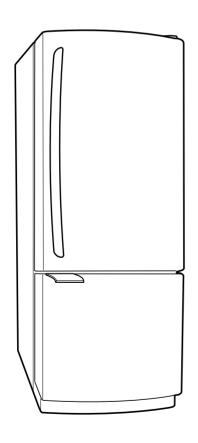


# REFRIGERATOR SERVICE MANUAL

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



### MODELS:

795.65002.402 795.65004.402 795.65009.402 795.65012.402 795.65014.402 795.65019.402

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# **SAFETY PRECAUTIONS**

Please read the following instructions before servicing your refrigerator.

- 1. Check the refrigerator for electrical faults.
- 2. To prevent electric shock, unplug before servicing.
- 3. Always check line voltage and amperage.
- 4. Use standard electrical components.
- Don't touch metal products in the freezer with wet hands. This may cause frostbite or cause your skin to freeze and stick to the surfaces inside the freezer.
- 6. Prevent water from flowing onto electric elements in the mechanical parts.
- 7. Close the top door before opening the bottom door.

  Otherwise, you might hit your head when you stand up.

- When tilting the refrigerator, remove any materials on the refrigerator, especially the glass shelves and stored foods.
- When servicing the evaporator, wear cotton gloves.
   This is to prevent injuries from the sharp evaporator fins.
- 10. Disassembly, repair, and servicing the sealed refrigeration system should be performed only by qualified and certified personnel. Refrigerant should not be vented into the atmosphere; proper recovery equipment should be used.

# 1. SPECIFICATIONS

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

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

### 1-2 IMPORTANT NOTICE

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

### 1-3 ELECTRICAL SPECIFICATIONS

Temperature Control (Position: MID)	8-(-6)°F
Defrost Control	7 hrs.
Defrost Thermostat	50°F
Electrical Rating :115V. AC, 60 Hz	1-5 Amp.
Maximum Current Leakage	0.5 mA
Maximum Ground Path Resistance	0.14 Ohms
Energy Consumption2 0 cu.ft: 482 kWh/	/yr(Energy star, 520kWh/yr
2 2 cu.ft : 494 kWh/yr(Ene	ergy star), 530kWh/yr

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

And Ambient of :	70°F	90°F
Fresh Food, °F	33°F to 41°F	33°F to 41°F
Frozen Food, °F	(-4°F) to 4°F	(-4°F) to 4°F
Percent RunningTime	25%-35%	45%-60%

(N	PERFORMANCE DATA (NORMAL OPERATING CONDITIONS)			
AMB	WATTO	SYSTEM PRES		
AIVID	HIGH SIDE LOW SI			
70°F	98 (+10 / -10)	97 (+5 / -3)	(-5) to (-2)	
90°F	98 (+10 / -10)	130 (+3 / -3)	(-4) to 1	
110°F	103 (+5 / -5)	174 (+5 / -5)	(-2) to 3	

### 1-5 REFRIGERATION SYSTEM

Minimum Compressor Capacity Vacuum	21 in.
Minimum Equalized Pressure	
@ 70°F49	) PSIG
@ 90°F 5	6 PSIG
Refrigerant - R - 134a 4.05 o z(21cu.ft	.5.47oz)
Compressor687	BTU/hr

### 1-6 INSTALLATION

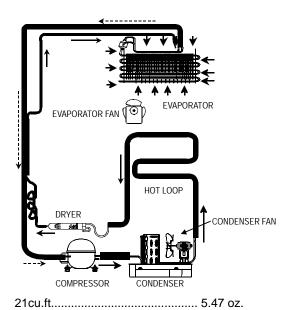
Clearance must be provided at top, sides and rear of the refrigerator for air circulation.

AT TOP	1 in
AT SIDES1/3	8 in
AT REAR1	in

### 1-7 REPLACEMENT PARTS

Relay	6749C-0008D
Overload	
Defrost Thermostat	6615JB2005C
Defrost Heater	20cu. ft : 5300JB1001D
	22cu. ft : 5300JB1100J
Evaporator Fan Motor	4680JK1002B
Capacitor	OCZZJB2003H
Compressor (Hi-Side)	2521JJ8007A
Evaporator (Lo-Side)	. 20cu. ft : 5421JJ1001A
	22cu. ft : 5421JJ1001B
Condenser	5403JJ1005A,4A
Dryer	5851JJ2002B
Condenser Fan Motor	4681JK1001B
Temperature Control	6871JB2047A,46B
Main Control	

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



FRESH FOOD

COLDAIR

MIXED AIR

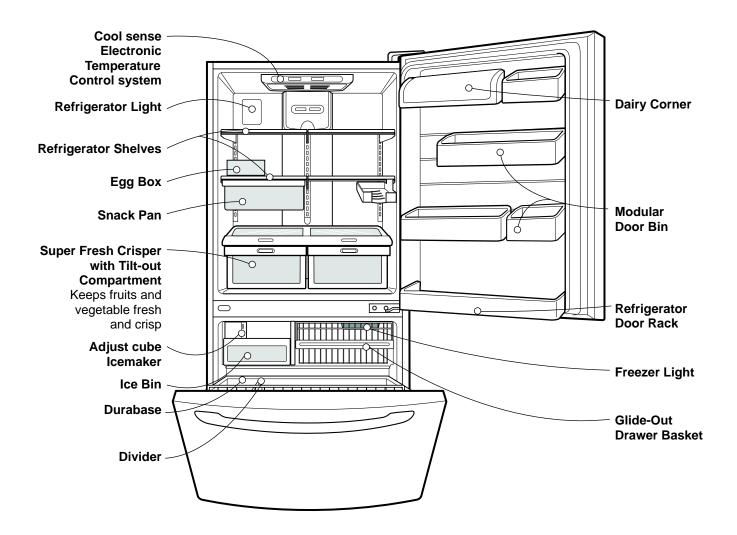
EVAPORATOR

EVAPORATOR

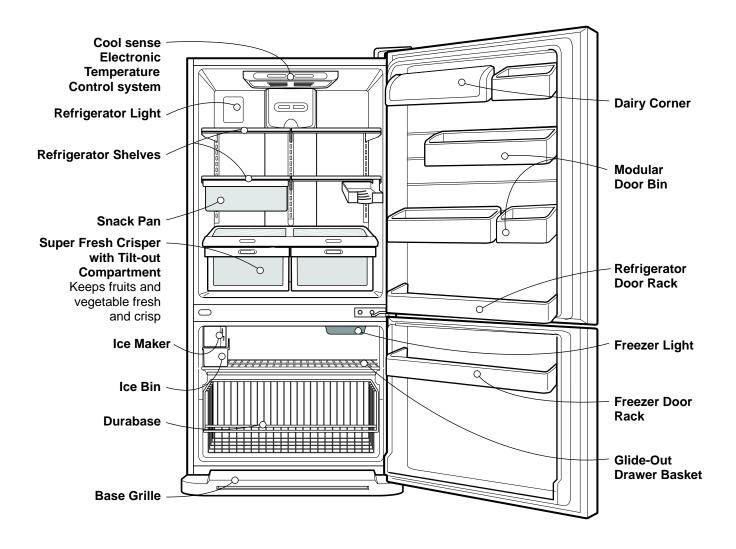
FREEZER

# 2. PARTS IDENTIFICATION

### **Freezer Drawer Model**



### **Swing Out Freezer Door Model**

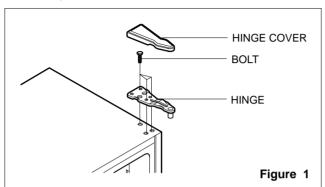


# 3. DISASSEMBLY

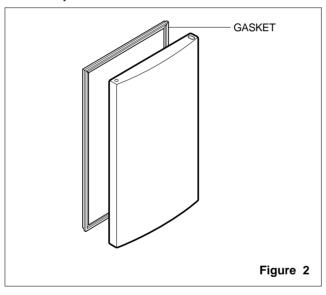
### **3-1 DOOR**

### **Refrigerator Door**

- 1. Remove the hinge cover by pulling it upwards.
- 2. Loosen the hexagonal bolts attaching the upper hinge to the body and lift the freezer door.

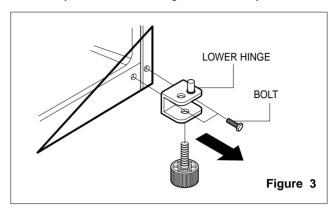


3. Pull out the door gasket to remove from the door foam assembly.



### Freezer Door

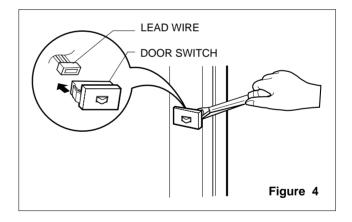
1. Loosen the hexagonal bolts attaching the lower hinge to the body to remove the refrigerator door only.



Pull out the door gasket to remove from the door foam assembly.

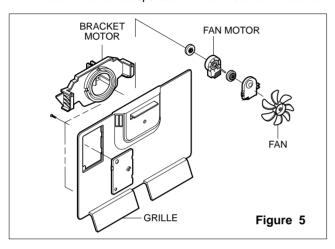
### 3-2 DOOR SWITCH

- 1. To remove the door switch, pry it out with a slotted-type driver, as shown in (Figure 4).
- 2. Disconnect the lead wire from the switch.



### 3-3 FAN AND FAN MOTOR

- 1. Remove the freezer shelf. (If your refrigerator has an icemaker, remove the icemaker first)
- Remove the grille by pulling it out and by loosening a screw.
- 3. Remove the Fan Motor assembly by loosening 2 screws and disassemble the shroud.
- 4. Pull out the fan and separate the Fan Motor and Bracket.



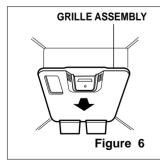
### 3-4 DEFROST CONTROL ASSEMBLY

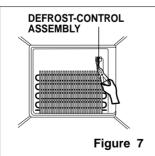
Defrost Control assembly consists of Defrost Sensor and FUSE–M.

The Defrost Sensor works to defrost automatically. It is attached to the metal side of the Evaporator and senses its temperature. At 72°C, it turns the Defrost Heater off.

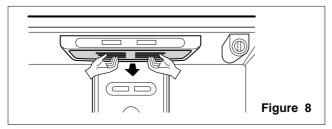
Fuse-M is a safety device for preventing over-heating of the Heater when defrosting.

- 1. Pull out the grille assembly. (Figure 6)
- 2. Separate the connector with the Defrost Control assembly and replace the Defrost Control assembly after cutting the Tie Wrap. (Figure 7)



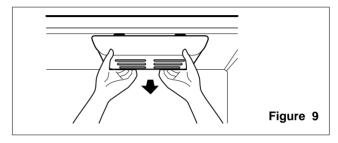


### **3-5 LAMP**



### 3-5-1 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.
- Assemble in reverse order of disassembly. Replacement bulb must be the same specification as the original (Max. 60 W-2EA).

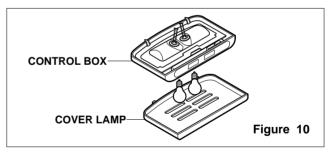


### 3-5-2 Freezer Compartment Lamp

- 1. Unplug refrigerator or disconnect power.
- 2. Reach behind light shield to remove bulb.
- 3. Replace bulb with a 40-watt appliance bulb.
- 4. Plug in refrigerator or reconnect power.

### 3-6 CONTROL BOX-REFRIGERATOR

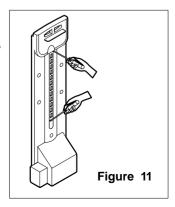
1. First, remove all shelves in the refrigerator, than remove the Refrigerator control Box by loosening 2 screws.



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

### **3-7 MULTI DUCT**

- Remove an upper and lower Cap by using a flat screwdriver, and loosen 3 screws. (Figure 11)
- 2. Disconnect the lead wire on the bottom position.



# 4. ADJUSTMENT

### 4-1 COMPRESSOR

### 4-1-1 Role

The compressor intakes low temperature and low pressure gas from the evaporator of the redrigerator 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 poper 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**

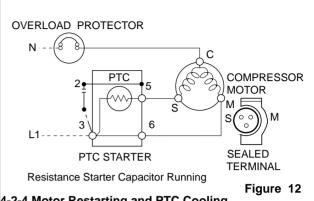
### 4-2-1 Composition of PTC-Starter

- (1) PTC (Positive Temperature Coefficient) is a no-contact semiconductor starting device which uses ceramic material consisting of BaTiO<sub>3</sub>.
- (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. During the starting operation, the PTC allows current flow to both the start winding and main wiinding

### 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

- (1) 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 possibility 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 resitance value may be altered. This can cause damage to the compressor and result inn 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.

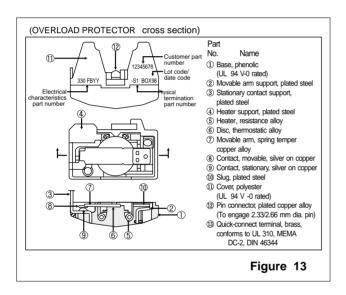
possibly death.

# 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.



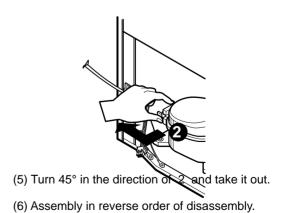
### 4-4 TO REMOVE THE COVER PTC



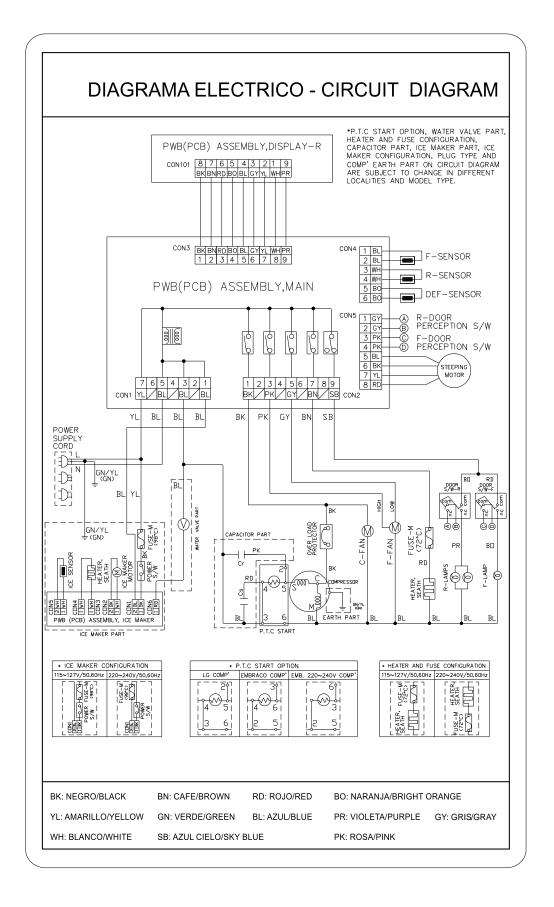
- (1) Remove the Cover Back M/C.
- (2) Remove the screw on Cover PTC



- (3) Remove two Housings on upper part of Cover PTC.
- (4) Take out the cover PTC from upper to lower position like 1.

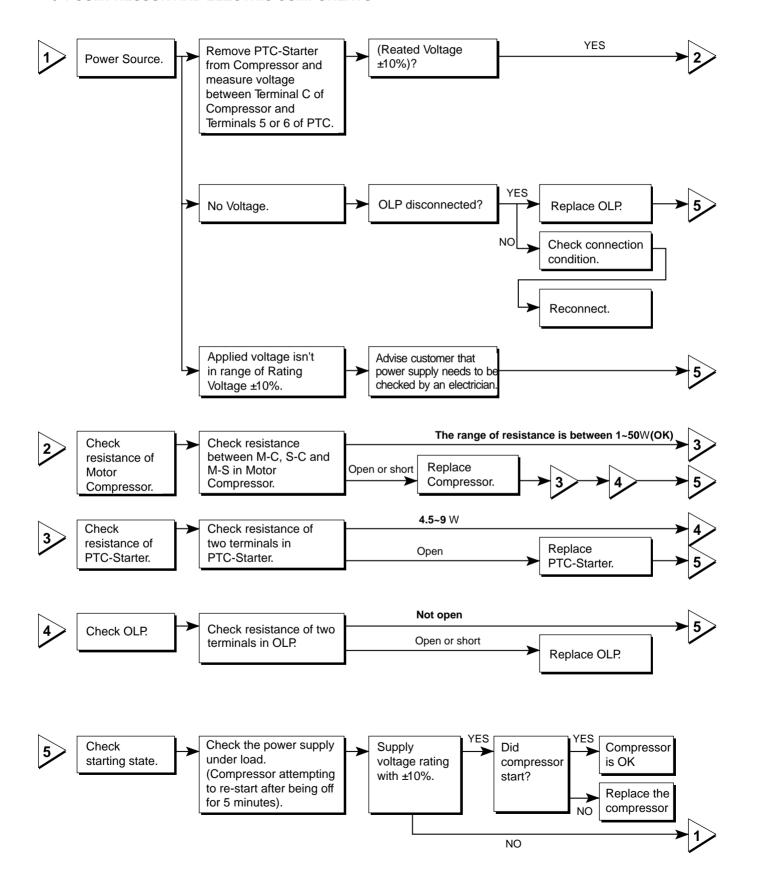


# 5. CIRCUIT DIAGRAM

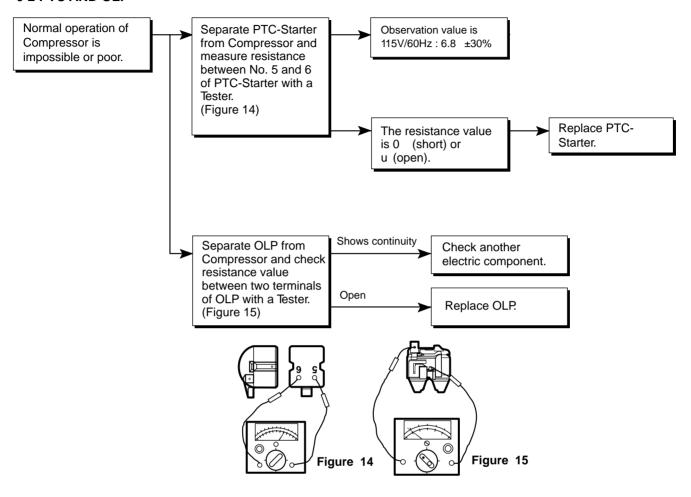


# 6. TROUBLESHOOTING

### 6-1 COMPRESSOR AND ELECTRIC COMPONENTS

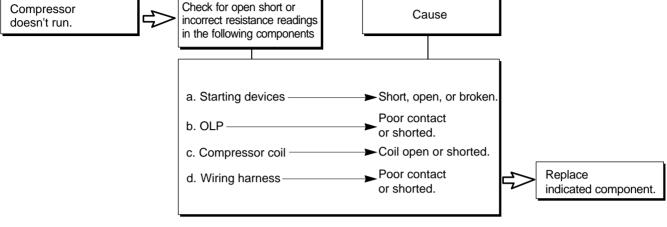


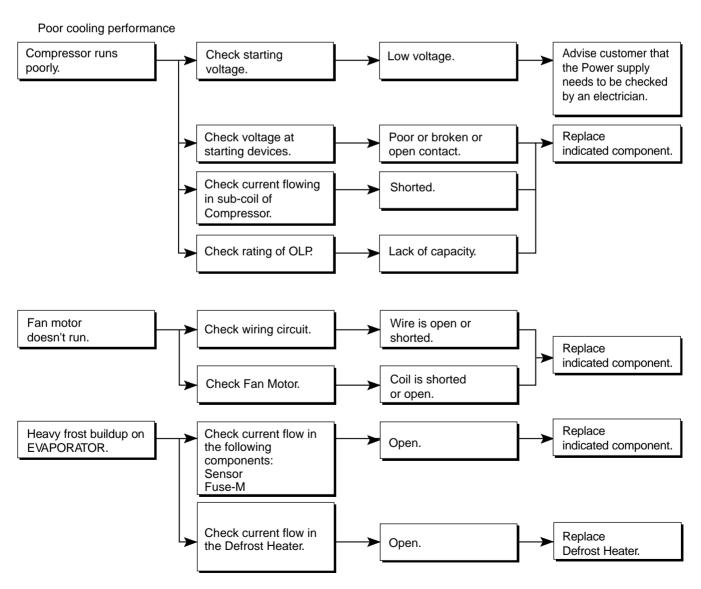
### 6-2 PTC AND OLP



### 6-3 OTHER ELECTRICAL COMPONENTS

# Not cooling at all

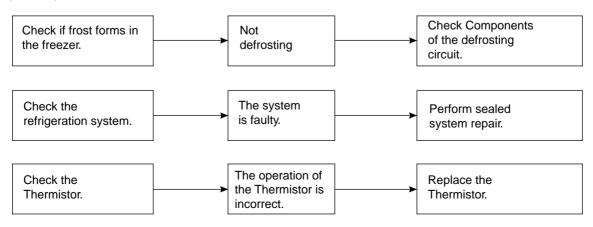




### 6-4 SERVICE DIAGNOSIS CHART

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

### Other possible problems:



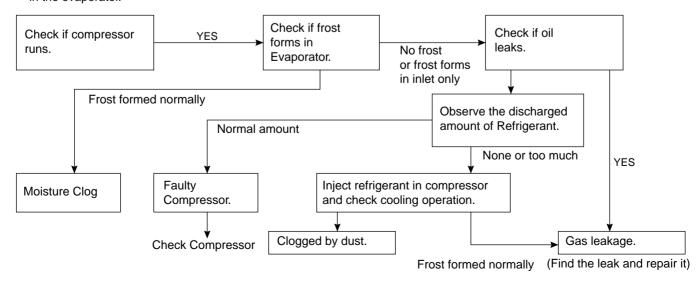
### 6-5 REFRIGERATION CYCLE

### **Troubleshooting Chart**

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

### **Leakage Detection**

Observe the discharging point of the refrigerant, which may be in the oil discharging part of the compressor and in a hole in the evaporator.



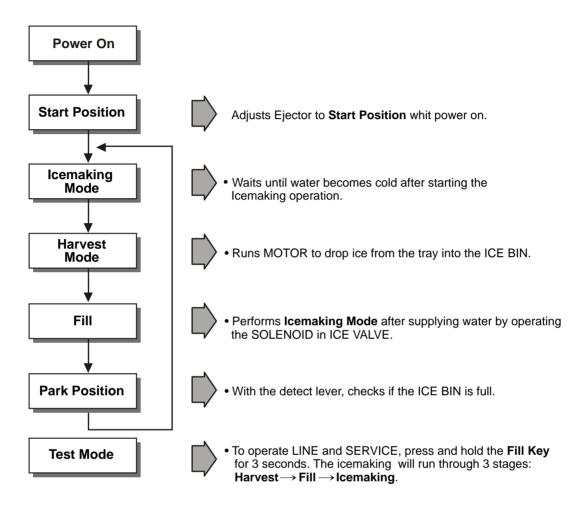
### **General Control of Refrigerating Cycle**

NO.	ITE	EMS	UNIT	STANDARDS	PURPOSES	REMARKS
1		ind system ng time	Min.	Pipe: within 1 hour. Comp: within 10 minutes. Drier: within 20 minutes.	To protect moisture penetration.	The opening time should be reduced to a half of the standards during rain and rainy seasons (the penetration of water into the pipe is dangerous).
2	Weldir	ng	Nitrogen pressure	Weld under Nitrogen atmosphere. (N <sub>2</sub> pressure: 0.1~0.2 kg/cm <sup>2</sup> )	To protect oxide scale formation.	<ul> <li>Refer to repair note in each part.</li> <li>R-134a refrigerant is more susceptible to leaks than R-12 and requires more care during welding.</li> <li>Do not apply force to pipes before and after welding to protect pipe from cracking.</li> </ul>
3	N <sub>2</sub> sea parts	aled	Confirm N₂ leak	Confirm the sound of pressure relief when removing the rubber cap. Sound: usable No sound: not usable	To protect moisture penetration.	<ul> <li>In case of evaporator parts, if it doesn't make sound when removing rubber cap, blow dry air or N gas for more than 1 min. and than use the parts.</li> </ul>
4	ration	Evacuation time	Min.	More than 40 minutes	To remove moisture.	
	Cycle	Vacuum degree	Torr	Below 0.03 (ref)		Note: Only applicable to the model equipped with reverse flow protect plate.
		Vacuum	EA	High and low pressure sides are evacuated at the same time for models above 200 <i>l</i> .		Vacuum efficiency can be improved by operating compressor during evacuation.
		Vacuum piping	EA	Use R-134a manifold exclusively.	To protect mixing of mineral and ester oils.	The rubber pipes for R-12 refrigerant will be melted when they are used for R-134a refrigerant (causes of leak.)
		Pipe coupler	EA	Use R-134a manifold exclusively.	To protect R-12 refrigerant mixing.	
		Outlet (Socket)		R-134a manifold exclusively.	To protect R-12 refrigerant mixing.	
		Plug		R-134a manifold exclusively.	To protect R-12 refrigerant mixing.	
5	Refrig weighi		EA	Use R-134a exclusively. Weighing allowance: ±5g Note: Winter: -5g Summer: +5g	Do not mix with R-12 refrigerant.	<ul> <li>Do not weigh the refrigerant at too hot or too cold an area.</li> <li>(77;F [25;C] is adequate.)</li> <li>Make Copper charging canister (Device filling refrigerant)</li> <li>Socket: 2SV Plug: 2PV R-134a</li> <li>Note: Do not burn O-ring (bushing) during welding.</li> </ul>
6	Drier replac	ement		<ul> <li>Use R-134a exclusively for R-134a refrigerator.</li> <li>Replace drier whenever repairing refrigerator cycle piping.</li> </ul>	To remove the moisture from pipe inside.	
7	Leak o	check		- Do not use soapy water for check. It may be sucked into the pipe by a vacuum.	Defect in refrigerant leak area.	<ul> <li>Check for an oil leak at the refrigerant leak area. Use an electronic leak detector if an oil leak is not found.</li> <li>The electronic leak detector is very sensitive to halogen gas in the air. It also can detect R-141b in urethane. Practice many times before using this type of detector to avoid false readings.</li> </ul>

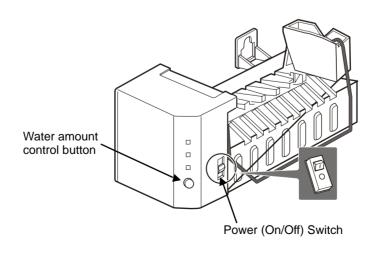
# 7. OPERATION PRINCIPLE AND REPAIR METHOD OF ICEMAKER

### 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. After POWER OFF or Power Outage, check the EJECTOR's position with MICOM initialization to restart.
- 2. How to check if it is in place:
  - Check HIGH/LOW signals from HALL SENSOR in MICOM PIN.
- 3. Control Method to check if it is in place:
  - (1) EJECTOR is in place,
    - It is an initialized control, so the mode can be changed to icemaking control.
  - (2) EJECTOR isn't in place:
    - A. If EJECTOR is back in place within 2 minutes with the motor on, it is being initialized. If not, go to Step B.
    - B. If EJECTOR is back in place within 18 minutes after the heater turns from ON to OFF, it is being initialized. If not, it is not functioning. Repeat Step B with Heater and Motor off.

### 7-2-2 Icemaking Mode

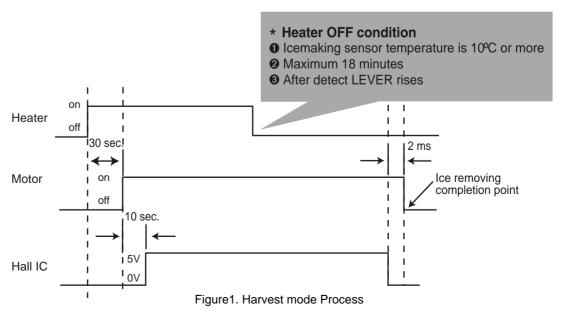
- 1. Icemaking refers to the freezing of supplied water in the ice trays. Complete freezing is assured by measuring the temperature of the Tray with Icemaking SENSOR.
- 2. Icemaking starts after completion of the water fill operation.
- 3. The Icemaking function is completed when the sensor reaches -7°C, 60 to 240 minutes after starting.
- 4. If the temperature sensor is defective, the ice-making function will be completed in 4 hours.

**NOTE**: After icemaker power is ON, the icemaker heater will be on for test for 9 seconds.

### 7-2-3 Harvest Mode

- 1. Harvest (Ice removing) refers to the operation of dropping cubes into the ice bin from the tray when icemaking has Completed.
- 2. Harvest mode:
  - (1) The heater is ON for 30 seconds, then the motor starts.
  - (2) After performing Step 1 (the heater is turned OFF), the ejector will be back in place within 18 minutes. (Hall sensor sign = OV). Ice removal is then complete. Then the icemaker cycles to the fill mode. The water supply fails to start, it is not functioning. Put the heater and motor in the off position. Restart every 2 hours. (Refer to figure1)

**NOTE**: If the motor malfunctions and starts before the detect lever rises, MICOM regards the Ice-Removing phase as completed. Water then starts flowing. To prevent this, MICOM doesn't switch to water-supply mode, but restarts the ice-removing mode. If this happens 3 times, the motor is malfunctioning and you should stop the loads (heater, motor). Then restart the Ice-Removing mode every 2 hours. (See Step 2 above.)



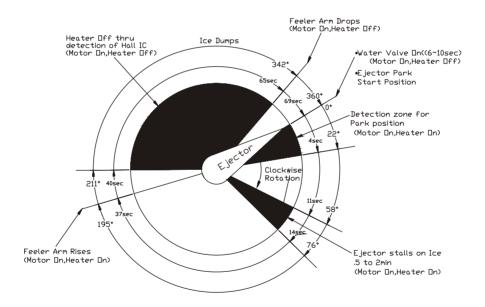
### 7-2-4 Fill/Park Position

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

### Water supply amount TABLE

STAGE	TIME TO SUPPLY	INDICATIONS	REMARKS
1	6 sec.		
2	7 sec.		The water amount will vary depending on the water control switch setting, as well as the water pressure of the connected water line.
3	8 sec.		

NOTE: Below is an example used by another vendor as an explanation of what is taking place.



### 7-2-5 Function TEST

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

### **Diagnosis TABLE**

STAGE	ITEMS	INDICATOR	REMARKS
1	HEATER		Five seconds after heater starts, heater will go off if temperature recorded by sensor is 10 <sub>i</sub> C or lever is in up position.
2	MOTOR		Five seconds after heater starts, you can confirm that motor is moving.
3	HALL IC (TRAY)		You can confirm Hall IC detection of position.
4	SOLENOID VALVE		Two seconds after detection of initial position, you can confirm that valve is on.
5	HALL IC (LEVER)		You can check when the Hall IC is sensing a full ice condition. (If there is a water fill error, the fifth LED is not on.)
6	Reset	Return to Status prior to TEST MODE	Five seconds after fifth stage is completed, the icemaker resets to initial status.

### 7-3 DEFECT DIAGNOSIS FUNCTION

### 7-3-1 ERROR CODES shown on Ice Maker water supply control panel

NO	DIVISION	INDICATOR	CONTENTS	REMARKS	
1	Normal	Mark time to supply	None	Display switch operates properly	
2	Icemaking Sensor malfunction		Open or short-circuited wire	Make sure that the wire on each sensor is connected.	
3	Icemaker Kit malfunction		When ejector blades don't reach park position over 18 minutes after harvest mode starts.	Check HALL IC/MOTOR/ HEATER/RELAY	

ERROR indicators in table can be checked only in TEST mode.

# 8. DESCRIPTION OF FUNCTION & CIRCUIT OF MICOM

### **8-1 FUNCTION**

### 8-1-1 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 initially applied or restored after a power failure, it is automatically set to "4" & "4".



### 8-1-2 Control of freezer fan motor

- 1. Freezer fan motor has high and standard RPMs
- High RPM is used when electricity is first on, for ultra ice, and when refrigerator is overloaded, but standard RPM is ised 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 (2200RPM): General working conditions.
- 5. The fan motor is stopped when Refrigerator door is opened.
- 6. The fan motor is stopped when freezer door is opened (only if comperessor status is OFF)

### 8-1-3 ULTRA ICE

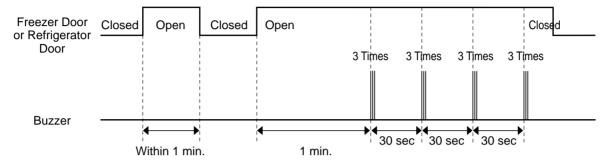
- 1. The purpose of this function is to intensify the cooling speed of freezer and to increase the amount of ice.
- 2. Whenever selection switch is pressed, selection/release, the LED will turn ON or OFF.
- 3. If there is a power cut and the refrigerator is power on again, ULTRA ICE function will be 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 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. 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.

### 8-1-4. REFRIGERATOR LAMP AUTO OFF

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

### 8-1-5 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.



### 8-1-6 Buzzer Sound

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

### 8-1-7 Defrosting (removing frost)

- 1. Defrosting starts each time when compressor running tim e reach 7 Hours, if any door hasn't been opened
- 2. In case of any Door has been opened the defrosting period will start considering the next conditions: If Compressor running time is bigger than 7 Hrs when door is opened: Defrosting starts immediately. If Compressor running time is less than 7 hours when door is opened:Defrosting starts after a compensation time is applied.
- 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.)
- 4. Defrosting won't function if its sensor is defective (wires are cut or short circuited)

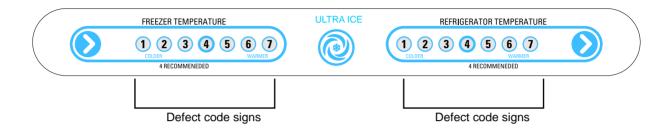
### 8-1-8 Electrical Parts Are Turned On Sequentially

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 ON ON Freezer FAN ON ON						
ial power on	Temperature of defrosting sensor is lower than 45°C (when power cuts, SERVICE)	POWER in 1/2 second ON → Defrosting in 10 second heater ON → Defrosting heater OFF  in 1/2 second COMP in 1/2 second Freezer FAN						
Res	et to normal operation	Total load in 7 minute COMP in 1/2 second Freezer FAN						
Reset to normal operation from TEST MODE		OFF ON ON						

### 8-1-8 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 defect is repaired the defect code is removed and regfrigerator returns to normal operation (RESET)
- 4. The Defect code is shown on the display.



### ERROR CODE on display panel

NO	ITEM			ERRO	OR C	ODE				CONTENTS	REMARKS	
1	Failure of freezer sensor	All off	•	0	0	0	0	0	0	Cut or short circuit wire		
2	Failure of Refrigerator sensor	All off	0	•	0	0	0	0	0	Cut or short circuit wire	Inspect Connecting wires on each sensor	
3	Failure of defrost sensor	All off	0	0	•	0	0	0	0	Cut or short circuit wire		
4	Poor of defrost	All off	•	•	•	•	0	0	0	2hours later After starting defrost, If sensor doesn't be over 46°F (8°C)	Snapping of defrost heater or Temperature fuse, pull-out of Connector (indicated minimum 2 Hours after failure occurs)	

### 8-1-10 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 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 & ADJUST FREEZER TEMP Keys at the same time over 3 seconds.	1. Continuous operation of the COMPRESSOR 2. Continuous operation of the freezer fan 3. STEPPING DAMPER OPEN 4. Defrosting Heater OFF 5. Every DISPLAY LED ON	
TEST2	Push ULTRA ICE & ADJUST FREEZER TEMP Keys at the same time over 3 seconds in TEST MODE 1	<ol> <li>COMP OFF</li> <li>Freezer FAN OFF</li> <li>STEPPING DAMPER CLOSE</li> <li>Defrosting heater ON</li> <li>DISPLAY LED 1, 3, 5, 7 ON</li> </ol>	Reset if the temperature of the Defrosting sensor is 46°F (8°C) or more.
Reset	Push ULTRA ICE & ADJUST FREEZER TEMP Keys at the time over 3 seconds. in TEST MODE 2	Reset to the previously setting before TEST MODE	The compressor will Start after a 7-minute delay.

**NOTE**: LED CHECK MODE: When the ADJUST REFRIGERATOR TEMP KEY & ADJUST FREEZER TEMP Keys are pressed at the same time and hold for 1 second or longer, every LED on the display turns on at the same time. when the button are relessed, the previous mode is restored.

### \* Freezer Fan RPM Variable Check:

In case the freezer fan is in operation when the COLD 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)

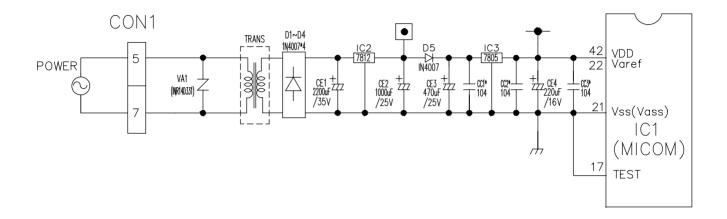
After 30 seconds, it turns to its original RPM.

- \* 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 demonstration 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 warks normally and can be demonstrated)
- 4. It reset if you do again as clause.

### **8-2 PCB FUNCTION**

### 8-2-1 Power Circuit



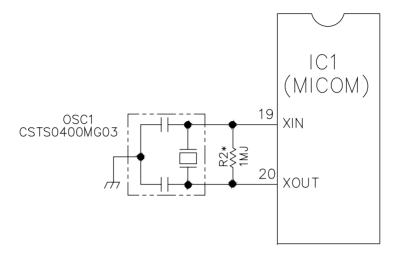
The secondary part of the TRANSFORMER is composed of the power supply for the display, The relay drive (12 Vdc) and the MICOM and IC (5 Vdc).

The voltage for each part is as follows:

PART	VA 1	CE 2	CE 1	CE 4
VOLTAGE	115 Vac	12 Vdc	15.5 Vdc	5 V

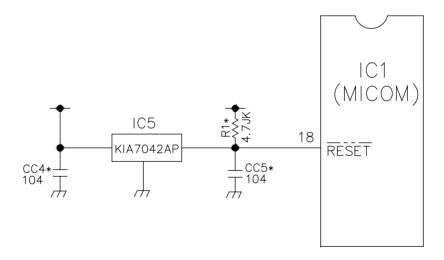
VA1 is a part for preventing over voltage and noise. When high voltage is applied, the inside elements are short-circuited and broken, resulting in blowout of the fuse in order to protect the elements of the secondary part of the TRANSFORMER.

### 8-2-2 Oscillation Circuit



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

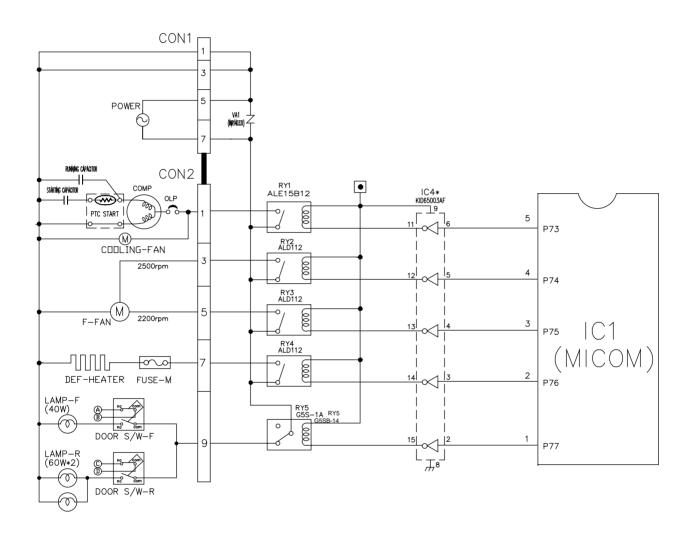
### 8-2-3 Reset Circuit



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

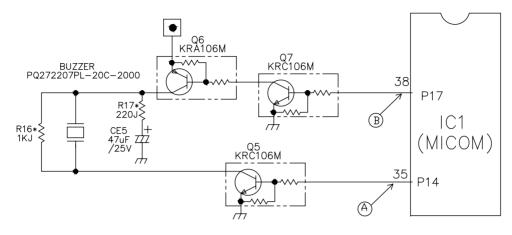
### 8-2-4 Load / Buzzer Drive & Open Door Detection Circuit

### 1. Load Drive Condition Check



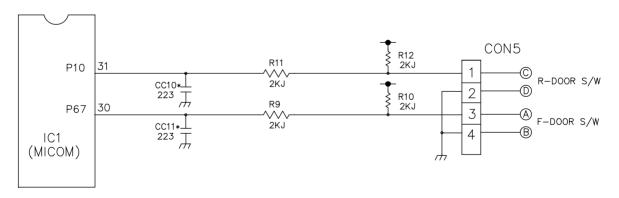
LOAD TYPE		COMP	DEFROSTING HEATER	LAMP	FREEZER FAN MOTOR (HIG RPM)	FREEZER FAN MOTOR (LOW RPM)				
Measurement Location (IC4)		NO.11	NO.14	NO.15	NO.12	NO.13				
Condition		1V or below								
Condition	OFF		12V							

### 2. Buzzer Drive Condition Check



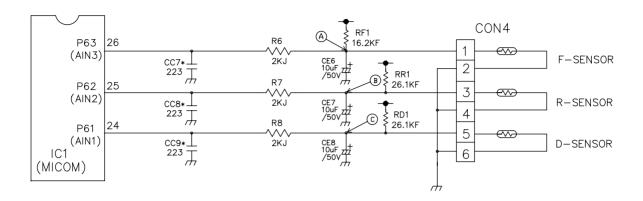
Condition Measure- ment Location	Tone (Ding~Dong~) when the button on the display is pushed.	Alarm for open door (beep-beep-beep)	OFF
IC1 ( (A))	0.05 s 0.2 s 0.1 s 2 s 0 V 0 V	0.5 s 0.5 s 0.5 s	0 V
IC1 (®)	5 V 0 V2.63 kz (Ding~)2.21 kz (Dong~)	5 V 0 V — 2.63 kz(Beep-) OFF	0 V

### 3. Open Door Detection Circuit Check



Measurement Freezer/ Location Refrigerator Door	(PIN NO.31 & PIN NO.30)
Closed	5 V
Open	0 V

### 8-2-5 Temperature Sensor Circuit

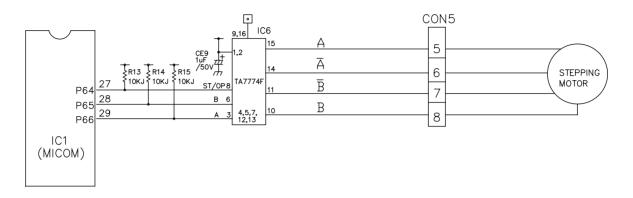


The upper CIRCUIT reads REFRIGERATOR temperature, FREEZER Temperature, and DEFROST-SENSOR temperature for defrosting and the indoor temperature for compensating for the surrounding temperature into MICOM. OPENING or SHORT state of each TEMPERATURE SENSOR are as follows:

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

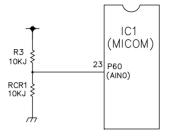
### 8-2-6 Refrigeration Compartment Stepping Motor Damper Circuit

\* The circuit shown below is the damper circuit to regulate the refrigerator temperature.



### 8-2-7 Temperature Compensation & Overcooling/Undercooling Compensation Circuit

### 1. Refrigerator Temperature Compensation



Refri	Refrigerator						
Resistance	Temperature	Remark					
(RCR)	Compensation						
180 K <b>Ω</b>	+2.5 °C	Compensation by					
56 K <b>Ω</b>	+2.0 °C	raising the temperature					
33 K <b>Ω</b>	+1.5 °C						
18 K <b>Ω</b>	+1.0 °C	<b>⊺</b>					
12 K <b>Ω</b>	+0.5 °C	<b>T</b>					
10 K <b>Ω</b>	0 °C	Standard Temperature					
8.2 K <b>Ω</b>	-0.5 °C	Compensation by					
5.6 K <b>Ω</b>	-1.0 °C	lowering the temperature					
3.3 K <b>Ω</b>	-1.5 °C						
2 ΚΩ	-2.0 °C	] <b>L</b>					
470Ω	-2.5 °C	▼					

Table of Temperature Compensation by adjusting the resistance (difference from the current temperature) e.g., If the refrigerator compensation resistance (RCR) is changed from 10K (the current resistance) to 18K (the adjustment resistance), the temperature of the refrigerator rises 33.8°F(+1°C).

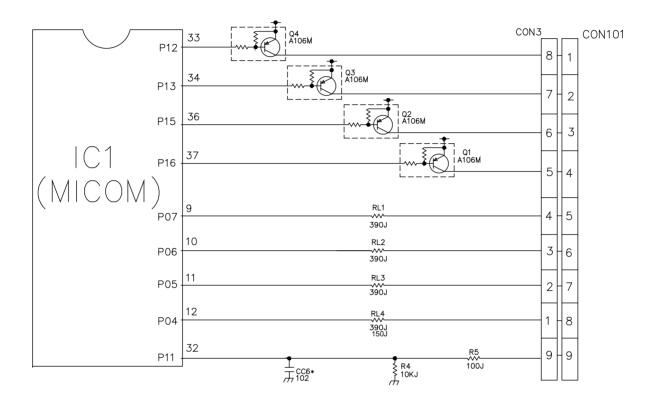
### 2. The temperature compensation for refrigerator compartment is in the following table:

	Revised resistance Present resistance	470Ω	2k <b>Ω</b>	3.3k <b>Ω</b>	5.6k <b>Ω</b>	8.2k <b>Ω</b>	10k <b>Ω</b>	12k <b>Ω</b>	18k <b>Ω</b>	33k <b>Ω</b>	56k <b>Ω</b>	180k <b>Ω</b>
	470Ω	No change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5 °C Up	4°C Up	4.5°C Up	5°C Up
	2k <b>Ω</b>	0.5°C Down	No Change	0.5 C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up	4.5°C Up
	3.3k <b>Ω</b>	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up
	5.6k <b>Ω</b>	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up
	8.2k <b>Ω</b>	2°C Down	1.5°C Down	1°C Down	0.5° Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up
Refrigerator (RCR)	10k <b>Ω</b>	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up
	12k <b>Ω</b>	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up
	18k <b>Ω</b>	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up
	33k <b>Ω</b>	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up
	56k <b>Ω</b>	4.5°C Down	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up
	180k <b>Ω</b>	5°C Down	4.5°C Down	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change

**NOTE**: This circuit is designed to input the necessary temperature compensation values into the MICOM. This adjusts the refrigerator temperature, which is different in each model.

### 8-2-8 Key Button Input & Display Light-On Circuit

The circuit shown above determines whether a function control key on the operation display is pushed. It also turns on the corresponding function indication LED DISPLAY. The drive type is the scan type.



### 8-3 RESISTANCE SPECIFICATION OF SENSOR

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

<sup>•</sup> The resistance of the SENSOR has a ±5% common difference.

<sup>•</sup> 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.

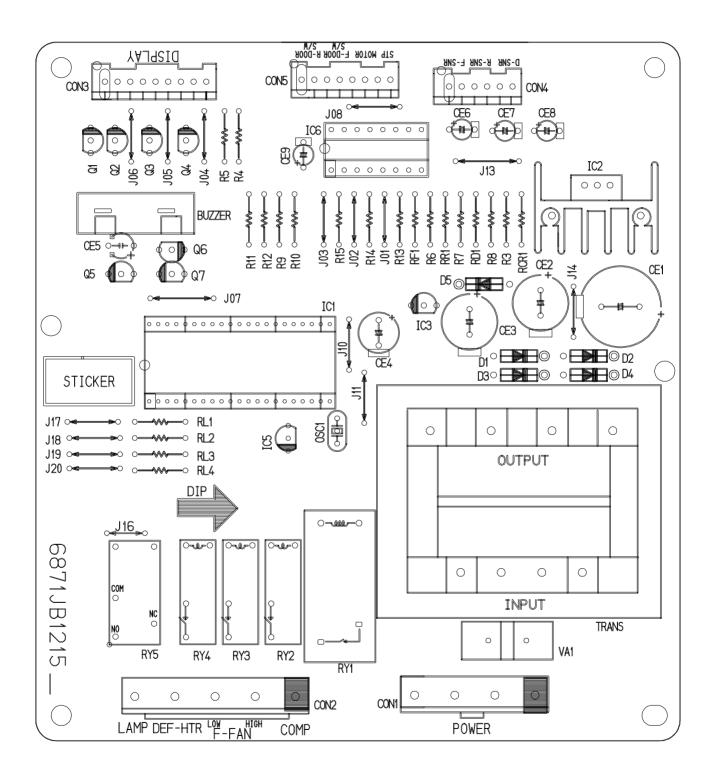
# 8-4 TROUBLESHOOTING

PROBLEM POWER SOURCE is poor.	1. The whole DISPLAY LED/SEVEN SEGMENT	CHECK  1. FREEZER/ REFRIGERATOR.	CHECKING METHOD  Check if FREEZER/  REFRIGERATOR DOOR IS	CAUSE POWER SOURCE is poor.	SOLUTION Check outlet Voltage.
	2. DISPLAY LED/ SEVEN SEGMENT DISPLAY operates abnormally	2. If LAMP is dim. 3. The connection of the MAIN PWB CONNECTOR.	Check visually.  Check connection of  CONNECTOR.	Applied voltage error. CONNECTOR connection is poor. TRANS FUSE is open.	Use boosting TRANS. Reconnect CONNECTOR Replace TRANS.
COOLING is poor.	NO COOLING.	1. If the COMPRESSOR operate.	USE TEST MODE1 (forced COOLING). If less than 7 minutes pass after compressor shuts off, don   don   off press the KEY and	COMPRESSOR locked or blocked. OLP, PTC is poor. COMPRESSOR RELAY is poor.	Replace COMPRESSOR. Replace OLP, PTC. Replace MAIN PWB.
			wait.	THE CONNECTING WIRE is poor.	Check the connection of the black wire of the MAIN PWB CONNECTOR (CON2).
		2. If refrigerant is leaking	Measure the amount of frost sticking on EVAPORATOR and the surface temperature of the condenser pipe.	Refrigerant leakage.	Replace the leaking part and replace any lost refrigerant.
	FREEZER TEMPERATURE is	1. If FAN MOTOR operates.	USE TEST MODE1 (forced COOLING).	FAN MOTOR is poor.	Replace the FAN MOTOR.
	incorrect			CONNECTING WIRE is poor.	Certify the MOTOR and the connection of the black wire of the MAIN PWB CONNECTOR (CON2).
		2. If DEFROSTING is normal.	Check the amount of frost sticking on the EVAPORATOR.	DEFROSTING is poor.	See DEFROSTING is poor.
		3. If SENSOR is normal.	Check the resistance of the Refrigerator SENSOR.	SENSOR RESISTANCE is poor.	Replace SENSOR.
		4. Door Line contact.	Check the seal when the door is closed.	Door liner damaged.	Replace door liner.

Check is FREEZER  TEMPERATURE istoo low.  Make sure that the amount and speed of cool air are sufficient by touching the check supplied on the REFRIGERATOR.  Check door seal when door is closed.  USE TEST MODE2 (forced DEFROSTING).  (forced DEFROSTING).  TEMPERATURE is blocked.  Door liner damaged.  HEATER disconnection.  Connection is poor.  Check DRAIN PIPE.  DEFROST-SENSOR is poor.  HEATER RELAY is poor.  DRAIN PIPE is blocked.  DOOR does not close  Properly.

### 8-5 MAIN PWB ASSEMBLY AND PARTS LIST

### 8-5-1 Main PWB Assembly



### 8-5-2 Replacement Parts List

ı I		Τ			
_	P/N0	DESCRIPTION	SPEC	MAKER	REMARK
2	6870JB8089A = C	PWB (PCB)	KS-PJT GOOD MDL	DOO SAN	T=1.6
3	6170JB2002H	TRANSFORMER,LOW VOLTAGE	240V I5V YES GR-MICOM ONE TAB	TAE SUNG	TRANS
4	6170JB2002M	TRANSFORMER, LOW VOLTAGE	260V ISV YES GR-MICOW ONE TAB	TAE SUNG	TRANS
5	6170JB2002R	TRANSFORMER,LOW VOLTAGE	140V 15V YES GR-MICOM ONE TAB	TAE SUNG	TRANS
6	6170JB2002W	TRANSFORMER,LOW VOLTAGE	II5V I5V YES GR-MICOM ONE TAB	TAE SUNG	TRANS
7	-	- CONNECTOR (CIRC) WAFER	- VINTOC OZAV VICANIO ZONA OZDANICIJI CNI	- VEON UO	- CONII
8	6630A09I06C 6630A09I06D	CONNECTOR (CIRC), WAFER CONNECTOR (CIRC), WAFER	YW396-07AV YEONHO 7PIN 3.96MM STRAIGHT SN YW396-09AV	YEON HO YEON HO	CONI CON2
10	6630A09I06B	CONNECTOR (CIRCI, WAFER	YW396-05AV	YEON HO	-
П	6630JB8007G	CONNECTOR (CIRCI, WAFER	917786-1 AMP 8PIN 2.5MM STRAIGHT SN	AMP	CON5
12	6630JB8007H	CONNECTOR (CIRC), WAFER	917787-1 AMP 9PIN 2.5MM STRAIGHT SN	AMP	CON3
13 14	6630JB8007E	CONNECTOR (CIRC), WAFER	917784-1 AMP 6PIN 2.5MM STRAIGHT SN	AMP	CON4
15	01ZZJB2023L	IC, DRAWING	TMP87C846N 42 SDIP BK KS-BETTER/GOOD(MASK)	TOSHIBA	- ICI(0IZZJB2022M)
16	01ZZJB2022	IC, DRAWING	-	TOSHIBA	ICI (0IZZJB2022)
17	01ZZJB2022	IC, DRAWING	-	TOSHIBA	ICI (0IZZJB2022)
18	-	-		-	-
19 20	01KE781200B 01KE781200M	IC,KEC	KIA7812P1 12V IA,KEC     KIA7812P1 3DIP BK 12V IA REFORM	KEC	IC2
21	OIKE780500A	IC,KEC	KIA78505P, 3PIN, DIP. KEC	KEC	IC3
22	OISTLMIOOIA	IC,STANDARD LOGIC	M54563FP MITSUBISHI 20 R/TP CONVERT	MITSUBISH	-
23	01T0777400A	IC,TOSHIBA	TA7774AP 16 SDIP BK STEPPING MOTOR	TOSHIBA	IC6
24		IC,KEC	KID65003AF I6SOP BK 7CH DRIVER	KEC	IC4
25 26		IC, ROHM	KIA7042P 3P BK RESET BR93LC46RF-W 8PIN SOP BK EEPROM -	KEC ROHM	IC5
27	-	-	-	-	-
28	6920000001A	RELAY	ALEISBIZ MATSUSHITA 250VAC IGA IZVDC IA NO VENTING	NAIS	RYI
29	6920WRD010A	RELAY	USII-I2S YUYU 250VAC 3A I2VDC IA	YUYU	-
30	6920JB2003B 6920JB2009A = B	RELAY	ALDII2 MATSUSHITA 250VAC 3A I2VDC IA G598-14 250VAC 5A I2VDC IC	OMRON OMRON	RY2-RY4 RY5
32	- DZCUJDZUUJA = B	-		-	-
33	-	-		-	-
34	6212JB8001B	RESONATOR, CERAMIC	CSTS0400 MURATA 4MHZ +/- 0.5% ISPF TP NONE	MURATA	0SCI (J570-00012B)
35	6102W5V006A	VARISTOR	INRIAD331 ILJIN UL/CSA/VDE BK	ILJIN	VAI
36 37	6102JB8003A 6102JB8001B	VARISTOR VARISTOR	INRI40271   ILJIN UL/VDE TP 270V  INRI40621   ILJIN UL/VDE BK 620V	ILJIN ILJIN	VAI VAI
38	ODD400709AA	DIODE, RECTIFIERS	IN4007 TP MOTOROLA IA	DELTA	DI-D5
39	-		- 100 MAN (MAN) 1	-	
40	-	-	-	-	-
41	0CE2286J6I0	CAPACITOR, AL. ELECTROLYTIC	2200 UF SMS,SG 35V M FL BULK	SAM HWA	CEI
42	0CE1086J610 0CE1086H618	CAPACITOR,FIXED ELECTROLYTIC  CAPACITOR,AL.ELECTROLYTIC	1000UF SMS,SG 35V 20% FL BULK  1000 UF SMS,SG 25V M FL TP 5	SAM HWA	CE2
44	0CE4776H6I8	CAPACITOR, FIXED ELECTROLYTIC	470UF SMS,SG 25V 20% FL TP 5	SAM HWA	CE3
45	0CE2276F638	CAPACITOR, FIXED ELECTROLYTIC	220UF SMS,SG 16V 20% FM5 TP 5	SAM HWA	CE4
46	0CE1076H638	CAPACITOR, FIXED ELECTROLYTIC	100UF SMS,SG 25V 20% FM5 TP 5	SAM HWA	•
47	00E1066K638	CAPACITOR, FIXED ELECTROLYTIC	IOUF SNS,SG 50V 20% FM5 TP 5	SAM HWA	CE6-CE8
48 49	0CE1056K638 0CE476IH638	CAPACITOR, FIXED ELECTROLYTIC CAPACITOR, FIXED ELECTROLYTIC	UF SMS,SG 50V 20% FM5 TP 5   47UF SMS,SG 25V 20% FM5 TP 5	SAM HWA SAM HWA	CE5
50	0C0223IN409	CAPACITOR, POLYESTER	0.022 UF D 100V J PE TP	SAM HWA	-
51	OCK102DK96A	CAPACITOR, FIXED CERAMIC (HIGH DIELECTRIC)	INF 2012 50V 80%, -20% R/TP X7R		CC6
52	OCK223DK96A	CAPACITOR, FIXED CERAMIC (HIGH DIELECTRIC)	22NF 2012 50V 80%, -20% R/TP X7R	MURATA	CC7-CCII
53 54	-	- CADACITOD EIVED CEDANICULICII DIELECTRICI	-  100NF	MURATA	-  CCI-CC5
55	OCK104DK94A	CAPACITOR, FIXED CERAMIC (HIGH DIELECTRIC)		MURATA	-
56	OCK1040K949	CAPACITOR, FIXED CERAMIC (HIGH DIELECTRIC)	0.IUF D 50V 80%, -20% F(Y5V) TA52		-
57	-	† · · · · · · · · · · · · · · · · · · ·	-		
58		*		MURATA	-
59	-	-	- ISO AND LOW F. OOK TIES		
1 60 L	- 0RDI500G609 0RD3900G609	- RESISTOR, FIXED CARBON FILM RESISTOR FIXED CARBON FILM	150 OHM I/4W 5.00% TA52 290 OHM I/4 W 5.00% TA52	SMART	- - RL4 R-1-R-3
60 6I	- ORDI500G609 ORD3900G609 ORDI000G609	RESISTOR, FIXED CARBON FILM	- 150 OHM I/4W 5.00% TA52 390 OHM I/4 W 5.00% TA52 100 OHM I/4 W 5.00% TA52		- - RL4 RLI-RL3
61 62	0RD3900G609 0RD1000G609 0RJ100IE672	RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZED (CHIP)	390 CHM 1/4 W 5.00X TAS2 100 CHM 1/4 W 5.00X TAS2 1K CHM 1/4 W 5X 2012 R7TP	SMART SMART SMART ROHM	RLI-RL3
61 62 63	ORD39006609 ORDI0006609 ORJI00IE672 ORJ200IE672	RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, METAL. GLAZEDICHIPI RESISTOR, METAL. GLAZEDICHIPI	390 OHM 1/4 W 5.00% TA52 100 OHM 1/4 W 5.00% TA52 1K OHM 1/8 W 5% 2012 R/TP 2K OHM 1/8 W 5% 2012 R/TP	SMART SMART SMART ROHM ROHM	RLI-RL3 R5 R16
61 62 63 64	0RD39006609 0RD10006609 0RJ1001E672 0RJ2001E672 0RD20016609	RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED CARBON FILM	390 OHM I/4 W 5.00% TA52 100 OHM I/4 W 5.00% TA52 I/4 W 5.00% TA52 I/4 OHM I/8 W 5% 2012 R/TP ZK OHM I/8 W 5% 2012 R/TP ZK OHM I/8 W 5% 2012 R/TP	SMART SMART SMART ROHM ROHM SMART	RLI-RL3 R5 R16 - R6-R12
61 62 63 64 65	ORD39006609 ORD10006609 ORJ1001E672 ORJ2001E672 ORD2001G609 ORH2200L622	RESISTOR, FIXED CARBON FILM RESISTOR, METAL, GLAZEDICHIP) RESISTOR, METAL, GLAZEDICHIP) RESISTOR, METAL, GLAZEDICHIP) RESISTOR, FIXED CARBON FILM RESISTOR, METAL, GLAZEDICHIP)	390 CHM 1/4 W 5.00% TAS2 100 CHM 1/4 W 5.00% TAS2 1K CHM 1/8 W 5% 2012 R/TP 2K CHM 1/8 W 5% 2012 R/TP 2K CHM 1/4 W 5.00% TAS2 220 CHM 1/8 W 2012 S.00% D	SMART SMART SMART ROHM ROHM	RLI-RL3 R5 R16
61 62 63 64	ORD39006609 ORDI0006609 ORJI001E672 ORJ2001E672 ORD20016609 ORH22001622 ORJ2201E672 ORJ2201E672 ORJ4701E672	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIP)	390 OHM I/4 W 5.00% TA52 100 OHM I/4 W 5.00% TA52 IK OHM I/8 W 5% 2012 R/TP 2K OHM I/8 W 5% 2012 R/TP 2K OHM I/4 W 5.00% TA52 220 OHM I/8 W 2012 5.00% D 2.2K OHM I/8 W 5% 2012 R/TP 4.7K OHM I/8 W 5% 2012 R/TP	SMART SMART SMART ROHM ROHM SMART ROHM ROHM	RLI-RL3 R5 R16 - R6-R12
61 62 63 64 65 66 67 68	ORD39006609 ORDI0003609 ORJI00IE672 ORJ200IE672 ORD200I6609 ORH2200L622 ORJ220IE672 ORJ470IE672 ORJ470IE672	RESISTOR, FIXED CARBON FILM RESISTOR, METAL, GLAZEDICHIP) RESISTOR, METAL, GLAZEDICHIP) RESISTOR, METAL, GLAZEDICHIP) RESISTOR, FIXED CARBON FILM RESISTOR, METAL, GLAZEDICHIP)	390 CHM 1/4 W 5.00X TAS2 100 CHM 1/4 W 5.00X TAS2 100 CHM 1/4 W 5.00X TAS2 1X CHM 1/8 W 5X 2012 R/TP 2X CHM 1/8 W 5X 2012 R/TP 4.7X CHM 1/8 W 5X 2012 R/TP 4.7X CHM 1/8 W 5X 2012 R/TP 4.7X CHM 1/8 W 5X 2012 R/TP	SMART SMART SMART ROHM ROHM SMART ROHM ROHM ROHM	RL1-RL3 R5 R16 - R6-R12 R17
61 62 63 64 65 66 67 68 69	OR039005609 ORDI0003609 ORJI001E672 ORJ2001E672 ORD20016609 OR-12200.622 ORJ201E672 ORJ4701E672 ORD47016609	RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM	390 OHM I/4 W 5.00% TAS2 100 OHM I/4 W 5.00% TAS2 100 OHM I/4 W 5.00% TAS2 IK OHM I/8 W 5% 2012 R/TP 2K OHM I/8 W 5% 2012 R/TP 2K OHM I/4 W 5.00% TAS2 220 OHM I/8 W 5% 2012 R/TP 4.7K OHM I/4 W 5.00% TAS2	SMART SMART SMART ROHM ROHM SMART ROHM ROHM ROHM ROHM SMART	RL1-RL3 R5 R16 - R6-R12 R17
61 62 63 64 65 66 67 68 69 70	ORD39005609 ORDI0003609 ORJI000E672 ORJ2001E672 ORD20016609 ORH2200L622 ORJ201E672 ORJ4701E672 ORJ47016609 ORD47016609	RESISTOR, FIXED CARBON FILM RESISTOR, METAL. GLAZEDICHIPI RESISTOR, FIXED CARBON FILM	390 OHM 1/4 W 5.00% TAS2 100 OHM 1/4 W 5.00% TAS2 110 OHM 1/4 W 5.00% TAS2 110 OHM 1/8 W 5% 2012 R/TP 2K OHM 1/8 W 5% 2012 R/TP 2K OHM 1/8 W 5.00% TAS2 220 OHM 1/8 W 5.00% TAS2 220 OHM 1/8 W 5.00% D 2.2K OHM 1/8 W 5% 2012 R/TP 4.7K OHM 1/8 W 5% 2012 R/TP	SMART SMART SMART RO-M RO-M SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M	RL1-RL3 R5 R16 - R6-R12 R17
61 62 63 64 65 66 67 68 69	OR039005609 ORDI0003609 ORJI001E672 ORJ2001E672 ORD20016609 OR-12200.622 ORJ201E672 ORJ4701E672 ORD47016609	RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM	390 OHM I/4 W 5.00% TAS2 100 OHM I/4 W 5.00% TAS2 100 OHM I/4 W 5.00% TAS2 IK OHM I/8 W 5% 2012 R/TP 2K OHM I/8 W 5% 2012 R/TP 2K OHM I/4 W 5.00% TAS2 220 OHM I/8 W 5% 2012 R/TP 4.7K OHM I/4 W 5.00% TAS2	SMART SMART SMART ROHM ROHM SMART ROHM ROHM ROHM ROHM SMART	RL1-RL3 R5 R16 - R6-R12 R17
61 62 63 64 65 66 67 68 69 70 71 72 73	ORD/93006609 ORD/0006609 ORD/0006609 ORD/0006672 OR_20016672 OR_20016679 ORP2200.622 OR_2200672 OR_47016672 OR_47016672 OR_47016609 ORD/00026672 ORD/00026672 ORD/00026672 ORD/00026672 ORD/00026672 ORD/00026672 ORD/00026672	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, METAL GLAZEDICHIPI RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI	390 CHM 1/4 W 5.00% TAS2 100 CHM 1/4 W 5.00% TAS2 110 CHM 1/4 W 5.00% TAS2 110 CHM 1/8 W 5% 2012 R/TP 2K CHM 1/8 W 5% 2012 R/TP 2K CHM 1/8 W 5% 2012 R/TP 2K CHM 1/8 W 5% 2012 R/TP 2C CHM 1/8 W 5% 2012 R/TP 2.2K CHM 1/8 W 5% 2012 R/TP 4.7K CHM 1/8 W 5% 2012 R/TP 1CK CHM 1/4 W 5.00% TAS2 27K CHM 1/4 W 5.00% TAS2 27K CHM 1/8 W 5% 2012 R/TP	SMART SMART SMART ROHM ROHM SMART ROHM ROHM ROHM ROHM ROHM ROHM ROHM ROHM	RLI-RL3 RS RS RIG
61 62 63 64 65 66 67 68 69 70 71 72 73 74	ORD39005609 ORDI003609 ORDI003609 ORDI0016672 ORL20016672 ORL20016609 ORL20016622 ORL20016672 ORL47016672 ORL47016672 ORDI0026672	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI	390 CHM 1/4 W 5.00% TAS2 100 CHM 1/8 W 5% 2012 R/TP	SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M SMART RO-M SMART RO-M SMART RO-M SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	RLI-RL3 R5 R16
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75	ORD39006609 ORD10006609 ORD10006609 ORD10006672 ORE20016672 ORE20016609 ORH-22006622 ORE22016672 ORE47016672 ORE47016672 ORE47016609 ORD10026672 ORD10046672	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED METAL FILM	390 OHM I/4 W 5.00% TAS2 IN OHM I/4 W 5.00% TAS2 IN OHM I/4 W 5.00% TAS2 IN OHM I/8 W 5% 2012 R/TP 2K OHM I/8 W 5% 2012 R/TP 2K OHM I/8 W 5% 2012 R/TP 2K OHM I/8 W 50% TAS2 220 OHM I/8 W 50% TAS2 220 OHM I/8 W 5% 2012 R/TP 4.7K OHM I/8 W 5% 2012 R/TP 1.7K OHM I/8 W 5% 2012 R/TP IOK OHM I/8 W 5% 2012 R/TP IN OHM I/8 W 5% 2012 R/TP IN OHM I/8 W 5% 2012 R/TP IN OHM I/8 W 5% 2012 R/TP Z56, IK OHM I/8 W 5% 2012 R/TP	SMART SMART SMART SMART SMART ROHM ROHM SMART ROHM ROHM ROHM ROHM ROHM SMART	RLI-RL3 RS RS RIG
61 62 63 64 65 66 67 68 69 70 71 72 73 74	ORD39005609 ORDI003609 ORDI003609 ORDI0016672 ORL20016672 ORL20016609 ORL20016622 ORL20016672 ORL47016672 ORL47016672 ORDI0026672	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI	390 CHM 1/4 W 5.00% TAS2 100 CHM 1/8 W 5% 2012 R/TP	SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M SMART RO-M SMART RO-M SMART RO-M SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	RLI-RL3 R5 R16
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77	ORD/39006609 ORD/0006609 ORD/0006609 ORD/0006672 ORL/20016672 ORL/20016673 ORL/20016609 ORH/220016672 ORL/47016672 ORL/47016672 ORL/47016609 ORL/27026672 ORL/47016609 ORL/27026672 ORL/0026672 ORL/0026672 ORL/0026672 ORL/0026672 ORL/0026672 ORL/0026672 ORL/0026672 ORL/0026672	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED METAL FILM RESISTOR, FIXED METAL FILM	390 O'HM 1/4 W 5.00% TAS2 100 O'HM 1/4 W 5.00% TAS2 110 O'HM 1/4 W 5.00% TAS2 110 O'HM 1/8 W 5% 2012 RYTP 2K O'HM 1/8 W 5% 2012 RYTP 4.7K O'HM 1/8 W 5% 2012 RYTP 10K O'HM 1/4 W 5.00% TAS2 27K O'HM 1/8 W 5% 2012 RYTP 10K O'HM 1/4 W 5.00% TAS2 27K O'HM 1/8 W 5% 2012 RYTP 10K O'HM 1/4 W 1.00% TAS2 16.2K O'HM 1/4 W 1.00% TAS2	SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	RLI-RL3 RS RS RIG
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	ORD39006609 ORD10006609 ORD10006609 ORD10006672 ORE20016672 ORE20016609 ORH-22006622 ORE22016672 ORE47016672 ORE47016672 ORE47016609 ORD10026672 ORD10046672	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED METAL FILM	390 OHM I/4 W 5.00% TAS2 IN OHM I/4 W 5.00% TAS2 IN OHM I/4 W 5.00% TAS2 IN OHM I/8 W 5% 2012 R/TP 2K OHM I/8 W 5% 2012 R/TP 2K OHM I/8 W 5% 2012 R/TP 2K OHM I/8 W 50% TAS2 220 OHM I/8 W 50% TAS2 220 OHM I/8 W 5% 2012 R/TP 4.7K OHM I/8 W 5% 2012 R/TP 1.7K OHM I/8 W 5% 2012 R/TP IOK OHM I/8 W 5% 2012 R/TP IN OHM I/8 W 5% 2012 R/TP IN OHM I/8 W 5% 2012 R/TP IN OHM I/8 W 5% 2012 R/TP Z56, IK OHM I/8 W 5% 2012 R/TP	SMART SMART SMART SMART SMART ROHM ROHM SMART ROHM ROHM ROHM ROHM ROHM SMART	RLI-RL3 RS RS RIG
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77	ORD/39006609 ORD/0006609 ORD/0006609 ORD/0006672 ORL/20016672 ORL/20016673 ORL/20016609 ORH/220016672 ORL/47016672 ORL/47016672 ORL/47016609 ORL/27026672 ORL/47016609 ORL/27026672 ORL/0026672 ORL/0026672 ORL/0026672 ORL/0026672 ORL/0026672 ORL/0026672 ORL/0026672 ORL/0026672	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED METAL FILM RESISTOR, FIXED METAL FILM	390 O'HM 1/4 W 5.00% TAS2 100 O'HM 1/4 W 5.00% TAS2 110 O'HM 1/4 W 5.00% TAS2 110 O'HM 1/8 W 5% 2012 RYTP 2K O'HM 1/8 W 5% 2012 RYTP 4.7K O'HM 1/8 W 5% 2012 RYTP 10K O'HM 1/4 W 5.00% TAS2 27K O'HM 1/8 W 5% 2012 RYTP 10K O'HM 1/4 W 5.00% TAS2 27K O'HM 1/8 W 5% 2012 RYTP 10K O'HM 1/4 W 1.00% TAS2 16.2K O'HM 1/4 W 1.00% TAS2	SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	RLI-RL3 R5 R16
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79	ORD39006609 ORDI0006609 ORDI0006609 ORDI0006672 ORL20016672 ORL20016609 ORH22001662 ORL20016672 ORL47016672 ORL47016672 ORL47016609 ORJ00026672 ORJ00026672 ORJ00026672 ORJ00026672 ORJ00026672 ORJ00026672 ORJ00026672 ORJ00026673 ORJ00026673 ORJ00026673 ORJ00026673 ORJ00026673 ORJ00046673	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED METAL FILM	390 O'HM 1/4 W 5.00% TAS2 100 O'HM 1/4 W 5.00% TAS2 110 O'HM 1/4 W 5.00% TAS2 110 O'HM 1/8 W 5% 2012 R/TP 2K O'HM 1/8 W 5% 2012 R	SMART SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	R.IR.I.3 RS RS RIG RIG
61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 79 80 81 82	ORD39006609 ORD10006609 ORD10006672 ORD20016672 ORD20016679 ORD20016609 ORH-2200.622 ORD2001669 ORH-2200672 ORD47016672 ORD47016672 ORD47016609 ORD00026672 ORD00026672 ORD100026672 ORD100026672 ORD100026672 ORD100026672 ORD100026672 ORD100026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10006672 ORD10006672 ORD10006674 OTT0106009AC	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED METAL FILM RESISTOR, FIXED METAL FILM RESISTOR, FIXED METAL FILM RESISTOR, FIXED METAL FILM RESISTOR TRANSISTOR TRANSISTOR TRANSISTOR	390 O'HM 1/4 W 5.00% TAS2 100 O'HM 1/4 W 5.00% TAS2 100 O'HM 1/4 W 5.00% TAS2 100 O'HM 1/8 W 5% 2012 R/TP 2K O'HM 1/8 W 5% 2012 R/TP 4k O'HM 1/8 W 5% 2012 R/TP 4k TK O'HM 1/8 W 5% 2012 R/TP 1k O'HM 1/8 W 5% 2012 R/TP 1ck O'HM 1/8 W 5% 2012 R/TP 1ch O'	SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M SMART SM	RLI-RL3 RS RS RIG RIG
61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 79 80 81 82 83	ORD3900609 ORDI000609 ORDI000609 ORDI0006672 ORL20016672 ORL20016672 ORL2001669 ORH2200.622 ORL2001672 ORL47016672 ORL47016672 ORL47016672 ORL90026672 ORDI0026672 ORL20262472 ORDI0026673 ORL202667470 ORL2026472 ORDI0026673 ORDI006009AC OTRI06009AC OTRI06009AF	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED METAL FILM RESISTOR TRANSISTOR RANSISTOR RANSISTOR	390 CHM   1/4 W   5.00% TAS2     100 CHM   1/4 W   5.00% TAS2     100 CHM   1/4 W   5.00% TAS2     100 CHM   1/8 W   5% 2012 R/TP     2K CHM   1/8 W   5% 2012 R/TP     4.7K CHM   1/8 W   5% 2012 R/TP     10K CHM   1/8 W   1.00% TAS2     10K   1/8 W	SMART SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	R.IR.I.3 RS RS RIG RIG
61 62 63 64 65 65 66 67 70 71 72 73 74 75 76 80 81 81 82 83 84	ORD3900609 ORD1003609 ORD1003609 ORD1003609 ORD1003609 ORD2003609 ORE200.6622 ORE2016672 ORE2016672 ORE3016672 ORE3016600946 OTRI0600946 OTRI0600946 OTRI0600946 OTRI0600946 OTRI0600946 OTRI0600946	RESISTOR, FIXED CARBON FILM RESISTOR, METAL, GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, FIXED METAL, GLAZEDICHIPI RESISTOR, FIXED METAL, GLAZEDICHIPI RESISTOR, FIXED METAL, GLAZEDICHIPI RESISTOR, FIXED METAL, GLAZEDICHIPI RESISTOR, FIXED METAL, FILM  FUSE, DRAWING  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR	390 OHM   1/4 W   5.00% TAS2     100 OHM   1/4 W   5.00% TAS2     100 OHM   1/4 W   5.00% TAS2     100 OHM   1/4 W   5.00% TAS2     12K OHM   1/8 W   5% 2012 R/TP     12K OHM   1/8 W   5% 2012 R/TP     12K OHM   1/8 W   5% 2012 R/TP     1.7K OHM   1/4 W   1.00% TA52     1.7K OHM   1/4 W   1.00% TA52     1.7K OHM   1/8 W   5/ 2012 R/TP     2.7K OHM   1/8 W   5/ 2012 R/TP     3.7K OHM   1/8 W   5/ 2012 R/TP     3.7K OHM   1/8 W   5/ 2012 R/TP     4.7K OHM   1/4 W   1.00% TA52     5.7K OHM   1/4 W   1.00% TA52     6.7K OHM   1/4 W   1.00% TA52     7.7K OHM   1/8 W   1.00% TA52     7.7K OHM   1/8 W   1.00% TA52     8.7K OHM   1/8 W   1.00% TA52     9.7K OHM   1/8 W   1.00% TA52     9.7K OHM   1/8 W   1.00% TA52     1.7K OHM   1/8 W   1/8 W   1.00% TA52     1.7K OHM   1/8 W   1/8 W   1.00% TA52     1.7K OHM   1/8 W   1/8 W   1.00% TA52     1.7K OHM   1/8 W   1/8 W   1/8 W   1/8 W   1/8 W     1.7K OHM   1/8 W   1/8 W   1/8 W   1/8 W   1/8 W     1.7K OHM	SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M SMART SM	RLI-RL3 R5 R6 R16 - R6-R12 R17 - R1
61 62 63 64 65 65 66 67 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85	ORD3900609 ORD1000609 ORD1000609 ORD1000672 ORD20016672 ORD20016679 ORD2001669 ORD2001669 ORD2001669 ORD2001669 ORD2001669 ORD20016672 ORD47016672 ORD47016672 ORD47016609 ORD20026672 ORD100026672 ORD100026672 ORD100026672 ORD100026672 ORD100026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10060906 OTR01600906 OTR0160090AC OTR0160090AC OTR016009AC OTR016009AC	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED METAL FILM RESISTOR, FIXED METAL FILM RESISTOR, FIXED METAL FILM RESISTOR, TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR UZZER SMITCH, TACT JUMP WIRE	390 OHM   1/4 W   5.00% TAS2     100 OHM   1/4 W   5.00% TAS2     100 OHM   1/4 W   5.00% TAS2     100 OHM   1/8 W   5% Z012 R/TP     2K OHM   1/8 W   5% Z012 R/TP     2K OHM   1/8 W   5% Z012 R/TP     2K OHM   1/8 W   5% Z012 R/TP     4.7K OHM   1/8 W   5% Z012 R/TP     10K OHM   1/4 W   5.00% TAS2     27K OHM   1/8 W   5% Z012 R/TP     10H OHM   1/8 W   5% Z012 R/TP     10K OHM   2/8 W   5	SMART SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	R.IR.3 RS RS RIG RIG
61 62 63 64 65 65 66 67 70 71 72 73 74 75 76 80 81 81 82 83 84	ORD3900609 ORDI000609 ORDI000609 ORDI0016672 ORL20016672 ORL20016672 ORL2001669 ORH2200.6622 ORL20016672 ORL47016672 ORL47016672 ORL47016672 ORL47016609 ORL27026672 ORDI0026672 ORDI0026672 ORDI0026672 ORDI0026672 ORDI0026672 ORL27026672 ORL2006672 ORL200672	RESISTOR, FIXED CARBON FILM RESISTOR, METAL, GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, FIXED METAL, GLAZEDICHIPI RESISTOR, FIXED METAL, GLAZEDICHIPI RESISTOR, FIXED METAL, GLAZEDICHIPI RESISTOR, FIXED METAL, GLAZEDICHIPI RESISTOR, FIXED METAL, FILM  FUSE, DRAWING  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR	390 OHM   I/4 W   5.00% TAS2     100 OHM   I/8 W   5% 2012 R/TP     2K OHM   I/8 W   5% 2012 R/TP     2K OHM   I/8 W   5% 2012 R/TP     2,2K OHM   I/8 W   5% 2012 R/TP     4.7K OHM   I/8 W   5% 2012 R/TP     10K OHM   I/8 W	SMART SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	RLI-RL3 R5 R6 R16 - R6-R12 R17 - R1
61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 88	ORD39006609 ORDI0006609 ORDI0006609 ORDI0006672 ORL20016672 ORL20016672 ORL20016609 ORH2200.622 ORL22016672 ORL47016672 ORL47016672 ORL47016672 ORL47016672 ORL47016672 ORL47016672 ORL0026672 ORL0026672 ORL0026672 ORL0026672 ORL0026672 ORL0026672 ORL0026672 ORL0026672 ORL006609 ORL27026672 ORL006609 ORL27026672 ORL006609 ORL27026672 ORL006099 ORL27026672 ORL006099 ORL266099 ORL2660099 ORL266099 ORL26609 ORL	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED METAL FILM RESISTOR, FIXED METAL FILM RESISTOR, FIXED METAL FILM RESISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR UND WIRE UND WIRE UND WIRE UND WIRE UND WIRE	390 OHM 1/4 W 5.00% TAS2     100 OHM 1/8 W 5% 2012 R/TP     2K OHM 1/8 W 5% 2012 R/TP     3K OHM 1/8 W 1/2 00% TAS2     3K OHM 1/8 W 1/2 00% TAS2     4K OHM 1/4 W 1.00% TAS2     5K OHM 1/4 W 1.00% TAS2     6K OHM 1/4 W 1.00% TAS2     7K OHM 1/	SMART SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	RLI-RL3 RS RS RIG
61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87	ORD3900609 ORD1003609 ORD1003609 ORD1003609 ORD1005672 OR.20016672 OR.20016672 OR.27016672 OR.47016672 OR.47016672 OR.47016672 OR.47016672 OR.10025672 ORD10025672	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, FIXED METAL GLAZEDICHIPI RESISTOR, FIXED METAL GLAZEDICHIPI RESISTOR, FIXED METAL FILM THANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR UZER SWITCH, TACT JUMP WIRE JUMP WIRE JUMP WIRE JUMP WIRE JUMP WIRE	390 OHM   I/4 W   5.00% TAS2     100 OHM   I/4 W   5.00% TAS2     100 OHM   I/4 W   5.00% TAS2     100 OHM   I/4 W   5.00% TAS2     2K OHM   I/8 W   5% 2012 R/TP     2K OHM   I/8 W   5% 2012 R/TP     2K OHM   I/8 W   5% 2012 R/TP     2,2K OHM   I/8 W   5% 2012 R/TP     4.7K OHM   I/8 W   5% 2012 R/TP     4.7K OHM   I/8 W   5% 2012 R/TP     4.7K OHM   I/4 W   5.00% TA52     10K OHM   I/8 W   5% 2012 R/TP     4.7K OHM   I/4 W   5.00% TA52     10K OHM   I/8 W   5% 2012 R/TP     10K OHM   I/8 W   5% 201	SMART SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	R.IR.I.3 RS RS RIG
61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 77 78 80 81 82 83 84 85 86 87 88 89 90	ORD3900609 ORD100609 ORD1006672 ORD20016672 ORD20016672 ORD20016699 ORD2001609 ORD2001609 ORD2001609 ORD2001609 ORD2001609 ORD20016672 ORD47016672 ORD47016672 ORD47016609 ORD20026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10026672 ORD10026699 ORD27026699 ORD27026699 ORD2602697 ORD10026672 ORD10026672 ORD10026672 ORD10026699 ORD10026672 ORD10026672 ORD100609AC OTR106009AC	RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, METAL GL	390 OHM I/4 W 5.00% TAS2     100 OHM I/8 W 5% 2012 R/TP     100 OH	SMART SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	R.IR.I.3 RS RS RIG RIG
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 75 76 77 78 80 81 82 83 84 85 87 88 89 90 91	ORD3900609 ORD1000609 ORD1000609 ORD1000609 ORD10016672 ORL20016672 ORL20016672 ORL2001669 ORH2200.622 ORL20016672 ORL47016672 ORL47016672 ORL47016672 ORL47016609 ORL27026672 ORJ0026672 ORJ0046672 ORJ00609AC OTRI06009AC	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED METAL FILM RESISTOR, FIXED METAL FILM RESISTOR, FIXED METAL FILM RESISTOR, FIXED METAL FILM RESISTOR, METAL GLAZEDICHIPI	390 OHM 1/4 W 5.00% TAS2     100 OHM 1/8 W 5% 2012 R/TP     2K OHM 1/8 W 5% 2012 R/TP     3K OHM 1/8 W 1/2 00% TAS2     3K OHM 1/4 W 1.00% TAS2     4K OHM 1/4 W 1.00% TAS2     5A CSOV -	SMART SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	R.IR.J.3 RS RS RIG RIG
61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 88 81 82 83 84 85 86 87 88 89 90 91 92 92	ORD39006609 ORD10006609 ORD10006672 ORD20016672 ORD20016679 ORD20016609 ORD10016609 ORD20016609 ORD20016609 ORD20016609 ORD20016609 ORD20016609 ORD20016672 ORD47016672 ORD47016609 ORD20026672 ORD100226672 ORD100226672 ORD100226672 ORD100226672 ORD100226672 ORD100226672 ORD10026672 ORD1002672	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED METAL FILM  FUSE, DRAWING  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR  TRANSISTOR  UNUP WIRE  JUMP WIRE  J	390 OHM I/4 W 5.00% TAS2 100 OHM I/4 W 5.00% TAS2 100 OHM I/4 W 5.00% TAS2 100 OHM I/4 W 5.00% TAS2 2K OHM I/8 W 5% 2012 R/TP 2.20 OHM I/8 W 5% 2012 R/TP 4.7K OHM I/8 W 5% 2012 R/TP 1.7K OHM I/8 W 5% 201	SMART SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	R.IR.I.3 RS RS RIG RIG
61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 99 90 99	ORD39006609 ORD10006609 ORD10006609 ORD10006672 ORD20016672 ORD20016609 ORD20016609 ORD20016609 ORD20016609 ORD20016609 ORD20016609 ORD20016609 ORD20016672 ORD47016672 ORD47016672 ORD47016672 ORD10026672 ORD10026699 ORD20026699 ORD20026699 ORD20026699 ORD20026699 ORD20026699 ORD10026699 ORD100266999 ORD10026699 ORD10	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZEDICHIPI RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM RESISTOR, FIXED METAL GLAZEDICHIPI RESISTOR, FIXED METAL GLAZEDICHIPI RESISTOR, FIXED METAL FILM RESISTOR RANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR UZZER SWITCH, TACT JUMP WIRE JUMP WIRE JUMP WIRE JUMP WIRE JUMP WIRE JUMP WIRE  JUMP WIRE	390 O'HM I/4 W 5.00% TAS2  100 O'HM I/4 W 5.00% TAS2  100 O'HM I/8 W 5% 2012 R/TP  2K O'HM I/8 W 5% 2012 R/TP  2K O'HM I/8 W 5% 2012 R/TP  2K O'HM I/8 W 5% 2012 R/TP  2R O'HM I/8 W 5% 2012 R/TP  2R O'HM I/8 W 5% 2012 R/TP  4.7K O'HM I/8 W 5% 2012 R/TP  10K O'HM I/8 W 5% 2012 R/TP  2G IK O'HM I/4 W 1.00% TA52  1C O'HM I/4 W 1.00% TA52  1C O'HM I/8 W 5% 2012 R/TP  2G IK O'HM I/4 W 1.00% TA52  1C O'HM I/8 W 5% 2012 R/TP  2G IK O'HM I/4 W 1.00% TA52  1C O'HM I/8 W 5% 2012 R/TP  2G IK O'HM I/8 W 5% 2012 R/TP	SMART SMART SMART SMART SMART RO-M RO-M RO-M RO-M RO-M RO-M RO-M RO-M	R.IR.J.3 RS RS RIG RIG

### 8-5-3 PWB Assembly, Display, And Parts List



Qty	No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	1	6870JB8091A	PWB(PCB)	KS-PJT GOOD/BETTER DISPLAY	DOO SAN	t=1.6
	2					
1	3	6630AQ9159H	WAFER	SMAW250-09	YEON HO	C0N101
	4					
2	5	6600RRT002K	SWITCH,TACT	JTP1230A JEIL 12V DC 50MA	JEIL	SW101,102
		6600JB8005A	1	KPT-1105A	KYUNG IN	
1	6	-	TACT S/W	KPT-1109G	KYUNG IN	SW103
14	7	ODLLE0019AA	LED	LT1824-81-BCM TP GREEN 2		R1~R7,F1~F7
3	8	0DD414809AA	DIDDE,SWITCHING	1N4148 26MM	PYUNG CHANG	D101,102,103
					DELTA	
12	10	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN (10MM)	-	J101~J112
	11					
-	12	9VWF0120000	SOLDER(ROSIN WIRE) RSO	D1.20	HEE SUNG	-
0,01	13	49111004	SOLDER, SOLDERING	H63A	-	_
0.0005	14	59333105	FLUX	SG;0.825-0.830 KDREA F.H-206	KUKI	_

### 8-6 PWB DIAGRAM

### 8-6-1 PWB Main Assembly

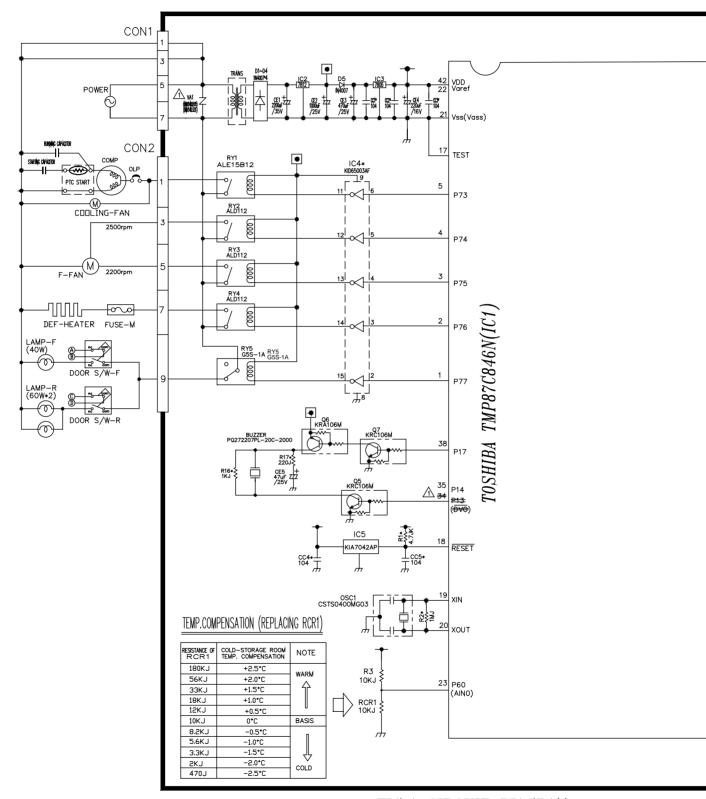
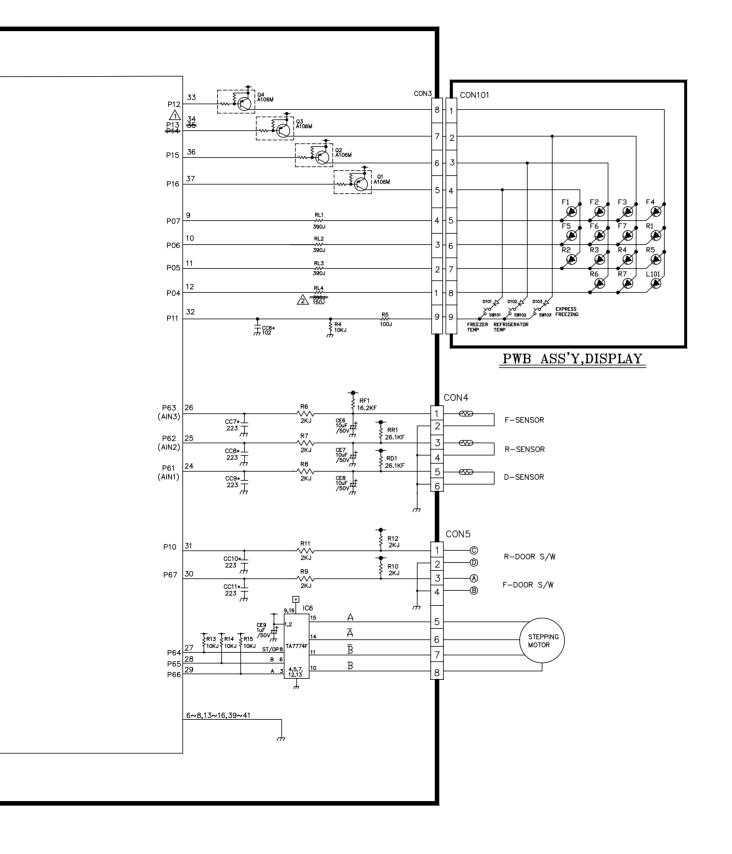


FIG.1 CIRCUIT DIAGRAM





## REPAIR PARTS LIST LISTE DE PIÈCES POUR REPARATION

MODELS No.

65002

The model number of your refrigerator is found on the serial plate inside.

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

When requesting service or ordering parts, always provide the following information:

Product Type

Part Number

Model Number
 Part Description

Toll Free For Parts:

For Service:

1-800-366-PART (1-800-366-7278)

1-800-4-LE-FOYER (1-800-469-4663)

In USA for repair- in your home- of all major brand appliances. lawn and garden equipment, or heating and cooling systems, no matter who made it, no matter who sold it!

In Canada, for repair in your home of all major brand

For Sears professional installation of home of home appliances and items like garage door openers and water heaters

1.800.LE-FOYER (1.800.469.4663)

Call anytime, day or night (U. S. A. And Canada)

www.sears.com

www.sears.ca

**Our Home** 

For repair of carry-in items like vacuums, lawn equiment, and electronics, call or go on-line for the location of your nearest Sears Parts & Repair Center.

1-800-469-4663 Call anytime, day or night (Sears Canada)

www.sears.com

To purchase a protection agreement (U. S. A) or maintenance agreement (Canada) on a product serviced by Sears:

1-800-827-6655 (U. S. A) 1-800-361-6665 (Canada)

Au Canada pour service en français: 1-800-LE-FOYER



N° DF MODÈLF

65002

Le numéro de modèle du réfrigérateur est situé sur la plaque signalétique à l'intérieur.

Toutes les pièces indiquées ici sont disponibles pour achat immédiat ou commande spéciale lorsque vous visitez le centre de Service Sears ou le département de service dans la plupart des magasins Sears. Pour commander une pièce par téléphone, communiquer avec le numéro sans frais indiqué à gauche.

Au moment de demander un service ou commander des pièces toujours fournir l'information suivante:

• Type de produit

• Numéro de pièce

Numéro de modèle

Description

Appel sans frais pour le pièces:

Pour le service:

1.800.366.PART (1.800.366.7278) 1-800-4-LE-FOYER (1-800-469-4663)

À domicile
Pour la réparation -à domicile- des principales marques d'appareils quel que soit le fabricant, quel que soit le vendeur!

Pour le pièces de rechange, accesories et guide du propriétaire nécessaire pour le bricoleur

Pour une installation professionnelle Sears d'appareils domestiques et d'articles tels ouvre-porte de garage et chauffe-eau.

1.800.LE-FOYER MC (1.800.469.4663)

Téléphonez en tout temps, jour et nuit (aux É.-U. Et au Canada)

www.sears.com

www.sears.ca

À l'atelier

Pour la réparation à l'atelier d'articles tels aspirateurs, quipment de jardin et appateils électroniques, téléphonez ou allez en ligne pour obtenir le centre de service Sears le plus près. Centre de service et pièces:

1.800.469.4663

Tèlèphonez en tout temps, jour et nuit (au Canada)

www.sears.ca

Pour acheter un contrat de protection (É.-U.) Ou un contrat d'entretien (Canada) sur un produit dont Sears:effectue le service:

1.800.827.6655 (É-.U.)

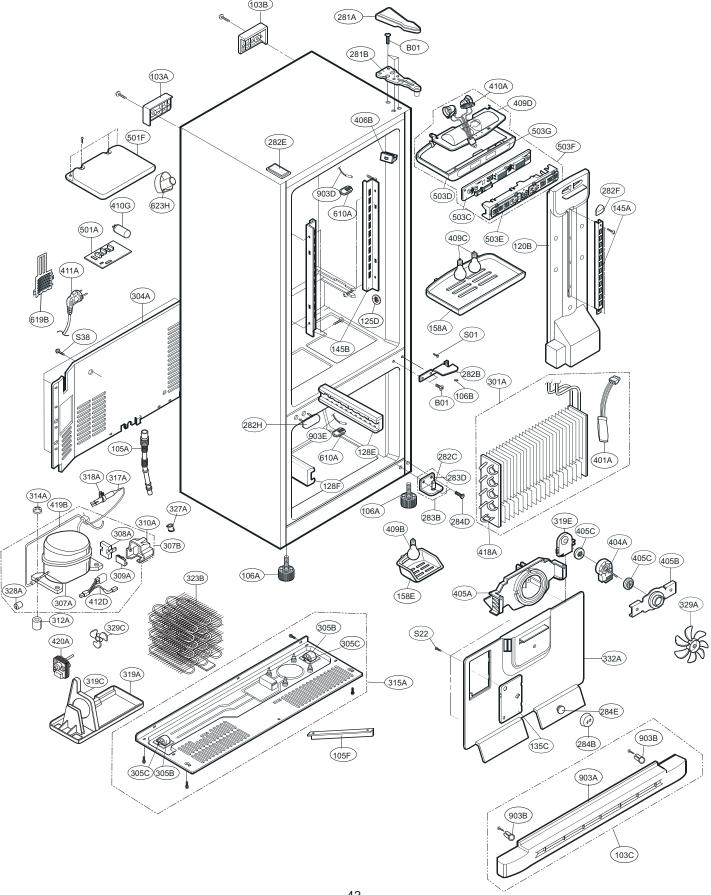
1.800.361.6665 (Canada)

Au Canada pour service en français: 1-800-LE-FOYER ™C (1-800-533-6937) www.sears.ca

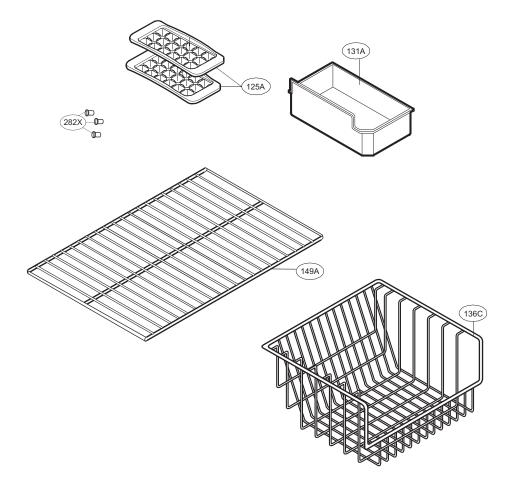


# 9. EXPLODED VIEW

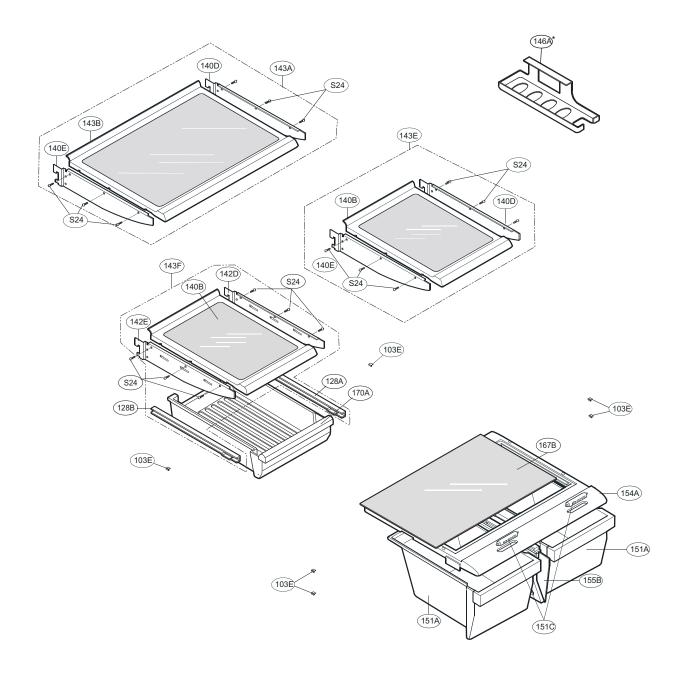
### **CASE PARTS**



### FREEZER PARTS

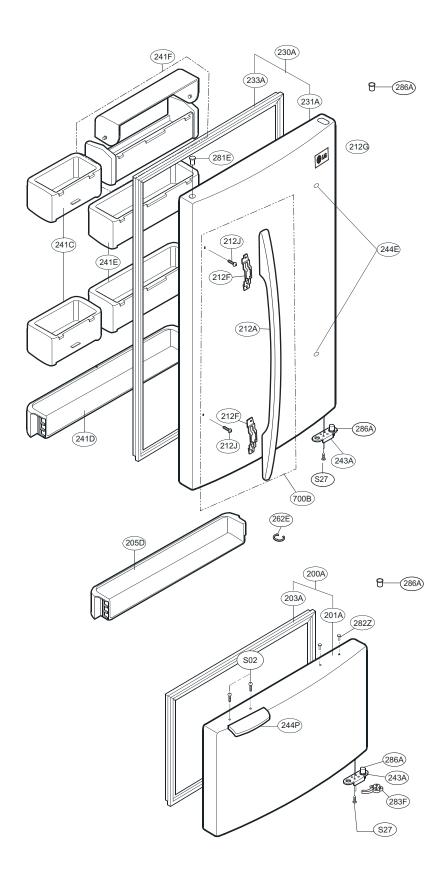


### **REFRIGERATOR PARTS**



<sup>\*:</sup> Apply for models 65012/64014/65019

### **DOOR PARTS**





'You Can Count on me . . . to Work Safely.'