S/M No.:

Service Manual Mineral Water) Refrigerator









✓ Caution

In this manual, some parts can be changed for improving their performance without notice. So, If you need the latest parts information, please visit and refer to PPL (Parts Price List)] in Service Infromation Center. (http://svc.dwe.co.kr)

Basic Model



F/Model : FRX-623B.. B/Modle : FRN-X22B3..



F/Model : FRX-624B.. B/Modle : FRN-X22B4..



F/Model : FRX-625B.. B/Modle : FRN-X22B5..

Dispenser Model



F/Model : FPX-603D.. B/Modle : FPN-X22D3..



F/Model : FPX-604D.. B/Modle : FPN-X22D4..



F/Model : FPX-605D.. B/Modle : FPN-X22D5..

Dispenser +Homebar Model



F/Model : FPX-603F.. B/Modle : FPN-X22F3..



F/Model : FPX-604F.. B/Modle : FPN-X22F4..



F/Model: FPX-605F.. B/Modle: FPN-X22F5..

1. Information

	Buyer No.	X22B3 X22B4 X22B5	X22D3 X22D4 X22D5	X22F3 X22F4 X22F5
	Total	622	608	608
Gross Vol. (ISO 15502)	Freezer	242	228	228
(,	Refrigerator	380	380	380
	Total	577	538	549
Storage Vol. (ISO 15502)	Freezer	204	179	179
(,	Refrigerator	373	359	370
	Width (mm)	906	906	906
Diemension	Depth (mm)	735	735	735
	Height (mm)	1770	1770	1770
	Weight (kg)	98 kg	107 kg	109 kg

	Refrigerant Type		R-134a or R-600a	
	Refrigerant Charge	1	90g (R-134a) or 75g (R-600a)	
Cooling Cycle	Evaporator Type		Fin Type	
Cooling Cycle	Condenser Type		Compulsory Convection Type	
	Dryer		Molecular Sieve xH-9	
	Capillary Tube		ID0.7 x T0.55 x L2,340	
	Defrost Heater		280W	
Heater	Dispenser Heater	3W		
пеаце	Home Bar Heater	х	5W	
	Water Pipe Heater		5W	
	Defrost Sensor		PBN-43	
Sensor	Freezer Sensor		PT-38	
	Refrigerator Sensor		PBN-43B	
	Fuse Temp. (Defrost)		AC 250V, 10A, 77C	
	Freezer Fan Motor	DC 12V, 1400rpm		
Electronic Part	Condenser Fan Motor	DC 13V, 1100rpm		
	Freezer Lamp		LED (DC12V / 1.44W)	
	Refrigerator Lamp		LED(DC12V / 2.16W)	

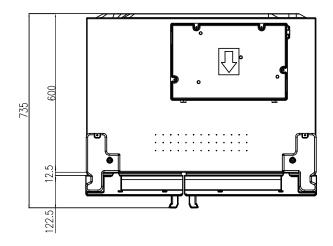
X2*B..: Basic Model (none Hombar , none dispenser)

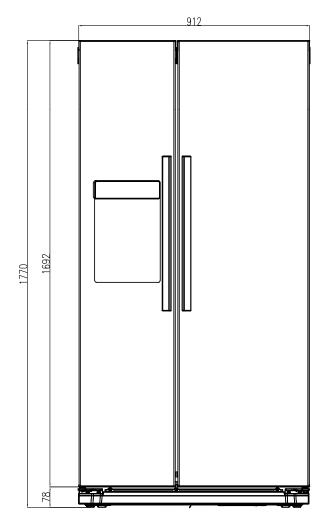
X2*D.. : Dispenser Only
X2*H.. : Home bar door Only

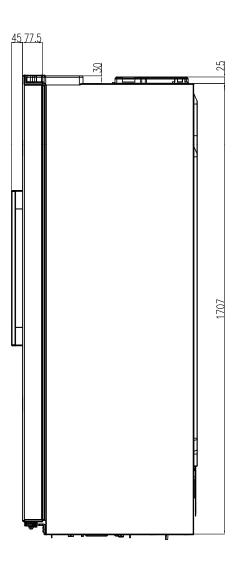
X2*F..: Dispenser + Home bar door

2

2. Outside Diemension

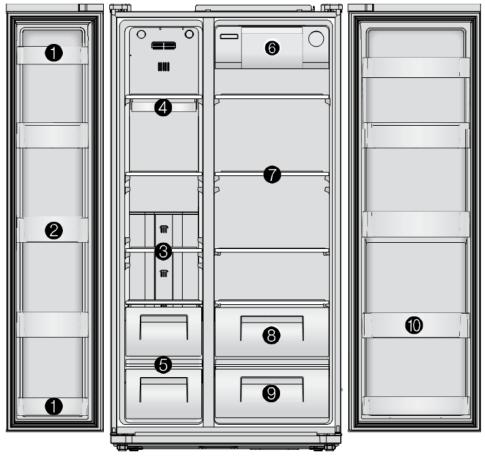






[The real features are model dependent]

3. Interior Parts(Basic)



* The real features are model dependent.

1. Door storage compartment

; for shot-term storage

2. Door storage compartment

; for storing frozen food

3. Freezer shelf

; for storing frozen food

4. Ice cube tray

5. Freezer case

; for storing dried or fish, meat for long periods of time.

6. Xpress can chiller

; for storing beverage (quick cooling compartment)

7. Refrigerator shelf

; for storing common foods

8. Vegetable case

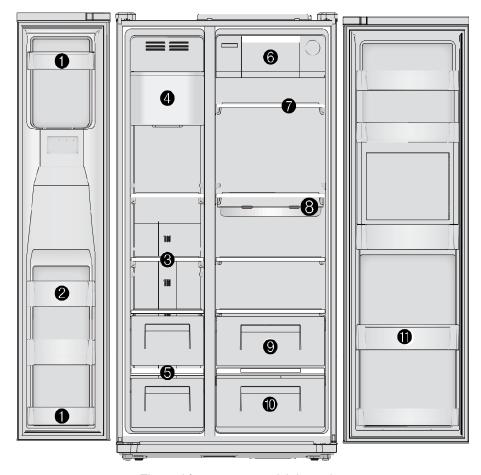
9. Fruit case

; for storing cold water

10. Refreshment pocket

; for storing refrigerating foods. ($\mbox{milk},\mbox{ juice},\mbox{ beer bottles},\mbox{ etc..}$)

3. Interior Parts(Dispenser +H/bar)

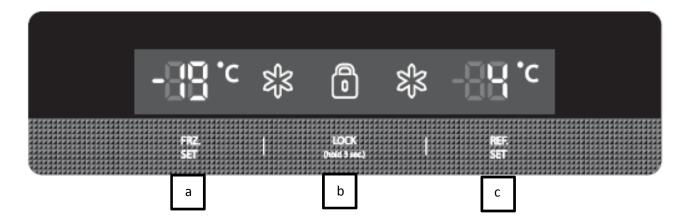


* The real features are model dependent.

- 1. Door storage compartment
 - ; for shot-term storage
- 2. Door storage compartment
 - ; for storing frozen food
- 3. Freezer shelf
 - ; for storing frozen food
- 4. Ice maker & storage case
- 5. Freezer case
 - ; for storing dried or fish, meat for long periods of time.

- 6. Xpress can chiller
 - ; for storing beverage (quick cooling compartment)
- 7. Refrigerator shelf
 - ; for storing common foods
- 8. Water tank
 - ; for storing cold water
- 9. Vegetable case
- 10. Fruit case
- 11. Refreshment pocket
 - ; for storing refrigerating foods. (milk, juice, beer bottles, etc..)

1. Display (Basic)



- a Temperature adjustment button for freezer compratment.
- b Lock & Unlock button.
- c Temperature adjustment button for refrigerator compartment.

2. Display Control

FCP	Control
Temp.Display(Set Temp.)	Initial Mode : Freezer / Refrigerator set medium (-19C / 4C)
Quick Freezer & Refresh Compartment	Button
Key Lock	Button

3. FRZ.SET button

- 1) Temperature control of freezer compartment.
- 2) Initial power plug in : Medium (-19C)
- Every time you press the FRZ.SET button, the setting temperature changes below order.



4.REF.SET button

- 1) Temperature control of refrigerator compartment
- 2)Initial power plug ing: Medium (4C)
- Every time you press the REF.SET button, the setting temperature changes below order.



5.Lock Mode (Childproof lock)

- 1) When lock the other buttons, press LOCK button.(In this mode other buttons are unable)
- 2)To unlock, press again for 3 seconds.

6

1. Display



- a Temperature adjustment button for freezer compratment.
- b Dispenser light button.
- c Lock & Unlock button.
- d Lock ice maker & cubed ice selction button.
- e Temperature adjustment button for refrigerator compratment.
- f Water dispenser selction button.

2. Display Control

FCP	Control
Temp. Display (Set Temp.)	Initial Mode : Freezer / Refrigerator set medium (-19C / 4C)
Quick Freezer & Refresh Compartment	Button
Lock ice maker / Cubed ice	Button
KEY LOCK	Button

3. FRZ.SET button

- 1) Temperature control of freezer compartment.
- 2) Initial power plug in : Medium (-19C)
- Every time you press the FRZ.SET button, the setting temperature changes below order.



4. REF.SET button

- 1) Temperature control of refrigerator compartment
- 2) Initial power plug in : Medium (4C)
- Every time you press the REF.SET button, the setting temperature changes below order.



5. WATER/ICE select

- 1) When push the WATER button, water dispensing available.
- 2) When push the ICE button, cubed ice dispensing available.
- 3) The initial mode is WATER.

6. ICE MAKER LOCK

1) Push the 'ICE' button for 3 seconds. To unlock push the ICE button for 3 seconds.







2) When cleaning the ice storage case or when not use for a long period of time.

7. LOCK Mode (Childproof lock)



- When lock the other buttons, press LOCK button.
 (In this mode other buttons are unable)
- 2) To unlock, press again for 3 seconds .

< REFERENCE >

- : Please wait for 2 ~ 3 seconds in order to take final ice or drops of water when taking out cup from the pressing switches after taking ice or water.
- : The actual inner temperature varies depending on the frood status, as the indicated setting temperature is a target temperature, not actual temperature within refrigerator.

1. Freezer Compartment Control

1) Adjust by the pushing the FRZ.SET button.

2) Compressor & Freezer Fan controlled by each mode ON/OFF point.

3) Freezer Compartment ON/OFF Difference : 4C

- MEDIUM OFF point: -19.8C

4) Control Temperature Point in Each Mode

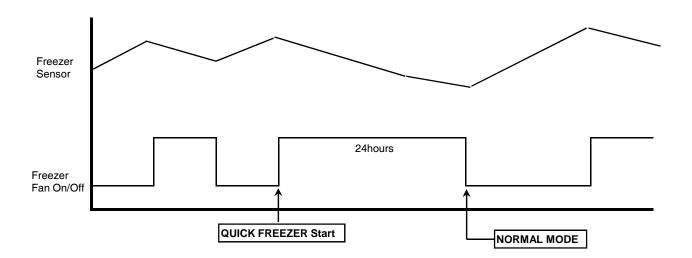
Div	ision	Initially On	1st Press	2nd Press	3rd Press	4th Press	5th Press	6th Press	7th Press
Dis	play	-19	-20	-21	-22	-22 (super)	-16	-17	-18
Temperature Control		Medium	Mediu	m Max	Max	-	Min	Mediu	m Min
Normal	Sensor On	-15.8	-16.8	-18.8	-18.8	=	-10.6	-13.9	-14.8
IVOITIAI	Sensor Off	-19.8	-20.8	-22.8	-22.8	-	-15.1	-17.9	-18.8

6) QUICK FREEZER (



) Mode

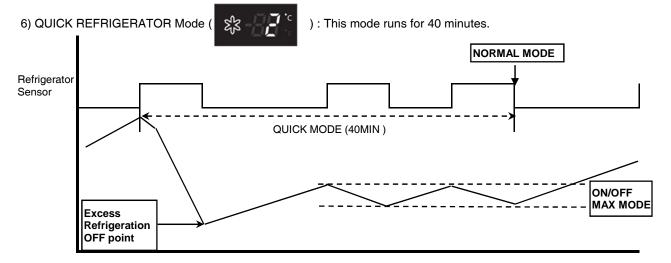
- In this mode, Compressor a rreezer Fan motor is on unconditionally for 24hours. (free of freezer sensor)



2. Refrigerator Compartment Control

- 1) Adjust by the pushing the REF.SET button.
- 2) Refrigerator Damper controlled by each mode ON/OFF point.
- 3) Refrigerator Compartment ON/OFF Difference: 0.5C
 - MEDIUM OFF point: 6.0C
- 4) Weak Cooling Prevention Function
- This funtion is free of Freezer sensor.
- When refrigerator compartment reaches the OFF point, compressor is controlled by freezer sensor.
- Weak cooling temperautre is + 7C in each dial sensor OFF temperature.
- Weak cooling terminate temperautre is same as each dial sensor OFF temperature.
- 5) Control Temperature Point in Each Mode

Division		Initially On	1st Press	2nd Press	3rd Press	4th Press	5th Press	6th Press	7th Press
Display		4	3	2	2 (super)	8	7	6	5
Temperature)	Medium	Medium Max	Max	-	Min	Medium Min		
Normal	Sensor On	6.5	5.5	4.5	-	10.5	9.5	8.5	7.5
INOITHAI	Sensor Off	6.0	5.0	4.0	-	10.0	9.0	8.0	7.0
Weak refrigeration	Sensor On	13.0	12.0	11.0	-	17.0	16.0	15.0	14.0
	Sensor Off	6.0	5.0	4.0	-	10.0	9.0	8.0	7.0



- Until the sensor reaches the Excess Refrigeration OFF point (-7C), Refrigerator Damper, freezer fan and compressor is ON.
- Until the QUICK Mode ends, the appliance runs with MAX dial mode.
- After QUICK Mode (about 40 mins) the normal mode start.

3. Fan voltage per control mode

Exerted fan motor voltage

Mode	F-Fan	C-Fan
Normal mode	10 V	13 V
Super Freezer mode	13 V	13 V
Load mode / 4 hours after defrosting / RT >= 38C	13 V	13 V

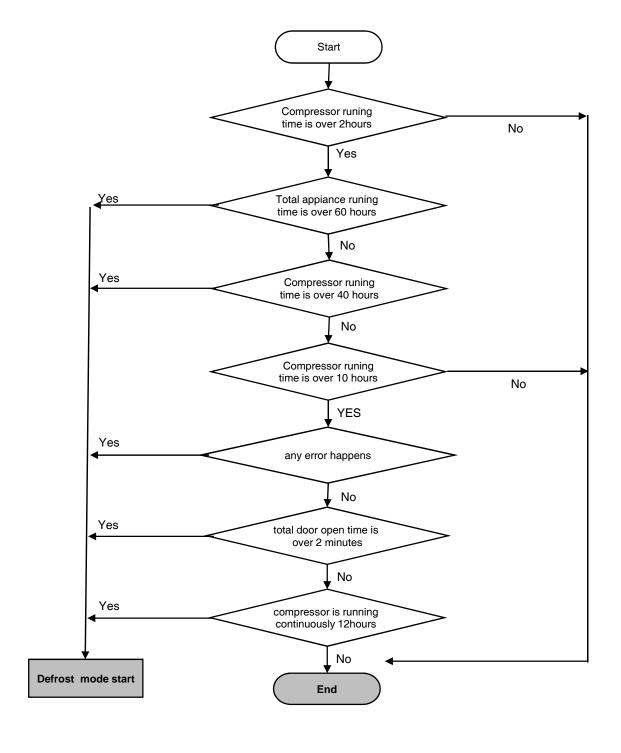
- 1) Normal control: Slow operation mode with relatively low noise level.
- 2) Load mode: Operation mode which need to be operated by temperature rise at inner side of refrigerator according to operating condition.

4. Load mode

- 1) Purpose: To recover temperature rise inside of refrigerator as quickly as possible by load or frequent door opening.
- 2) Operating condition
 - When door opening time is more than 1 minutes per 1 time -> Frz. / Ref. go to load mode.
 - When sensing more than R/S On Point + 5deg: Ref. load response.
 - When sensing more than F/S On Point + 5deg : Frz. load response.
- 3) Conditions for inactive load response mode.
 - When there is no door opening signal during and after defrost cycle, load response mode is inactive.
- 4) Terminate condition
 - After 20 mintues.
 - When Ref. sensor reaches to off point, Ref. load mode ends.
 - When Frz. sensor reaches to off point, Frz. load mode ends.

1. When Defrost Mode start?

- 1) When total Compressor runnig time becomes at 10,12,14..40hours.
 - Door opening time is over 2 minutes (Each Freezer / Refrigerator door)
 - Any error happens. (R1, F1, D1, F3, RT-Sensor, C1, Door switch etc.)
 - The compressor runing time is over 12 hours.
- 2) Total compressor running time (on time + off time) is 70hours.



2. Normal Defrost Mode













Normal Mode

1) HEATER DEFROSTING

- Defrost heater is switch on until Defrost Sensor temperature reaches 13C.
- Heater operation time
- ; 30 seconds Heater is ON free of Defrost Sensor.
- ; 30 minutes When Defrost Sensor is malfunction. (D1 error)
- ; 60 minutes Heater maximum operation time. (F3 error)

2) PAUSE

- After Defrost Heater switch OFF, Compressor dosen't run within 10 minutes.

3) FAN DELAY

- Freezer & Refrigerator fan switch on after 5miunuts' cmopressor running.

Division	HEATER DEFROST	PAUSE	FAN DELAY
Compressor	OFF	OFF	ON
Freezer Fan	OFF	OFF	OFF
Refrigerator Fan	OFF	OFF	OFF
Defrsot Heater	ON	OFF	OFF
Time	30min (D1 error) 60min (F3 error)	10min	5min

1. How to enter this check mode

- 1) Push the LOCK button.
- 2) Push the LOCK button 5 times while pressing the FRZ.SET button.



2. The Front LED displays the current error code (if happens).

- ; Every time you press the Freezer Set button, the following value display.
- 1) The appliance running time. (From the plug in.)
- 2) Freezer sensor temperature.
- 3) Defrost sensor temperature.
- 4) Refrigerator sensor temperature.
- 5) Room temperature.

3. How to exit this mode

- 1) Push the LOCK button.
- 2) After 4 minutes automatically exit.

4. Error Code

No	Display (Error Code)	Remark		
1	F1	Freezer sensor disconnection or short		
2	r1	Refrigerator sensor disconnection or short		
3	rt	Room temperature sensor disconnection or short		
4	d1	Defrost sensor disconnection or short		
5	dr	Refrigerator Door switch is defective.		
6	dF	Freezer Door switch is defective.		
7	C1	Abnormal or defective cycle		
8	F3	Return after defrosting : abnormal or defective		
9	Со	Pull-Down mode display (No error)		
10	d2	Forced Defrost mode display (No error)		

[;] All Error Code reset, when the relative parts turn into normal.

1. How to enter this check mode

- 1) Push the LOCK button.
- 2) Push the WATER button 5 times while pressing the FRZ.SET button.



2. The Front LED displays the current error code (if happens).

- ; Every time you press the Freezer Set button, the following value display.
- 1) The appliance running time. (From the plug in.)
- 2) Freezer sensor temperature.
- 3) Defrost sensor temperature.
- 4) Refrigerator sensor temperature.
- 5) Room temperature.
- 6) P Factor display.
- 7) Filter remaing time until exchange. (Initial filter runing time is about 4,320 Hour = 6 months)

3. How to exit this mode

- 1) Push the LOCK button.
- 2) After 4 minutes automatically exit.

4. Error Code

No	Display (Error Code)	Remark		
1	F1	Freezer sensor disconnection or short		
2	r1	Refrigerator sensor disconnection or short		
3	rt	Room temperature sensor disconnection or short		
4	d1	Defrost sensor disconnection or short		
5	dr	Refrigerator Door switch is defective.		
6	dF	Freezer Door switch is defective.		
7	dH	Home Bar Door switch is defective.		
8	EI	Ice sensor disconnection or short		
9	EF	Flow sensor is defective.		
10	Et	Horizontal switch error		
11	Eg	Water supply error		
12	EA	Drop the ice while Et		
13	Eu	Full ice switch error		
14	C1	Abnormal or defective cycle		
15	F3	Return after defrosting : abnormal or defective		
16	Со	Pull-Down mode display (No error)		
17	d2	Forced Defrost mode display (No error)		

[;] All Error Code reset, when the relative parts turn into normal.

5. Troubleshooting when error happens

(If the relative parts is normal, Error code display will be reset.)

- 1) F1 error
- Cause: Freezer sensor disconnection or short.
- Check point : Measure the resistance of freezer sensor in the Main PCB.

If sensor is disconnected or short, change that in the freezer compartment.

- Error code display



Freezer sensor is short.



Freezer sensor is disconneted.

2) R1 error

- Cause: Refrigerator sensor disconnection or short.
- Check point : Measure the resistance of refrigerator sensor in the Main PCB.

If sensor is disconnected or short, change that in the refrigerator compartment.

- Error code display



Refrigerator sensor is short.



Refrigerator sensor is disconneted.

3) rt error

- Cause: Room temperature sensor disconnection or short.
- Check point : Measure the voltage of sensor part on the Main PCB.

If voltage is 0.5~4.5V, normal. If voltage is 0V (short) or 5V (disconnect), change new one.

- Error code display



RT sensor is short.



RT sensor is disconneted.

4) d1 error

- Cause: Defrost sensor disconnection or short.
- Check point : Measure the resistance of defrosting sensor in the Main PCB.

If sensor is disconnected or short, change that on the evaporator.

- Error code display



Defrost sensor is short.



Defrost sensor is disconneted.

- 5) Door switch error (dr, dF, dH on display)
 - Cause: When it senses the door open for more than 1 hour.
- Check point : Check the each door switch and exchange.

6) El error

- Cause : Ice sensor is abnormal.
- Check point: Measure the resistance between both terminals after separating CN11 of the Main PCB.

If sensor is disconnected or short, change that in the automatic ice maker.

7) Et error

- Cause: Level switch abnormal. (No pulse is sensed for some time.)
- Control: By time. (Supply mode is skipped.)

8) Eg error

- Cause : When Ice sensor temperature (5 minutes after water supply) doesn't go up.
- Check point : Ice sensor or water supply line.

9) EA error

- Cause : When sensing ice drop 3 times in level sensor switch error.
- Control : Stop ice maker
- After 1 time rotation EA error code disappear if level swtich is normal.

10) Eu error

- Cause : Sensor which senses if ice is full or not is abnormal.
- Control: When drops the ice, the motor rotates 90 degree.

11) C1 error

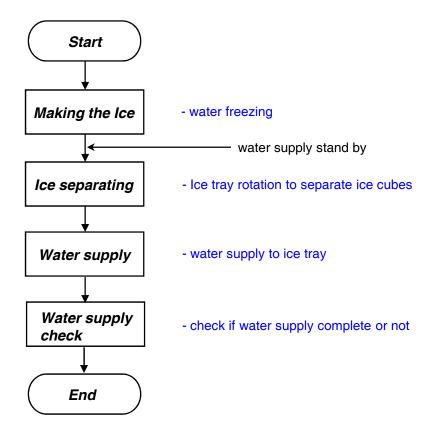
- Cause: When compressor works for over 3 hours although Defrost sensor is over -5C.
- Check point : Refrigerant leakage.

12) F3 error

- Cause : in case defrosting mode ends after 60 minutes.
- Check point : Measure the resistance between both terminals of the defrost heater.

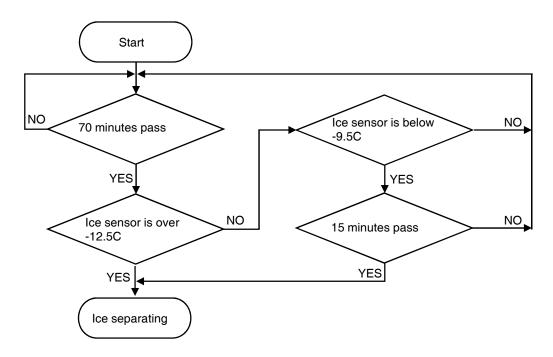
If the resistance is infinity (disconnection) or 0 ohm (short).

1. Ice making flow



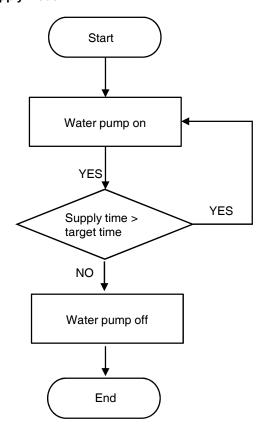
- 1) Press Test switch (which is under the ice tray) for more than 1 second and then test starts.
- Test mode starts from ice separating mode.
- In case test switch is abnormal, test is done only 1 time.
- 2) When the initial power input, ice tray turns to be horizontal.
- 3) Water supply hose heater control defrost heater linkage operation
- Heater is always ON if Room temperature sensor is abnormal or room temperature is below 15 degree.
- Heater is ON for 60minutes (max limit time) if Flow sensor is abnormal.
- 4) Water supply stand by
- Condition : When ice is full
- Operation: Proceeds to ice making mode. (stop ice separating and water supply mode)
- 5) Crusher function
- It stops operation when freezer door is open.
- It operates if door is close.

2. Ice making mode



- 1) If Ice sensor temperature is below -12.5C after 70minutes, ice making completes.
- 2) If Ice sensor temperature keep below -9.5C for 15 minutes ice making complete, although the sensor is not below -12.5C
- 3) After 4.8hours ice making complete, when ice sensor is abnormal,

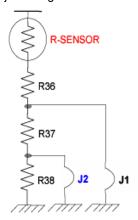
3. Water supply mode



- 1) If water supply mode starts, the water pump is ON.
- 2) Supply mode controlled by the time.
- Factor value is variable when After sales action.
 (Adjust water quantity)
 - ; Normal Water flow time setting is 6.3 seconds.
 - (Maximum time limit is 15 seconds.)

4. Weak Cooling Trouble Shooting

; Adjust refrigerator sensor OFF point



- Normal sensor resistance. (31.4kohm)
- Cut the J18 and increase sensor resistance. (33.4kohm)
- Cut the J18, J19 and increase resistance. (35.4kohm)

Option	Normal	Weak Cooling happens		
	Normai	1.5C down	3.0C down	
J1	-	Cut	Cut	
J2	-	-	Cut	

5. Magic cool zone (*not all models)



Step	Vegetable mode	Fish mode	Meat mode	Fresh mode
Damper Open	8C	4.5C	3C	-
Damper Close	7C	3.5C	2C	-

- 1) Magic cool zone damper always close when refrigerator damper is open.
- 2) When refrigerator damper is close, the magic cool zone damper is controlled by each mode.
- 3) Magic cool zone damper is close when 'Fresh' mode select.

[How to check Magic cool zone error]

- 1) Push the Select button for 3 sec.
- 2) If the sensor is normal, Fish and Meat LED is ON. (If the sensor is malfunction, all LED is ON.)
- 3) Push the 'Select' button, the damper is open. (Fish and Fresh LED is on)
- 4) Push the 'Select' button again, the damper is close. (Vegetable and Fresh LED is on)

6. Pull Down Mode (Test Mode)

- 1) How to start
- Push the LOCK button.
- Push the ICE button 5 times while keep pressing the REF.SET & FRZ.SET button.
- 2) How to control: Compressor, Freezer Fan, Refrigerator Fan and Compressor Cooling Fan is ON for 30 hours.
- 3) Display: Co display in Error Mode
- 4) Termination: After 30 hours or power reset.

7. System Off function

- 1) Purpose: Stop refrigerator operating without unplugging especially on holidays.
- 2) How to start: Pressing FRZ.SET and REF.SET button at the same time for 5 seconds will make the appliance turn off.
- 3) Under the 'off' mode Freezer and refrigerator temperature displays "- -".
 - Other LED lights go out and all the operation of your appliance halt.
- 4) Conversely pressing FRZ.SET and REF.SET button together for 5 seconds in order to switch back on.

8. Display Off function

- 5 minutes after no buttons or doors are operated by costomer, all the display LED except for;
 WATER, ICE or LOCK ICE which is selected by the user
- 2) Under the LED off status it returns to normal display mode when customers operate buttons or doors.

9. Temperature indicator convert (Celsius ↔ Fahrenheit)

- 1) Press the Lock button to enter locked mode.
- 2) Press the Light and Water button at the same time for 10 sec to swap temperature scale.
 - (Default setting is celsius)

1. Basic Model



- All the modes active in LOCK condition (Push the LOCK button)

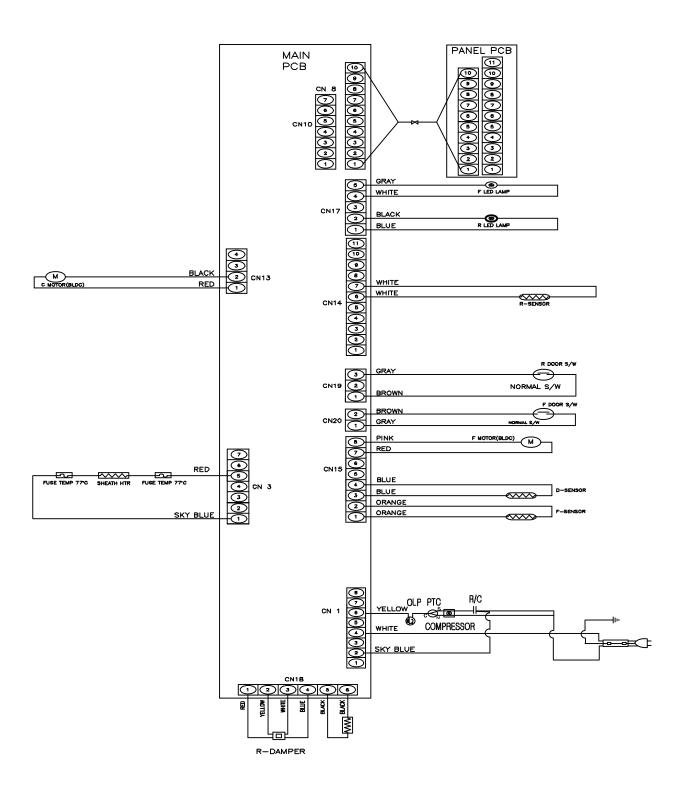
Mode	How to enter	Remark
A/S Forced Defrosting	REF.SET button 5 times while keep pressing FRZ.SET button.	
Pull Down	LOCK button 10 times while keep pressing REF.SET button.	
Error Display	LOCK button 5 times while keep pressing FRZ.SET button.	

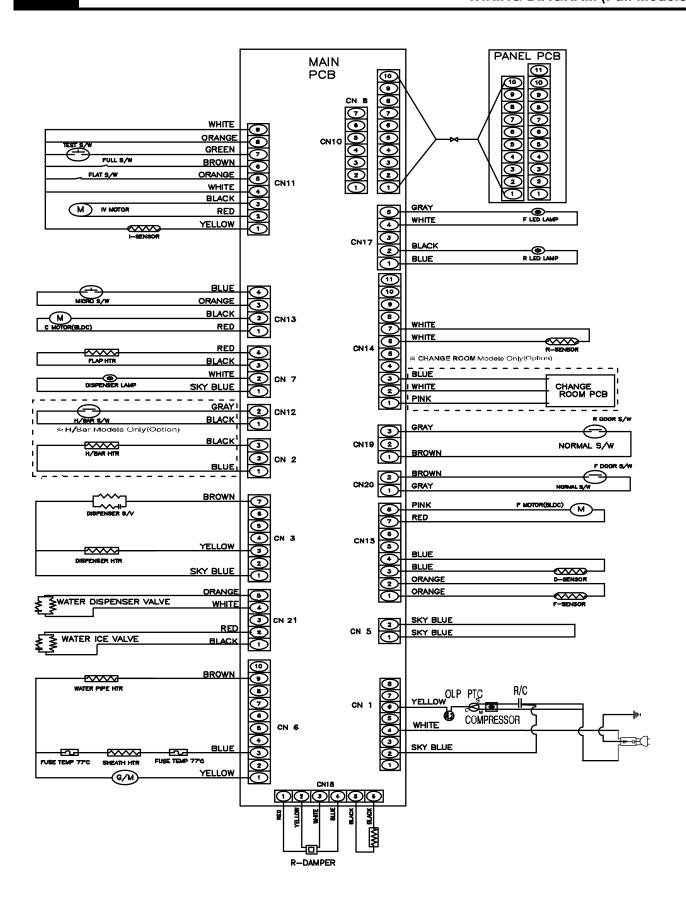
2. Dispenser Model

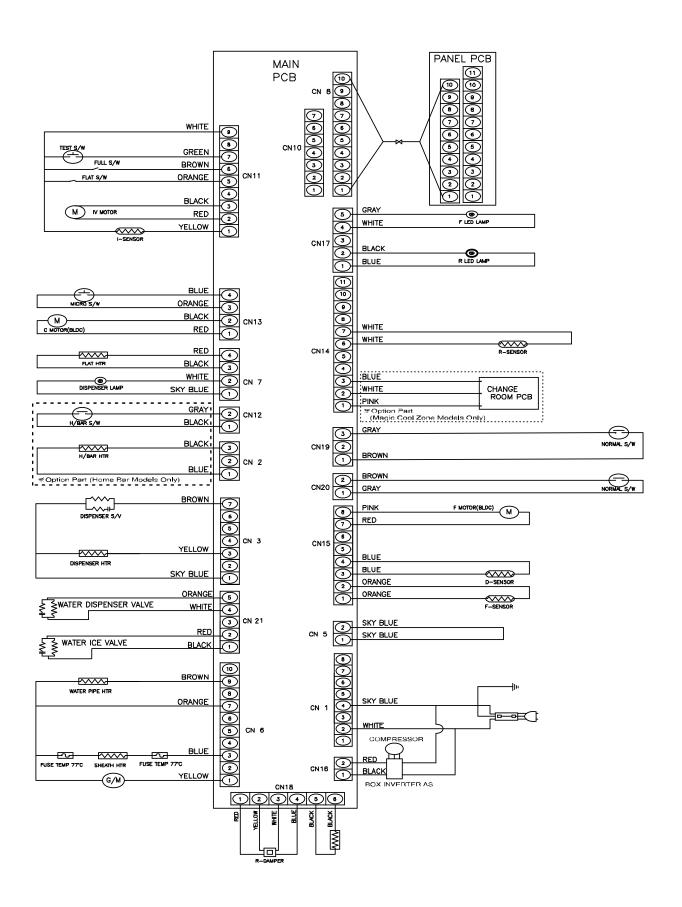


- All the modes active in LOCK (Push the LOCK button)

Mode	How to enter	Remark
A/S Forced Defrosting	REF.SET button 5 times while keep pressing FRZ.SET button.	
Pull Down	ICE button 5 times while keep pressing REF.SET & FRZ.SET button.	
Error Display	WATER button 5 times while keep pressing FRZ.SET button.	







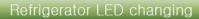
1. Inner lamp changing method

Disassembling Procedure

Freezer LED changing



Separate back side of a LED cover using (-) driver.





Same as disassemble of a freezer.





Separate LED cover and loosen 2 fixing screws for LED plate.



Same as disassemble of a freezer.



Disconnect harness of LED plate and change LED.



Same as disassemble of a freezer.

Dispenser Type Freezer LED changing

◆ Separate Geared-Motor Box. (Refer 'Geared-Motor separation' part)



Separate back side of a LED cover located at bottom of Geared-Motor Box using (-) driver.



Separate cover and loosen 2 fixing screws for LED plate.



Disconnect harness from LED plate and change LED.

Ice maker changing



Loosen 2 fixing screws at roof of a freezer and pull a ice maker toward forward direction to separate it.







Disconnect harness connected to a ice maker and separate ice maker from a freezer.

Geared-Motor changing

♦ Separate ice maker.



Disconnect 2 kinds of harness which is connected with a Geared-Motor box at upper part of a freezer.





Loosen 4 fixing screws for a Geared-Motor box.

3.Freezer cooler area changing method

Disassembling Procedure

Pull out food stuffs and rack inside of a freezer

Separate cooler fan cover - Dispenser Model

◆ Separate ice maker & Geared-Motor box.



Separate heater housing for water supply pipes.





Loosen fixing screw for a fan cover of a cooler.





Separate cover & water supply port (silicon rubber) by loosening screw at cover of a water supply pipe at back side of a refrigerator.



Grip cooling air discharge port at fan cover of a cooler by hand and separate it from lock.





Push back a water supply pipe located at back side of a freezer and go to back side of a refrigerator and pull out a water supply pipe.



Lift up right side of a cooler fan cover to forward direction and tilt it to disconnect and pull out fan harness located at left side of a cooler fan cover.



Remove screw cap of a fan cover located at upper rear side of a freezer.



Separate fan cover of a cooler.

4.Cooler fan / Fan separation

Disassembling Procedure

Cooler fan / Fan motor separation

Separate cooler fan cover.



Loosen 4 fixing screws for a fixture f motor located at rear side of a cooler fan cover.

Separate 4 hooks to separate a fixture f motor.





Pull out fan assembled at inner side of a fixture fan motor to vertical direction. [Fan separation]

Fan fixing rings are fixed with lock tight. (Kinds of bond)



Loosen 2 fixing screws for fixture f motor B from back side of a fixture fan motor.

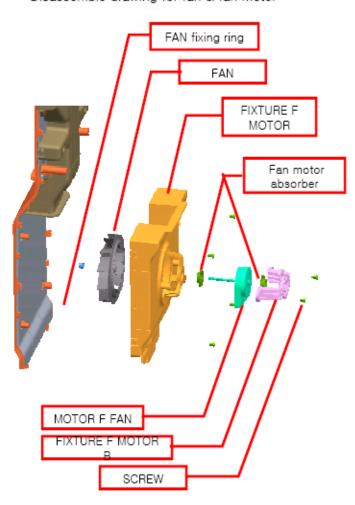




Motor can be separated by separation of a fixture f motor B. Caution when disassemble/assemble fan & fan motor.

- Assemble motor so that there is no tilt or loosening.
 (To prohibit noise generating problem)
- When fixing a fan, fix it using fan fixing rings to protect moving or separation and apply lock tight. (Kinds of bond)
- After fixing a fan, rotates fan by hand to check interference with surrounding parts.
 When there is interference with surrounding parts, fix fan or motor again.

Disassemble drawing for fan & fan motor



5. Cooler front cover separation

Disassembling Procedure



Remove a screw cap at center of a return cover located at bottom of a cooler front cover.



Grip upper part of a duct cover which is assembled at center of a cooler front cover and pull it out to forward direction to separate.





Loosen a screw at center of a return cover.



Loosen a fixing screw at cooler front cover.



Separate hooks using (-) driver by twisting it which is assembled at return cover and front cover.



Grip upper part of a cooler front cover by hand and pull it forward direction to separate it.





Pull upper part of a return cover and press it to downwards.

Separate a return cover through bottom of a freezer.



Figure of a freezer room after cooler front cover is removed.



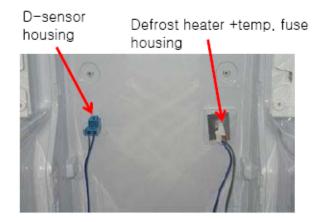
Evaporator in detail

cooler(EVA)



cooler housing connection







EVA upper area



EVA bottom area

6. Refrigerator Damper changing method Disassembling Procedure

Pull out food stuffs and rack from refrigerator.

Damper cover disassemble



Open window of a damper cover and bend it lightly at center part to separate window.





Loosen 2 screws inside of a damper cover.





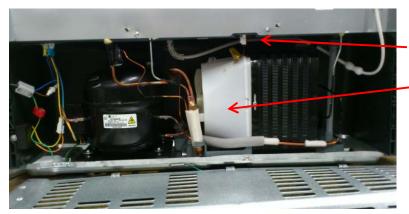
Grip lower side of a damper cover and pull it forward to separate it.

7. Refrigerator Damper changing method

No	Procedure	No	Procedure
1	Remove the R Damper As. (Unscrew 2 point with + diriver.)	4	Disconnect and pull out. (Be careful not to damage the styrofoam.)
2	You can see the electric damper on the left.	5	Exchange the new damper.
3	Peel off tape and sealing substance.	6	After exchange sealing tightly for better performance.

8. C-Fan Motor changing method

Disassembling Procedure

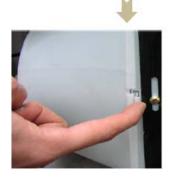


C-Fan motor housing

Bell mouth As



Separate C-fan motor housing at upper right part of a machine room,



Push and pull forward lock of a bell mouth and separate bell mouth ass'y. (Be careful blade of a fan not to be deformed during disassemble)



Loosen screws at upper, lower part of a bell mouth.



Separate a blade of a fan from a C-Fan motor shaft,



*





Loosen screws of a motor cover and separate cover and pull out Cfan motor,

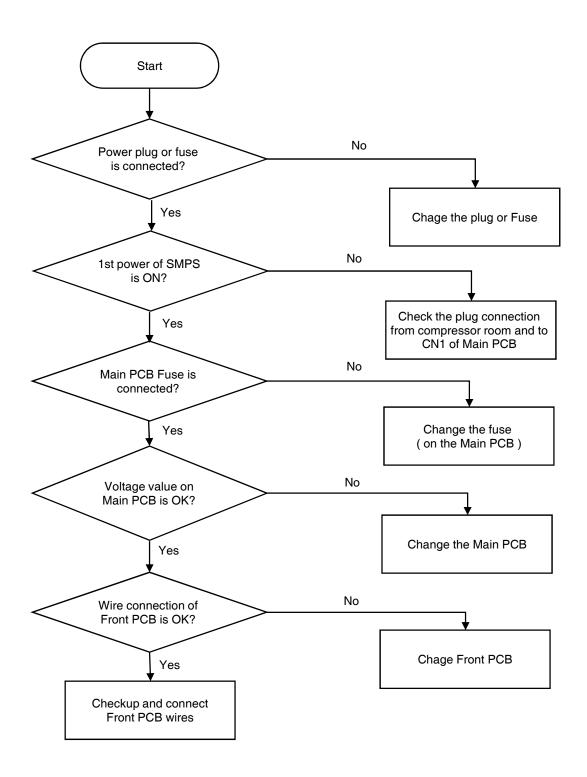


9. Pump (Dispenser / Ice Maker)

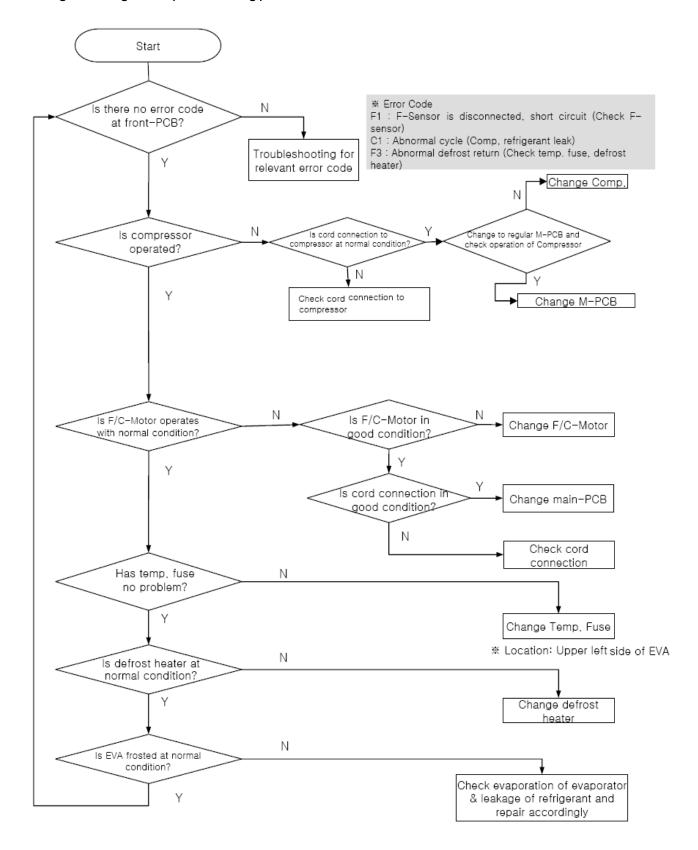
1) Disassembling Procedure

No	Procedure	No	Procedure
1	Pull out the water tank	5	Unscrew 2 points with (+) driver
2	After Turning on water icon lamp, Press button to drain water in the tube.	6	Pull both locker and Separate the cover on the left with thin driver.
3	Pull out the vegetable case and shelf	7	Disconnect the pump wire housing(2Points)
4	First, Remove the cover on the right. (No need driver)	8	Holder Dispenser pump Ice maker pump Separate pump from holder made by silicon

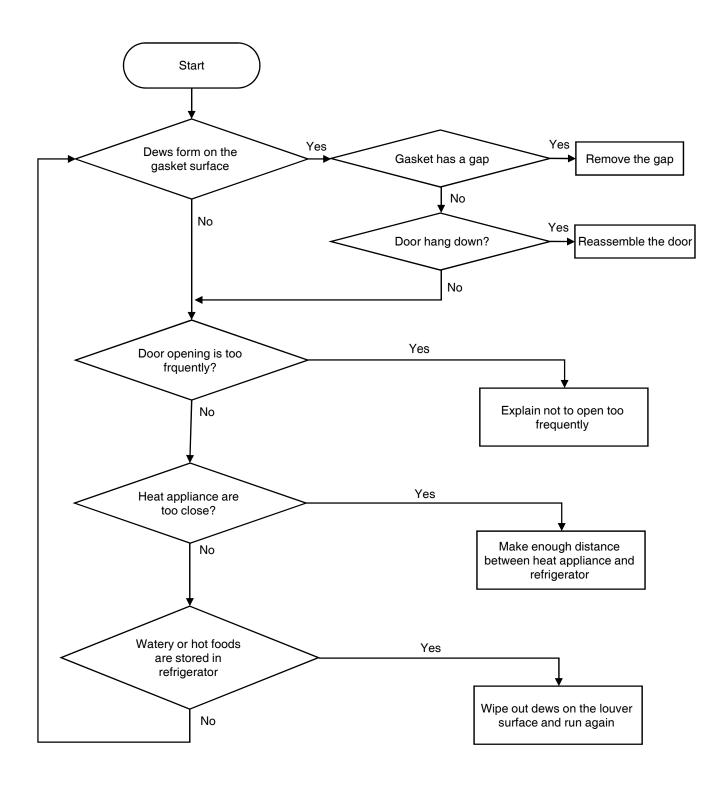
1. Faulty Start (Lights OFF, Front PCB Power Dead)



2. Freezing or cooling failure (Weak cooling)

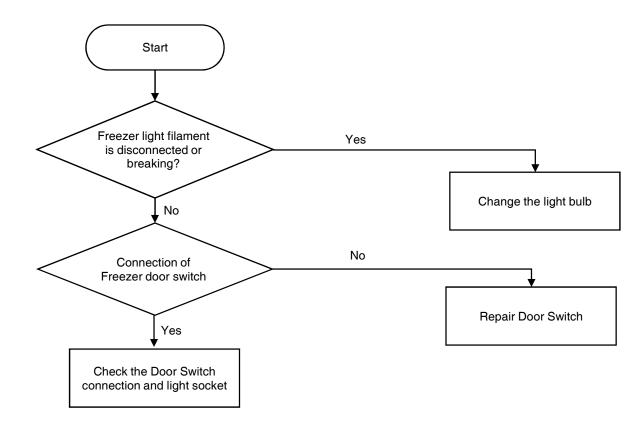


3. Ice formation on Freezer Louver

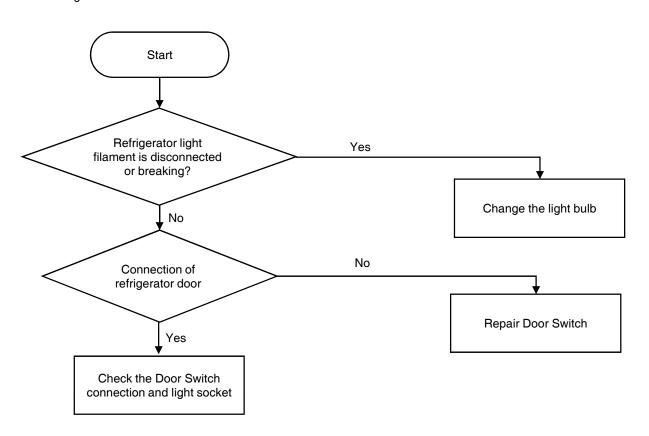


4. Disconnection / Breaking of Interior Lights Wire

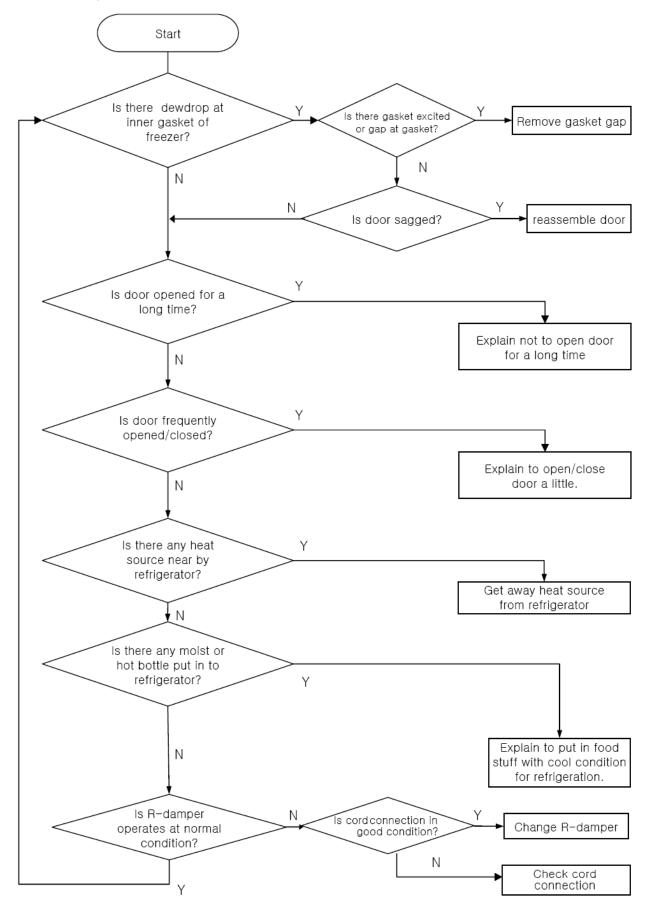
4-1. Freezer Door



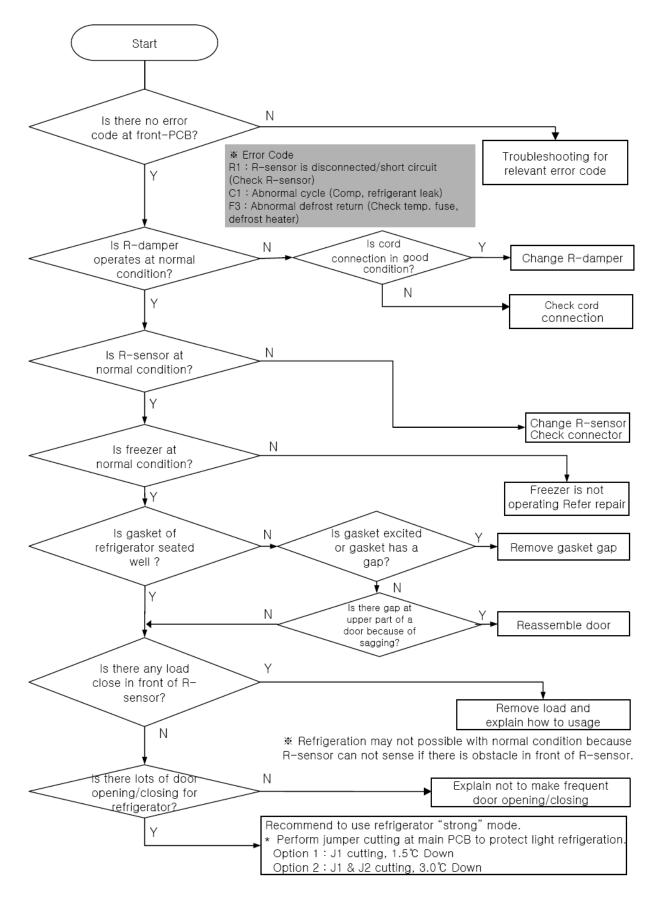
4-2. Refrigeraotor Door



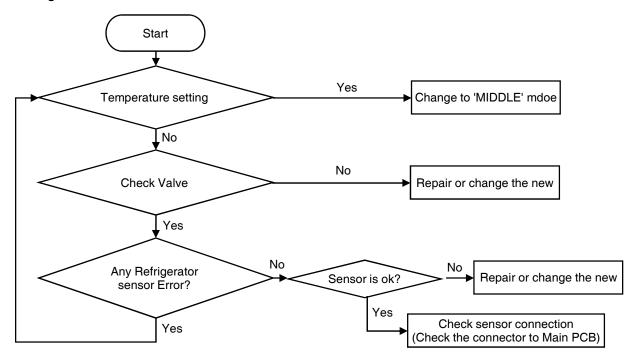
6. Dews on Refrigerator Compartment



5. Refrigeration failure (Foods does not get cool or cold soon)



7. Cold of Vegetable Case



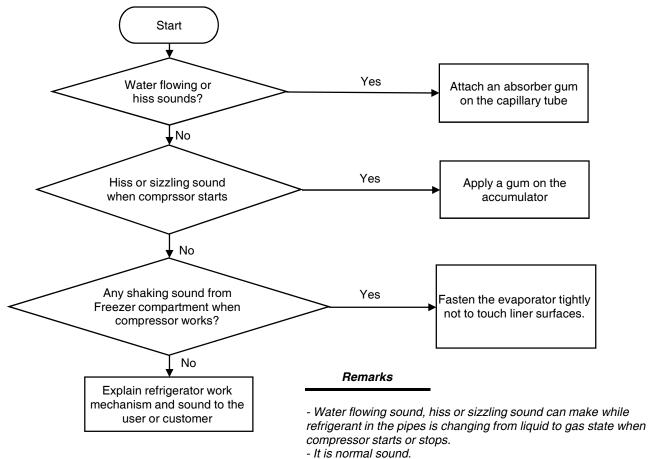
Remark

⁻ Compressor sound is somewhat normal because it works like a heart to circulate the refrigerant in the pipes.

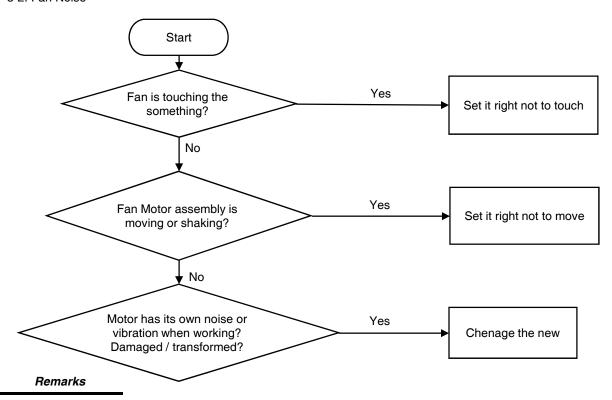
⁻ Rattling or metalic touch sound of motor, piston of compressor can be heard when it starts or stops.

8. Operation Noise of Refrigerator

8-1. Refrigerant Flow Sound

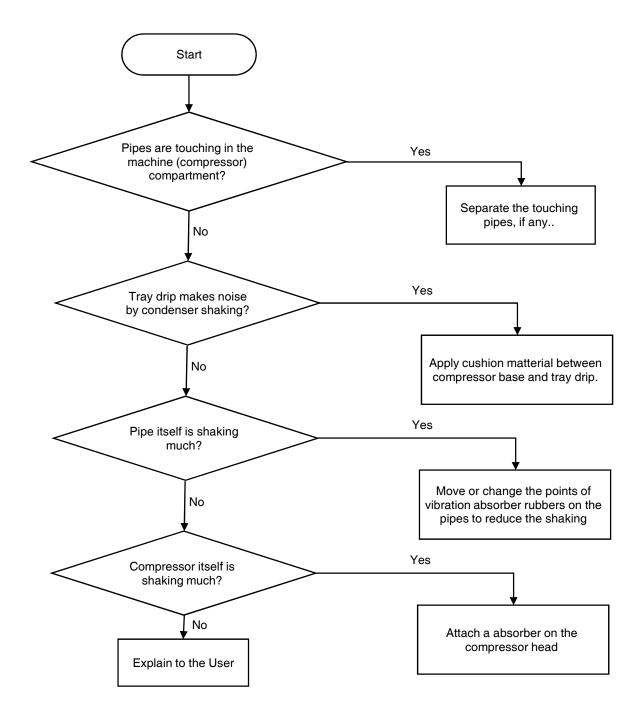


8-2. Fan Noise



- The fan is sending out cold air to circulate each corner of the compartsment.
- When the air is touching the surface of louver or liner wall, sugh sound can make.

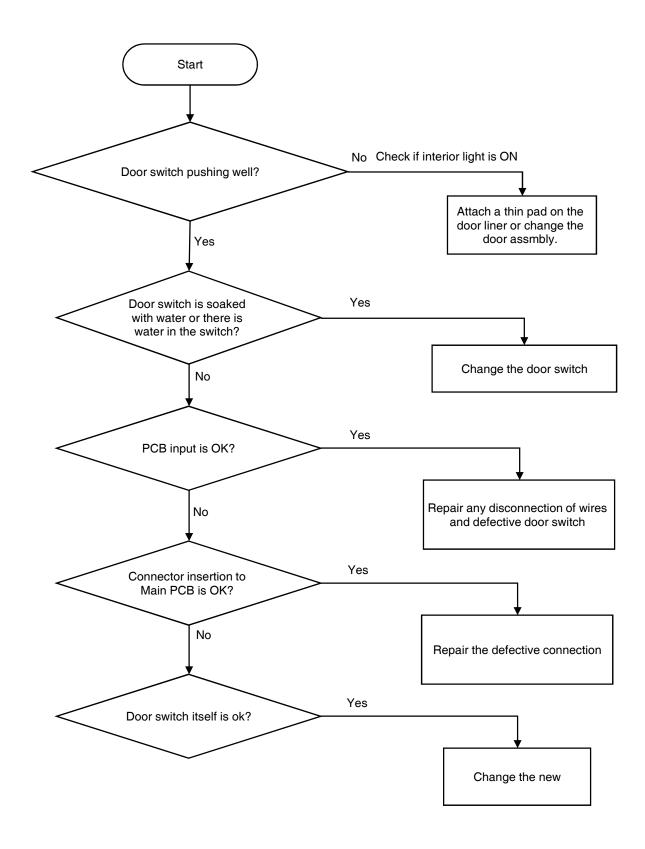
8-3. Pipe Noise



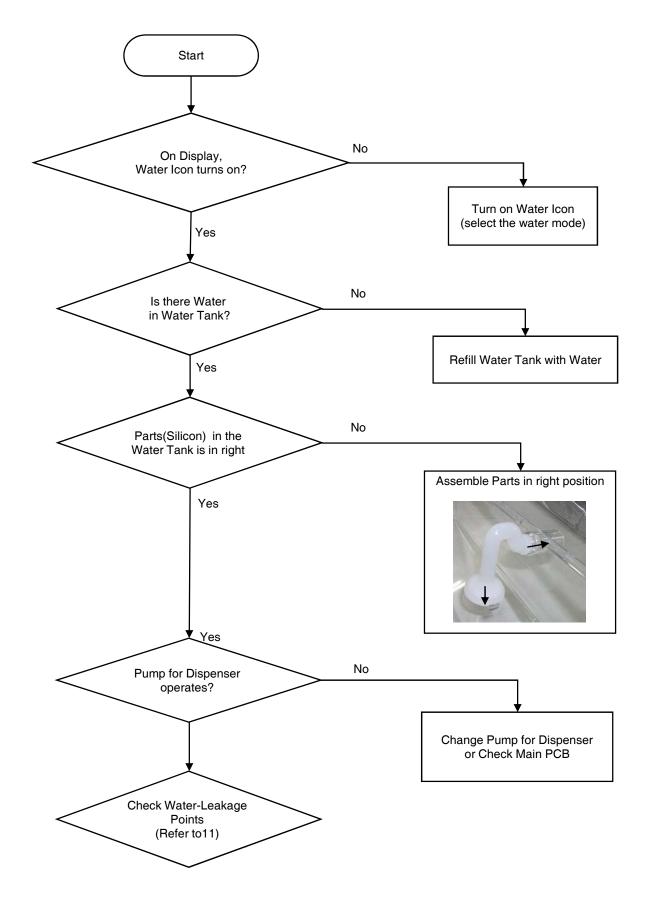
Remarks

- Refrigerant is erupting rapidly from the compressor to circulate pipes, so pipe shaking noise can make to some degree.
- In case compressor vibration is sent to a pipe directly, apply vibration absorber rubbers to welding pionts of pipepe and compressor or to a much bent piont on the pipe.

9. Door opening alarm continues after closing



10. Dispenser (Water Supply) Operation



11. Dispenser (Water Supply) Water-Leakage Points

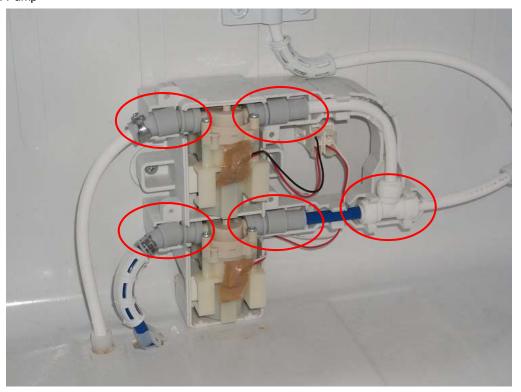
- Freshefood Compartment
 - 1. Water tank Guide





Front Image Back Image

2. Pump



- Compressor Compartment



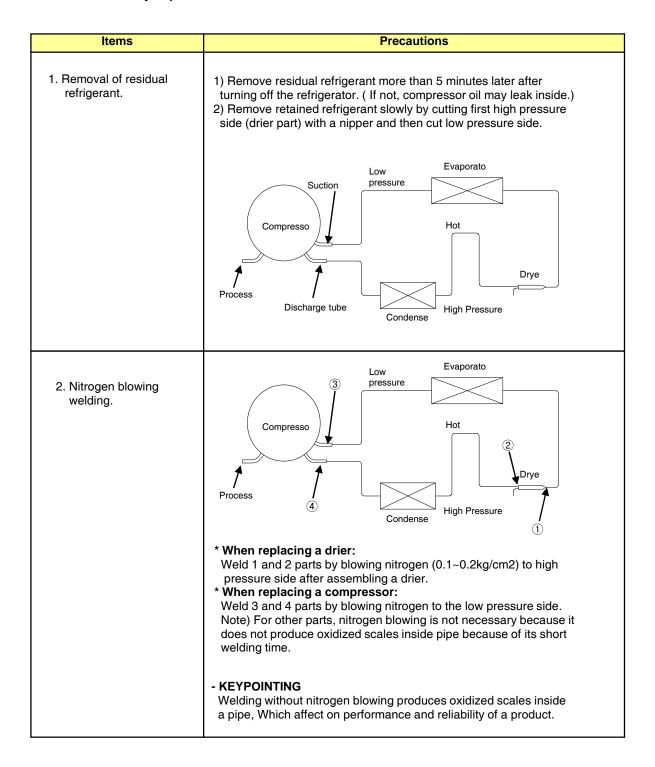
1. Summary of Heavy Repair

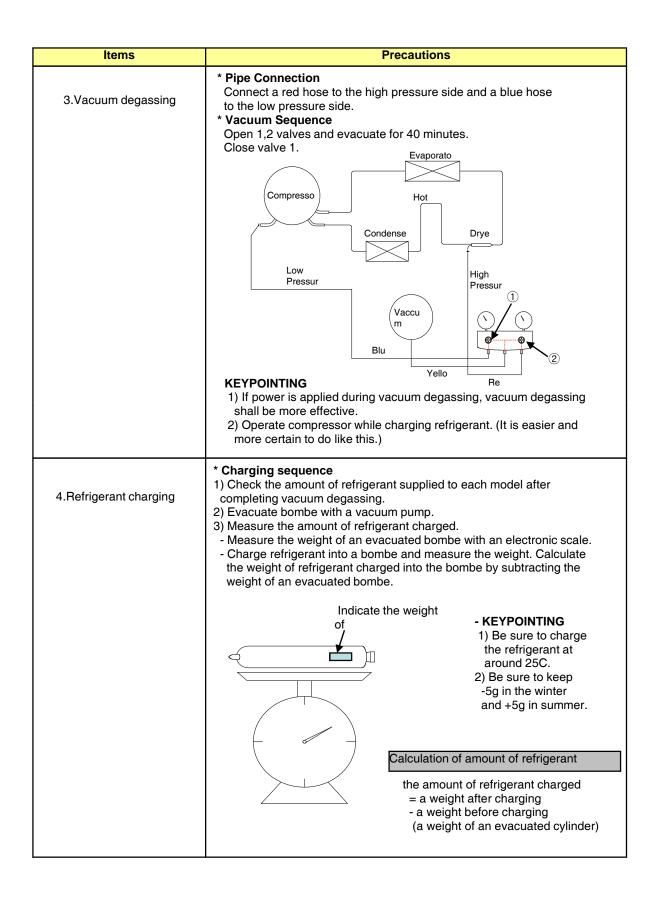
Process	Contents	Tools
Remove refrigerant Residuals	Cut charging pipe ends (Comp. & Dryer) and discharge refrigerant from drier and compressor.	Nipper, side cutters
Parts replacement and welding	Confirm refrigerant (R-134a or R-600a) and oil for compressor and drier. Confirm N2 sealing and packing conditions before use. Use good one for welding and assembly. Weld under nitrogen gas atmosphere. Repair in a clean and dry place.	Pipe Cutter, Gas welder, N2 gas
Vacuum	Evacuate for more than forty minutes after connecting manifold gauge hose and vacuum pump to high (drier) and low (compressor) pressure sides.	Vacuum pump , Manifold gauge.
Refrigerant charging and charging inlet welding	Weigh and control the bombe in a vacuum conditions with electronic scales and charge through compressor inlet (Process tube). Charge while refrigerator operates). Weld carefully after inlet pinching.	Bombe (mass cylinder), refrigerant manifold gauge, electronic scales, punching off flier, gas welding machine
Check refrigerant leak and cooling capacity	Check leak at weld joints. Note :Do not use soapy water for check. Check cooling capacity - Check condenser manually to see if warm Check hot pipe manually to see if warm Check frost formation on the whole surface of the evaporator.	Electronic Leak Detector, Driver.
Compressor compartment and tools arrangement	Remove flux from the silver weld joints with soft brusher wet rag. (Flux may be the cause of corrosion and leaks.) Clean tools and store them in a clean tool box or in their place.	Copper brush, Rag, Tool box
Transportation and installation	Installation should be conducted in accordance with the standard installation procedure. (Leave space of more than 5 cm from the wall for compressor compartment cooling fan mounted model.)	

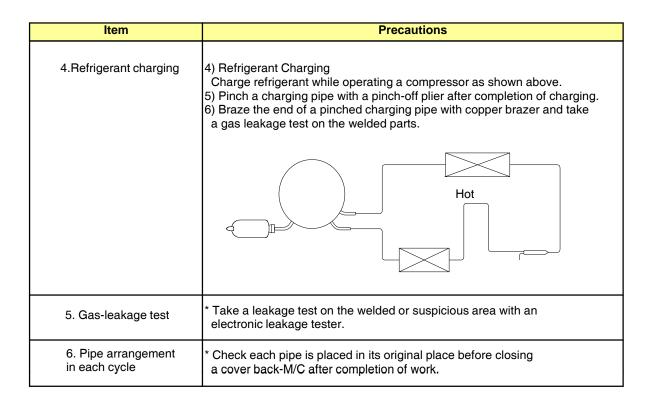
2. Precautions During Heavy Repair

Items	Precautions
Use of tools.	- Use special parts and tools for R-134a or R-600a.
Removal of retained refrigerant.	1) Remove retained refrigerant more than 5 minutes after turning off a refrigerator. (If not, oil will leak inside.) 2) Remove retained refrigerant by cutting first high pressure side (drier part) with a nipper and then cut low pressure side. (If the order is not observed, oil leak will happen.)
	Suction Pressure Compresso Hot Process Discharge tube Condense Drye Condense
Replacement of drier.	- Be sure to replace drier when repairing pipes and injecting refrigerant.
Nitrogen blowing welding.	- Weld under nitrogen atmosphere in order to prevent oxidation inside a pipe. (Nitrogen pressure : 0.1~0.2 kg/cm2.)
Others.	 Nitrogen only should be used when cleaning inside of cycle pipes inside and sealing. Check leakage with an electronic leakage tester. Be sure to use a pipe cutter when cutting pipes. Be careful not the water let intrude into the inside of the cycle.

3. Practical Work for Heavy Repair



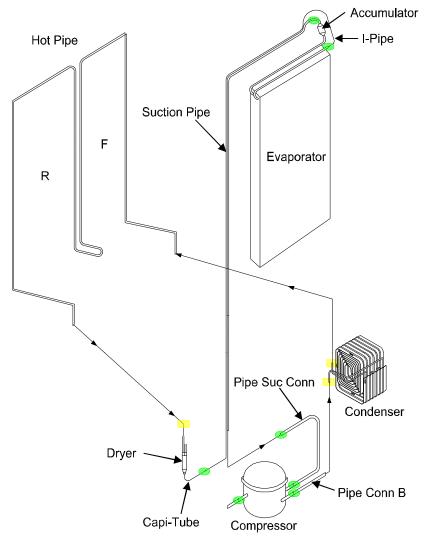




< Standard Regulations for Heavy Repair >

- 1) Observe the safety precautions for gas handling.
- 2) Use JIG (or wet towel) in order to prevent electric wires from burning during welding. (In order to prevent insulation break and accident.)
- 3) The inner case shall be melted and insulation material (polyurethane) shall be burnt if not cared during welding inner case parts.
- 4) The copper pipe shall be oxidized by overheating if not cared during welding.
- 5) Not allow the aluminum pipes to contact to copper pipes. (In order to prevent corrosion.)
- 6) Make sure that the inner diameter should not be distorted while cutting a capillary tube.
- 7) Be sure that a suction pipe and a filling tube should not be substituted each other during welding. (High efficiency pump.)

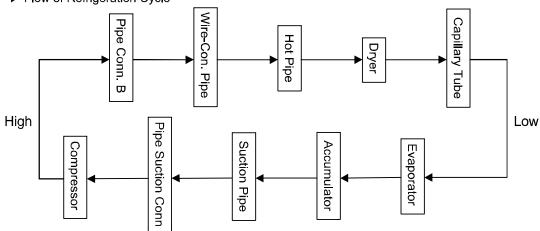
Brzing Reference Drawings

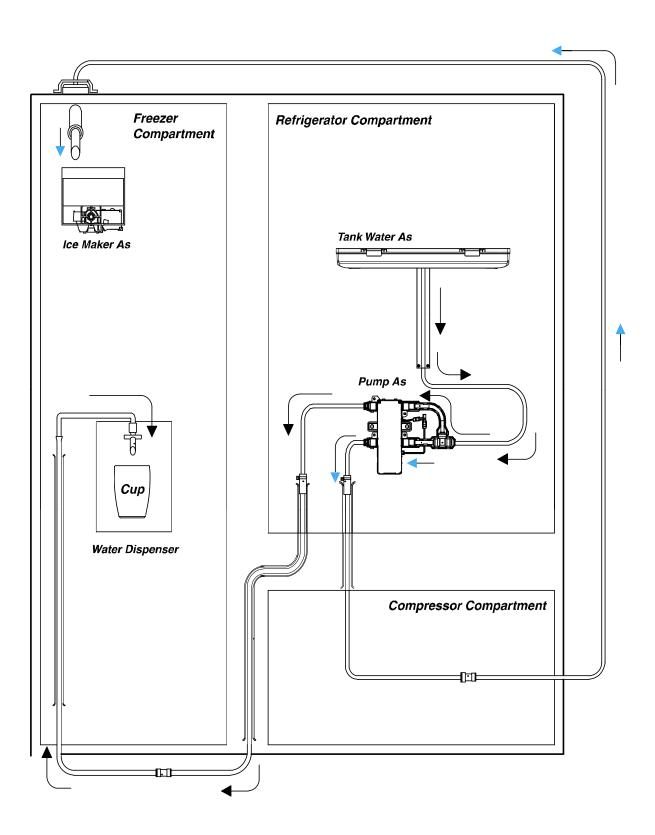


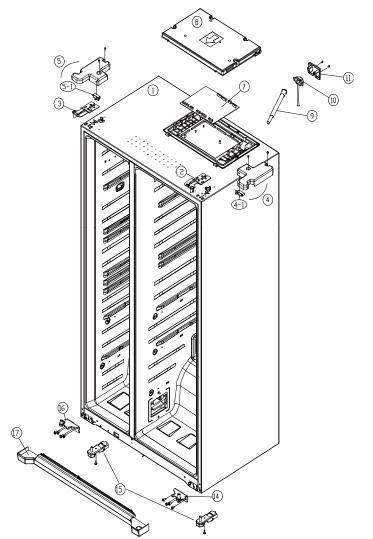
▶ Welding Point

•	Copper Welding (Ag 5%)	7 Points
	Silver Welding (Ag 35%)	3 Points

▶ Flow of Refrigeration Cycle

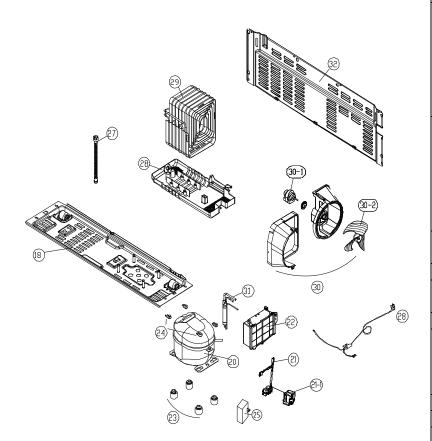






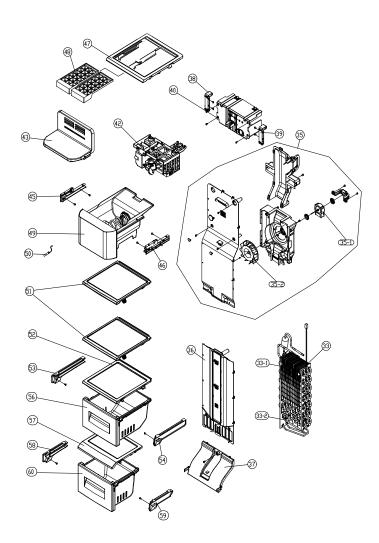
.,	2 1 2 1				Q'ty	
No	Part Code	Part Name	Description	Basic	DISP.	DISP.+H/BAR
1	1	ASSY CAB URT	-	1	1	1
2	3012933100	HINGE *T *R	PO T3.0+PAINT	1	1	1
3	3012933000	HINGE *T *L	PO T3.0+PAINT	1	1	1
4	3001436800	COVER HI *T *R AS	FRX-621B	1	1	1
4-1	3018125601	SWITCH H/BAR DR AS	SP101B-2D1(G) GRAY	1	1	1
5	3001436700	COVER HI *T *L AS	FRX-621B	1	1	1
5-1	3018125601	SWITCH H/BAR DR AS	SP101B-2D1(G) GRAY	1	1	1
	30143HR070		Basic	1	Χ	Χ
	30143KV070		DISP.(None Inverter Comp.)	Χ	1	X
7	30143KV090	PCB MAIN AS	DISP.(Inverter Comp.)	<i>A</i>	,	Α
	30143KV060		DISP.+H/BAR(None Inverter Comp.)	Х	X	1
	30143KV080		DISP.+H/BAR(Inverter Comp.)	Α	^	1
8	3011446001	COVER M/PCB BOX	PP(FB-72)	1	1	1
9	3013226800	HOSE ICE MAKER TUBE AS	220~240V/5W	Χ	1	1
9	3013226810	HOSE ICE WAKER TOBE AS	110~127V/5W	Λ	,	1
10	3012540200	GUIDE CAB W/TUBE A AS	X22 MODEL	Χ	1	1
11	3011444100	COVER GUIDE CAB W/T A	PP	Χ	1	1
14	3012933500	HINGE *U *R AS		1	1	1
15	3010673800	BRACKET ADJ FOOT AS		2	2	2
16	3012933400	HINGE *U *L AS		1	1	1
17	3001440200	COVER CAB BRKT AS	FRX-621B	1	1	1

No	Date	Note



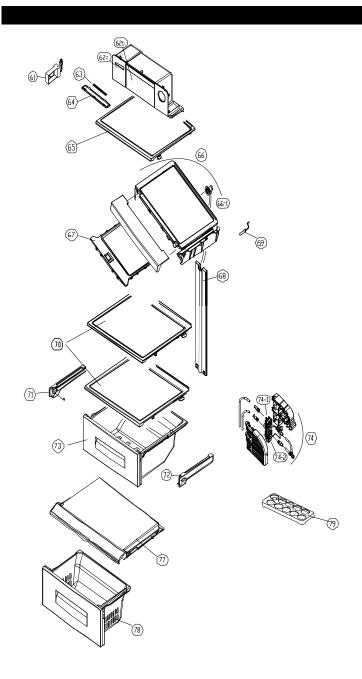
No	Part Code	Part Name	Description	Q'ty
18	3010359600	BASE COMP AS	-	1
19	OPTION	CORD POWER AS	country dependent	1
	3956180910		EGX80HLC (115-127V/60Hz)	
	3956183Н4В		MK183H-L2UB(220V/60HZ)	
	3956183D2B		MK183D-L2UB(110~127V)	
20	3956183Q5B	COMPRESSOR	MK183Q-L2UB(220~240V/50Hz	1
	3956112250		DG125E11RAW5(220~240V/50	
	3956114M80		LQ140NAEM(220~240V/50Hz)	
	3959115280		EU4A5Q-L2X, Inverter Comp.	
	3018132600	SWITCH P TSD AS	4TM445KFB(EGX80HLC)	1
	3018129720		265RFB, J531Q34E220M(MK18	
	3018129710		445PHB, J531Q32E6R8M(MK18	
21	3018129600	SWITCH P RELAY AS	265RHB, J531Q35E330M(MK18	1
	3018129650	SWIICH P KELAY AS	232NFB, PTH7M330MD2(DG12	1
	3018133900		4TM205RFB, 330M(LQ140NAEI	
	3018133800		4TM319SFB(EU4A5Q), Inverter	
21-1	3811402510	COVED DELAY	MQ98(LOPOX PTJULM54) LG (1
21-1	3011402100	COVER RELAY 1 DS3-3NORYL S/S Comp.	1	
22	3814300300	BOX INVERTER AS	PP(EU4A5Q Only), Inverter Co	1
23	3010101600	ABSORBER COMP	NBR	4
23	3010101480	ABSORBER COMP AS	NBR+SPRING	4
24	3016002500	COMP WASHER	SK-5 TO.8	4
	3016405700		250VAC/12 µF (WIRE,P2)	
25	3016406100	CAPACITOR RUN	400VAC/5 µF (WIRE,P2)	1
25	3016405900	CAPACITOR RUIV	350VAC/5 µF (WIRE, P2)	1
	3016405020		250VAC/12 µF (WIRE,P2)	
27	3013201700	HOSE DRN B	PE FRB-5970NB	1
28	3011199L00	CASE VAPORI AS	FRX-621B	1
29	3014467200	PIPE WICON AS	TWS OD4.76*T0.7	1
30	3018410500	MOUTHBELL AS	FRX-621B	1
30-1	3015920900	MOTER C FAN	D4612AAA31	1
30-2	3011836300	FAN	PP OD3.17*D150	1
31	3019808100	DRYER AS	C1220T-M OD19.05*L135	1
32	3001436500	COVER MACH RM AS		1

⁻ Some parts can be chaged for improving their perfomance without notice.



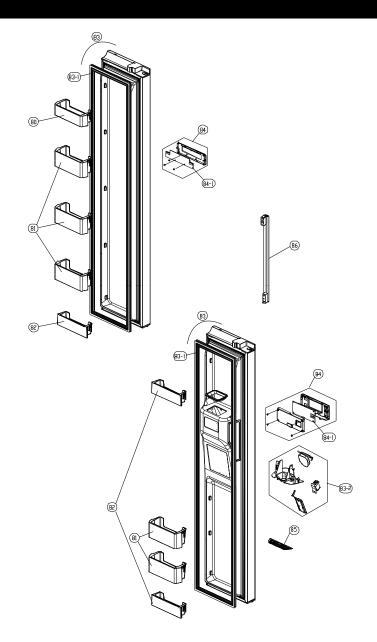
NO PART-CC	DADT 0005	DARTMANE	0050		Q'ty
NO	PART-CODE	PART NAME	SPEC.	Basic Model	Dispenser Model
	3017068900	E1/4.40	220-240V, 280W		
33	3017068910	EVA AS	110-127V, 250W	1	1
33-1	3014809500	SENSOR D AS	PBN-43	1	1
33-2	3012824210	HEATER SHEATH AS	220-240V, 280W	1	1
33-2	3012824220	HEATEN SHEATH AS	110-127V, 250W	7 ′	,
35	3018928600	LOUVER F A AS	FRY-621B	1	1
35-1	3015920700	MOTOR F FAN AS		1	1
35-2	3011836400	FAN F		1	1
36	3018928900	LOUVER F B AS	FRY-621B	1	1
37	3001434700	COVER F RETURN	HIPS	1	1
38	3012517800	GUIDE G MOTR BRKT*L	ABS		
39	3012517900	GUIDE G MOTR BRKT*R	ABS		
	3010673600		FRX-601D, 220-240V/50Hz		
40	3010673620	BRACKET GEARED MOTR AS	FRX-601D, 220-240V/60Hz		
	3010673610		FRX-601D, 110-127V	x	1
42	3012231400	FRAME I/MAKER AS	FRX-601D		
43	3001435000	COVER I/CRUSHER*T	HIPS		
45	3012538200	GUIDE I/CRUSHER *L	ABS		
46	3012538100	GUIDE I/CRUSHER *R	ABS		
47	3017851700	SHELF F ICE AS	FRX-621B	1	Х
48	3011186300	CASE ICING	PP	2	Х
49	3011199K00	CASE I/CRUSHER AS	FRX-601D	X	1
50	3014809300	SENSOR F AS	PT-38	1	1
51	3017851200	SHELF F AS		2	2
52	3001438000	COVER F CASE*T AS		1	1
53	3012514512	GUIDE CASE A *L AS	FR-S580EG(PP)	1	1
54	3012514612	GIDUE CASE A *R AS	FR-S580EG(PP)	1	1
56	3011124000	CASE F*T AS		1	1
57	3001434500	COVER F CASE *U	HIPS	1	1
58	3012529712	GUIDE CASE C *L AS	FRU-571I(PP)	1	1
59	3012529812	GUIDE CASE C *R AS	FRU-571I(PP)	1	1
60	3011124100	CASE F*U AS	FRX-621B	1	1

⁻ Some parts can be chaged for improving their perfomance without notice.



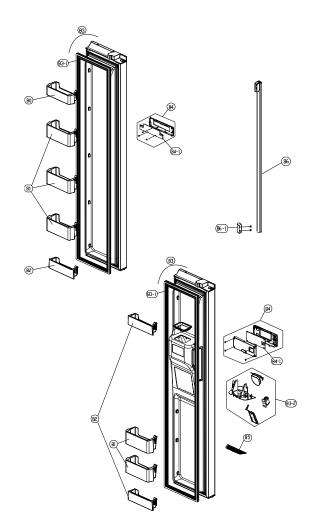
NO	DADI CODE	DARTMANA	CDEC	(Q'ty
NO	PART-CODE	PART NAME	SPEC.	Basic Model	Dispenser Model
61	3016767100	DAMPER AS	DU24-013	1	1
62a	3001436900	COVER DAMPER AS	FRX-621B	1	1
62b	3015517000	WINDOW COVR DAMP	GPPS	1	1
63	30143HJ220	PCB REF LED AS	9-LED FR-4 230X20-1.61	1	1
64	3015517100	WINDOW R LED *T	ABS	1	1
65	3017851300	SHELF R AS	FRX-621B	1	1
66	3017858300	SHELF W/TANK TOTAL AS	FPX-602	Χ	1
66-1	3012544900	GUIDE W/TANK CASE	FPX-602,SILICON	Χ	1
67	3018202700	TANK WATER TOTAL AS	FPX-602	Χ	1
68	301149AX00	COVER W/TUBE	HIPS	Χ	1
69	3014809400	SENSOR R AS	PBN-43B	1	1
70	3001437200	COVER VEGETB CASE AS	PP+GLASS	2	2
71	3012514512	GUIDE CASE A *L AS	FR-S580EG(PP)	1	1
72	3012514612	GIDUE CASE A *R AS	FR-S580EG(PP)	1	1
73	3011199P00	CASE VEGETB *M AS	FRX-621B	1	1
74	3010580800	BOX W/PUMP AS	FPX-602	Χ	1
74-1	3018450000	PUMP DISPENSER AS	DC12V, SANKYO	Χ	1
74-2	3018450100	PUMP I/MAKER AS	DC12V, SANKYO	Χ	1
77	3001438100	COVER CHANGE RM AS	FRX-621B	1	1
78	3011124200	CASE VEGETB *U AS	FRX-621B	1	1
79	3011190800	CASE EGG TRAY	GPPS(CRYSTAL)	1	1

No	Date	Note



NO	DART CODE	RT-CODE PART NAME	SPEC.	Q'i	iy .
NO	PART-CODE	PART NAME	SPEC.	Basic	Dispn.
80	3019058000	POCKET F*T	GPPS	1	Х
81	3019057900	POCKET F*M	GPPS	3	2
82	3019058100	POCKET F*U	GPPS	1	2
	30100A4HA0		FRX-623B(BLH6L)		
	30100AHB0	ASSY F DR	FRX-623B(TSH5L)	1	x
83	30100A4H60	(Basic Model)	FRX-623B(TSH5E)		^
	30100A4H70		FRX-623B(DWH1C)		
	30100B7200	ASSY F DR (Dispenser , Dispenser+H/bar Model)	FRX-603D(TSH5E)	x	1
	30100B7210		FRX-603D(DWH1C)		
	30100B7220		FRX-603D(BLH6P)		
	30100B7230		FRX-603D(DWH1C)		
	30100B72E0		FRX-603D(BLH6L)		
83-1	3012318860	GASKET F DR AS	FRX-621B	1	1
83-2	3010574300	BOX DISPNS I/SHUT AS	220-240V/50Hz	_ x	1
00-2	3010574310	BOX DISI NO VOITOT AS	110-127V/60Hz	^	'
84	3014250900	COVER F PCB AS	FRX-623	1	х
04	3014250700	PANEL *F CONTL AS	FRX-603	х	1
84-1	30143JP160	PCB FRONT AS	FRX-623	1	х
04-1	30143JM160	I OD I HOIVI AG	FRX-603	х	1
85	3012407800	GRILLE DISPS	ABS	х	1
86	3012657810	HANDLE F DR AS	FRX-603F,SPRAY	1	1

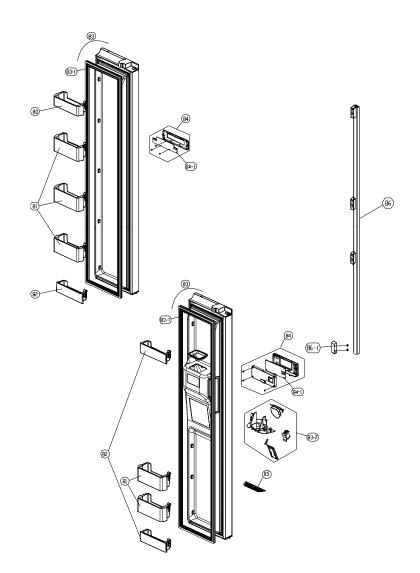
No	Date	Note



NO	PART-CODE	PART NAME	SPEC.	Q)'ty
NO	PART-CODE	PART NAME		Basic	Dispn.
80	3019058000	POCKET F*T	GPPS	1	Х
81	3019057900	POCKET F*M	GPPS	3	2
82	3019058100	POCKET F*U	GPPS	1	2
	30100A4H00		FRX-621B,TSH5E		
	30100A4H10		FRX-621B,TSH5L		
	30100A4H20	ASSY F DR	FRX-621B,MWH4L	1	
	30100A4H40	(Basic Model)	FRX-621B,SUG7E	1	х
	30100A4H50		FRX-621B,BLH6P		
83	30100A4H90		FRX-621B,DWH1C		
	30100A4J00		FRX-601D,TSH5E		1
	30100A4J10	ASSY F DR	FRX-601D,TSH5L		
	30100A4J20	(Dispenser ,	FRX-601D,MWH4L	X	
	30100A4J40		FRX-601D,SUG7E		
	30100A4J50		FRX-601D,BLH6P		
83-1	3012318860	GASKET F DR AS	FRX-621B	1	1
83-2	3010574300	BOX DISPNS I/SHUT AS	220-240V/50Hz		1
83-2	3010574310	BUX DISPNS I/SHUT AS	110-127V/60Hz	X	
84	3014250900	COVER F PCB AS	FRX-623	1	х
04	3014250700	PANEL *F CONTL AS	FRX-603	х	1
84-1	30143JP160	DOD FDONT AC	FRX-623	1	х
84-1	30143JM160	PCB FRONT AS	FRX-603	Х	1
85	3012407800	GRILLE DISPS	ABS	Х	1
86	3012653700	HANDLE F DR AS	FRX-621B	1	1
86-1	3015320100	SUPPORTER F HN DL*U	ABS	1	1

⁻ Some parts can be chaged for improving their perfomance without notice.

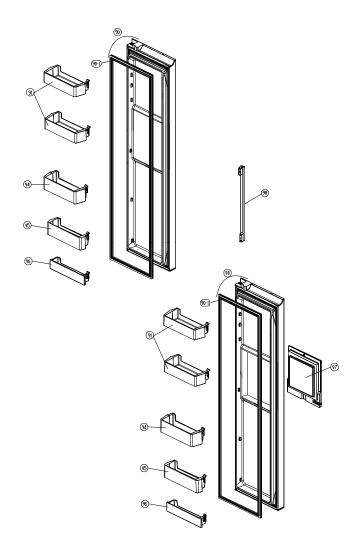
No	Date	Note	Remark	Remark



NO	DART CODE	DARTNAME	0050	C	Q'ty
NO	PART-CODE	PART NAME	SPEC.	Basic	Dispn.
80	3019058000	POCKET F*T	GPPS	1	X
81	3019057900	POCKET F*M	GPPS	3	2
82	3019058100	POCKET F*U	GPPS	1	2
	30100A5H00		FRX-621B,TSH5E		
	30100A5H10		FRX-621B,TSH5L		
	30100A5H20	ASSY F DR (Basic Model)	FRX-621B,MWH4L	1	X
	30100A5H40	(====,	FRX-621B,SUG7E		
83	30100A5H50		FRX-621B,BLH6P		
03	30100A5J00		FRX-602D,TSH5E		
	30100A5J10	ASSY F DR	FRX-602D,TSH5L	x	1
	30100A5J20	(Dispenser,	FRX-602D,MWH4L		
	30100A5J40	Dispenser+H/bar Model)	FRX-602D,SUG7E		
	30100A5J50		FRX-602D,BLH6P		
	30100A5JA0		FRX-602D,BLH6L		
83-1	3012318860	GASKET F DR AS	FRX-621B	1	1
83-2	3010574300	BOX DISPNS I/SHUT AS	220-240V/50Hz	v	1
03-2	3010574310	BOX DISFINS I/SHUT AS	110-127V/60Hz	х	,
84	3014250900	COVER F PCB AS	FRX-623	1	х
04	3014250700	PANEL *F CONTL AS	FRX-603	х	1
84-1	30143JP160	PCB FRONT AS	FRX-623	1	х
04-1	30143JM160	FUB FNUNT AS	FRX-603	х	1
85	3012407800	GRILLE DISPS	ABS	х	1
86	3012653710	HANDLE F DR AS	FRX-622B	1	1
86-1	3015320100	SUPPORTER F HN DL*U	ABS	1	1

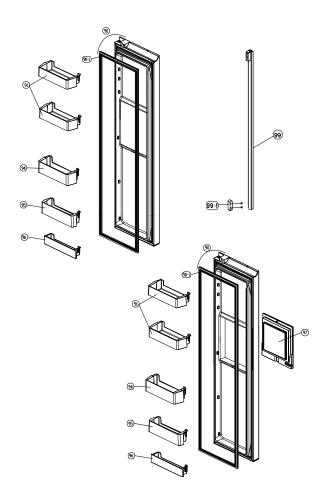
⁻ Some parts can be chaged for improving their perfomance without notice.

No	Date	Note	Remark



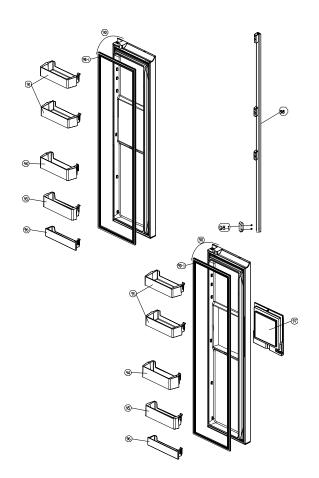
NO	DART CODE	DADTNAME	SPEC.	Q'ty	
NO	PART-CODE	PART NAME		Non H/Bar Door	H/Bar Door
	30100B77F0		FRX-603D,TSH5L		
	30100B77E0	ASSY R DR	FRX-603D,BLH6L		
	30100B7700	(Basic Model , Dispenser	FRX-603D,TSH5E	1	x
90	30100B7710	Model)	FRX-603D,DWH1C		
90	30100B7720	1	FRX-603D,BLH6L		
	30100B7300		FRX-603G,TSH5E	х	
	30100B7310	ASSY R DR (H/bar Model)	FRX-603G,DWH1C		1
	30100B7320		FRX-603G,BLH6P		
	30100B73D0	1	FRX-603G,BLH6L		
90-1	3012318960	GASKET R DR AS	PVC+MAGNET	1	1
91	3019058420	POCKET R*T	GPPS	2	2
94	3019058600	POCKET R H/BAR	GPPS	1	1
95	3019058300	POCKET R*M	GPPS	1	1
96	3010058500	POCKET R*U	GPPS	1	1
97	3001707720	DOOR H/BAR AS	TITANIUM	X	1
9/	3001707730	DOON N/DAN A3	WHITE		'
98	3012657910	HANDLE R DR AS	FRX-603F,SPRAY	1	1

No	Date	Note	Remark



NO	PART-CODE	PART NAME	SPEC.	Q	'ty
NO	PART-CODE	FANT NAME	SPEC.	Non H/Bar Door	H/Bar Door
	30100A4K00		FRX-621B,TSH5E		
	30100A4K10		FRX-621B,TSH5L		
	30100A4K20	ASSY R DR (Basic Model ,	FRX-621B,MWH4L	1	x
	30100A4K40	Dispenser Model)	FRX-621B,TSH5E		*
90	30100A4K50	oce,	FRX-621B,BLH6P		
	30100A4K80		FRX-621B,DWH1C		
	30100A4L00		FRX-601F,TSH5E		1
	30100A4L10	ASSY R DR (H/bar Model)	FRX-601F,TSH5L	x	
	30100A4L20		FRX-601F,MWH4L		
	30100A4L40		FRX-601F,TSH5E		
	30100A4L50		FRX-601F,BLH6P		
90-1	3012318960	GASKET R DR AS	PVC+MAGNET	1	1
91	3019058420	POCKET R*T	GPPS	2	2
94	3019058600	POCKET R H/BAR	GPPS	1	1
95	3019058300	POCKET R*M	GPPS	1	1
96	3010058500	POCKET R*U	GPPS	1	1
97	3001707720	DOOR H/BAR AS	TITANIUM	X	1
37	3001707730 WHITE	WHITE	^	1	
99	3012653600	HANDLE R DR AS	FRX-621B	1	1
99-1	3015319700	SUPPORTER R HN DL	ABS	1	1

No	Date	Note	Remark



NO	DART CODE	DARTNAME	SPEC.	Q ^t	ty
NO	PART-CODE	PART NAME	SPEC.	Non H/Bar Door	H/Bar Door
	30100A5K00		FRX-622B,TSH5E		
	30100A5K10		FRX-622B,TSH5L		
	30100A5K20	ASSY R DR (Basic Model , Dispenser	FRX-622B,MWH4L	1	v
	30100A5K40	Model)	FRX-622B,SUG7E	7	х
90	30100A5K50		FRX-622B,BLH6P		
	30100A5KB0		FRX-622B,BLH6L		
	30100A5L00		FRX-602F,TSH5E		1
	30100A5L10	ASSY R DR (H/bar Model)	FRX-602F,TSH5L		
	30100A5L20		FRX-602F,MWH4L	x	
	30100A5L40		FRX-602F,SUG7E]	
	30100A5L50		FRX-602F,BLH6P		
90-1	3012318960	GASKET R DR AS	PVC+MAGNET	1	1
91	3019058420	POCKET R*T	GPPS	2	2
94	3019058600	POCKET R H/BAR	GPPS	1	1
95	3019058300	POCKET R*M	GPPS	1	1
96	3010058500	POCKET R*U	GPPS	1	1
97	3001707720	DOOR H/BAR AS	TITANIUM	Х	1
97	3001707730	DOON N/DAN AS	WHITE	¬	1
98	3012653610	HANDLE R DR AS	FRX-622B	1	1
98-1	3015319700	SUPPORTER R HN DL*U	ABS	1	1

No	Date	Note	Remark