S/M No: FR821NB001

Service Manual

Refrigerator

Model : FR-821NB

Factory Model :
FRP-632N(K)~

✔ Caution

: In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information,please refer to PPL(Parts Price List) in Service Information Center

DAEWOO ELECTRONICS

May, 2007

1. WARNINGS AND PRECAUTIONS FOR SAFETY

Please observe the following safety precautions in order to use safely and correctly the refrigerator and to prevent accident and danger during repair.

1. Be care of an electric shock. Disconnect power cord from wall outlet and wait for more than three minutes before replacing PCB parts.
   Shut off the power whenever replacing and repairing electric components.

2. When connecting power cord, please wait for more than five minutes after power cord was disconnected from the wall outlet.

3. Please check if the power plug is pressed down by the refrigerator against the wall.
   If the power plug was damaged, it may cause fire or electric shock.

4. If the wall outlet is over loaded, it may cause fire.
   Please use its own individual electrical outlet for the refrigerator.

5. Please make sure the outlet is properly earthed, particularly in wet or damp area.

6. Use standard electrical components when replacing them.

7. Make sure the hook is correctly engaged.
   Remove dust and foreign materials from the housing and connecting parts.

8. Do not fray, damage, machine, heavily bend, pull out or twist the power cord.

9. Please check the evidence of moisture intrusion in the electrical components.
   Replace the parts or mask it with insulation tapes if moisture intrusion was confirmed.

10. Do not touch the icemaker with hands or tools to confirm the operation of geared motor.

11. Do not let the customers repair, disassemble and reconstruct the refrigerator for themselves.
    It may cause accident, electric shock, or fire.

12. Do not store flammable materials such as ether, benzene, alcohol, chemicals, gas, or medicine in the refrigerator.

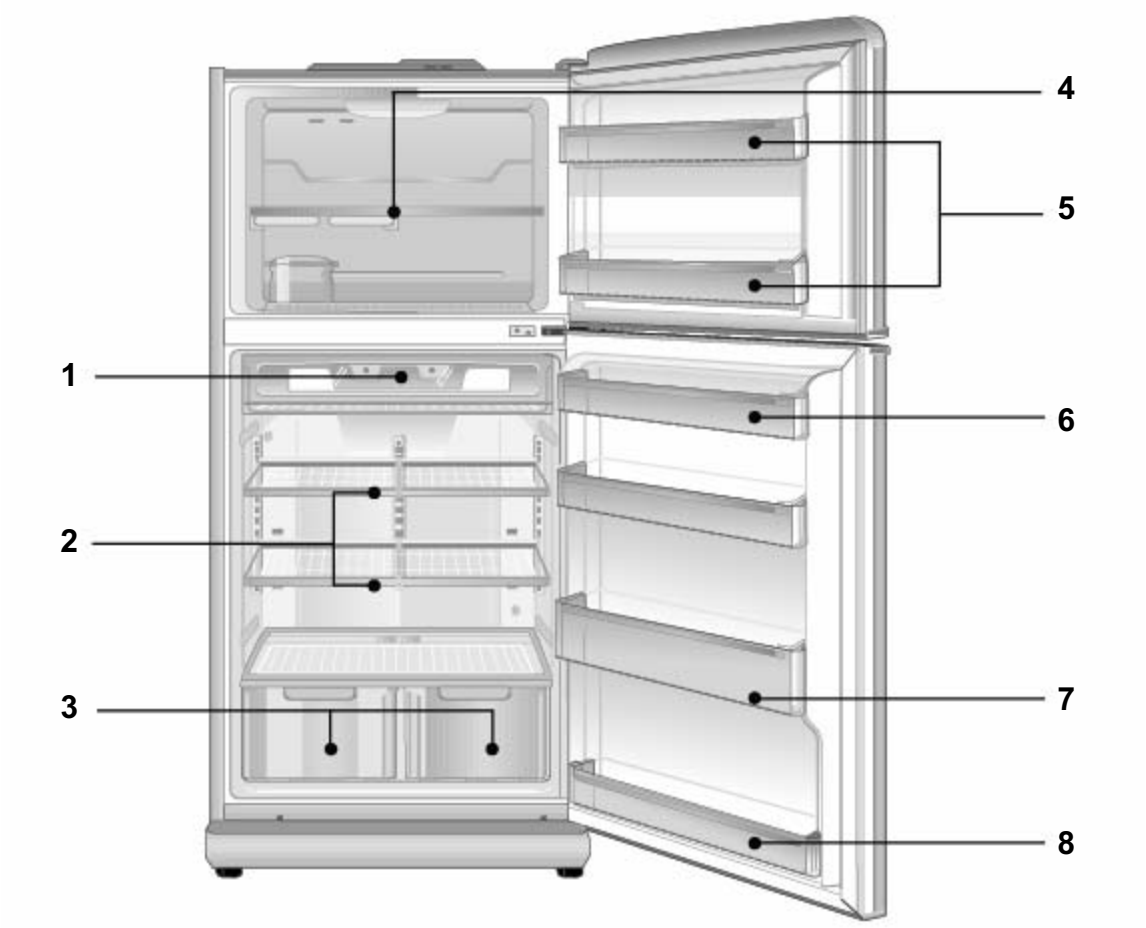
13. Do not put flower vase, cup, cosmetics, chemicals, etc., or container with full of water on the top of the refrigerator.

14. Do not put glass bottles with full of water into the freezer.
    The contents shall freeze and break the glass bottles.

15. When you scrap the refrigerator, please disconnect the door gasket first and scrap it where children are not accessible.

2. EXTERNAL VIEWS

2-1. Name of Each Parts



Interior Parts	Door Parts
1. CHILLED ROOM	5. FREEZER COMPARTMENT POCKETS
2. FRESH FOOD COMPARTMENT SHELF	6. EGG POCKET
3. VEGETABLE / FRUIT DRAWER	7. JUMBO POCKET
4. FREEZER COMPARTMENT SHELF	8. MULTI-PURPOSE POCKET

2-2. Cold Air Circulation

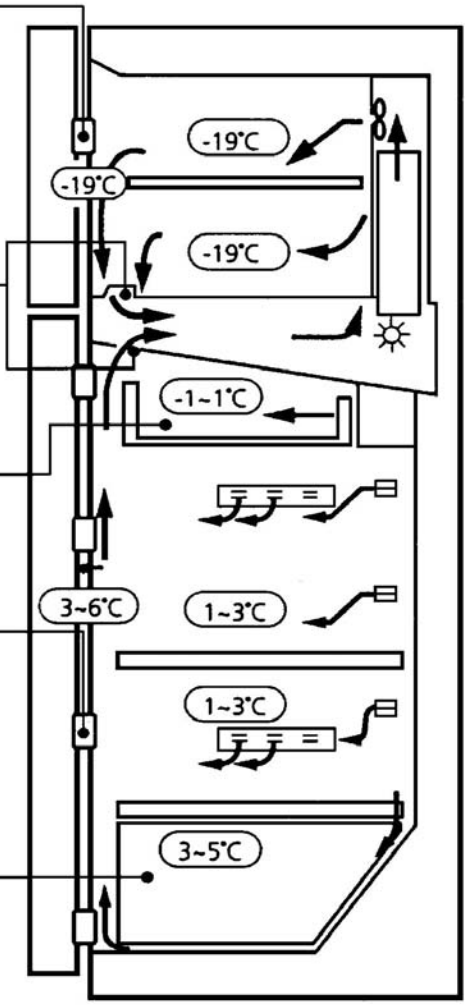
Freezer pocket
Please don't put long term storing items such as ice cream etc.
It might be melted because of opening the door freguently.

Inlet of cooling air
It should not be blocked with food etc. as it is the inlet where cooling air returns.

Refrigerator pocket
It is good for the stor-age of beer and beverage etc.

Refrigerator pocket
It is good for the storage of beer and beverage etc.

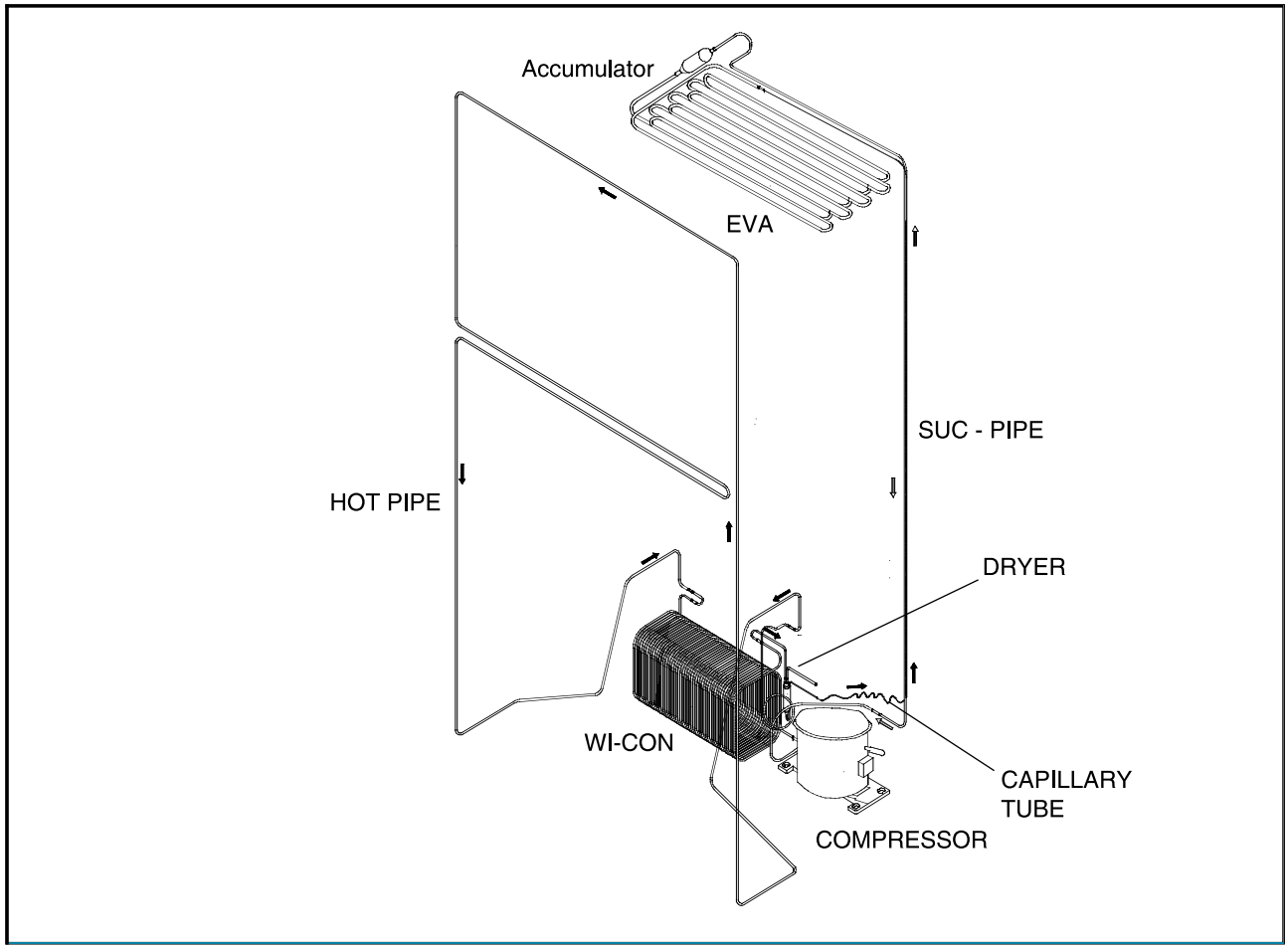
Crisper
It is suitable to store vegetable and fruit. The moisture panel which is attached to the cover maintains the humidity properly.
Vegetable and fruit would be better to be packed with clean wrap foils.

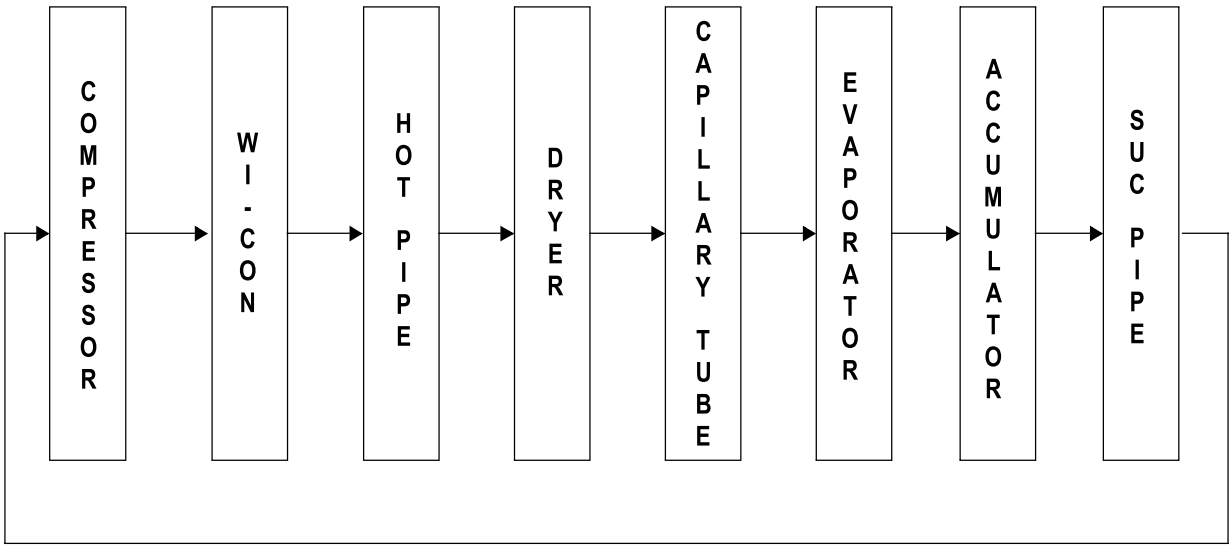


Freezer
Pleas don't put bottles such as beer, beverage etc.
It might be broken because of freez-ing.

Multiple outlet of cooling air.
Please don't put in vegetable etc. which contain moisture. It might be frozen because of low temperature.

2-3. Refrigerant Cycle Diagram

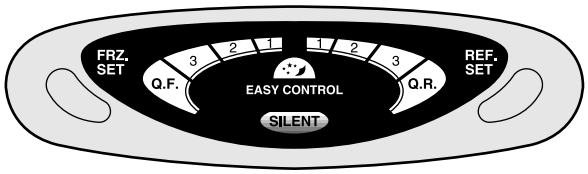
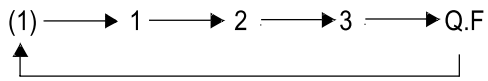
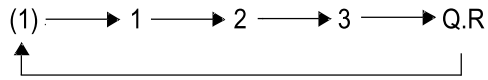


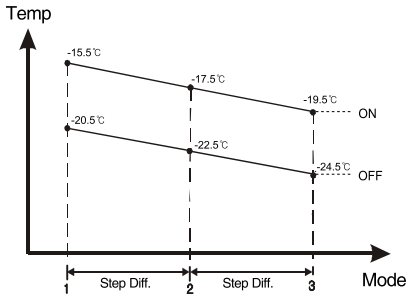
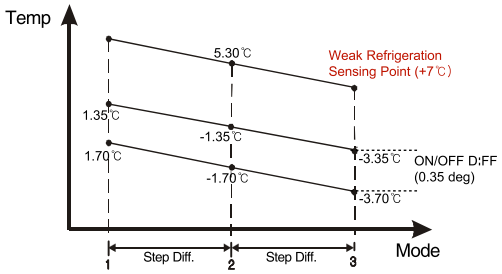


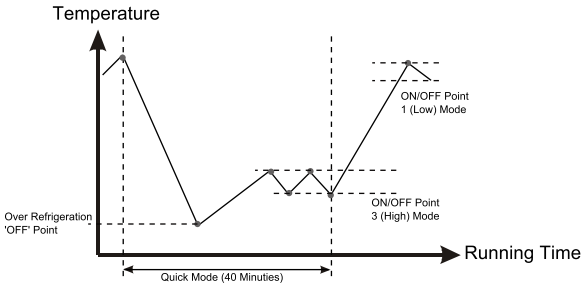
3. SPECIFICATION

Item		Specification
Model Name		FR-821NB (FRP-632~)
Gross Volume	Freezer (L/cuft)	219 / 7.7
	Refrigerator (L/cuft)	601 / 21.3
	Total (L/cuft)	820 / 29.0
Net (KS) Volume	Freezer (L/cuft)	185 / 6.5
	Refrigerator (L/cuft)	449 / 15.9
	Total (L/cuft)	634 / 22.4
External Dimension (W × D × H)		884 x 821 x 1831
Weight		106 kg

OPERATION AND FUNCTION

NO	CONTROL FUNCTION	CONTROL OBJECTS	CONTENTS	REMARK
1	DISPLAY	CUSTOM LED	 1. Normal state 1) SILENT Icon (Amber) is off. 2) Initial State : Both compartments, Icons indicate Middle-mode (“1”, and “2” are lit..) 2. FRZ.SET Button 1) Temperature Regulation of Freezer Compartment 2) Middle-left Icons are lit by pressing the button.  3) When Q.F Mode is set, Freezer Mode’s Icons (middle-left) are on and off 3 times, then only Q.F LED(red) is lit. 3. REF.SET Button 1) Temperature Regulation of Freshfood Compartment. 2) Middle-right Icons are lit by pressing the button.  3) When Q.R Mode is set, Refrigerator Mode’s Icons (middle-right) are on and off 3 times, the only Q.R LED(red) is lit. 4. SILENT Button 1) SILENT Mode starts by presssing the button. - SILENT Icon IS LIT. - All the other LED is off. 2) The mode is finished by pressing the button once again. - The Icon turns off and it returns to previous[normal] state. 3) The mode ends by itself in 130minutes after its start. - The Icon turns off. - All the other LED is off.	

NO	CONTROL FUNCTION	CONTROL OBJECTS	CONTENTS	REMARK
2	Temperature Regulation of Freezer Compartment	1. COMP 2. F-FAN	1. Temperature regulation by FRZ.SET Button. (1) → 1 → 2 → 3 → Q.F 2. COMP and F-Fan are controlled by On/Off point of each mode. 3. Freezer Compartment ON / OFF DIFF : 5℃ (Middle(2)-OFF : -22.5) 4. "3 "/ "1" DIFF : 2℃ 5. Control Point of each Mode  6. COMP and F-FAN are ON during Q.F Mode regardless of F-Sensor. (Approximately 150minutes)	※ Reference **ON/OFF Diff :** Fixed at Micom **STEP Diff :** Fixed at Micom **Comp/C- fan co-working**
3	Temperature Regulation of Refrigerator (Freshfood Compartment)	1. COMP 2. R-FAN	1. emperature regulation by REF.SET Button. (1) → 1 → 2 → 3 → Q.F 2. R-Fan is controlled by On/Off-point of each mode. 3. ON / OFF DIFF : 0.35℃ (Middle("1") Off-point : -1.0℃) 4. "3" / "1" DIFF : 2℃  5. Prevention of Weak-refrigeration 1) When weak-refrigeration is sensed, COMP turns on regardless of F-Sensor. 2) When R-Sensor reaches to R-Fan Off-point, COMP is controlled by F-Sensor and R-FAN turns off. 3) Sensing point of weak-refrigeration ; R-S Off-point of each mode +7℃ 4) Finishing point of weak-refrigeration ; same as R-S Off-point 6. Q.R(Quick Refrigeration) continues for 40minutes.	**ON/OFF, Diff :** Can not be changed **STEP DIFF :** Can not be changed

NO	CONTROL FUNCTION	CONTROL OBJECTS	CONTENTS	REMARK
3	Temperature Regulation of Refrigerator (Freshfood Compartment)	1. COMP 2. R-FAN	* In case Q.R starts during 1(refrigeration) mode  1) R-Fan and COMP continue to be On until the R-Sensor reaches to Off-point(-7℃) of over-refrigeration. 2) It continues to be 3 until Q.R ends after reaching to Off-point of over-refrigeration. 3) It returns to normal[previous] state when Q.R (40 minutes) ends.	
4	SILENT Control	1. COMP 2. R-FAN 3. F-FAM 4. Custom LED	1. SILENT Mode starts by pressing the button. 2. Terms to start SILENT Mode ① F-Sensor ≤ -15℃ ② Restart of SILENT within 40 minutes after the mode ③ F-Sensor error ④ Door Switch error ⑤ In Defrosting Mode (HTR Defrosting, Pause, Fan-delay) ⑥ SILENT starts if conditions ① to ⑤ happen. 3. Once SILENT starts, all the electric devices (COMP, F-Fan, R-Fan) turn Off and only SILENT Icon is lit. 4. Terms to finish SILENT Mode ① F-Sensor ≥ -9℃ ② More than 130 minutes of Limit-time ③ F-Sensor error ④ In case any other button is pressed during SILENT Mode ⑤ Door opened time is more than 30 seconds during the mode. ⑥ If the mode is finished by ① , ② and ③ , F/R-Fan Delay time is set to 5 minutes, and prevention of SILENT Restart time is set to 40 minutes. 5. When the mode is finished all the electric devices and C-LEDs return to normal [previous] state. 6. Pre-cool continues after SILENT Mode. 7. Q.F and Q.R continue after SILENT Mode for the rest time.	

<table>
<tr><th>NO</th><th>CONTROL FUNCTION</th><th>CONTROL OBJECTS</th><th>CONTENTS</th><th>REMARK</th></tr>
<tr><td>5</td><td>Defrosting Period</td><td>1. Defrosting Mode</td><td>1. What to be considered in determining Defrosting Period
1) Total Run-time of COMP : 6, 8, 10, 12, 14 hours
2) Running-rate of COMP (each 2hours running-rate) : more than 80%
3) Total time of Door openings : 10minutes
4) Total Time (COMP-On + COMP-Off) : 60hours
5) Ambient Temperature : more than 35℃
6) In each Error : R1, F1, D1, F3, RT-S, Door-SW Error

2. Terms to start Defrosting Period
1) The Defrosting starts with the following conditions, in case total COMP-run time passes 6, 8, 10 or 12hours
① when an Error occurs
② when running-rate of COMP is more than 80%
③ when total Door-opening time is more than 10minutes
④ when the ambient temperature is more than 35℃
2) Defrosting starts unconditionally when total COMP-run time passes 14 hours, under the condition that terms of 1) are not satisfied.
3) Defrosting starts immediately when Total-time (COMP-On + Off time) is more than 60 hours, under the condition that terms of 1) and/or 2) are not satisfied.</td><td></td></tr>
<tr><td>6</td><td>Defrostiong Mode</td><td>1.COMP
2. F-FAN
3. R-FAN
4. HEATER</td><td>1. Defrosting Period

Pre-cool
1) Time : 50minutes
2) COMP and F-Fan are On, R-fan is in Control, and HTR is off
3) Pre-cool turns off when F-Sensor ≤ -27℃.

Heater Defrostiong
1) Heater turns off when D-Sensor ≥ 10℃.
2) Limit time : 80minutes
3) Heater continues to be On for 40 minutes of limit time when D-Sesor is in error.
4) Limit time
① 30seconds: Heater continues to be On after Defrosting regardless of D-Sensor temperature.
② 40minutes: in case of D1-Error
③ 80minutes: in normal control state

Pause
1) Time : 4minutes
2) COMP, F-Fan and R-Fan are Off.

Fan-delay
1) Time : 5minutes
2) Only COMP is On, while F or R-Fan is Off.

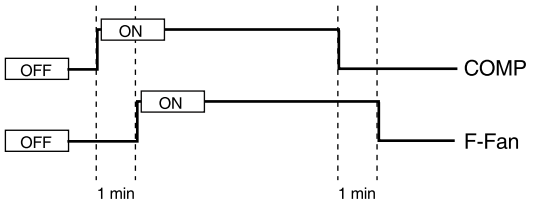
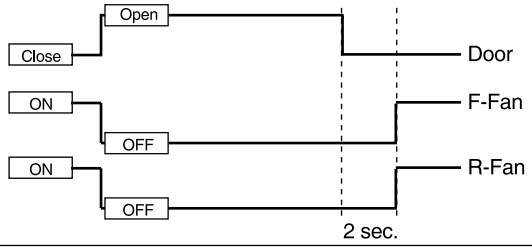
2. Output Control and Limit Time of each Defrosting Mode
<table><tr><th></th><th>Pre-cool</th><th>HTR Defrosting</th><th>Pause</th><th>Fan-delay</th></tr><tr><td>COMP</td><td>ON</td><td>OFF</td><td>OFF</td><td>ON</td></tr><tr><td>F-Fan</td><td>ON</td><td>OFF</td><td>OFF</td><td>OFF</td></tr><tr><td>R-Fan</td><td>Control</td><td>OFF</td><td>OFF</td><td>OFF</td></tr><tr><td>Heater</td><td>OFF</td><td>ON</td><td>OFF</td><td>OFF</td></tr><tr><td>Limit Time</td><td>50 min.</td><td>① 80 min.
② 40 min.
(In D-Sensor error)</td><td>4 min.</td><td>5 min.</td></tr></table></td><td>C-Fan and COMP are co-working.</td></tr>
</table>

<table>
<tr><th>NO</th><th>CONTROL FUNCTION</th><th>CONTROL OBJECTS</th><th>CONTENTS</th><th>REMARK</th></tr>
<tr><td>7</td><td>Error Display (displayed on C-LED of F-PCB)</td><td>1. Custom-LED</td><td>
1. How to start ; open and close refrigerator door 3 times while pressing REF.SET Button and it starts after 3 seconds.
2. Display
① If any error, characters(Bar-LED) of C-LED are lit.
② In Error Display Mode, the Buzzer beeps in short interval - every 0.1second at 5seconds cycle.
3. How to finish : doing above 1 again.
4. It ends by itself 4 minutes after start.
5. All the Error Code is reset by itself when it returns to normal state.
6. Error Code
<table>
<tr><th>Error Code</th><th>C-LED</th><th>CONTENTS</th><th>Running State</th></tr>
<tr><td>F 1</td><td>“1” of Freezer</td><td>F-S disconnection/ short-circuit</td><td>COMP and F-Fan are On for 40min., Off for 20min. at 60min.s period.</td></tr>
<tr><td>r 1</td><td>“2” of Freezer</td><td>R-S disconnection/ short-circuit</td><td>Running by 20min.s period according to RT</td></tr>
<tr><td>d 1</td><td>“Q.F” of Freezer</td><td>D-S disconnection/ short-circuit</td><td>Heater is On for 40 min. during Defrosting.</td></tr>
<tr><td>r t</td><td>“3” of Freezer</td><td>RT-S disconnection/ short-circuit</td><td>Deletion by RT-Sensor</td></tr>
<tr><td>d O0r</td><td>“1” of Ref.</td><td>Defective Door S/W (when S/W senses that door opened more than 1 hour)</td><td>Deletion of sensing Door-S/W</td></tr>
<tr><td>C 1</td><td>“2” of Ref.</td><td>Abnormal Cycle (COMP runs more than 3 hours at D-S ≥ 5℃.)</td><td>Normal Running</td></tr>
<tr><td>F 3</td><td>“3” of Ref.</td><td>In case of Heater Defrosting, when it returns toTime (80min.), not D-Sensor</td><td>Normal Running (Deletion of Pre-cool Mode in Defrosting Mode)</td></tr>
</table>
7. Error Control
1) F1 Error
① Occurrence ; in case of F-Sensor disconnection/short-circuit
② Control ; let COMP and F-Fan On for 40min., Off for 20min.
③ Dissolu ; if F-Sensor is in normal state, it is finished by itself.

2) r1 Error
① Occurrence : in case of R-Sensor disconnection/short-circuit
② Control it in accordance as ambient temperature.
<table>
<tr><th>RT/S</th><th>In Error</th><th>~13℃</th><th>14℃~29℃</th><th>29℃~</th></tr>
<tr><td>Running-Rate (ON/OFF)</td><td>8/12</td><td>7/13</td><td>8/12</td><td>9/11</td></tr>
</table>
③ Dissolution : if R-Sensor is in normal state, it is finished by itself.

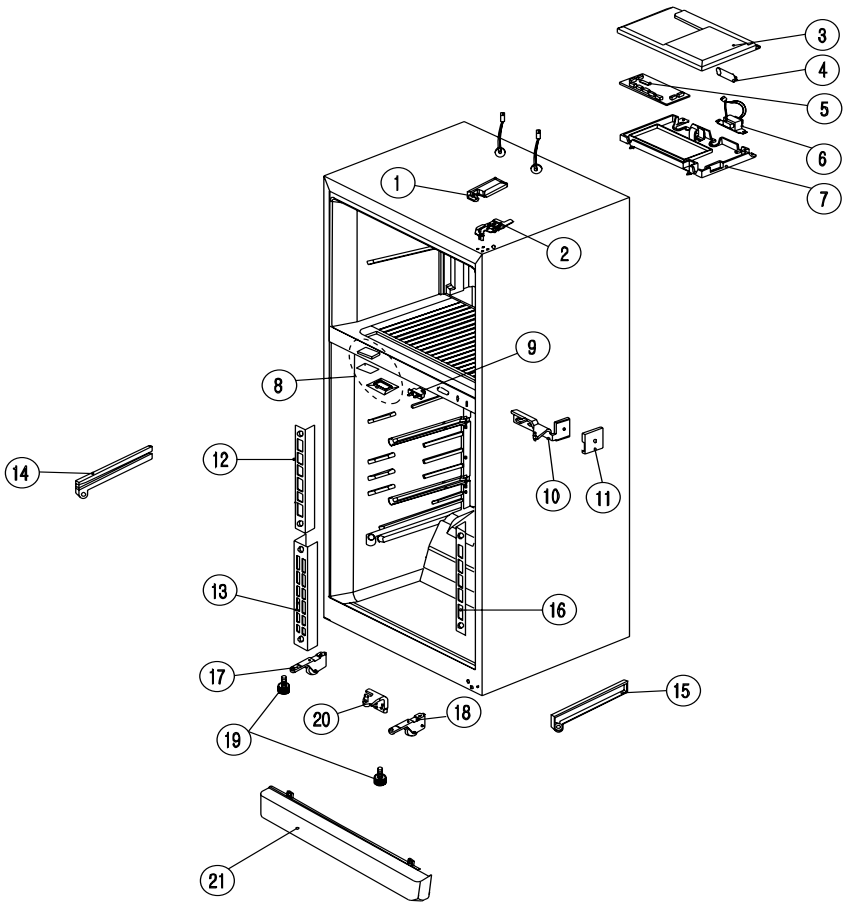
3) rt Error
① Occurrence : RT-Sensor disconnection/short-circuit
② Control : deletion of control-condition by RT-Sensor
③ Dissolution : if RT-Sensor is in normal state, it is finished by itself.
</td><td>Limit-time : 4min.

Check error with-out using jig.</td></tr>
</table>

NO	CONTROL FUNCTION	CONTROL OBJECTS	CONTENTS	REMARK
7	Error Display (displayed on C-LED of F-PCB)		4) d1 Error ① Occurrence : D-Sensor disconnection/short-circuit ② Control : by limit time(40min.) of Defrosting-return ③ Dissolution : if D-Sensor is in normal state, it is finished by itself. 5) door Error ① Occurrence : when door-opening is sensed for more than 1 hour ② Control : deletion of Door SW sensing function ③ Dissolution : if Door SW open-close is sensed, it ends by itself. ④ Display dissolution : after Custom LED Display Mode (Door SW should be in normal state if Error Display Mode is to start.) 6) C1 Error ① Occurrence : when COMP runs continuously for more than 3 hours while D-Sensor is above -5℃ ② Control : normal running ③ Dissolution : when D-Sensor temperature is below -5℃ while Comp is Off 7) F3 Error ① Occurrence : by limit time of 80min. at defrosting-return ② Control : deletion of Pre-cool mode at defrosting mode ③ Dissolution : the end of defrosting is done by D-Sensor	
8	Forced Defrostion	1. Defrosting Mode	※ A/S (Heater) Forced Defrosting 1. Start : press REF.SET Button 5 times while pressing FRZ.SET Button (It is impossible in the state of Energy Consumption Forced Defrosting.) 2. Process 1) Let Heater On for 30seconds. 2) Delete Pre-cool of normal defrosting mode. HTR Defrosting ⟶ Pause ⟶ Fan Delay ⟶ Normal Running 3. Heater turns Off when D-Sensor temperature is more than 10, 30 seconds after Heater On.	
9	Time Delay of Electric Devices	1. F-Fan 2. R-Fan	1. F-Fan Time Delay in COMP On/Off ☞ F-Fan turns On/Off 1 minute after COMP On/Off.  2. F-fan, R-fan will be delayed to open door easily.  	
10	Initial Defrosting	Defrosting Mode	1. Defrosting mode starts when D-Sensor ≤ 3.5℃ at initial power supply. (It starts from Pre-cool.)	COMP delayed for 6min. at initial defrosting

<table>
<tr><th>NO</th><th>CONTROL FUNCTION</th><th>CONTROL OBJECTS</th><th>CONTENTS</th><th>REMARK</th></tr>
<tr><td>11</td><td>Explanation after Delivery</td><td>Electric Devices</td><td>1. Start : press both buttons for 3 seconds after initial power supply (plug-in).
2. Electric devices turn Off for 3 hours.
3. Display works in normal way.</td><td></td></tr>
<tr><td>12</td><td>Prevention of COMP Restart</td><td>COMP</td><td>1. COMP does not restart for 6 minutes after COMP Off, though F-Sensor turns On.</td><td>6min. delay</td></tr>
<tr><td>13</td><td>Buzzer Alarm</td><td>Buzzer</td><td>1. Buzzer rings by pressing F-PCB Buttons.
2. Buzzer rings for 1 second after initial power supply (plug-in).
3. Buzzer rings for 1 second at the start of A/S Forced Defrosting.
4. Buzzer rings every 1 minute after door opening.
(It rings within 5minutes and ring-time is prolonged as time passes.)
5. Buzzer makes short ring every 5 seconds in Error Display.</td><td></td></tr>
<tr><td>14</td><td>Demonstration Function</td><td>Electric Devices</td><td>1. Start : open and close Refrigerator[Freshfood Compartment] Door 5 times while pressing FRZ.SET Button.

2. Control
1) Electric devices turn Off except for F-Fan and R-Fan.
2) Fan Control
<table>
<tr><th></th><th>Door Open</th><th>Door Close</th></tr>
<tr><td>F-FAN</td><td>ON</td><td>OFF</td></tr>
<tr><td>R-FAN</td><td>ON</td><td>OFF</td></tr>
</table>
3. Dissolution :
1) Open and close Refrigerator[Freshfood Compartment] Door 5 times while pressing REF.SET Button in Demonstration mode.
2) Supply the power again(plug-out and plug-in)</td><td></td></tr>
<tr><td>15</td><td>Control of R-Sensor Off-Point</td><td>1. Control Resistance of R-Sensor “2” Off-point</td><td>1. In case of Weak-refrigeration (though R-Fan and COMP work on and on), the following actions are to be done.
2. Resistance R13 : Control Resistance of R-Sensor Middle(“2”) Off-point (- 1.0℃ , 31.4kΩ)
3. Resistance R14 : reduceing R-Sensor Resistance by 1.5℃ in case of weak-Refrigeration (-2.5℃ , 2.15kΩ)
4. SW1 : during A/S, if SW1 is opened, R-Sensor Middle Off-point decreases by 1.5℃.
5. Switch Status and R-Sensor Middle Off-point
<table>
<tr><th>Switch Status</th><th>R-Sensor Middle Off-point</th></tr>
<tr><td>Normal / Using Jig</td><td>-1.0</td></tr>
<tr><td>In Weak-refrigeration</td><td>-2.5</td></tr>
</table></td><td></td></tr>
</table>



NO	PART-CODE	PART NAME	SPEC.	Q'ty
1	**3011429000**	COVER *T HI	PP FRB-5050NT	1
2	**3012905400**	HINGE *T	SCP-1 T2.3 FRB-5050NT	1
3	**3011444901**	COVER M/PCB BOX	PP VO FH21 FRB-4490KB	1
4	**3016401910**	CAPACITOR RUN	400VAC 4UF(WIRE)	1
	3816800400		300V-7MFD	1
	3016401930		400VAC 15UF	1
	3016401170		350VAC 5UF(EUROPEAN)	1
5	**3014388010**	PCB MAIN AS	FR-1 197X122-1.6T N808(N)	1
	3014388020		N808(N),FRP-631(EUROP)	1
	3014388030		N808(N),FRP-631(110V)	1
6	**5EPK057004**	TRANS POWER	220V 60/50HZ 10V	1
	5EPK057860		110V/60HZ 10V	1
7	**3010519210**	BOX M/PCB	PP FRP-480	1
8	**3011101802**	CASE DEO AS	CASE+DEO	1
9	**3018100010**	SWITCH DR	2 BUTTON/4P,DSD-5	1
10	**3012905802**	HINGE *M AS	FRB-5090EB	1
11	**3011424700**	COVER HI *M	ABS FRB-6040NT	1
12	**3014529600**	STOPPER G SHELF SAS	SBHG T1.6	1
13	**3014529701**	STOPPER SHELF *M SAS	SBHG T1.6	1
14	**3012505400**	GUIDE *L AS	FRB-5650NB	1
15	**3012504000**	GUIDE *R AS	FRB-5650NB	1
16	**3014529600**	STOPPER G SHELF SAS	SBHG T1.6	1
17	**3016500720**	CASTER *F *L AS	FRB-5070SB	1
18	**3016500820**	CASTER *F *R AS	FRB-5070SB	1
19	**3012104400**	FOOT ADJ AS	FR-S580CG	2
20	**3012910001**	HINGE *U AS	FRB-59 6360NB/NB6560NA	1
21	**3011420900**	COVER CAB BRKT	PP	1

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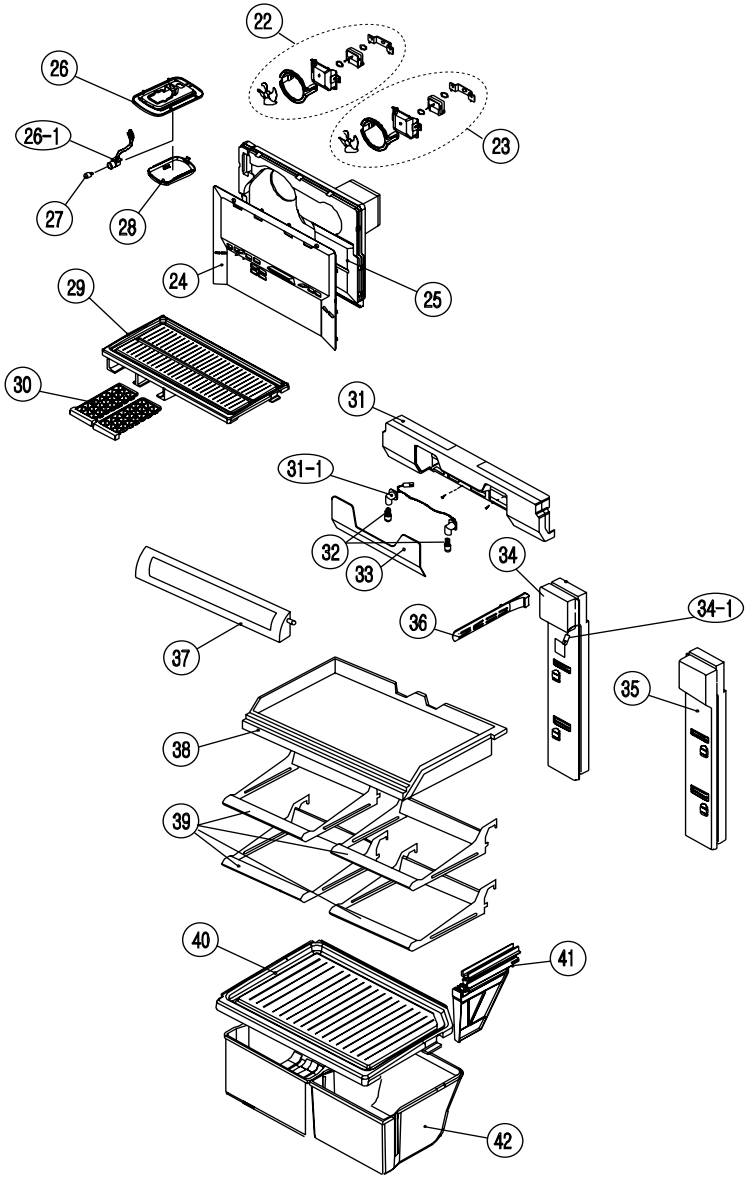

NO	PART-CODE	PART NAME	SPEC.	Q'ty
22	**3015907400**	MOTOR F AS	FRB-5970NB-6370NB	1
23	**3015906700**	MOTOR R FAN	FRB-5970NB/6370NB	1
24	**3018903821**	LOUVER F AS	FRP-631,632,633	1
25	**3013321510**	INSU F LUVR AS	FRB-5960NB/6370NB	1
26	**3012004200**	FIXTURE F LAMP AS	FRB-48/50/5350NT	1
26-1	**3017900842**	SOCKET F LAMP AS	FRB-48/52/56/60/6540	1
27	**3013600020**	LAMP AS	240V/15W (E14,CC7A)	1
	3013600050		120V/15W (110V/60HZ)	1
28	**3015502601**	WINDOW F	MIPS L/BLUE	1
29	**3017820930**	SHELF F AS	FRB-6370NB	1
30	**3011110210**	CASE ICING	PP N-PRINT	2
31	**3016903520**	DUCT CHILD CASE AS	FRB-6540NA	1
31-1	**3017902322**	SOCKET R LAMP AS	FRB-5970NB	1
32	**3013600020**	LAMP AS	240V/15W (E14,CC7A)	2
	3013600050		120V/15W (110V/60HZ)	2
33	**3015500902**	WINDOW R	MIPS (FRB-59/63/65)	1
34	**3018906900**	LOUVER R *S *L AS	FRB-5960NT/NB 6560NA	1
34-1	**3014800911**	SENSOR R1 AS	ABS	1
35	**3018906800**	LOUVER R *S *R AS	FRB-5960NT/NB 6560NA	1
36	**3011441100**	COVER CUBIC DUCT	HIPS	4
37	**3011716802**	DOOR CHILD CASE	GPPS (FRB-6380NB)	1
38	**3011117501**	CASE CHILD	GPPS	1
39	**3010041900**	SHELF GLAS AS	FRB-6530NA	4
40	**3011432702**	COVER V/CASE	GPPS	1
41	**3012503900**	GUIDE *M AS	FRB-5650NB	1
42	**3011114410**	CASE VEGETB AS	FR-B590BA HIPS	2
	3011114430		NANO+NO PRT(FRP-63)	2

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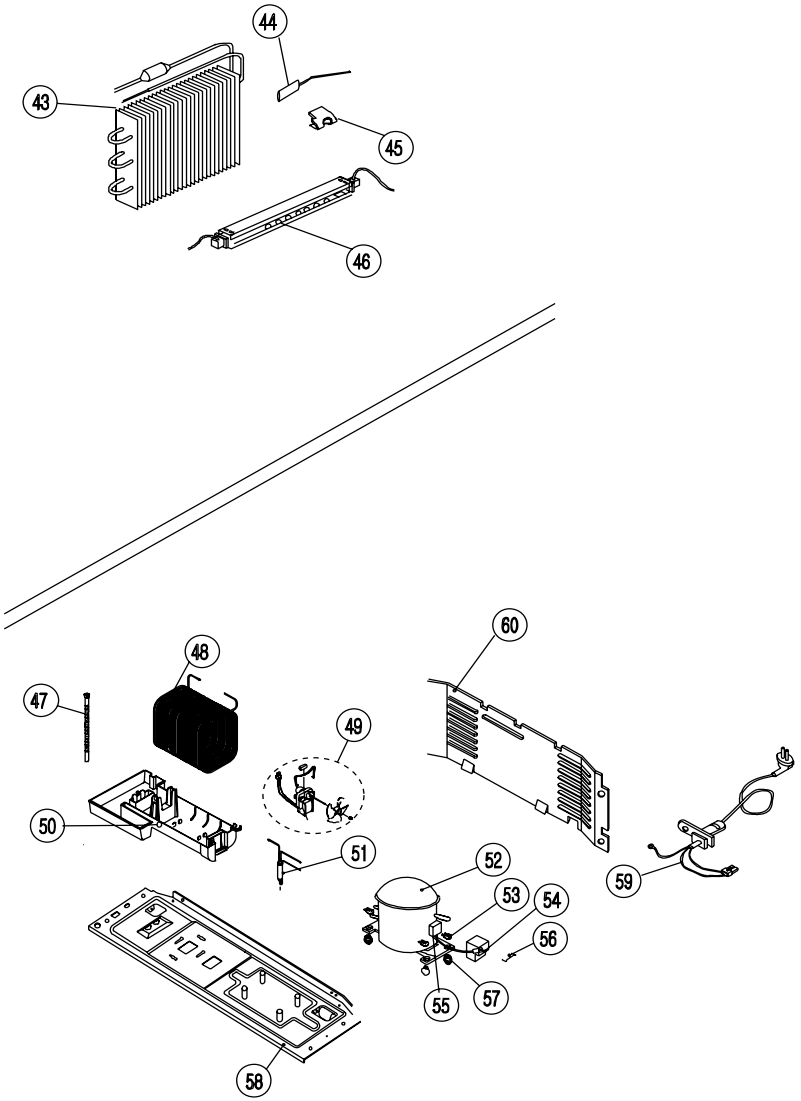

NO	PART-CODE	PART NAME	SPEC.	Q'ty
43	**3010018710**	PRE EVA AS	FRP-632	1
44	**3017200101**	FUSE TEMP AS	SW-103T (77C)	1
45	**4017Z90590**	FIXTURE FUSE TEMP	PP	1
46	**3010040220**	ASSY D HTR	FRB-5980NA 110V/250W	1
	3010040202		FRB-5980NA 220V/250W	1
47	**3013202210**	HOSE DRN AS	PP	1
48	**3014413720**	PIPE WICON AS	0D4.76XT0.7XL28280	1
49	**3015911500**	MOTOR C FAN	BL-2213DWCA-2	1
50	**3011109902**	CASE VAPORI AS	FB-5960NB	1
51	**3016801010**	DRYER AS	FRB-4460NT/4760NT	1
52	**3956126S50**	COMPRESSOR	HPL26YH-5	1
	3952125R30		HBL25YG-3	1
	395S130R50		HPL30YG-5-N	1
	3957127R20		HCL27YG-2	1
	3956127R40		HPL27YG-4-N	1
53	**3016002500**	SPECIAL WASR	SK-5 T0.8	3
54	**3811400503**	COVER RELAY	PP(SW5101SW) 40*54*45*T2.0	1
55	**3018119390**	SWITCH P RELAY AS	4TM783NHB(BK/YW/OR/PK)	1
	3018119980		4TM308NHBYY-52,S330(RSCR)	1
	3018118170		783SHBZZ,S068,SASO	1
	3018119920		4TM197NHBYY-52(3P,S330)	1
	3018118131		419RHB RSCR SASO	1
56	**3012610000**	CLAMP BAND RELAY	SK-5 0.7T	1
57	**3010101600**	ABSORBER COMP	NBR	4
58	**3010317600**	BASE COMP AS	SBHG1-R	1
59	**4006D17104**	CORD POWER AS	KP-30 125V-10A SPT-3	1
	3011301260		RW-125(2)	1
	3011343620		125V 10A,SASO(37)	1
	3011302030		CP-2PIN(2)	1
	3011302820		BS-1363(FRP-650)	1
60	**3012401011**	GRILLE AS	FRP-651 T0.35	1

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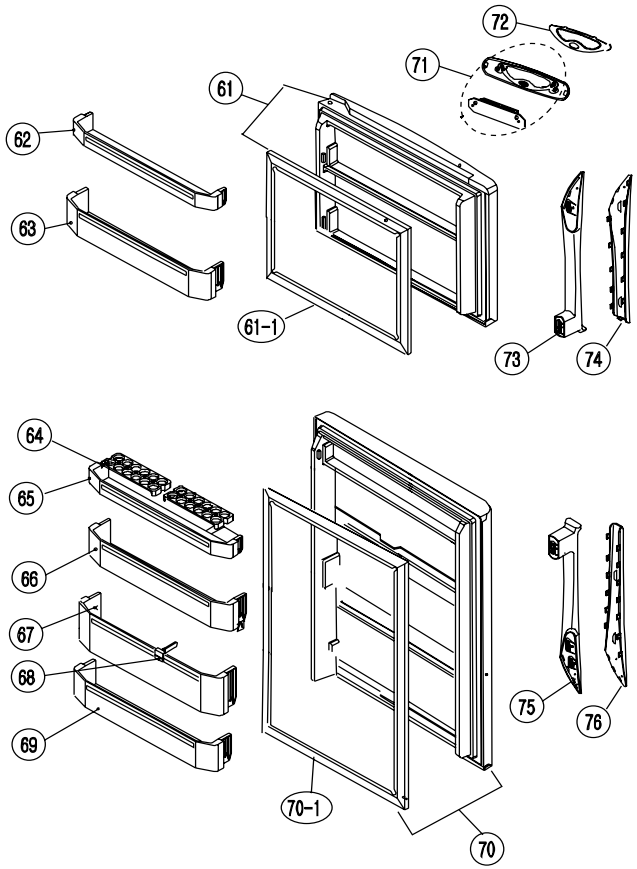

NO	PART-CODE	PART NAME	SPEC.	Q'ty
61	**3000006760**	ASSY F DR	FRP-632(C-PENTANE) EMBO	1
	3000006770		FRP-632(C-PENTANE) VCM	1
61-1	**3012307300**	GASKET F DR AS	PVC-S MANGET	1
62	**3019003600**	POCKET F *T	GPPS	1
63	**3019003610**	POCKET F *U	GPPS	1
64	**3011107401**	CASE EGG	GPPS	2
65	**3019003700**	POCKET EGG	GPPS	1
66	**3019003900**	POCKET MULTI	GPPS	1
67	**3019003010**	POCKET JUMBO	GPPS+NO PRINT	1
68	**3012503701**	GUIDE POKT	GPPS FRB-5980NA	1
69	**3019003900**	POCKET MULTI	GPPS	1
70	**3000006830**	ASSY R DOOR	FRP-632(C-PENTANE) EMBO	1
	3000006840		FRP-632(C-PENTANE) VCM	1
	3000006850		FRP-632(C-PENTANE) EMBO, KEY TYPE	1
	3000006860		FRP-632(C-PENTANE) VCM, KEY TYPE	1
70-1	**3012307400**	GASKET R DR AS	PVC-S MANGET	1
71	**3811400503**	COVER RELAY	PP(SW5101SW) 40*54*45*T2.0	1
72	**3012610000**	CLAMP BAND RELAY	SK-5 0.7T	1
73	**3012622310**	HANDLE F SAS	ABS+AL	1
74	**3011602400**	DECO F HNDL	ABS (NUDE)	1
75	**3012622410**	HANDLE R SAS	ABS+AL	1
76	**3011603000**	DECO R HNDL	ABS (NUDE)	1

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