

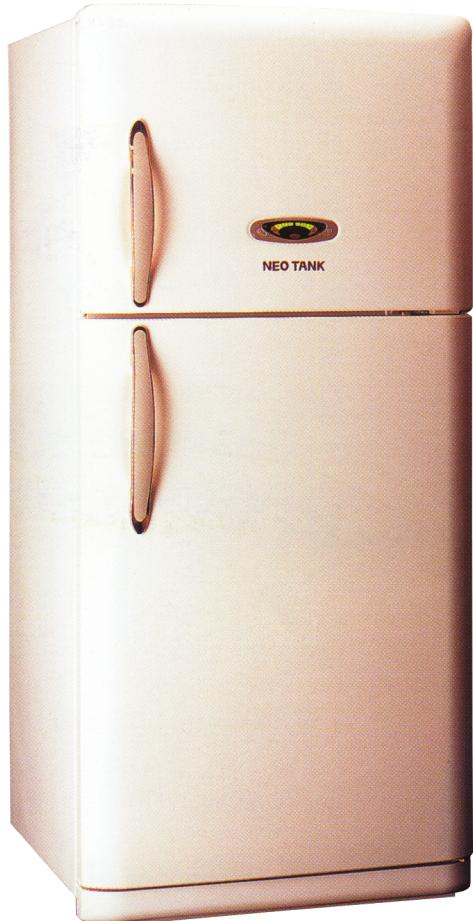
Service Manual

Refrigerator

Model: FR-630NT/NB

FR-662NT/NB

FR-700NT/NB



✓ 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 (<http://svc.dwe.co.kr>).

DAEWOO ELECTRONICS CO., LTD.

<http://svc.dwe.co.kr>

Nov. 1999

SAFETY AND PRECAUTIONS

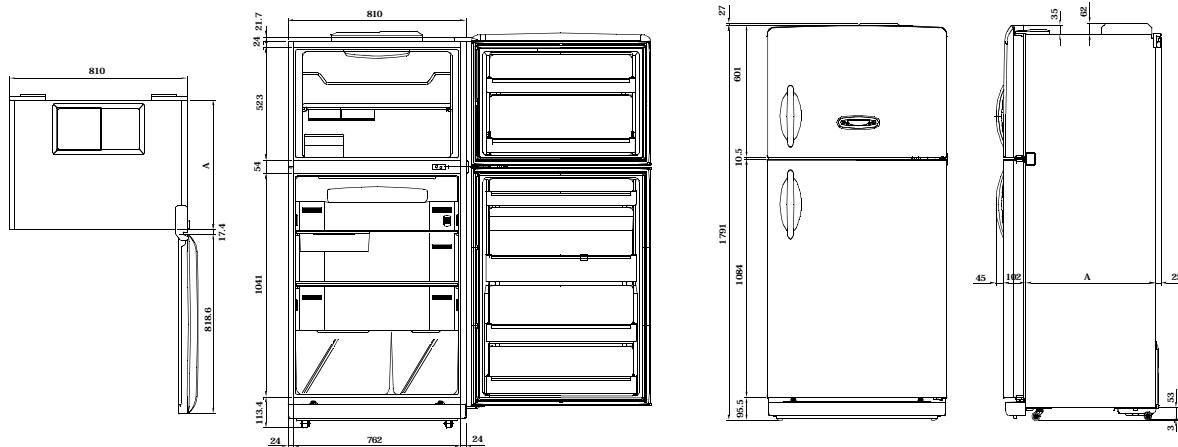
- 1) For starters, be sure to check any chances of the leakage of electricity.
- 2) You could handle a part in the vicinity of electricity after unplugging.
- 3) You should put on rubber gloves to prevent an electric shock on operation test.
- 4) Make sure the rated current, voltage, capacity before using an instrument.
- 5) Keep your wet hands away from the metal goods in the freezer compartment not to be frostbitten.
- 6) Be careful not to let water to permeate the electric part in the machine room.
- 7) With the door open during your repair, you might be hurt by that door.
- 8) You should give a tilt to the refrigerator for your safe after removing the breakable goods inside the refrigerator.
- 9) You'd better use gloves if you fix it up around the evaporator.

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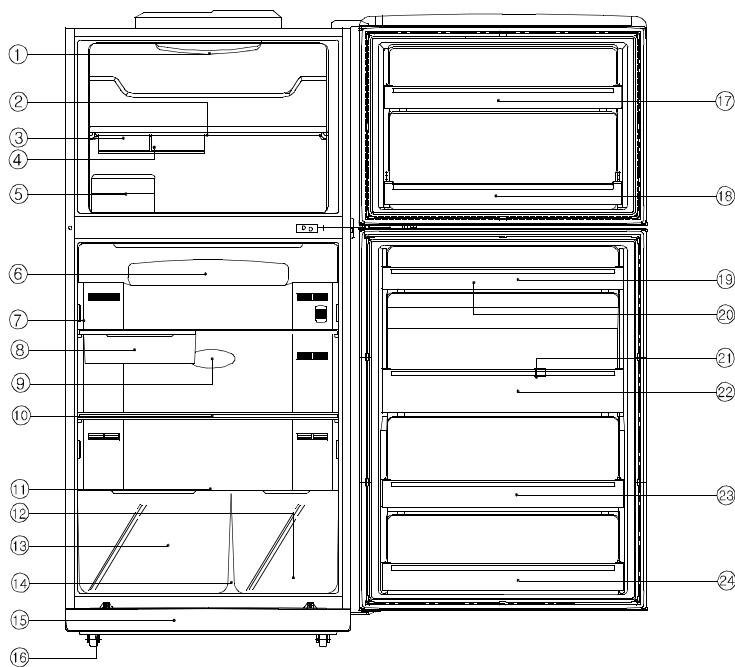
EXTERNAL VIEWS

1. EXTERNAL SIZE



	FR-630NT/NB	FR-662NT/NB	FR-700NT/NB
A	590	620	650

2. NAME OF PARTS



- ① Freezer Compartment Lamp
- ② Shelf Freezer
- ③ Case Icing
- ④ Guide Icing
- ⑤ Ice Box
- ⑥ Refrigerator Compartment Lamp
- ⑦ Cover Cubic Duct
- ⑧ Fresh Case
- ⑨ Shelf Refrigerator
- ⑩ Deodorant
- ⑪ Cover Vegetable
- ⑫ Case Vegetable(B)
- ⑬ Case Vegetable(A)
- ⑭ Guide Vegetable
- ⑮ Front Grille
- ⑯ Adjustable Foot
- ⑰ Freezer Pocket Top
- ⑱ Freezer Pocket Under
- ⑲ Egg Pocket
- ⑳ Egg Tray
- ㉑ Guide Bottle
- ㉒ Bottle Pocket
- ㉓ Multi Pocket
- ㉔ Multi Pocket

SPECIFICATIONS

1. OUTLINE

DIVISION		CONTENTS		
MODEL NAME		FR-630NT/NB	FR-662NT/NB	FR-700NT/NB
USABLE CAPACITY	FREEZER	138 ℥	147 ℥	156 ℥
	REFRIGERATOR	366 ℥	377 ℥	398 ℥
	TOTAL	504 ℥	524 ℥	554 ℥
EXTERIOR DIMENSION	WIDTH	818 mm	818 mm	818 mm
	DEPTH	752 mm	782 mm	812 mm
	HEIGHT	1818 mm	1818 mm	1818 mm
QUANTITY OF REFRIGERANT	R12	170 g		
	R134a	140 g		
COOLING & CONTROL SYSTEM	COOLING SYSTEM	Fan Cooling System		
	DEFROST SYSTEM	Fin Evaporator Forced Defrosting System		
	DEFORST CONTROL	Automatic Start & Stop		
NET WEIGHT		85 kg	92 kg	95 kg

2. ELECTRIC PARTS

1) COMPRESSOR

REFRIGERANT	R12							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 50	240 / 50
COMP MODEL	X	X	X	X	SL28YE-5	PL23YH-4	SL28YE-5	SL28YE-5
PART CODE	X	X	X	X	3954128A50	3956125G40	3954128A50	3954128A50
STARTING TYPE	X	X	X	X	RSIR	RSCR	RSIR	RSIR

REFRIGERANT	R134a							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 50	240 / 50
COMP MODEL	X	HBL25YG-3	X	HEL21YH-1	HPL26YH-5	X	HPL26YH-5	HPL26YH-5
PART CODE	X	3952125R30	X	3953121S10	3956126S50	X	3956126S50	3956126S50
STARTING TYPE	X	CSR	X	RSCR	RSCR	X	RSCR	RSCR

SPECIFICATIONS

2) RELAY

REFRIGERANT		R12							
VOLTAGE (V/Hz)		100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
ASSY	TYPE NAME	X	X	X	X	276THBYY-52	181SHBYY-52	276THBYY-52	←
	PART CODE	X	X	X	X	3018119940	3018116610	3018119940	←
PTC	RESIS-TANCE	X	X	X	X	S220	S330	S220	←
	PART CODE	X	X	X	X				
OVER LOAD	PART CODE	X	X	X	X	276THB	181SHB	276THB	←

REFRIGERANT		R134a							
VOLTAGE (V/Hz)		100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
ASSY	TYPE NAME	X	783NHBZZ-52	X	317NHBYYF52	197NHBYY-52	X	197NHBYY-52	197NHBYY-52
	PART CODE	X	3018119390	X	3018119950	3018119920	X	3018119920	3018119920
PTC	RESIS-TANCE	X	S220	X	S068	S330	X	S330	S330
	PART CODE	X		X	X		X		
OVER LOAD	PART CODE	X	783NHB	X	317NHB	197NHB	X	197NHB	197NHB

3) STARTING CAPACITOR

REFRIGERANT		R12							
VOLTAGE (V/Hz)		100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
PART CODE		X	X	X	X	X	X	X	X
RATED VOLTAGE		X	X	X	X	X	X	X	X
RATED CAPACITANCE		X	X	X	X	X	X	X	X

REFRIGERANT		R134a							
VOLTAGE (V/Hz)		100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
PART CODE		X	3016400100	X	X	X	X	X	X
RATED VOLTAGE		X	200V	X	X	X	X	X	X
RATED CAPACITANCE		X	100 μ F	X	X	X	X	X	X

SPECIFICATIONS

4) RUNNING CAPACITOR

REFRIGERANT	R12							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
PART CODE	X	X	X	X	X	400EL15110	X	X
RATED VOLTAGE	X	X	X	X	X	350V	X	X
RATED CAPACITANCE	X	X	X	X	X	5 µF	X	X

REFRIGERANT	R134a							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
PART CODE	X	3816800400	X	400EL15130	3016401900	X	3016401900	3016401900
RATED VOLTAGE	X	300V	X	230V	400V	X	400V	400V
RATED CAPACITANCE	X	7 µF	X	10	4 µF	X	4 µF	4 µF

5) F-FAN MOTOR

REFRIGERANT	R12, R134a							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	20 / 60	230 / 60	240 / 50
TYPE NAME	DL-2213DWFA							
PART CODE	3015905300	3015905300	3015905300	3015905300	3015905300	3015905300	3015905300	3015905300
REVOLUTION	2200RPM							

6) R-FAN MOTOR

REFRIGERANT	R12,R134a							
VOLTAGE (V/Hz)	100 /50,60"	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
TYPE NAME	DL-2213DWRA							
PART CODE	3015906900	3015906900	3015906900	3015906900	3015906900	3015906900	3015906900	3015906900
REVOLUTION	2200RPM							

7) C-FAN MOTOR

REFRIGERANT	R12,R134a							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
TYPE NAME	DL-2213DWCA							
PART CODE	3015906800	3015906800	3015906800	3015906800	3015906800	3015906800	3015906800	3015906800
REVOLUTION	2200RPM							

SPECIFICATIONS

8) DEFROST HEATER

REFRIGERANT	R12,R134a							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
SPEC (W)	X	180W						
PART CODE	X	3012803210	3012803210	3012803210	3012803200	3012803200	3012803200	3012803200

9) LAMP ASSEMBLY

REFRIGERANT	R12,R134a							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
SPEC (W)	15W							
PART CODE	3013600010	3013600010	3013600010	3013600010	3013600080	3013600080	3013600080	3016800080

10) PCB TRANSFORMER

REFRIGERANT	R12,R134a							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
TYPE NAME	X	FRB-5070NT						
PART CODE	X	5EPK057860	5EPK057860	5EPK057008	5EPK057004	5EPK057004	5EPK057004	5EPK057004

11) MAIN PCB ASSEMBLY

REFRIGERANT	R12,R134a							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
TYPE NAME	X	N808						
PART CODE	X	3014384030	3014384030	3014384030	3014384010	3014384010	3014384020	3014384010

12) DRYER

REFRIGERANT	R12	R134a
SPEC (g)	10g	15g
PART CODE	3016805300	3016801020

13) FUSE (PCB)

REFRIGERANT	R12,R134a							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
RATED CURRENT	X	250V/1.6A	←	←	←	←	←	←
PART CODE	X	5F3GB1682R	←	←	←	←	←	←

14) THERMO FUSE

REFRIGERANT	R12,R134a							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
OPERATING TEMPERATURE	X	77 °C	←	←	←	←	←	←
PART CODE	X	3017200500	←	←	←	←	←	←

15) DOOR S/W

REFRIGERANT	R12,R134a							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
PART CODE	X	3018100010	←	←	←	←	←	←

16) F-SENSOR

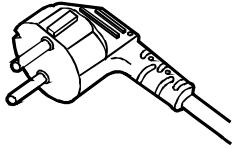
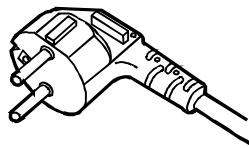
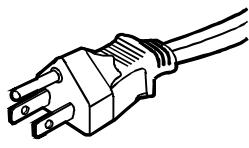
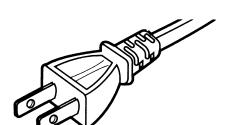
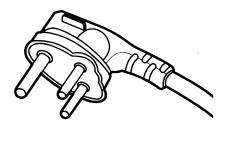
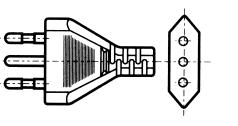
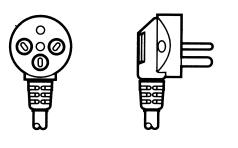
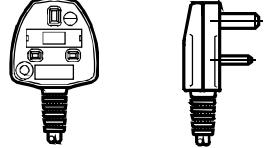
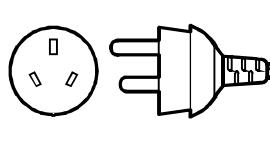
REFRIGERANT	R12,R134a							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
PART CODE	X	3014801501	←	←	←	←	←	←

17) R-SENSOR

REFRIGERANT	R12,R134							
VOLTAGE (V/Hz)	100 /50,60	110 / 60	115,120/60	127/60	220/50	220 / 60	230 / 60	240 / 50
PART CODE	X	3014801601	←	←	←	←	←	←

SPECIFICATIONS

3. POWER CORD

NO	SHAPE OF POWER CORD	PART CODE	DESCRIPTION	REMARK
1		3011315000	CP-2PIN	For european country
2		401RA17200	CP-2PIN	For other country
3		4006D17101	KP-30	For America & El Salvador
4		401PD17101	KP-211	For Japan & Taiwan
5		3011300801	BP-3PIN	
6		3011303010	# 267	For Chile
7		3011315310		For Israel
8		3011303050	BS-1363A	For U.K, Middle Asia Singapore & Malaysia
9		3011301200	KP-551/550	For China & Australia

*Upper power cord's part code is only for lead wire, without any kinds of terminal or housing

SPECIFICATIONS

4. DOOR COLOR

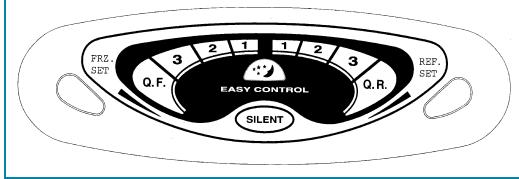
1) ASSEMBLY URETHAN FREEZER DOOR

Refrigerant	R12				R134a			
COLORTYPE	Dull laminasheet	High-glossy Laminasheet	Normal PCM	High-glossy Bright PCM	Dull laminasheet	High-glossy Laminasheet	Normal PCM	High-glossy Bright PCM
PARTCODE	X	3010081960	X	X	X	3010077430	X	X

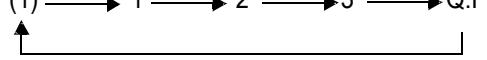
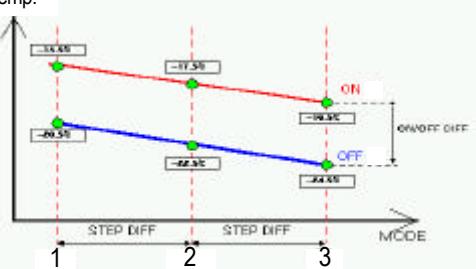
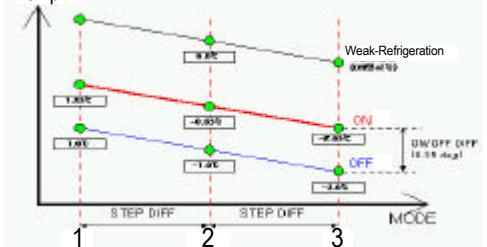
2) ASSEMBLY URETHAN REFRIGERATOR DOOR

Refrigerant	R12				R134a			
COLORTYPE	Dull laminasheet	High-glossy Laminasheet	Normal PCM	High-glossy Bright PCM	Dull laminasheet	High-glossy Laminasheet	Normal PCM	High-glossy Bright PCM
PARTCODE	X	3010077740	X	X	X	3010077770	X	X

OPERATION AND FUNCTIONS

NO	CONTROL FUNCTION	CONTROL OBJECTS	CONTENTS	REMARK
1	DISPLAY	CUSTOM LED	<p>1. Normal state</p>  <p>1) SILENT Icon (Amber) is off. 2) Initial State : Both compartment's icons indicate Middle-mode ("1", and "2" are lit..)</p> <p>2. FRZ.SET Button</p> <p>1) Temperature Regulation of Freezer Compartment 2) Middle-left Icons are lit by pressing the button.</p> <pre>(1) → 1 → 2 → 3 → Q.F ↑ []</pre> <p>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.</p> <p>3. REF.SET Button</p> <p>1) Temperature Regulation of Freshfood Compartment. 2) Middle-right Icons are lit by pressing the button.</p> <pre>(1) → 1 → 2 → 3 → Q.R ↑ []</pre> <p>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.</p> <p>4. SILENT Button</p> <p>1) SILENT Mode starts by presssing the button. - SILENT Icon is LIT. - All the other LED is off.</p> <p>2) The mode is finished by pressing the button once again. - The Icon turns off and it returns to previous[normal] state.</p> <p>3) The mode ends by itself in 130minutes after its start. - The Icon turns off. - All the other LED is off.</p>	

OPERATION AND FUNCTIONS

NO	CONTROL FUNCTION	CONTROL OBJECTS	CONTENTS	REMARK
2	Temperature Regulation of Freezer Compartment	1. COMP 2. F-FAN	<p>1. Temperature regulation by FRZ.SET Button.</p> <p>(1) → 1 → 2 → 3 → Q.F</p>  <p>2. COMP and F-Fan are controlled by On/Off point of each mode.</p> <p>3. Freezer Compartment ON / OFF DIFF : 5°C (Middle(2)-OFF : -22.5)</p> <p>4. "3" / "1" DIFF : 2°C</p> <p>5. Control Point of each Mode</p> <p>Temp.</p>  <p>6. COMP and F-FAN are ON during Q.F Mode regardless of F-Sensor. (Approximately 150minutes)</p>	<p>► Reference</p> <p>ON/OFF Diff : Fixed by Micom</p> <p>STEP Diff : Fixed by Micom</p> <p>Comp&C-Fan are Coworking</p>
3	Temperature Regulation of Refrigerator (Freshfood Compartment)	1. COMP 2. R-FAN	<p>1. Temperature regulation by REF.SET Button.</p> <p>(1) → 1 → 2 → 3 → Q.F</p>  <p>2. R-Fan is controlled by On/Off-point of each mode.</p> <p>3. ON / OFF DIFF : 0.35°C (Middle("1") Off-point : -1.0°C)</p> <p>4. "3" / "1" DIFF : 2°C</p> <p>Temp.</p>  <p>5. Prevention of Weak-refrigeration</p> <ol style="list-style-type: none"> When weak-refrigeration is sensed, COMP turns on regardless of F-Sensor. When R-Sensor reaches to R-Fan Off-point, COMP is controlled by F-Sensor and R-FAN turns off. Sensing point of weak-refrigeration ; R-S Off-point of each mode +7°C Finishing point of weak-refrigeration ; same as R-S Off-point <p>6. Q.R(Quick Refrigeration) continues for 40minutes.</p>	<p>ON/OFF Diff : Can not be changed</p> <p>STEP DIFF : Can not be changed</p>

OPERATION AND FUNCTIONS

NO	CONTROL FUNCTION	CONTROL OBJECTS	CONTENTS	REMARK
3	Temperature Regulation of Refrigerator (Freshfood Compartment)	1. COMP 2. R-FAN	<p>* In case Q.R starts during 1(refrigeration) mode</p> <p>1) R-Fan and COMP continue to be On until the R-Sensor reaches to Off-point(-7 °C) 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.</p>	
4	SILENT Control	1. COMP 2. R-FAN 3. F-FAM 4. Custom LED	<p>1. SILENT Mode starts by pressing the button.</p> <p>2. Terms to start SILENT Mode</p> <ul style="list-style-type: none"> ① F-Sensor ≤ 15 °C 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. <p>3. Once SILENT starts, all the electric devices (COMP, F-Fan, R-Fan) turn Off and only SILENT Icon is lit.</p> <p>4. Terms to finish SILENT Mode</p> <ul style="list-style-type: none"> ① F-Sensor ≥ -9 °C 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. <p>5. When the mode is finished all the electric devices and C-LEDs return to normal [previous] state.</p> <p>6. Pre-cool continues after SILENT Mode.</p> <p>7. Q.F and Q.R continue after SILENT Mode for the rest time.</p>	

OPERATION AND FUNCTIONS

NO	CONTROL FUNCTION	CONTROL OBJECTS	CONTENTS	REMARK																													
5	Defrosting Period	1. Defrosting Mode	<p>1. What to be considered in determining Defrosting Period</p> <ol style="list-style-type: none"> 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°C 6) In each Error : R1, F1, D1, F3, RT-S, Door-SW Error <p>2. Terms to start Defrosting Period</p> <ol style="list-style-type: none"> 1) The Defrosting starts with the following conditions, in case total COMP-run time passes 6, 8, 10 or 12hours <ul style="list-style-type: none"> ç when an Error occurs é when running-rate of COMP is more than 80% é when total Door-opening time is more than 10minutes é when the ambient temperature is more than 35°C 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. 																														
6	Defrosting Mode	1.COMP 2. F-FAN 3. R-FAN 4. HEATER	<p>1. Defrosting Period</p> <pre> graph TD A[Pre-cool] --> B[Heater Defrosting] B --> C[Pause] C --> D[Fan-delay] </pre> <p>Pre-cool</p> <p>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 °C.</p> <p>Heater Defrosting</p> <p>1) Heater turns off when D-Sensor ≥ 10 °C. 2) Limit time : 80minutes 3) Heater continues to be On for 40 minutes of limit time when D-Sensor is in error. 4) Limit time <ul style="list-style-type: none"> 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 </p> <p>Pause</p> <p>1) Time : 4minutes 2) COMP, F-Fan and R-Fan are Off.</p> <p>Fan-delay</p> <p>1) Time : 5minutes 2) Only COMP is On, while F or R-Fan is Off.</p> <p>2. Output Control and Limit Time of each Defrosting Mode</p> <table border="1"> <thead> <tr> <th></th> <th>Pre-cool</th> <th>HTR Defrosting</th> <th>Pause</th> <th>Fan-delay</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>C-Fan and COMP are co-working.</p>		Pre-cool	HTR Defrosting	Pause	Fan-delay	COMP	ON	OFF	OFF	ON	F-Fan	ON	OFF	OFF	OFF	R-Fan	Control	OFF	OFF	OFF	Heater	OFF	ON	OFF	OFF	Limit Time	50 min.	① 80 min. ② 40 min. (In D-Sensor error)	4 min.	5 min.
	Pre-cool	HTR Defrosting	Pause	Fan-delay																													
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OPERATION AND FUNCTIONS

NO	CONTROL FUNCTION	CONTROL OBJECTS	CONTENTS		REMARK																																										
7	Error Display (displayed on C-LED of F-PCB)	1. Custom-LED	<p>1. How to start ; open and close refrigerator door 3 times while pressing REF.SET Button and it starts after 3 seconds.</p> <p>2. Display</p> <ul style="list-style-type: none"> 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. <p>3. How to finish : doing above 1 again.</p> <p>4. It ends by itself 4 minutes after start.</p> <p>5. All the Error Code is reset by itself when it returns to normal state.</p> <p>6. Error Code</p> <table border="1"> <thead> <tr> <th>Error Code</th> <th>C-LED</th> <th>CONTENTS</th> <th>Running State</th> </tr> </thead> <tbody> <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 OOr</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°C.)</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 to Time (80min.), not D-Sensor</td> <td>Normal Running (Deletion of Pre-cool Mode in Defrosting Mode)</td> </tr> </tbody> </table> <p>7. Error Control</p> <p>1) F1 Error</p> <p>Occurrence ; in case of F-Sensor disconnection/short-circuit Control ; let COMP and F-Fan On for 40min., Off for 20min. Dissolution ; if F-Sensor is in normal state, it is finished by itself.</p> <p>2) r1 Error</p> <ul style="list-style-type: none"> ① Occurrence : in case of R-Sensor disconnection/short-circuit ② Control it in accordance as ambient temperature. <table border="1"> <thead> <tr> <th>RT/S</th> <th>In Error</th> <th>~13°C</th> <th>14°C~29°C</th> <th>29°C~</th> </tr> </thead> <tbody> <tr> <td>Running-Rate (ON/OFF)</td> <td>8/12</td> <td>7/13</td> <td>8/12</td> <td>9/11</td> </tr> </tbody> </table> <ul style="list-style-type: none"> ③ Dissolution : if R-Sensor is in normal state, it is finished by itself. <p>3) rt Error</p> <ul style="list-style-type: none"> 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. 	Error Code	C-LED	CONTENTS	Running State	F 1	"1" of Freezer	F-S disconnection/ short-circuit	COMP and F-Fan are On for 40min., Off for 20min. at 60min.s period.	r 1	"2" of Freezer	R-S disconnection/ short-circuit	Running by 20min.s period according to RT	d 1	"Q.F" of Freezer	D-S disconnection/ short-circuit	Heater is On for 40 min. during Defrosting.	r t	"3" of Freezer	RT-S disconnection/ short-circuit	Deletion by RT-Sensor	d OOr	"1" of Ref.	Defective Door S/W (when S/W senses that door opened more than 1 hour)	Deletion of sensing Door-S/W	C 1	"2" of Ref.	Abnormal Cycle (COMP runs more than 3 hours at D-S ≥ 5°C.)	Normal Running	F 3	"3" of Ref.	In case of Heater Defrosting, when it returns to Time (80min.), not D-Sensor	Normal Running (Deletion of Pre-cool Mode in Defrosting Mode)	RT/S	In Error	~13°C	14°C~29°C	29°C~	Running-Rate (ON/OFF)	8/12	7/13	8/12	9/11	<p>Limit-time : 4min.</p> <p>Check error without using jig.</p>	
Error Code	C-LED	CONTENTS	Running State																																												
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OPERATION AND FUNCTIONS

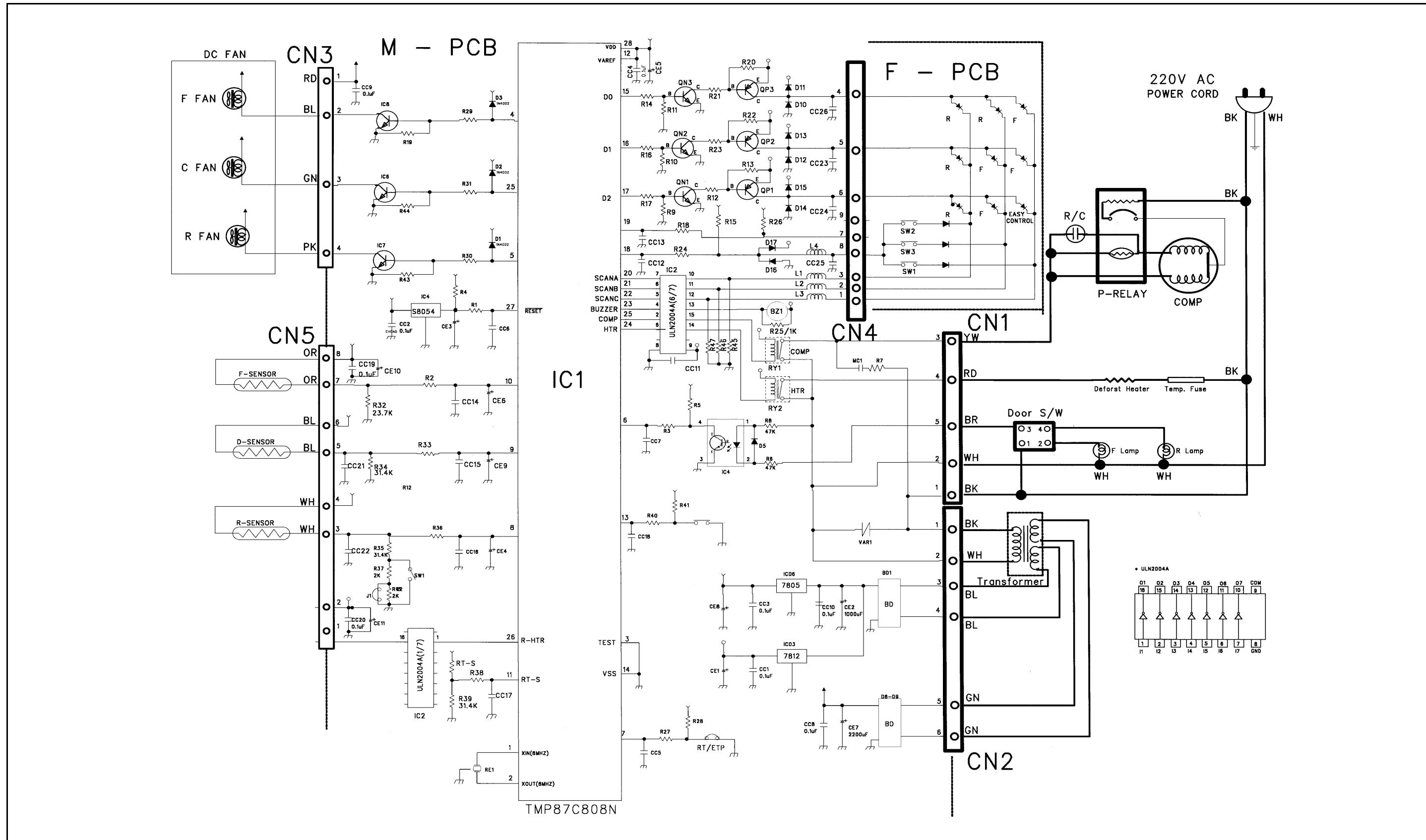
NO	CONTROL FUNCTION	CONTROL OBJECTS	CONTENTS	REMARK
			<p>4) d1 Error</p> <ul style="list-style-type: none"> ① Occurrence : D-Sensor disconnection/short-circuit ② Control : by limit time(40min.) of Defrosting-return ③ Dissolution : if D-Sensor is in normal state, it is finished by itself. <p>5) door Error</p> <ul style="list-style-type: none"> 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.) <p>6) C1 Error</p> <ul style="list-style-type: none"> ① Occurrence : when COMP runs continuously for more than 3 hours while D-Sensor is above -5°C ② Control : normal running ③ Dissolution : when D-Sensor temperature is below -5°C while Comp is Off <p>7) F3 Error</p> <ul style="list-style-type: none"> 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 Defrosting	1. Defrosting Mode	<p>* A/S (Heater) Forced Defrosting</p> <p>1. Start : press REF.SET Button 5 times while pressing FRZ.SET Button (It is impossible in the state of Energy Consumption Forced Defrosting.)</p> <p>2. Process</p> <ul style="list-style-type: none"> 1) Let Heater On for 30seconds. 2) Delete Pre-cool of normal defrosting mode. <p>HTR Defrosting → Pause → Fan Delay → Normal Running</p> <p>3. Heater turns Off when D-Sensor temperature is more than 10, 30 seconds after Heater On.</p>	
9	Time Delay of Electric Devices	1. F-Fan 2. R-Fan	<p>1. F-Fan Time Delay in COMP On/Off</p> <p>☞ F-Fan turns On/Off 1 minute after COMP On/Off.</p> <p>2. F-fan, R-fan will be delayed to open door easily.</p>	
10	Initial Defrosting	Defrosting Mode	<p>1. Defrosting mode starts when D-Sensor ≤ 3.5°C at initial power supply. (It starts from Pre-cool.)</p>	COMP delayed for 6min. at initial defrosting

OPERATION AND FUNCTIONS

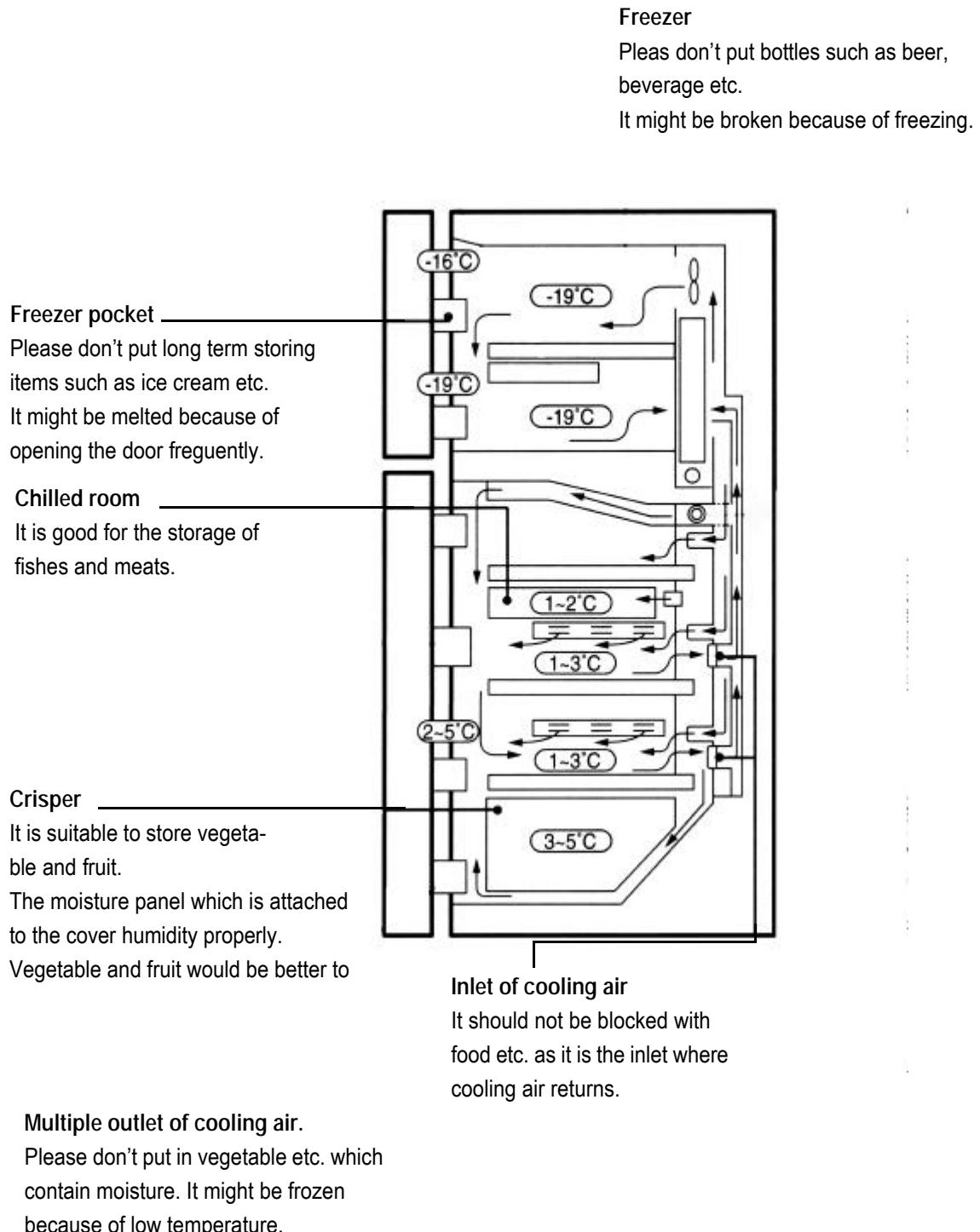
NO	CONTROL FUNCTION	CONTROL OBJECTS	CONTENTS	REMARK									
11	Explanation after Delivery	Electric Devices	<p>1. Start : press both buttons for 3 seconds after initial power supply (plug-in).</p> <p>2. Electric devices turn Off for 3 hours.</p> <p>3. Display works in normal way.</p>										
12	Prevention of COMP Restart	COMP	<p>1. COMP does not restart for 6 minutes after COMP Off, though F-Sensor turns On.</p>	6min. delay									
13	Buzzer Alarm	Buzzer	<p>1. Buzzer rings by pressing F-PCB Buttons.</p> <p>2. Buzzer rings for 1 second after initial power supply (plug-in).</p> <p>3. Buzzer rings for 1 second at the start of A/S Forced Defrosting.</p> <p>4. Buzzer rings every 1 minute after door opening. (It rings within 5minutes and ring-time is prolonged as time passes.)</p> <p>5. Buzzer makes short ring every 5 seconds in Error Display.</p>										
14	Demonstration Function	Electric Devices	<p>1. Start : open and close Refrigerator[Freshfood Compartment] Door 5 times while pressing FRZ.SET Button.</p> <p>2. Control 1) Electric devices turn Off except for F-Fan and R-Fan. 2) Fan Control</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Door Open</th> <th>Door Close</th> </tr> </thead> <tbody> <tr> <td>F-FAN</td> <td>ON</td> <td>OFF</td> </tr> <tr> <td>R-FAN</td> <td>ON</td> <td>OFF</td> </tr> </tbody> </table> <p>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)</p>		Door Open	Door Close	F-FAN	ON	OFF	R-FAN	ON	OFF	
	Door Open	Door Close											
F-FAN	ON	OFF											
R-FAN	ON	OFF											
15	Control of R-Sensor Off-Point	1. Control Resistance of R-Sensor "2" Off-point	<p>1. In case of Weak-refrigeration (though R-Fan and COMP work on and on), the following actions are to be done.</p> <p>2. Resistance R13 : Control Resistance of R-Sensor Middle("2") Off-point (- 1.0 °C , 31.4 kΩ)</p> <p>3. Resistance R14 : reducing R-Sensor Resistance by 1.5° in case of weak-Refrigeration (-2.5°C , 2.15 kΩ)</p> <p>4. SW1 : during A/S, if SW1 is opened, R-Sensor Middle Off-point decreases by 1.5°C .</p> <p>5. Switch Status and R-Sensor Middle Off-point</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Switch Status</th> <th>R-Sensor Middle Off-point</th> </tr> </thead> <tbody> <tr> <td>Normal / Using Jig</td> <td>-1.0</td> </tr> <tr> <td>In Weak-refrigeration</td> <td>-2.5</td> </tr> </tbody> </table>	Switch Status	R-Sensor Middle Off-point	Normal / Using Jig	-1.0	In Weak-refrigeration	-2.5				
Switch Status	R-Sensor Middle Off-point												
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DIAGRAM

3. CIRCUIT DIAGRAM

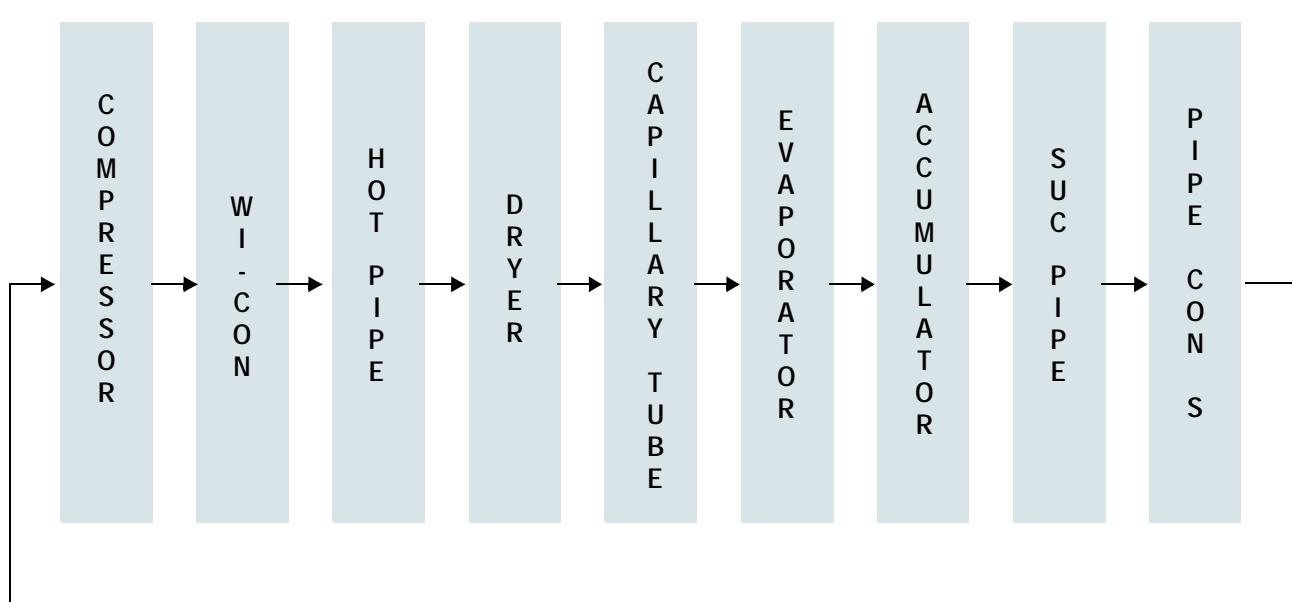
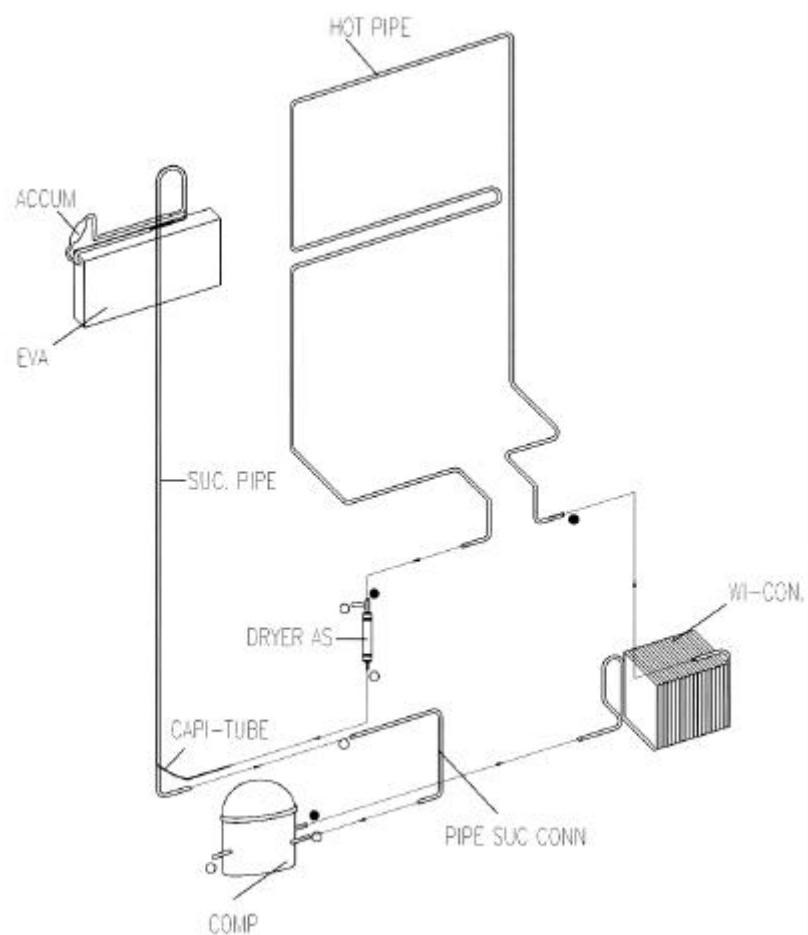


2. AIR FLOW DIAGRAM



DIAGRAM

3. REFRIGERANT CYCLE DIAGRAM



DISASSEMBLY AND ASSEMBLY

1. Freezer & Refrigerator Doors



1. Insert flat type (-) screw driver between Hinge Cover and Cabinet surface to remove the Cover.
(Be careful not to break the hooks of Cover and not to damage the Cabinet surface.)



2. Remove 4 bolts with 10mm wrench.
3. Disconnect Connector Housing.
4. Lift F-Door a little to remove it.



5. Unfasten Hinge Pin with 6mm wrench.



6. Lift R-Door up a little to remove it.

DISASSEMBLY AND ASSEMBLY

2. Door Handles



1. Insert rectangular bent tool whose diameter is less than 4mm into the hole of Handle to remove the Handle Decorator.



2. Pull out Handle Decorator from up to down.

* Be careful not to damage the surface of Handle. and door
Once it is peeled or damaged, corrosion may occur from
metal parts beneath the handle.



3. Remove the 2 Handle screws.
4. See to it that the screws are fastened well when reassembling the handle.

3. F Light bulb



1. Remove cover by pushing the hook.

DISASSEMBLY AND ASSEMBLY

3. F Light bulb



2. Remove the Light bulb by turning it counterclockwise.
(Lamp : 15W)



3. Pull Light-bulb Base down forward with snap, if necessary
 - * In assembling, push it upward with snap.
 - * Be careful not to damage the Liner surface.

4-1. F LOUVER A

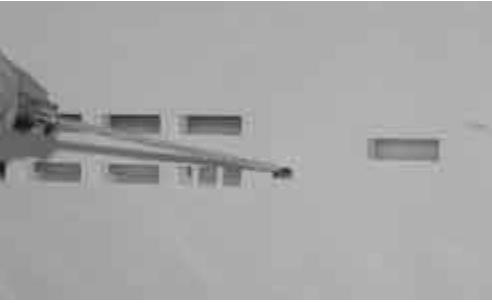


1. Remove 4 caps on the louver, using small screw driver.



2. Remove screws.

DISASSEMBLY AND ASSEMBLY

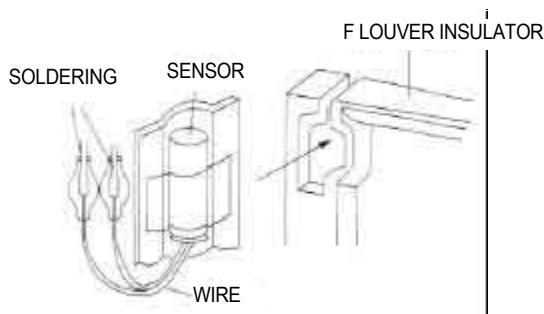
	<p>3. Insert screw driver in the rectangular hole to pull out.</p>
	<p>4. Push fingers into the 2 holes to pull out.</p>
	<p>5. Pull the top of louver forward slowly while lifting the bottom. * Be careful not to damage the insulator behind louver.</p>
4-2. F LLOUVER B	
	<p>1. Pull the louver forward slowly while pressing housing hook.</p>

DISASSEMBLY AND ASSEMBLY



2. Loosen wire tie on the left and pull louver forward slowly.
★ Be careful not to damage sealing on the louver for they affect cold air circulation.

5. F Sensor



1. Cut down sensor wires and insert 2 pieces of heat shrinkage tube to each wire.
2. Connect new sensor wires and old ones, and put soldering on the connecting part.
3. Move shrinkage tubes to hide the connecting part and give mild heat around them to shrink.

6. Fan Motor



1. Remove louver A and louver B.
2. Loosen fan motor wires and pull out connectors.
(F connector and R connector)



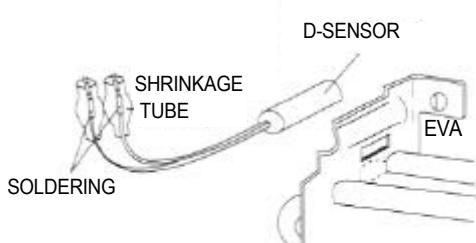
3. Remove fan fixing ring.

DISASSEMBLY AND ASSEMBLY

	4. Pull out fan and remove screws.
	5. Remove motor cover by turning it slowly.
	6. Remove wire fastening tape and pull out the Motor. * F and R Fan Motor are distinguished by their wire colors, so be careful not to change the motors. - Blue Wire for R Fan Motor - Red Wire for F Fan Motor * See to it that wire out direction is correct.
7-1. Exchange of Defrosting Sensor	
	1. Remove defrosting sensor on the top right of evaporator.

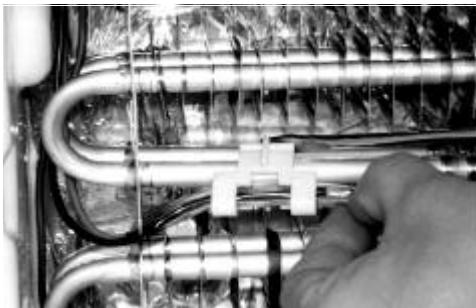
DISASSEMBLY AND ASSEMBLY

7-2. D Sensor Exchange

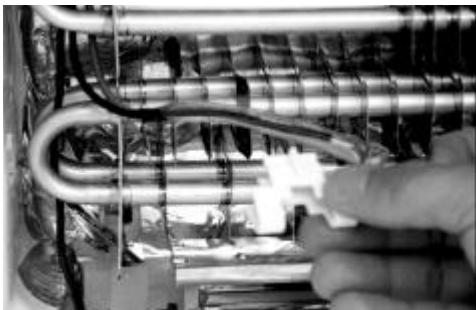


4. Cut down sensor wires and insert 2 pieces of heat shrinkage tube to each wire.
5. Connect new sensor wires and old ones, and put soldering on the connecting part.
1. Move shrinkage tubes to hide the connecting part and give mild heat around them to shrink.

8. Exchange of Temperature Fuse



1. Remove fuse fixing clip down left of evaporator



2. Separate temperature fuse out of fixing clip.



3. Pull out temperature fuse connector of 2 wires.

DISASSEMBLY AND ASSEMBLY

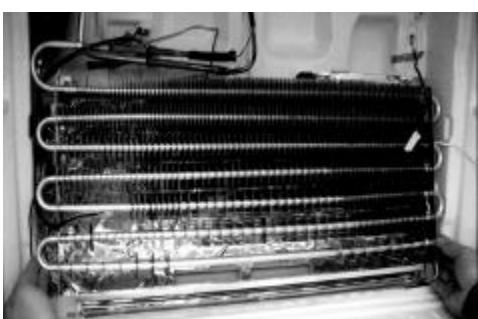
9. Exchange of evaporator



1. Place any sheet on freezer compartment floor to protect it.
2. Remove 2 screws left right of evaporator.



3. Cut black gum out.



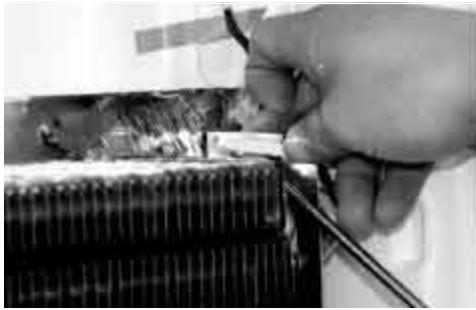
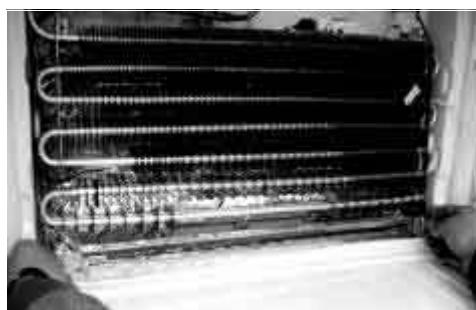
4. Pull pipes about 50mm forward.
5. Disconnect pipes by unsoldering them.

10. Exchange of Defrost Heater



1. Remove connector of gray wire on the top left.

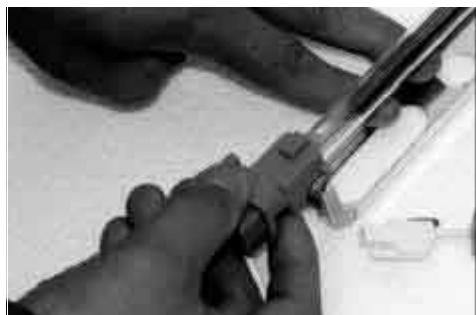
DISASSEMBLY AND ASSEMBLY

10. Exchange of Defrost Heater	
	2. Remove connector of white wire on the top right.
	2. Remove defrosting sensor on the top right of evaporator.
	3. Pull evaporator forward slowly until defrosting heater appears. ★ Be careful not to damage suction pipe and capillary pipe.
	4. Pull heater fixing rubbers forward.

DISASSEMBLY AND ASSEMBLY

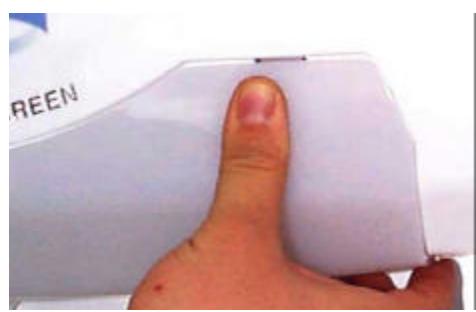


5. Straighten with screw driver left 2 hooks of aluminum plate, then right hooks are open of itself.



6. Remove left rubber cap first, then right one.
White wire is for the left rubber while gray wire is for the right one.

11-1. R Light Bulb(R LAMP)



1. Hold light bulb cover to pull it down.



2. Turn light bulb counterclockwise to pull it out.
★ Be careful not to break hooks while removing the cover.

DISASSEMBLY AND ASSEMBLY

12. Top Panel of Refrigerator	 <p>1. Remove screws.</p>
13. Return Duct Cover	 <p>1. Hold light bulb cover to pull it down. 2. Turn light bulb counterclockwise to pull it out. * Be careful not to break hooks while removing the cover.</p>
	 <p>3. Remove left Lamp Socket and right R-Sensor Housing by pulling them out smoothly.</p>
	 <p>4. Pull down left and right body of Duct. 5. Pull forward the Duct.</p>

DISASSEMBLY AND ASSEMBLY

14. Cubic Duct



1. Insert screw driver into the gap to pull out
★ Be careful not to break hook.

15. Side Louver



1. Remove all the parts of fresh food compartment except for cubic-duct and return-cap.
2. Pull out sensor connector of left louver.



3. Remove screw on the top of louver.



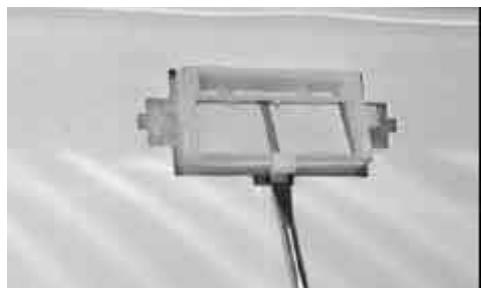
4. Hold top of louver and lift hook.

DISASSEMBLY AND ASSEMBLY



1. Pull louver forward slowly.
2. Be careful not to damage sealing sponge stripes.

16. Check Valve



1. Insert screw driver into the gap to pull out.
2. Pull it out.

17. R Sensor

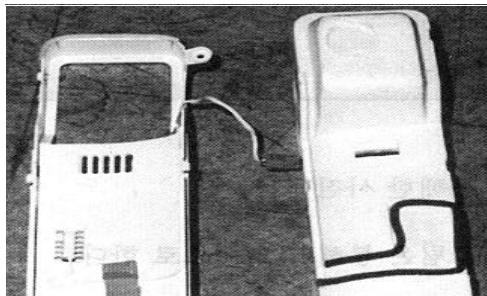


1. Cut out only sealing sponge on the insulator in straight way along the insulator.



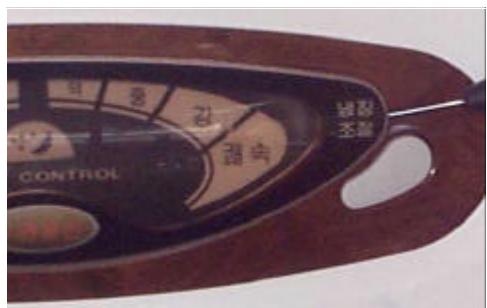
2. Separate the Insulator form Louver by pressing the Insulator smoothly.
* Louver and Insulator are bonded by double-sided tape.

DISASSEMBLY AND ASSEMBLY



3. Separate louver and insulator.
4. Be careful not to break insulator
5. Remove sensor.

18. Front Control Panel



1. Place any sheet right of panel to protect surface of it.
2. Insert small screw driver into the gap to lift panel window up.
3. Insert another driver into the gap and move it left loosen 2 hooks.
4. Pull window out smoothly.

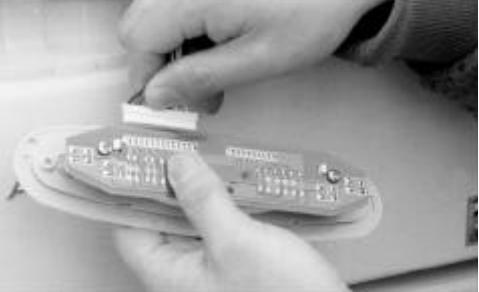


5. Remove 2 screws.



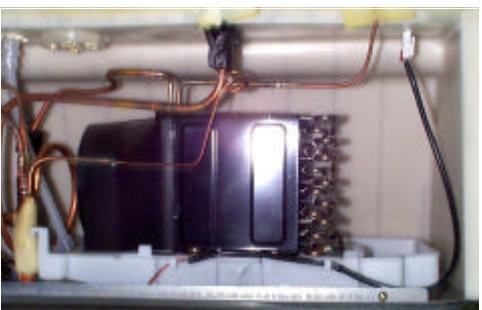
6. Lift up panel to remove

DISASSEMBLY AND ASSEMBLY

	7. Remove connector.
	8. Remove screws on the back of panel.
19. Compressor 	1. Remove Machine-room Cover screws. 2. Pull the cover up to remove.
	3. Remove P-Relay Band by pressing it up toward the Compressor. 4. Remove Relay Assembly from Compressor. 5. Cut out Service Pipe and tiny pipe of Dryer. 6. Remove Compressor Pipes using soldering torch. 7. Remove 4 Compressor Washers.

DISASSEMBLY AND ASSEMBLY

20. Wire-Condensor & C-Fan

	<ol style="list-style-type: none">1. Remove the 2 case screws using cross type screw driver.
	<ol style="list-style-type: none">2. Remove Wire-condenser pipes using soldering torch.3. Cut out Dryer fixing cable.
	<ol style="list-style-type: none">4. Turn the Drain Hose by 90degrees to remove.5. Press the Housing Locker down to remove it.6. Pull out Wire-condenser. ★ Be careful not to damage pipes when pulling out the Condenser.
	<ol style="list-style-type: none">7. Press the Fan-cover fixing Hook using flat type driver.

DISASSEMBLY AND ASSEMBLY

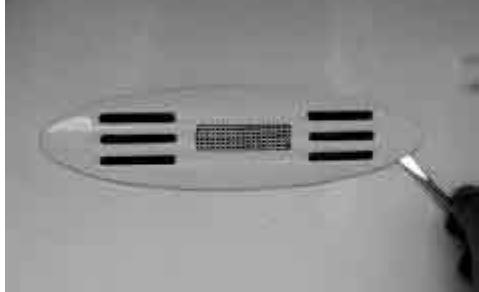


8. Remove the Bell-mouth fixing screw.
9. Remove Bell-mouth by pulling them aside.



10. Press the Motor Band down to remove it.
11. Lift the Motor up to remove.

21. Return Duct Cover

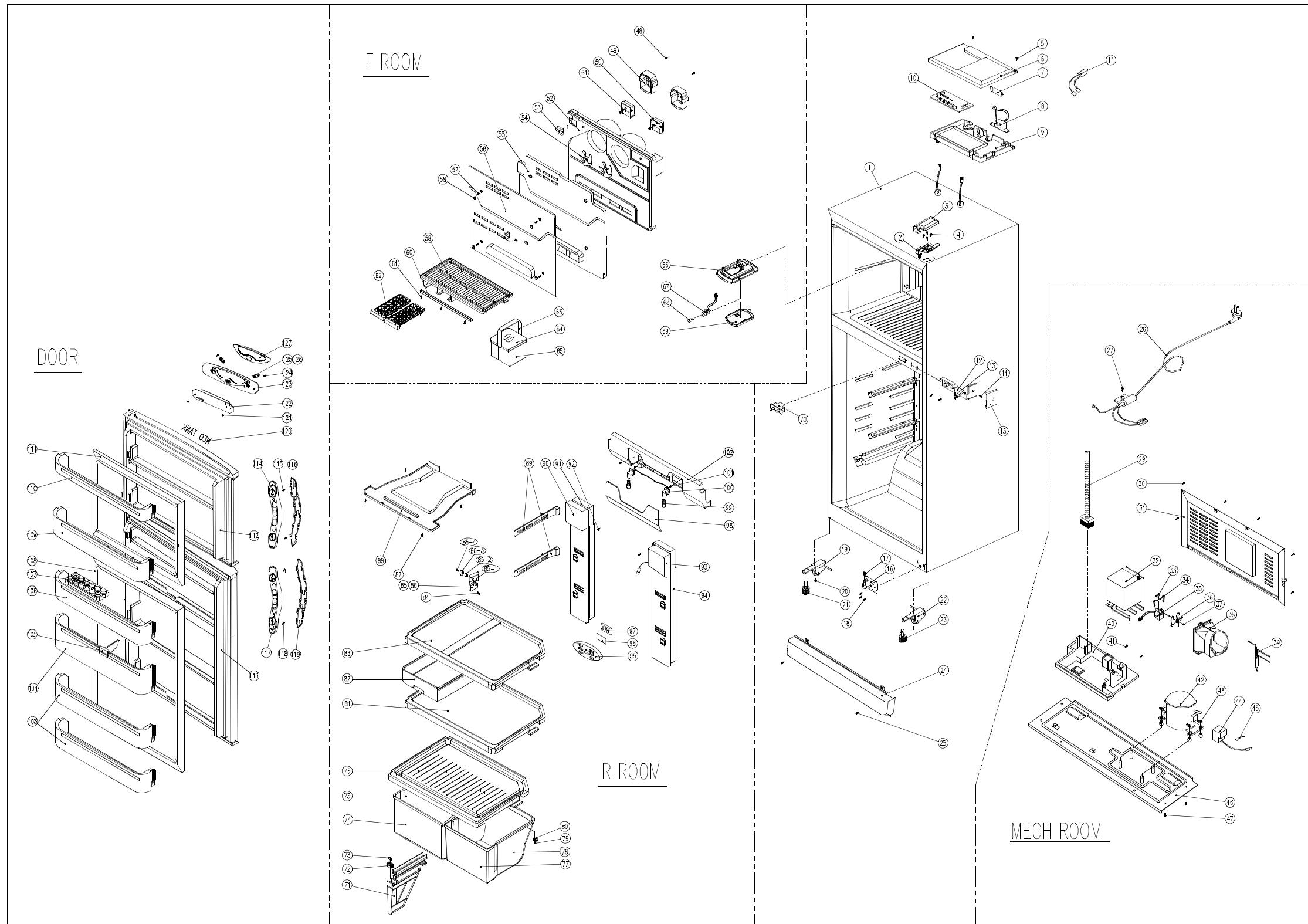


1. Insert screw driver into the gap to pull out.
* Be careful not to break hooks.

EXPLODED VIEW AND PARTS LIST

1. EXPLODED VIEW

- FR-630NT/NB, FR-662NT/NB, FR-700NT/NB



EXPLODED VIEW AND PARTS LIST

2. TOTAL PARTS LIST

④ is a recommendable part for essential stock.

✓ **Caution:** In this Service 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(<http://svc.dwe.co.kr>)

NO	PART CODE	PART NAME	PART DESCRIPTION	QT'Y	REMARK
1	3010058720	ASSY CAB URT	FR-630NT/NB	1	CFC
	3010058730		FR-630NT/NB	1	HCFC
	3010058820	ASSY CAB URT	FR-662NT/NB	1	CFC
	3010058830		FR-662NT/NB	1	HCFC
	3010058920	ASSY CAB URT	FR-700NT/NB	1	CFC
	3010058930		FR-700NT/NB	1	HCFC
2	3012905400	HINGE *T	T2.3 SCP1	1	
3	3011429000	COVER *T HI	PP	1	
4	3016001230	SPECIAL BOLT T/U	M6X22 MFZN	4	
5	7112401211	SCREW TAPPING	T1 TRS 4X12 MFZN	5	
6	3011444900	COVER M-PCB BOX	PP VO	1	
7		CAPACITOR RUN		1	REFER TO #5
		CAPACITOR STARTING		1	REFER TO #4
8		TRANS POWER		1	REFER TO #6
9	3010519200	BOX M-PCB	PP	1	
④10		PCB MAIN AS	N808	1	REFER TO #6
11		HARNESS RUN CONN		1	
12	3012905501	HINGE *M	T3.2 PO	1	
13	3014901820	SHAFT *M HI	S20C	1	
14	3016001230	SPECIAL BOLT M	T1 TRS 4X2 MFZN	3	
15	3011424700	COVER *M HI		1	
16	3012905600	HINGE *U		1	
17	3016005300	SPECIAL WASR		1	
18	3016001230	SPECIAL BOLT T/U	T1 TRS 4X22 MFZN	3	
19	3016500710	CASTER F *L AS		1	
20	3016000700	SPECIAL SCREW	M5x15	2	
21	3012102500	FOOT ADJ *L AS		1	
22	3016500810	CASTER F *R AS		1	
23	3012101500	FOOT ADJ AS		1	
24	3011439300	COVER CAB BRKT	PP	1	
25	7112401211	SCREW TAPPING	T1 TRS 4X12 MFZN	2	
26		CORD POWER AS		1	REFER TO #8
27	7112401211	SCREW TAPPING	T1 TRS 4X12 MFZN	7	
29	3013202400	HOSE DRN AS	PP	1	
30	7112401211	SCREW TAPPING	T1 TRS 4X12 MFZN	6	
31	3012400901	GRILL AS		1	

EXPLODED VIEW AND PARTS LIST

NO	PART CODE	PART NAME	PART DESCRIPTION	QT'Y	REMARK
32	3014426920	PLATE CONN AS		1	
33	3010102100	ABSORBER C MOTR		1	
34	3012004400	FIXTURE C MOTOR		1	
⑥ 35		MOTOR C		1	REFER TO #5
⑥ 36	3011800400	FAN		1	
37	3011200500	CLAMP FAN		1	
38	3011444800	COVER C FAN		1	
⑥ 39		DRYER AS		1	REFER TO #6
40	3011119200	CASE VAPORI	PP	1	
41	7112401211	SCREW TAPPING	T1 TRS 4X12 MFZN	2	
⑥ 42		COMPRESSOR		1	REFER TO #3
43	3016002500	SPECIAL WASR	SK-5	1	
⑥ 44		SWITCH P-RELAY AS		1	REFER TO #4
45	3012610000	RELAY BAND	SK-5	1	
46	3012003000	BASE COMP AS		1	
47	3016003300	SPECIAL BOLT	MFZN	4	
48	7112401211	SCREW TAPPING	T1 TRS 4X12 MFZN	2	
49	3012007800	FIXTURE MOTR A	PP	2	
⑥ 50		MOTOR R	DC MOTOR	1	REFER TO #5
⑥ 51		MOTOR F	DC MOTOR	1	REFER TO #5
52	3018908000	LOUVER F B	FRB-5070NB	1	
53	3014524800	PLATE SENS		1	
⑥ 54	3011800400	FAN	ABS	2	
54	3018904201	LOUVER F B	PP	1	
55	3013333900	INSU F LUVR A		1	
56	3018907900	LOUVER F A	HIPS	1	
57	7112401211	SCREW TAPPING	T1 TRS 4X12 MFZN	4	
58	3010924600	CAP F LUVR		1	
59	3017810702	SHELF F	5070NB/KB	1	
	3017810802	SHELF F	5270NB/KB	1	
	3017810502	SHELF F	5570NB/KB	1	
60	3010621500	BRACKET F SHELF		1	
61	7112401211	SCREW TAPPING	T1 TRS 4X12 MFZN	3	
62	3011110200	CASE ICING	PP	2	
63	3012603400	HANDLE ICE BOX	ABS	1	
64	3011415500	COVER ICE BOX	GPPS	1	
65	3010519600	BOX ICE	HIPS	1	
66	3012003800	FIXTURE F LAMP		1	

EXPLODED VIEW AND PARTS LIST

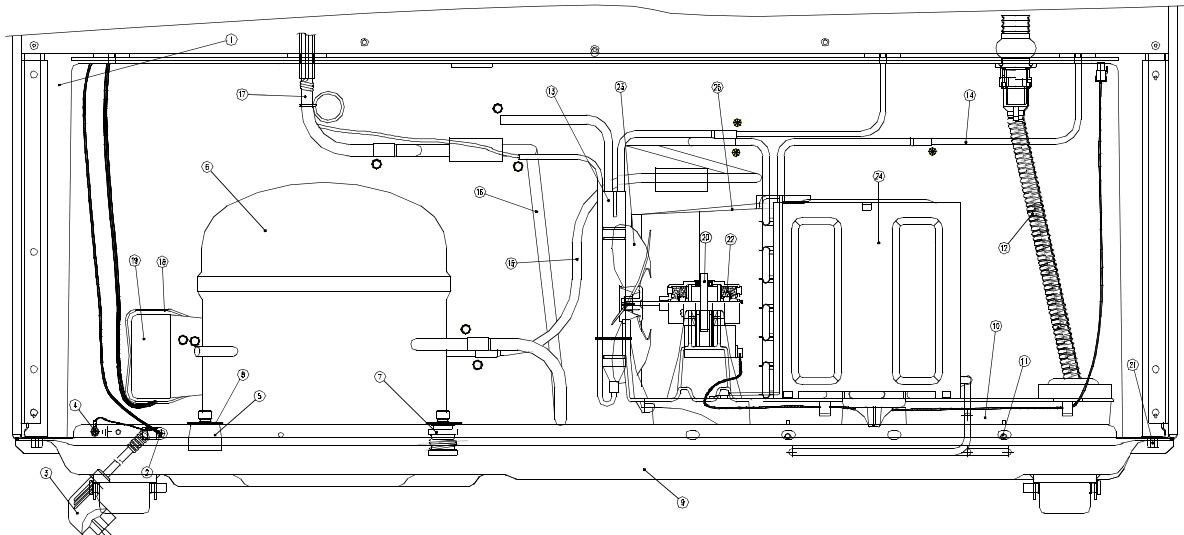
NO	PART CODE	PART NAME	PART DESCRIPTION	QT'Y	REMARK
67	3017900840	SOCKET F LAMP AS		1	
⑥8		LAMP AS		1	REFER TO #6
69	3015502600	WINDOW F	PP	1	
⑦0		SWITCH DR		1	REFER TO #7
71	3012505600	GUIDE V/CASE *M		1	
72	3015304100	SUPPORTER ROLL B		1	
73	3014700400	ROLLER B		1	
74	3011110400	CASE VEGETB *L A	FRB-570NT/NB	1	
75	3011110700	CASE VEGETB *L B	FRB-5070(HIPS)	1	
	3011110600	CASE VEGETB *L B	FRB-5270(HIPS)	1	
	3011110800	CASE VEGETB *L B	FRB-5570(HIPS)	1	
76	3011428701	COVER V/CASE	FRB-5070(SAN)	1	
	3011428801	COVER V/CASE	FRB-5270(SAN)	1	
	3011428601	COVER V/CASE	FRB-5570(SAN)	1	
77	3011110500	CASE VEGETB *R A	FRB-5070NT/NB	1	
78	3011111000	CASE VEGETB *R B	FRB-5070(HIPS)	1	
	30111110900	CASE VEGETB *R B	FRB-5270(HIPS)	1	
	3011111100	CASE VEGETB *R B	FRB-5570(HIPS)	1	
79	3014700200	ROLLER V/CASE	*R / *L = 2 / 2	4	
80	3015303300	SUPPORTER ROLL	*R / *L = 2 / 2	4	
81	3017815000	SHELF R *U AS	FRB-5070NB(GALSS)	1	
	3017813100	SHELF R *U AS	FRB-5270NB(GALSS)	1	
	3017813000	SHELF R *U AS	FRB-5570NB(GALSS)	1	
82	3011111300	CASE CHILD	FRB-5070(SAN)	1	
	3011111400	CASE CHILD	FRB-5270(SAN)	1	
	3011111500	CASE CHILD	FRB-5570(SAN)	1	
83	3017814900	SHELF R *T AS	FRB-5070NB(GALSS)	1	
	3017812500	SHELF R *T AS	FRB-5270NB(GALSS)	1	
	3017812600	SHELF R *T AS	FRB-5570NB(GALSS)	1	
84	7112401211	SCREW TAPPING	T1 TRS 4X12 MFZN	2	
85-1	3012505000	GUIDE V/CASE *L		1	
85-2	3014700300	ROLLER A		1	
85-3	3016003700	SPECIAL WASR		1	
85-4	7112401211	SCREW TAPPING	T1 TRS 4X12 MFZN	1	
86	3012507100	GUIDE *R AS	PA-6	1	
87	7112401611	SCREW TAPPING	TRS 4X16 MFZN	4	
88	3014228300	PANEL R *T	FRB-5570NT/NB	1	
89	3011428900	COVER CUBIC DUCT	ABS	4	

EXPLODED VIEW AND PARTS LIST

NO	PART CODE	PART NAME	PART DESCRIPTION	QTY	REMARK
90	3018904300	LOUVER R *S *L	PP	1	
91	3013324301	INSULATOR R *S *L	F-PS	1	
92	7112401611	SCREW TAPPING	TRS 4 X 16 MFZN	2	
93	3018904400	LOUVER R *S *R	PP	1	
94	3013324401	INSULATOR R *S *R	F-PS	1	
95	3010916800	CAP RETUN DUCT	ABS	2	
96	3011900600	FILTER DEO CUBIC		6	
97	3018701400	DEODRANT ANTI CUBIC		6	
98	3015502800	WINDOW R	GPPS	1	
⑨99		LAMP AS		2	REFER TO #16
100	3017901010	SOCKET R LAMP AS	250 [V] / 1 [A]	1	
101	7112401611	SCREW TAPPING	TRS 4 X 16 MFZN	2	
102	3011416800	COVER RETUN DUCT	PP	1	
103	3019007600	POCKET SM	GPPS	2	
104	3019007400	POCKET JUMBO	GPPS	1	
105	3012505700	GUIDE JUMBO POCKET	ABS	1	
106	3019007500	POCKET EGG	GPPS	1	
107	3011111600	CASE EGG	GPPS	1	
108	3012307620	GASKET R DR AS	PVC-S	1	
109	3019007300	POCKET F*U	GPPS	1	
110	3019003500	POCKET F*T	GPPS	1	
111	3012307520	GASKET F DR AS	PVC-S	1	
112		ASSY F DR	FRB-5070NT/NB	1	REFER TO #20
113		ASSY R DR	FRB-5070NT/NB	1	REFER TO #21
114	3012610700	HANDLE F	FRB-5070NT/NB	1	
115	7002501611	SPECIAL SCREW	TRS M5X16 MFZN	2	
116	3011603400	DECO F DR HNDL	FRB-5070NT/NB	1	
117	3012610800	HANDLE R	FRB-5070NT/NB	1	
118	7002501611	SPECIAL SCREW	TRS M5X16 MFZN	2	
119	3011603400	DECO R DR HNDL	FRB-5070NT/NB	1	
120	3014532600	PLATE TANK	FRB-5070NT/NB	1	
121	7173301011	SCREW TAPPING	TT2 BIN 3 X 12MFZN	2	
122	3014384110	PCB *F AS	N808	1	
123	3014205500	PANEL *F CONTL	ABS	1	
124	7125301211	SCREW TAPPING	T2S FLT 3 X 10 MFZN	2	
125	3016301100	BUTTON FCP *L		1	
126	3016301200	BUTTON FCP *R		1	
127	3015504600	WINDOW FCP AS	FRB-5070NT/NB	1	

EXPLODED VIEW AND PARTS LIST

3. MACHINE ROOM EXPLODED VIEW AND PARTS LIST



NO	PART NAME	NO	PART NAME
1	BASE CAB *B	14	PIPE HOT
2	SCREW TAPPING	15	PIPE CONN A
3	CORD POWER AS	16	PIPE SUC CONN
4	SCREW MACHINE	17	PIPE SUCTION AS
5	ABSORBER COMP	18	BAND RELAY
6	COMPRESSOR	19	SWITCH P-RELAY AS
7	ABSORBER COMP AS	20	FIXTURE C FAN
8	WASHER SPECIAL	21	SCREW MACHINE
9	BASE COMP AS	22	MOTOR C AS
10	CASE VAPORI	23	C FAN
11	SCREW TAPPING	24	PIPE WICON AS
12	HOSE DRN AS	25	COVER C FAN
13	DRYER AS		

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