Connecting wires on each sensor
4	Failure of Defrost sensor	Er	dS	Cut or short circuit wire	
5	Failure of Defrost mode	Er	dH	When defrost sensor does not reach 8°C within 1 hour after starting defrost.	Snapping of defrost heater or temperature fuse, pullout of connector (indicated minimum 2h aftera failure occurs)
	Failura of BLDC fan motor at freezing compartment	Er	FF	If there is no fan motor signal for more than 115 sec in operation fan motor.	Poor motor, hooking to wires of fan, contact of structures to fan, snapping or short circuit of lead wires.
7	Faillure of Icemaker Kit	Er	lt	Failure of wires such as motor in I/M KIT GEAR, HALL IC	When the ice ejecting does not operated on pressing the I/M TEST S/W
8	Failure of Icemaker sensor	Er	IS	Snapping or short circuit of ice making sensor	Connecting wire Test On Sensor

Primary Error: F sensor, R1 sensor, D sensor, defrost errors, F-FAN errors. Secondary Error: I / M sensors, I / M Kit

When an error occur the first 3 hours the Primary Error and Secondary Error is indicated in the display check mode (Pressing Cold key on freezer and Cold key on refrigerator more than 1 Second). After the 3 hours and if the error is still present the Primary Error will show in the display automatically (See Note 1) and the Secondary Error is indicated in the display check mode.

Note1: In the Primary Error after 3 hours of the error occur all display lights turn OFF except the Freezer Temperature (Trouble Code Index) indicating the failure mode.

*LED check function: When there's no error, If simultaneously pressing the Cold key of refrigerator Temp and the Cold key of freezer temp for a second, all display LED graphics on. If releasing the button, the LED graphics displays the previous status.

8-1-11 TEST Mode

- 1. The Test mode allows checking the PCB and the function of the product as well as finding out the defective part in case of an error.
- 2. The test mode is operated by pressing two buttons on the Display panel.
- 3. While in the test mode, the function control button is not recognized, but the recognition tone (beep~) sounds.
- 4. After exiting the test mode, be sure to reset by unplugging and then plugging in the appliance.
- 5. If an error, such as a sensor failure, is detected while in the test mode, the test mode is cleared and the error code is displayed.
- 6. While an error code is displayed, the test mode will not be activated.

MODE	OPERATION	CONTENTS	REMARKS
TEST1	Push ULTRA ICE & COLDER (F) KEYS for 3 sec. Or Push TEST switch (on the main Board) Once. <cooling mode=""></cooling>	 Continuous operation of the compressor and the freezer fan. Stepping Damper OPEN Defrosting Heater OFF Display LED all ON 	Maximum test time: 5 minutes
TEST2	Push ULTRA ICE & COLDER (F) KEY for 3sec in TEST MODE 1 or push TEST switch once in TEST MODE 1. < Forced defrosting MODE>	 Compressor and the freezer fan OFF Stepping Damper CLOSE Defrosting heater ON Display LED shows 2 	Maximum test time: 2 hours. Reset if the temperature Of the defrosting sensor is 8°C (46°F) or more.
Return to Normal	On TEST 2, press ULTRA ICE & COLDER (F) KEY for 3 sec.	Return to initial status (COMP 7 min delay)	

* Freezer Fan RPM Variable Check:

If the freezer fan is in operation when the COLD REFRIGERATOR TEMP KEY & COLD FREEZER TEMP KEY are pressed for more than one second at the same time then the freezer fan RPM changes. (for example if high speed, to normal speed or if normal speed, to high speed for 30 seconds) After 30 seconds, it turns to its original RPM.

* Demonstration (Display) MODE:

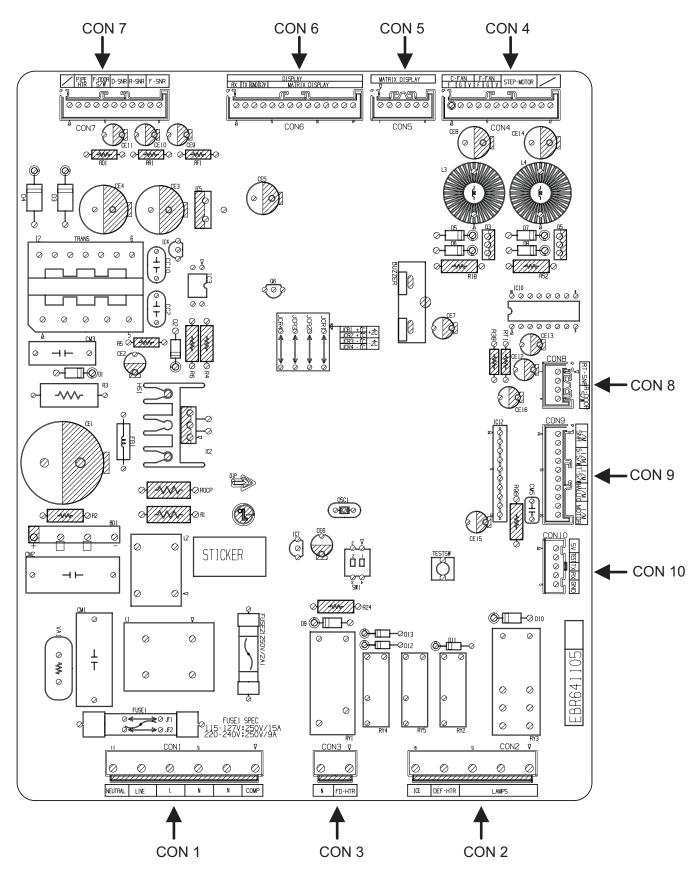
1. To enter this mode, raise either the Refrigerator or Freezer temperature to its highest setting. Then, press that Cold key and hold for about 5 seconds..

2. The LED panels will display OFF, to indicate that the compressor, circulating fan , damper, and defrost heater are not operating.

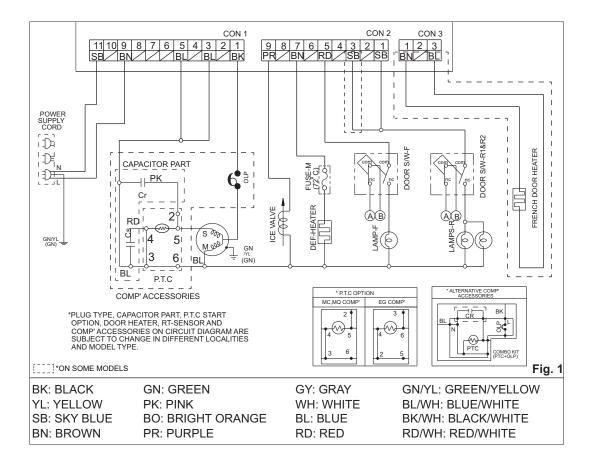
3. The Open Door Alarm and the Lamp Auto-Off feature will work normally and can be demonstrated.

4. To reset to normal operation, press and hold either Cold Key for about 5 seconds.

8-2 PCB FUNCTION



8-2-1 Power Circuit



8-2-2. Load and Door Light Circuit (HV)

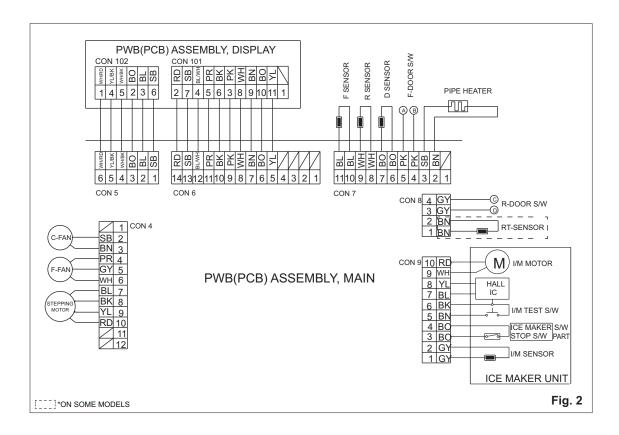
1. Load Drive Condition Check

To measure outputs of the control board, check voltages between the pins for the following components: (Refer to Fig. 1).

Circuit	Pin Number	Pin Number	Output Voltage
Compressor	Compressor Con 1 Pin 1		115 VAC
Defrost Heater	Con 2 Pin 7	Con 1 Pin 3	115 VAC
F Lamp	Con 2 Pin 5	Con 1 Pin 3	115 VAC
R Lamp	Con 2 Pin 1 and/or 3	Con 1 Pin 3	115 VAC
Ice Maker	Con 2 Pin 9	Con 1 Pin 3	115 VAC

	Connector 1										
Pin	11	9	3	3 1							
	Ν	L	Ν	C							
	Connector 2										
Pin	9	7		5	3	1					
	lce Valve	Def Heater	FL	.amp	R L	amp					

NOTE: When the door of the refrigerator is left open for 7 minutes or longer, the lamp of the refrigerator turns off automatically.



2. Door Monitor Circuit (LV)

Refrigerator	Pin Number	Pin Number	Voltage
F Door Close	Con 7 Pin 4	Con 7 Pin 5	5 Volts
F Door Open	Con 7 Pin 4	Con 7 Pin 5	0 Volts
R Door Close	Con 8 Pin 3	Con 8 Pin 4	5 Volts
R Door Open	Con 8 Pin 3	Con 8 Pin 4	0 Volts

Connector 8									
Pin	4	3	2	1					
	R-Do	or S/W	NC	NC					

8-2-3 Temperature Sensor Circuit (Refer to Figure 2)

Voltage supplied to each sensor will range between 0.5 volts -22°F(-30°C) and 4.5 volts 122°F(50°C) depending upon the temperature in the compartments. A measurement of 0 volts indicates a short in the sensor circuit. A measurement of 5 volts indicates an open in the sensor circuit.

	Connector 7										
PIN	11	10	9	8	7	6	5	4	3	2	1
	F-Sensor		R-Se	ensor	D-Se	ensor	F-Doc	or S/W	Pipe I	leater	NC

To measure the outputs of the sensors, check the voltages between the pins as in the table. And refer the values in the section "RESISTANCE SPECIFICATION OF SENSOR"

Sensor	Pin Number	Pin Number		
F- Sensor	Con 7 Pin 10	Con 7 Pin 11		
R- Sensor	Con 7 Pin 8	Con 7 Pin 9		
D- Sensor	Con 7 Pin 6	Con 7 Pin 7		
I/M Sensor	Con 9 Pin 1	Con 9 Pin 2		

To measure the outputs of the fans on the control boards check the voltages between the pins for the following components:

FAN	Pin Number	Pin Number	Output Voltage			
FAN		FIII NUIIDEI	Motor On	Motor Off		
Freezer Fan	Con 4 Pin 5	Con 4 Pin 6	10-14Vdc	2Vdc or less		
Cooling Fan	con 4 Pin 2	Con 4 Pin 3	10-14Vdc	2Vdc or less		

	Connector 4											
PIN	12	11	10	9	8	7	6	5	4	3	2	1
	NC Stepping Motor				F-Fan		C-F	an	NC			
	NC	NC					V	G	F	V	G	NC

8-2-4 ICE MAKER

	Connector 9											
PIN	PIN 10 9 8 7 6 5 4 3 2 1											
	I/M Motor Hall IC I/M Test S/W I/M Stop S/W I/M Sensor											

Circuit	Pin Number	Pin Number	Output Voltage
I/M Stop S/W	Con 9 Pin 3	Con 9 Pin 4	0~5Vdc
I/M Test S/W	Con 9 Pin 5	Con 9 Pin 6	0~5Vdc

8-3 RESISTANCE SPECIFICATION OF SENSOR

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

- The resistance of the SENSOR has a ±5% common difference.

- Measure the resistance of the SENSOR after leaving it for over 3 minutes in the measuring temperature. This delay is necessary due to sensor response speed.

9. CIRCUIT OF MICOM (SWING TYPE MODELS)

9-1 FUNCTION

9-1-1 Function

- 1. When the appliance is plugged in, it is set to "4" for Refrigerator and "4" for freezer.
- You can adjust the Refrigerator and the Freezer control temperature by pressing the ADJUST button.

2. When the power is restored after a power failure, it is automatically set to last setting selected.

*Note: To ERROR CODE on display panel refer to page 50.

	Adjust Temp	REFRIGERATOR TEMPERATURE	FREEZER TEMPERATURE	Adjust Temp
$\langle \rangle$		COLD RECOMMENDED COLDER	COLD RECOMMENDED COLDER	

9-1-2 Control of freezer fan motor

- 1. Freezer fan motor has high and standard RPMs.
- 2. High RPM is used when electricity is first on, for ULTRA ICE , and when refrigerator is overloaded. But standard RPM is used for general purposes.
- 3. To improve cooling speed and load corresponding speed, the RPM of freezer fan motor shall change from normal speed to high speed.
- 4. High speed (2500RPM) : Initial power on or load corresponding operation, ULTRA ICE. Normal speed (2200 RPM): general working conditions.
- 5. Fan motor stops when refrigerator of freezer door opens.

9-1-3 ULTRA ICE

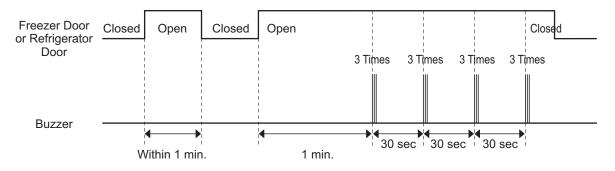
- 1. The purpose of this function is to intensify the cooling speed of freezer and to increase the amount of ice.
- 2. Whenever selection switch is pressed, selection/release, the LED will turn ON or OFF.
- 3. If there is a power cut and the refrigerator is power on again, ULTRA ICE function will be canceled.
- 4. To activate these function you need to press the ULTRA ICE key and the LED will turn ON. This function will remain activated for 24 hrs. The first three hours the compressor and ULTRA ICE will be ON. The next 21hours the freezer will be controlled at the lowest temperature. After 24 hours or if the ULTRA ICE key is pressed again, the freezer will return to its previous temperature.
- 5. For the first three hours notice the following cases:
 - (1) Compressor and freezer fan(HIGH RPM) continuously operate for three hours.
 - (2) If defrost starts during ULTRA ICE, ULTRA ICE operates for the rest of time after defrost is completed, when ULTRA ICE operation time is less than 90 minutes. If ULTRA ICE operates for more than 90minutes, the ULTRA ICE will operate for two hours after defrost is completed.
 - (3) If ULTRA ICE is pressed during defrost, ULTRA ICE LED is on but this function will start seven minutes after defrost is completed and it shall operate for three hours.
 - (4) If ULTRA ICE is selected within seven minutes after compressor has stopped, the compressor (compressor delays seven minutes) shall start after the balance of the delay time.
 - (5) The fan motor in the freezer compartment rotates at high speed during ULTRA ICE.
- 6. For the rest of 21 hours, the freezer will be controlled at the lowest temperature.

9-1-4 Refrigerator Lamp Auto Off

1. To protect the risk of lamp heat, when Refrigerator door opens for 7 min, refrigerator lamp is auto off.

9-1-5 Alarm for Open Door

- 1. This feature sounds a buzzer when the freezer or refrigerator door is not closed within 1 minute after it is opened.
- 2. One minute after the door is opened, the buzzer sounds three times each for 1/2 seconds. These tones repeat every 30 seconds.
- 3. The alarm is cancelled when the freezer or the refrigerator is closed while the buzzer sounds.



9-1-6 Buzzer Sound

When the button on the front Display is pushed, a Ding~ Dong~ sound is produced.

9-1-7 Defrosting (removing frost)

- 1. Defrosting starts each time the COMPRESSOR running time reaches 7 hours.
- 2. For initial power on or for restoring power, defrosting starts when the compressor running time reaches 4 hours.
- 3. Defrosting stops if the sensor temperature reaches 46.4°F(8°C) or more. If the sensor doesn't reach 46.4°F(8°C) in 2 hours, the defrost mode is malfunctioning. (Refer to the defect diagnosis function, 8-1-9.)
- 4. Defrosting won't function if its sensor is defective (wires are cut or short circuited)

9-1-8 Electrical Parts Are Turned On Sequentially

Electrical parts such as COMP, defrosting heater, freezer FAN, etc. are turned on in the following order to prevent noise and parts damage. Several parts are started at the same time at initial power on and are turned off together when TEST is completed.

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

9-1-9 Defect Diagnosis Function

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



ERROR CODE on display panel

● LED OFFLED ON ◎

No.	ITEM		El	RROF		CATI	ON			CONTENTS	REMARKS
1	Failure of Freezer Sensor	All Off		\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	Cut or short circuite wire	
2	Failure of Refrigerator Sensor	All Off	Ô		O	Ø	Ô	Ô	O	Cut or short circuite wire	Inspect Connecting Wires on each sensor
3	Failure of Defrost Sensor	All Off	Ô	\bigcirc		\bigcirc	\bigcirc	\bigcirc	\bigcirc	Cut or short circuite wire	
4	Failure of Defrost Mode	All Off	•	•	•	•	0	Ø	0	When defrost sensor does not reach 8°C within 1 hour after starting defrost	Snapping of defrost heater or temperature fuse, pullout of connector (indicated minimum 2h after failure occurs)
5	Failure of BLDC fan motor at freezing compartment	All Off	•	•	•	•	•	0	0	If there is no fan motor signal for more than 115s in operation fan motor	Poor motor, hooking to wires of fan, contact of structures to fan, snapping or short circuit of Lead wires.
6	Failure of Icemaker Kit	All Off	O	O	O	O	•	Ø	O	Failure of wires such as motor in I/M KIT, GEAR, HALL IC.	When the ice ejecting does not operated on pressing the I/M TEST S/W
7	Failure of Icemaker Sensor	All Off	Ø	O	O	O	O		Ô	Snapping or short circuit of ice making sensor.	Connecting Wire Test On Sensor

Primary Error: F sensor, R1 sensor, D sensor, defrost errors, F-FAN errors. Secondary Error: I / M sensors, I / M Kit

When an error occur the first 3 hours the Primary Error and Secondary Error is indicated in the display check mode (Pressing refrigerator and freezer temperature control button at the same time more than one second). After the 3 hours and if the error is still present the Primary Error will show in the display automatically (See Note 1) and the Secondary Error is indicated in the display check mode.

Note1: In the Primary Error after 3 hours of the error occurs all display lights turn OFF except the Freezer Temperature (Trouble Code Index) indicating the failure mode.

*LED check function: When there's no error, when the refrigerator temperature control and the freezer temperature control button at the same time are hold for 1 second or longer, every LED on the display turns on at the same time when the button are released, the previous mode is restored.

9-1-10 TEST Mode

- 1. The Test mode allows checking the PCB and the function of the product as well as finding out the defective part in case of an error.
- 2. The test mode is operated by pressing two buttons at Display panel.
- 3. While in the test mode, the function control button is not recognized, but the recognition tone (beep~) sounds.
- 4. After exiting the test mode, be sure to reset by unplugging and then plugging in the appliance.
- 5. If an error, such as a sensor failure, is detected while in the test mode, the test mode is cleared and the error code is displayed.
- 6. While an error code is displayed, the test mode will not be activated.

MODE	MANIPULATION	CONTENTS	REMARKS
TEST1	Push ULTRA ICE key and ADJUST key of Freezer Temperature at the same time over 3s. Or Push TEST switch (on the main Board) once. <cooling mode=""></cooling>	 Continuous operation of the compressor and the freezer fan. Stepping Damper OPEN Defrosting Heater OFF Display LED all ON 	Maximum test time: 5 minutes.
TEST2	Push ULTRA ICE key and ADJUST key of Freezer Temperature at the same time over 3 seconds in TEST MODE 1 Or Push TEST switch once In TEST MODE 1. <forced desfrosting="" mode=""></forced>	 Compressor and the freezer fan OFF Stepping Damper CLOSE Defrosting heater ON Display LED 1, 3, 5, 7 ON 	Maximum test time: 2 hours Reset if the temperature of the defrosting sensor is 8°C (46°F) or more.
Reset to Normal	Push ULTRA ICE key and ADJUST key of Freezer Temp. at the same time over 3 seconds. in TEST MODE 2	Reset to initial status (COMP 7 n	nin delay)

* Freezer Fan RPM Variable Check:

In case the freezer fan is in operation when the ADJUST key in Refrigerator and Freezer Temp. Control are pressed for more than one second at the same time freezer fan RPM changes. (for example if high speed, to normal speed or if normal speed, to high speed for 30 seconds)

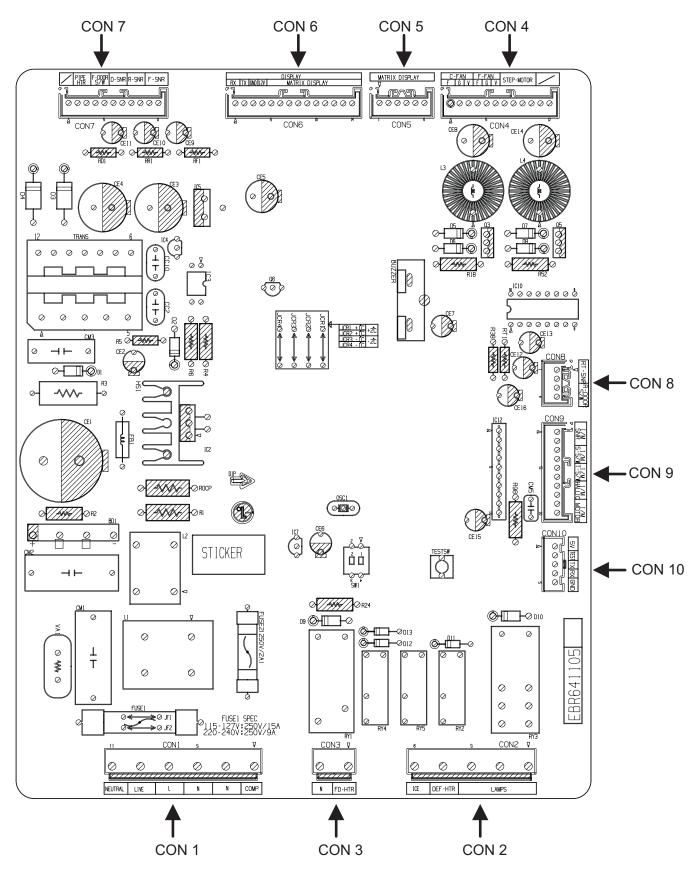
After 30 seconds, it turns to its original RPM.

* Demonstration MODE:

- 1. When the ULTRA ICE key and ADJUST key of refrigerator temperature control are pressed for more than 3 seconds at the same time temperature's it converts to demostration mode.
- 2. In this status, each LED is rotated with 1 second interval.
- 3. In this status, all Loads are off (Compressor / Fan / Damper / Heater)

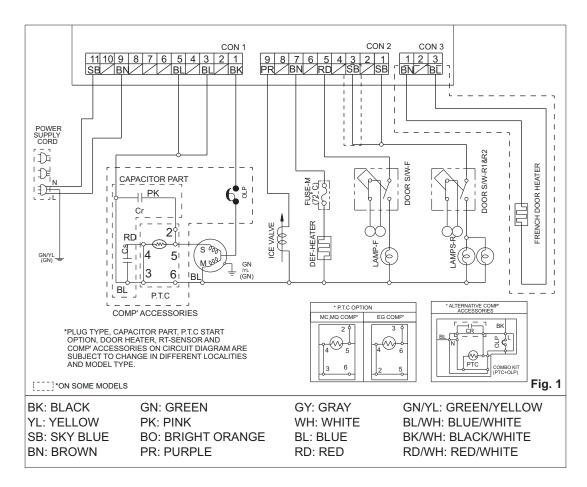
(Even is Demonstration Mode, the refrigerator Lamp automatic off function works normally and can be demostrated) 4. It reset if you do again as clause.

9-2 PCB FUNCTION



9-2-1 Power Circuit

Power is supplied to the control board at the pin 11 and 9 of connector #1. (Refer to figure 1)



9-2-2. Load and Door Light Circuit (HV)

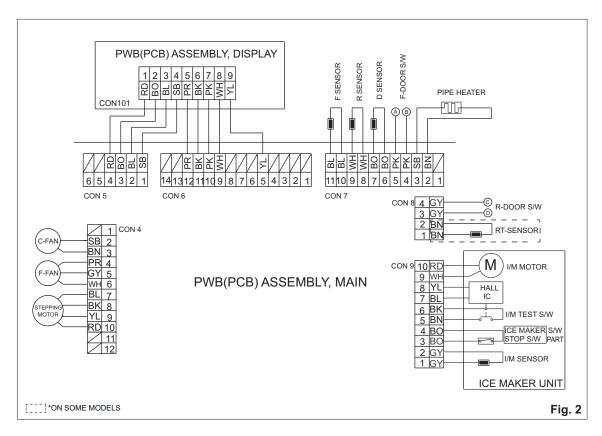
1. Load Drive Condition Check

To measure outputs of the control board, check voltages between the pins for the following components: (Refer to Fig. 1).

Circuit	Pin Number	Pin Number	Output Voltage
Compressor	Con 1 Pin 1	Con 1 Pin 3	115 VAC
Defrost Heater	Con 2 Pin 7	Con 1 Pin 3	115 VAC
F Lamp	Con 2 Pin 5	Con 1 Pin 3	115 VAC
R Lamp	Con 2 Pin 1 and/or 3	Con 1 Pin 3	115 VAC
Ice Maker	Con 2 Pin 9	Con 1 Pin 3	115 VAC

	Connector 1												
Pin	Pin 11 9 3 1												
	Ν	L	Ν	C	COMP								
	Connector 2												
Pin	9	7		5	3	1							
	Ice Def Valve Heater F Lamp R Lam					amp							

NOTE: When the door of the refrigerator is left open for 7 minutes or longer, the lamp of the refrigerator turns off automatically.



2. Door Monitor Circuit (LV)

Refrigerator	Pin Number	Pin Number	Voltage
rtonigorator			Tonago
F Door Close	Con 7 Pin 4	Con 7 Pin 5	5 Volts
F Door Open	Con 7 Pin 4	Con 7 Pin 5	0 Volts
R Door Close	Con 8 Pin 3	Con 8 Pin 4	5 Volts
R Door Open	Con 8 Pin 3	Con 8 Pin 4	0 Volts

	С	onnecto	r 8	
Pin	4	3	2	1
	R-Do	or S/W	NC	NC

9-2-3 Temperature Sensor Circuit (Refer to Figure 2)

Voltage supplied to each sensor will range between 0.5 volts -22°F(-30°C) and 4.5 volts 122°F(50°C) depending upon the temperature in the compartments. A measurement of 0 volts indicates a short in the sensor circuit. A measurement of 5 volts indicates an open in the sensor circuit.

	Connector 7										
PIN	11	10	9	8	7	6	5	4	3	2	1
	F-Sensor R-Sensor				D-Se	ensor	F-Doc	or S/W	Pipe I	leater	NC

To measure the outputs of the sensors, check the voltages between the pins as in the table. And refer the values in the section "RESISTANCE SPECIFICATION OF SENSOR"

Sensor	Pin Number	Pin Number	
F- Sensor	Con 7 Pin 10	Con 7 Pin 11	
R- Sensor	Con 7 Pin 8	Con 7 Pin 9	
D- Sensor	Con 7 Pin 6	Con 7 Pin 7	
I/M Sensor	Con 7 Pin 1	Con 9 Pin 2	

To measure the outputs of the fans on the control boards check the voltages between the pins for the following components:

FAN	Pin Number	Pin Number	Output Voltage		
FAN		Fin Number	Motor On	Motor Off	
Freezer Fan	Con 4 Pin 5	Con 4 Pin 6	10-14Vdc	2Vdc or less	
Cooling Fan	con 4 Pin 2	Con 4 Pin 3	10-14Vdc	2Vdc or less	

	Connector 4											
PIN	12	11	10	9	8	7	6	5	4	3	2	1
	N	С		Stepping Motor		F-Fan			C-F	NC		
	NC	NC					V	G	F	V	G	NC

9-2-4 ICE MAKER

Connector 9										
PIN	10	9	8	7	6	5	4	3	2	1
	I/M N	/lotor	Hal	I IC	I/M Te	st S/W	I/M Sto	op S/W	I/M S	ensor

Circuit	Pin Number	Pin Number	Output Voltage
I/M Stop S/W	Con 9 Pin 3	Con 9 Pin 4	0~5Vdc
I/M Test S/W	Con 9 Pin 5	Con 9 Pin 6	0~5Vdc

9-3 RESISTANCE SPECIFICATION OF SENSOR

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

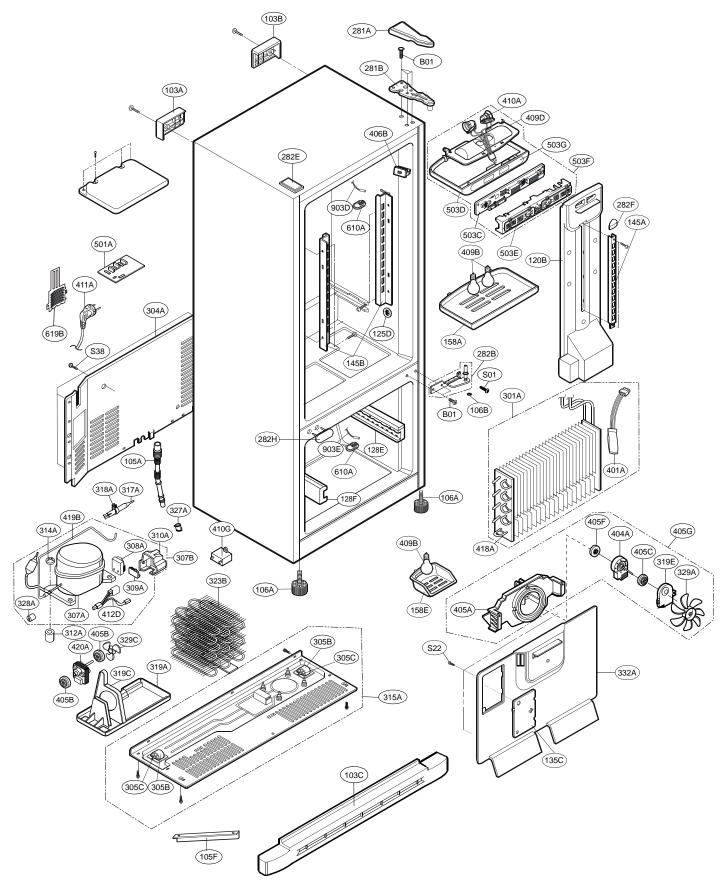
- The resistance of the SENSOR has a $\pm 5\%$ common difference.

- Measure the resistance of the SENSOR after leaving it for over 3 minutes in the measuring temperature. This delay is necessary due to sensor response speed.

9. EXPLODED VIEW & REPLACEMENT PART LIST

CASE PARTS

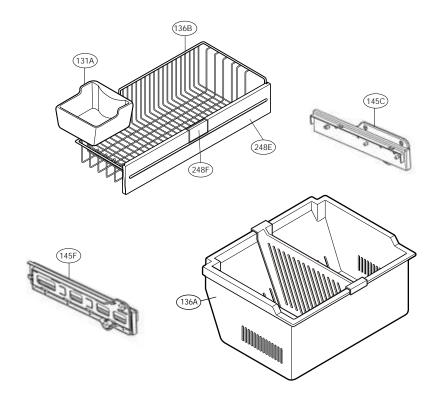
Caution: Use the part number to order part, not the position number.



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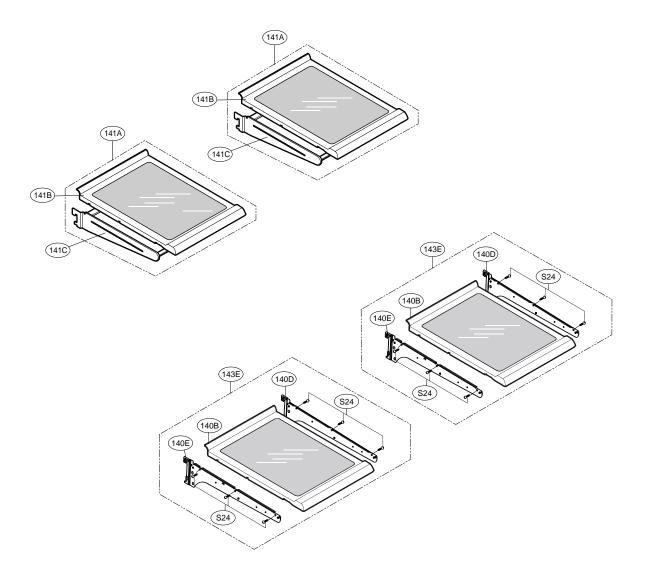
FREEZER PARTS

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

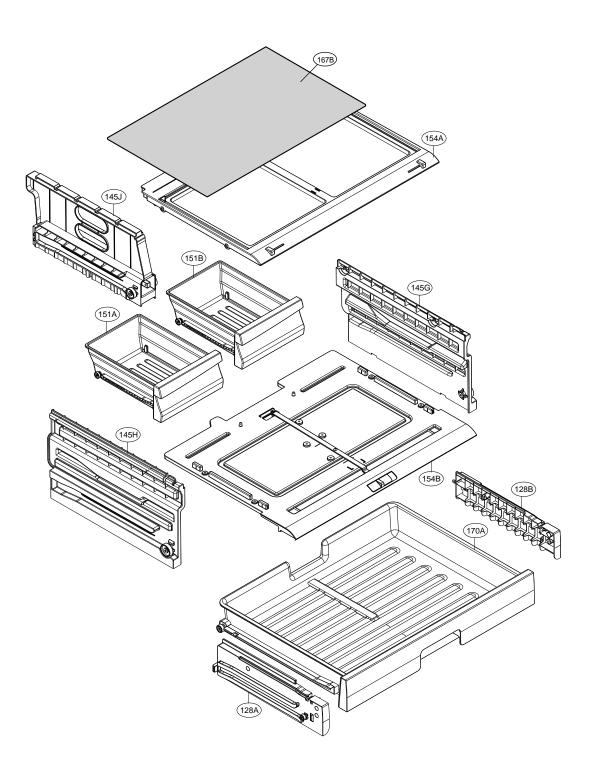


REFRIGERATOR PARTS

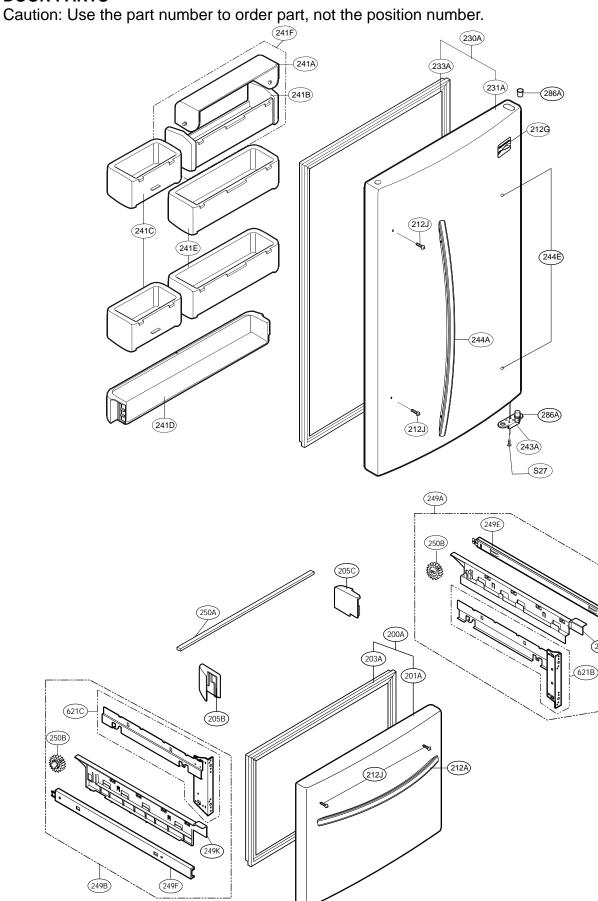
Caution: Use the part number to order part, not the position number.



REFRIGERATOR PARTS (PANTRY) Caution: Use the part number to order part, not the position number.



(249J)

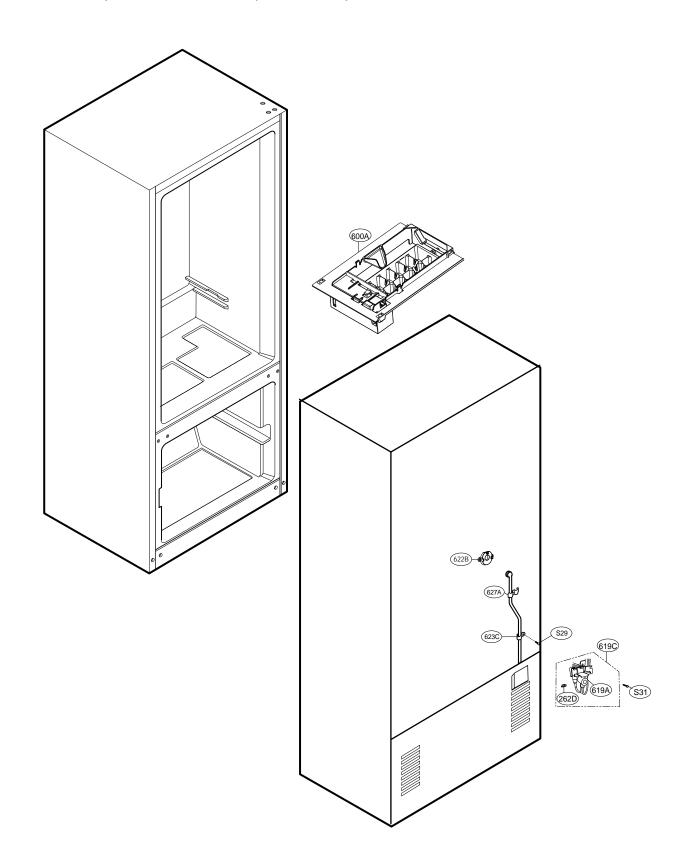


DOOR PARTS

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WATER & ICEMAKER PARTS

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



#EV	#
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		795.7	6203.90		
Loc No.	Part No.	Description	Loc No.	Part No.	Description
103A	3650JJ2003E		282F	3806JL2006L	
103B	3650JJ2003A		282H	5006JJ3004A	
103C	3550JJ0006A	,	286A	4984JJ3003A	
105A		Tube Assembly,Drain	301A		Evaporator Assembly
105F	5070JJ3002A	,	304A	3551JJ2008B	Cover Assembly, Machinery (Rear)
106A		Leg Assembly, Adjust	305B	4580JJ3001A	
106B	4J00382C	Washer,Common	305C	4J04238A	Pin,Common
120B		Duct Assembly,Multi	307A		Compressor, Set Assembly
125D		Holder,Bracket	307B		Compressor Assembly
128A		Guide Assembly,Rail	308A		Thermistor Assembly,PTC
128B		Guide Assembly,Rail	309A		Overload Protect
128E	MEG54557902	,	310A	3550JA2042C	
128F	MEG54557901		312A		Damper,Compressor
131A	MKK61842201	-	314A		Stopper,Compressor
135C		Cover, Grille Fan	315A		Base Assembly, Compressor
136A		Tray Assembly,Drawer	317A		Drier Assembly
136B	3390JJ1090A		318A	4930JA3034A	•
140B		Shelf Assembly, Refrigerator	319A	3390JJ0004A	
140D	MHL38615403		319C	MEA41997401	1
140E	MHL38615404		319E		Bracket, Motor
141A		Shelf Assembly, Refrigerator	323B		Condenser Assembly,Wire
141B		Shelf Assembly, Refrigerator	327A		Cap,Drain Tube
141C		Shelf Assembly, Net	328A	4J03020A	Damper,Pipe
143E		Shelf Assembly, Refrigerator	328A	4J03020A	Damper,Pipe
145A	4930JJ2003A		329A		Fan Assembly
145B	4930JJ2004A		329C	ADP36665702	,
145C		Guide Assembly,Rail	332A		Grille Assembly,Fan
145F		Guide Assembly,Rail	401A		Controller Assembly
145G		Guide Assembly,Rail	404A	4681JB1027N	
145H		Guide Assembly,Rail	405A		Bracket Assembly, Motor
1453		Guide Assembly,Rail	405B		Damper, Motor Support
151A		Tray Assembly, Vegetable	405C		Damper, Motor Support
151B		Tray Assembly, Vegetable	405F		Damper, Motor Support
154A	-	Cover Assembly,TV	405G		Bracket Assembly, Motor
154B	-	Cover Assembly,Tray	406B		Switch,Push Button
158A	3550JJ1040A		409B		Lamp,Incandescent
158E	MCK62661401		409D		Reflector,Lamp
167B	4890JL1002R		410A		Harness Assembly
170A		Tray Assembly, Fresh Room	410G		Capacitor, Electric Appliance Film, Box
200A		Door Assembly, Freezer	411A		Power Cord Assembly
201A		Door Foam Assembly, Freezer	412D		Harness Assembly
203A		Gasket Assembly, Door	418A		Heater,Sheath
205B 205C	5006JJ2014B		419B 420A	5200JJ3003E	
203C 212A	5006JJ2014A	Handle Assembly, Freezer	501A	4681JB1027P	PCB Assembly,Main
212A 212G	MFT61866203		501A 503C		PCB Assembly, Main PCB Assembly, Display
212G 212J		Stopper, Handle	503C		
230A			503D 503E	3110JJ1005A	
		Door Assembly, Refrigerator Door Foam Assembly, Refrigerator	503E 503F	3550JJ2032A	Cover, Display Case Assembly, Display
231A 233A		Gasket Assembly,Door	503F 503G	ABQ33905317 MCR62352601	
241A 241B	3550JJ1015B		600A	-	Ice Maker Assembly, Kit
241B 241C	5004JJ1021B	Basket,Door Basket Assembly,Door	610A 616E	3550JJ2020A	Tube Assembly, Inject
241D 241E		Basket Assembly, Door	619A	5220JA2009D	,
241E 241F		Basket Assembly, Door	619B 619C	3550JJ2024A	
		Basket Assembly, Door			Valve Assembly,Water
243A	4620JJ3006A		621B		Connector, Rail
244A		Handle Assembly, Refrigerator	621C	MCD36888903	-
244E 248E	5006JJ3016A	• *	622B	5006JJ2003A	.,
	3806JJ1048A		623C	4770JA3001A	
248F	3806JL2011F		627A	4930JA3054A	· ·
249A 249B		Connector Assembly	903D		Sensor, Temperature
		Connector Assembly	903E		Sensor, Temperature
249E	5218JA1010E		B01		Screw,Customized
249F	5218JA1010F	-	LE	MEZ62592102	
249J		Cover,Connector	OM		Manual,Owners
249K		Cover,Connector	S01		Screw,Customized
250A	4270JJ3001E		S22		Screw,Customized
250B	4403JJ3001A	Connector Assembly	S24	1SZZJA3011B	Screw,Customized
262D	4004JA3002A	Clip	S27	4J01424C	Screw,Customized
281A	3550JJ2013A	Cover, Hinge	S29	4J00415D	Screw,Customized
281B		Hinge Assembly,Upper	S31	4000W4A003A	Screw,Customized
282B		Hinge Assembly,Center	S38	4J00415D	Screw,Customized
282E	5006JJ2001A	5	TS		Card,Instruction
		., .			,

#E\	/#
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		795.7	6204.90	D	
Loc No.	Part No.	Description	Loc No.	Part No.	Description
103A	3650JJ2003F		282F	3806JL2006L	,
103B	3650JJ2003B		282H	5006JJ3004D	
103C	3550JJ0006B		286A	4984JJ3003A	
105A 105F		Tube Assembly,Drain	301A 304A	5421JJ1001B	Evaporator Assembly Cover Assembly, Machinery (Rear)
105F 106A	5070JJ3002A	Leg Assembly, Adjust	304A 305B	4580JJ3001A	<i>n n n n</i>
106A 106B	4J00382C	Washer,Common	305C	4J04238A	Pin,Common
120B		Duct Assembly,Multi	307A		Compressor,Set Assembly
125D		Holder,Bracket	307B		Compressor Assembly
128A		Guide Assembly, Rail	308A		Thermistor Assembly,PTC
128B	AEC72913201	Guide Assembly, Rail	309A	6750C-0005P	Overload Protect
128E	MEG54557902	Holder,Rail	310A	3550JA2042C	Cover, PTC
128F	MEG54557901	Holder,Rail	312A	5040JA3031A	Damper,Compressor
131A	MKK61842201	,	314A		Stopper,Compressor
135C		Cover,Grille Fan	315A		Base Assembly,Compressor
136A		Tray Assembly,Drawer	317A		Drier Assembly
136B	3390JJ1090A		318A	4930JA3034A	
140B 140D	MHL38615403	Shelf Assembly, Refrigerator	319A 319C	3390JJ0004A MEA41997401	
140D 140E	MHL38615403		319C 319E		Bracket,Motor
140L 141A		Shelf Assembly, Refrigerator	323B		Condenser Assembly, Wire
141A 141B		Shelf Assembly, Refrigerator	323D 327A		Cap,Drain Tube
141C		Shelf Assembly, Net	328A	4J03020A	Damper,Pipe
143E		Shelf Assembly, Refrigerator	328A	4J03020A	Damper,Pipe
145A	4930JJ2003A		329A	5901JJ1005A	Fan Assembly
145B	4930JJ2004A	Holder,Shelf	329C	ADP36665702	Fan Assembly
145C	4975JJ2028C	Guide Assembly, Rail	332A	3531JJ1004C	Grille Assembly,Fan
145F		Guide Assembly,Rail	401A		Controller Assembly
145G		Guide Assembly, Rail	404A	4681JB1027N	
145H		Guide Assembly,Rail	405A		Bracket Assembly,Motor
145J		Guide Assembly,Rail	405B		Damper, Motor Support
151A 151B		Tray Assembly, Vegetable	405C 405F		Damper, Motor Support
151B 154A		Tray Assembly, Vegetable Cover Assembly, TV	405F 405G		Damper,Motor Support Bracket Assembly,Motor
154B	-	Cover Assembly, Tray	406B		Switch,Push Button
151D	3550JJ1040A		409B		Lamp,Incandescent
158E	MCK62661401	· ·	409D		Reflector,Lamp
167B	4890JL1002R	, ,	410A		Harness Assembly
170A	AJP72914002	Tray Assembly, Fresh Room	410G	0CZZJB2012J	Capacitor, Electric Appliance Film, Box
200A	ADC73046213	Door Assembly, Freezer	411A	6411JK1006A	Power Cord Assembly
201A	ADD72976413	Door Foam Assembly, Freezer	412D	6877JK2011A	Harness Assembly
203A		Gasket Assembly,Door	418A		Heater,Sheath
205B	5006JJ2014B		419B	5200JJ3003E	
205C	5006JJ2014A	••	420A	4681JB1027P	•
212A		Handle Assembly, Freezer	501A		PCB Assembly, Main
212G 212J	MFT61866204		503C 503D		PCB Assembly, Display
212J 230A		Stopper, Handle	503D 503E	3110JJ1005A 3550JJ2032A	
230A 231A		Door Assembly, Refrigerator Door Foam Assembly, Refrigerator	503E 503F		Cover, Display Case Assembly, Display
231A 233A		Gasket Assembly, Door	503G	MCR62352601	
233A 241A	3550JJ1015B		600A		Ice Maker Assembly,Kit
241B	5004JJ1021B		610A	3550JJ2020A	
241C		Basket Assembly,Door	616E		Tube Assembly, Inject
241D	AAP72911102	Basket Assembly,Door	619A	5220JA2009D	
241E	5005JJ2018A	Basket Assembly, Door	619B	3550JJ2024A	•
241F	5005JJ2010E	Basket Assembly, Door	619C		Valve Assembly,Water
243A	4620JJ3006B		621B		Connector,Rail
244A		Handle Assembly, Refrigerator	621C		Connector,Rail
244E	5006JJ3016B	• •	622B	5006JJ2003A	
248E	3806JJ1048A		623C	4770JA3001A	
248F	3806JL2011F		627A	4930JA3054A	<i>,</i> ,
249A 249B		Connector Assembly Connector Assembly	903D 903E		Sensor, Temperature Sensor, Temperature
249B 249E	5098JJ1002E 5218JA1010E	•	903E B01		Screw,Customized
249L 249F	5218JA1010E	-	LE	MEZ62592102	
249]		Cover,Connector	OM		Manual,Owners
2495 249K		Cover,Connector	S01		Screw,Customized
250A	4270JJ3001E	•	S22		Screw,Customized
250A		Connector Assembly	S24		Screw,Customized
262D	4004JA3002A	•	S27	4J01424C	Screw,Customized
202D 281A	3550JJ2013B	•	S29	4J00415D	Screw,Customized
281A		Hinge Assembly,Upper	S31		Screw,Customized
281B		Hinge Assembly,Center	S38	4J00415D	Screw,Customized
282E	5006JJ2001E	5	TS		Card,Instruction
		·· -	-		

#	E	V	#
#	E	V	#

		795.7	6209.90	0	
Loc No.	Part No.	Description	Loc No.	Part No.	Description
	3650JJ2003M		282F	3806JL2006L	
103B	3650JJ2003L	-	282H	5006JJ3004E	
103C	3550JJ0006C		286A	4984JJ3003A	
		Tube Assembly, Drain	301A		Evaporator Assembly
105F	5070JJ3002A		304A		Cover Assembly, Machinery (Rear)
		Leg Assembly,Adjust	305B	4580JJ3001A	
106B	4J00382C	Washer,Common	305C	4J04238A	Pin,Common
		Duct Assembly, Multi	307A		Compressor,Set Assembly
125D		Holder,Bracket	307B		Compressor Assembly
		Guide Assembly,Rail	308A		Thermistor Assembly,PTC
		Guide Assembly,Rail	309A		Overload Protect
	MEG54557902		310A	3550JA2042C	
	MEG54557901		312A		Damper,Compressor
	MKK61842201	-	314A		Stopper,Compressor
135C		Cover,Grille Fan	315A		Base Assembly,Compressor
		Tray Assembly, Drawer	317A		Drier Assembly
136B	3390JJ1090A		318A	4930JA3034A	
140B		Shelf Assembly, Refrigerator	319A	3390JJ0004A	
	MHL38615403		319C	MEA41997401	
	MHL38615404		319E		Bracket, Motor
141A		Shelf Assembly, Refrigerator	323B		Condenser Assembly, Wire
141B		Shelf Assembly, Refrigerator	327A		Cap, Drain Tube
141C		Shelf Assembly, Net	328A	4J03020A	Damper,Pipe
		Shelf Assembly, Refrigerator	328A	4J03020A	Damper,Pipe
145A	4930JJ2003A		329A		Fan Assembly
145B	4930JJ2004A	•	329C	ADP36665702	
145C		Guide Assembly,Rail	332A		Grille Assembly,Fan
		Guide Assembly,Rail	401A		Controller Assembly
		Guide Assembly,Rail	404A	4681JB1027N	•
		Guide Assembly,Rail	405A		Bracket Assembly,Motor
		Guide Assembly,Rail	405B		Damper, Motor Support
		Tray Assembly, Vegetable	405C		Damper, Motor Support
		Tray Assembly, Vegetable	405F		Damper, Motor Support
	-	Cover Assembly,TV	405G		Bracket Assembly,Motor
	-	Cover Assembly, Tray	406B		Switch, Push Button
158A	3550JJ1040A	· ·	409B		Lamp,Incandescent
	MCK62661401		409D		Reflector,Lamp
167B	4890JL1002R		410A		Harness Assembly
		Tray Assembly, Fresh Room	410G		Capacitor, Electric Appliance Film, Box
		Door Assembly, Freezer	411A		Power Cord Assembly
		Door Foam Assembly, Freezer	412D		Harness Assembly
		Gasket Assembly,Door	418A		Heater,Sheath
	5006JJ2014B		419B	5200JJ3003E	
205C	5006JJ2014A		420A	4681JB1027P	
		Handle Assembly, Freezer	501A		PCB Assembly,Main
	MFT61866206		503C		PCB Assembly,Display
		Stopper, Handle	503D	3110JJ1005A	
		Door Assembly,Refrigerator	503E	3550JJ2032A	
		Door Foam Assembly, Refrigerator	503F		Case Assembly, Display
233A		Gasket Assembly,Door	503G	MCR62352601	
241A	3550JJ1015B		600A	-	Ice Maker Assembly,Kit
241B	5004JJ1021B		610A	3550JJ2020A	
241C		Basket Assembly, Door	616E		Tube Assembly,Inject
		Basket Assembly,Door	619A	5220JA2009D	
241E		Basket Assembly,Door	619B	3550JJ2024A	-
241F		Basket Assembly,Door	619C		Valve Assembly,Water
243A	4620JJ3006C		621B	MCD36888904	
		Handle Assembly, Refrigerator	621C		Connector,Rail
244E	5006JJ3016C		622B	5006JJ2003A	••
248E	3806JJ1048A		623C	4770JA3001A	
248F	3806JL2011F		627A	4930JA3054A	
249A		Connector Assembly	903D		Sensor, Temperature
249B		Connector Assembly	903E		Sensor, Temperature
	5218JA1010E		B01		Screw,Customized
	5218JA1010F		LE	MEZ62592102	
249F	3550JJ1111A	Cover,Connector	OM		Manual,Owners
249J		Cover,Connector	S01	1SZZJJ3010A	Screw,Customized
	3550JJ1111B		S22	J471-00001J	Screw,Customized
249J	3550JJ1111B 4270JJ3001E	•	522		
249J 249K	4270JJ3001E	•	S24	1SZZJA3011B	Screw,Customized
249J 249K 250A 250B	4270JJ3001E	Bar Connector Assembly	S24	1SZZJA3011B 4J01424C	Screw,Customized Screw,Customized
249J 249K 250A 250B 262D	4270JJ3001E 4403JJ3001A 4004JA3002A	Bar Connector Assembly Clip	S24 S27		Screw,Customized
249J 249K 250A 250B 262D 281A	4270JJ3001E 4403JJ3001A 4004JA3002A 3550JJ2013C	Bar Connector Assembly Clip Cover,Hinge	S24 S27 S29	4J01424C 4J00415D	Screw,Customized Screw,Customized
249J 249K 250A 250B 262D	4270JJ3001E 4403JJ3001A 4004JA3002A 3550JJ2013C 4775JJ2003B	Bar Connector Assembly Clip	S24 S27	4J01424C 4J00415D	Screw,Customized

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