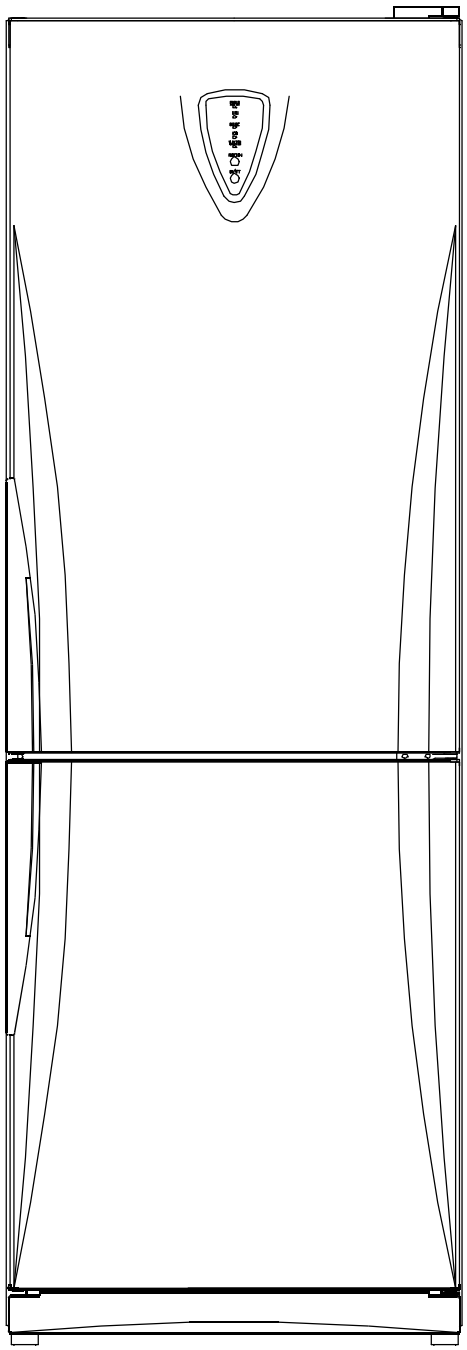
DAEWOO ELECTRONICS

Service Manual
No-Frost
Combi-Refrigerator

Model:

ERF-366A



DAEWOO ELECTRONICS
MANUFACTURING ESPAÑA, S.A.

. CONTENTS

1. SPECIFICATIONS

Model name		366A					
Division		Full A					
Refrigerant type		R-134A					
Refrigerant Q´ty		100 grs					
Blowing agent		C-PENTANE					
Cooling system		Fan cooling system					
Defrost system		Automatic start & Automatic stop system					
Compressor		Sanyo CBE-140L5Z					
Rated voltage		AC220~240V / 50Hz					
Rated input (A)		0.42A					
Lamp rated input (W)		15					
Gross capacity (liter)	Freezer	94					
	Refrigerator	218					
	Total	312					
External dimension (mm)	Height	1765					
	Width	600					
	Depth *	642					
Energy class		A					
Freezing capacity(kg/24h)		5					
Star rating		* ***					
Climate class		N					
Net weight (kg)		70					

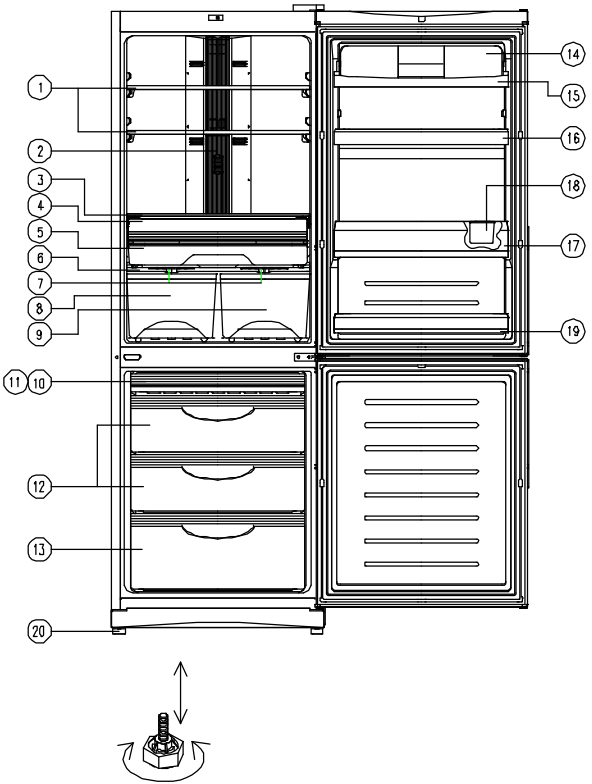
REMARKS:

* Depth exception handle

***** Division: Full A = Full automatic

1.2. Types of the approved safety standars

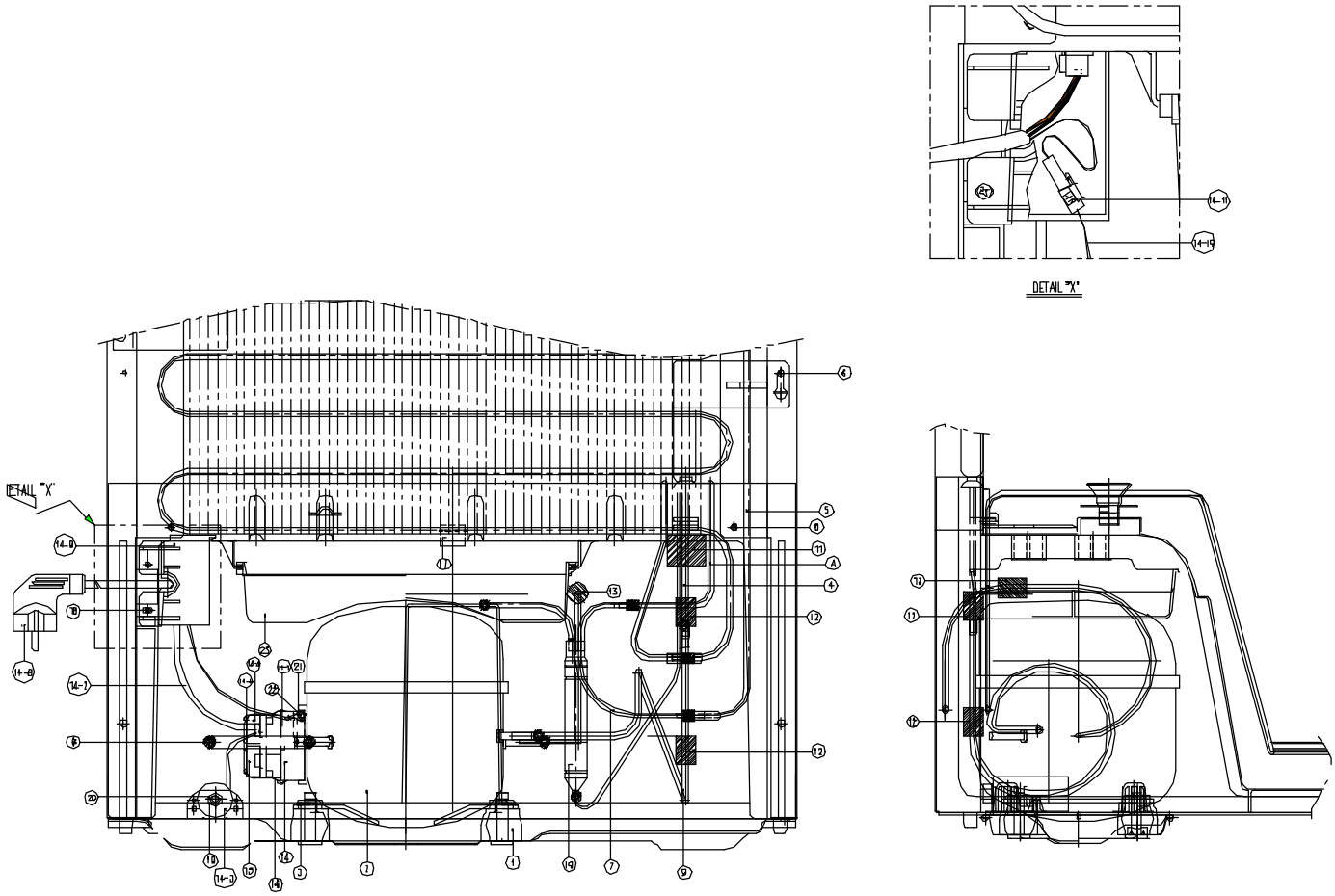
2. EXTERNAL DRAWINGS



1. Shelves (ERF-366 A : 2EA)
2. Multi duct
3. Shelf of low temp compartment
4. Door of low temp compartment
5. Low temp compartment
6. Cover vegetable
7. Knob humidity
8. Vegetable case "L"
9. Vegetable case "R"
10. Case f "D"
11. Case icing (In "case f d")
12. Case f "B" (2EA)
13. Case f "A"
14. Cover dairy
15. Dairy pocket
16. Pocket "R"
17. Bottle pocket
18. Guide bottle pocket
19. Multi pocket
20. Adjustable foot

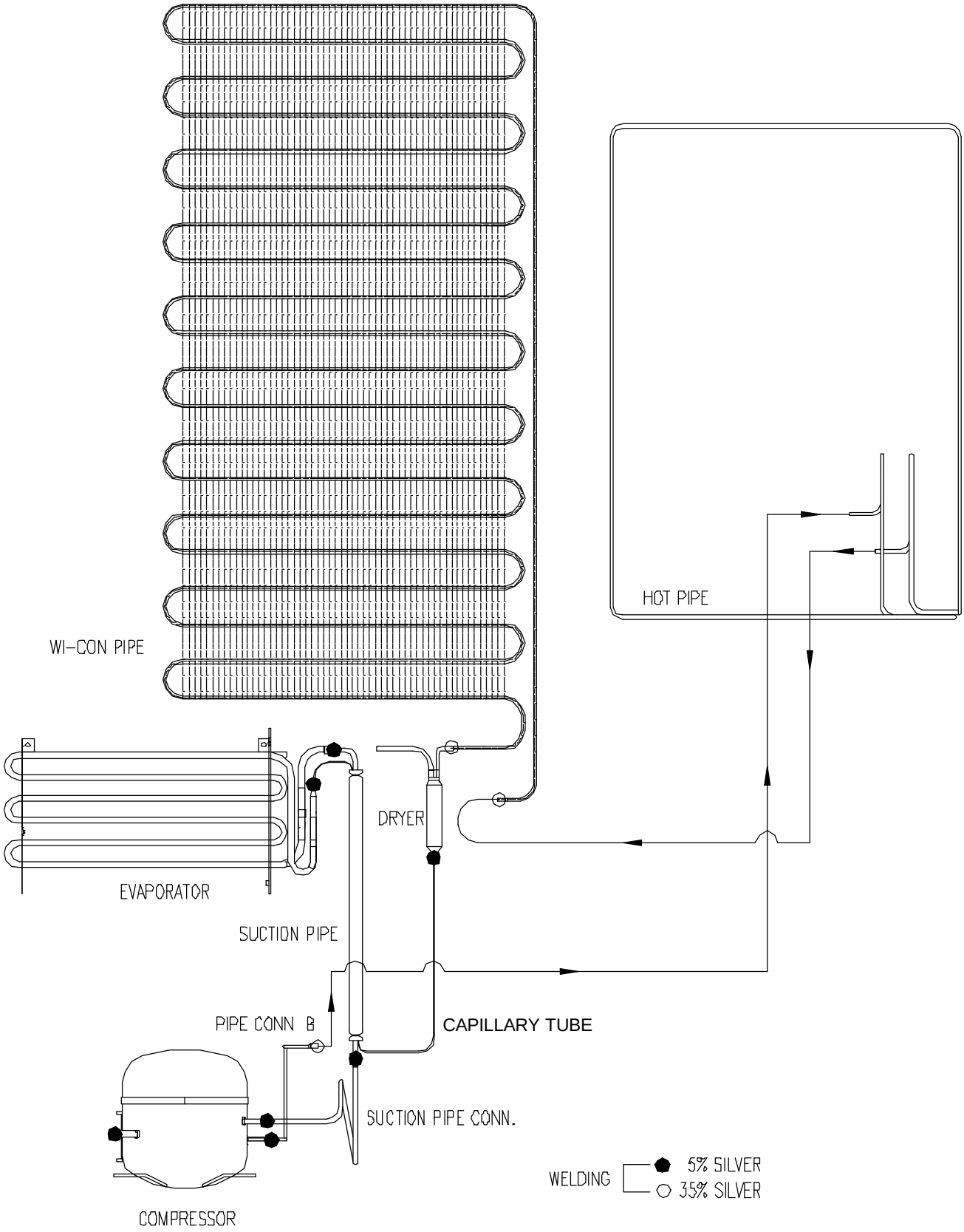
3. REAL VIEW

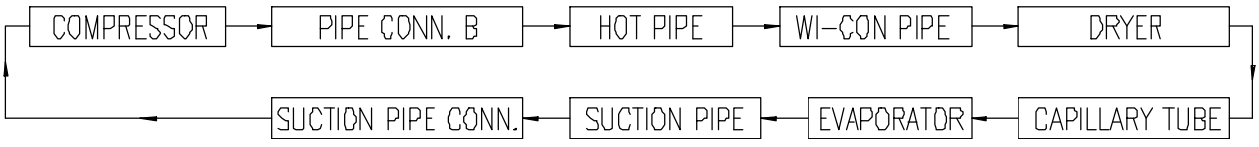
4. MACHINE ROOM VIEW



No.	PART NAME	No.	PART NAME	No	PART NAME
A	PIPE HOT	14	BOX RELAY AS	17	CAP DRAINER
1	ABSORBER COMP	14-1	BOX RELAY	18	SCREW TAPPING
2	COMPRESSOR	14-2	HARNESS RELAY	19	SPECIAL WASHER R/C
3	FIXTURE COMP	14-3	CAPACITOR RUN AS	20	SPECIAL NUT R/C
4	EVAPORATOR AS	14-4	CABLE CLAMP	21	SPECIAL WASHER
5	PIPE WI-CON AS	14-5	SCREW TAPPING	22	SCREW MACHINE
6	SPECIAL SCREW E	14-6	SWITCH P RELAY PTC	23	CASE VAPORI
7	PIPE CONN B	14-7	SWITCH P RELAY OL		
8	PIPE CHARGE	14-8	CODE POWER AS		
9	PIPE SUC. CONN	14-9	COVER ME HOUSING		
10	DRYER AS	14-10	HARNESS EARTH		
11	ABSORBER PIPE B (GUM)	14-11	LABEL EARTH		
12	ABSORBER PIPE C	15	RELAY COVER		
13	ABSORBER PIPE C	16	BAND RELAY		

5. REFRIGERANT CYCLE





6. TEMPERATURES DIAGRAM

Refrigerator

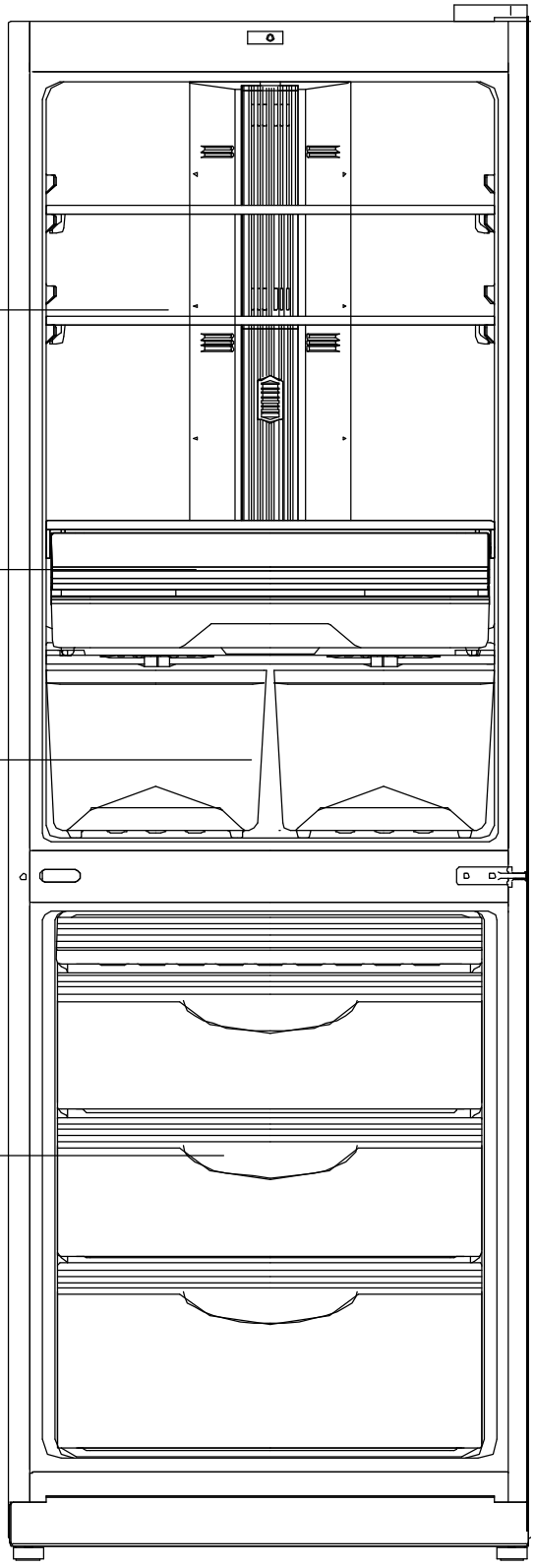
SUPER : 0 ºC
HIGH : 1 ºC
MID : 3 ºC
LOW : 5 ºC
VAC : 6 ºC

Low temp compartment : 3 ºC

Vegetables compartment: 0 ºC~5 ºC

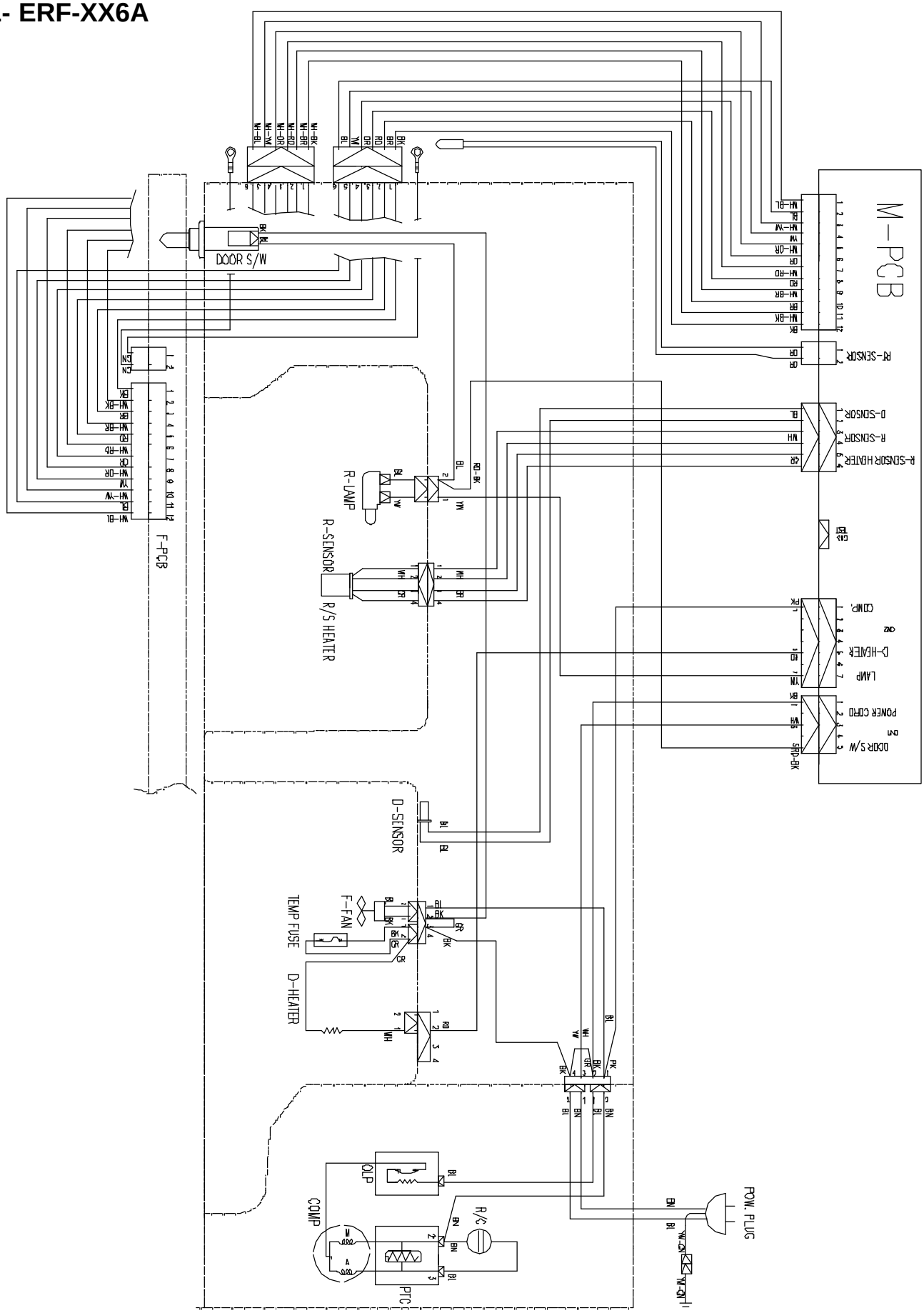
Freezer:

SUPER : -23 ºC
HIGH : -22 ºC
MID : -20 ºC
LOW : -18 ºC
VAC : -16 ºC



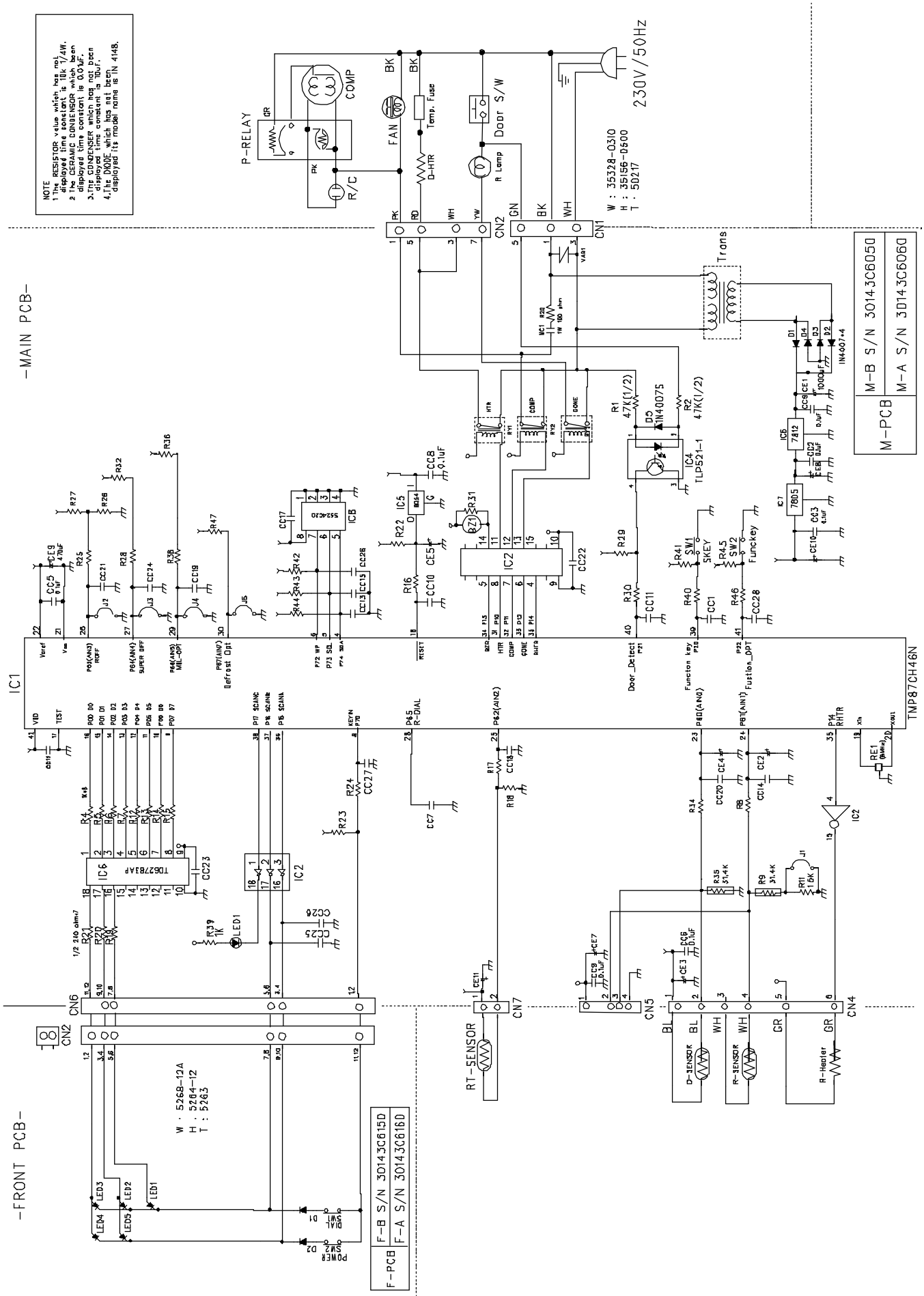
7. WIRING DIAGRAMS

7.1- ERF-XX6A



8. PCB CIRCUIT DIAGRAMS

8.1- ERF-XX6A



9. COMPONENTS DISASSEMBLY PICTURES

1- FRONT PCB (FULL AUTOMATIC TYPE)

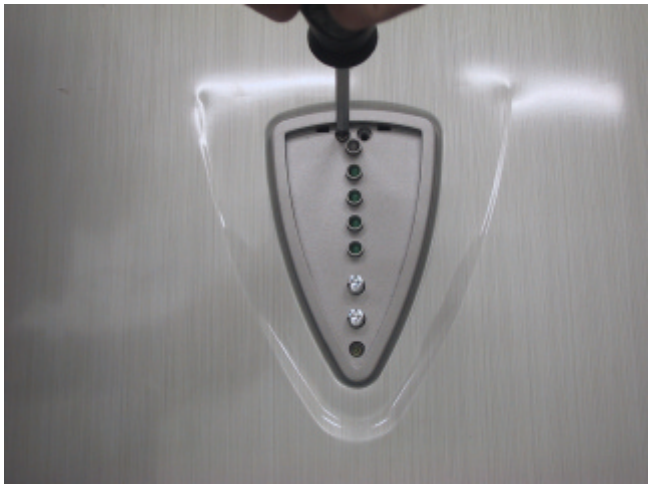
- Input a cutter sleeve between Window FCP and Panel F control.

Important: Input carefully cutter in the area that picture shows (down right).

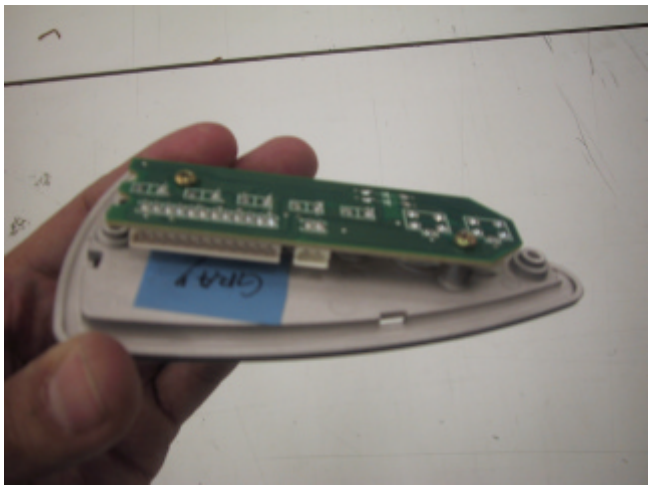
- Lift Window FCP up.

* Remark: Input cutter deeply and carefully in order to lift up easily and avoid paint damages and scratches.

- Unscrew Panel F Control.



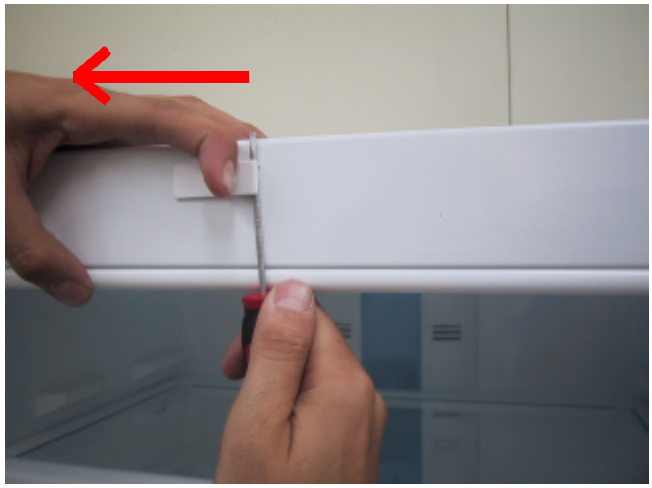
- Unscrew the two fixing screws of F-PCB as.



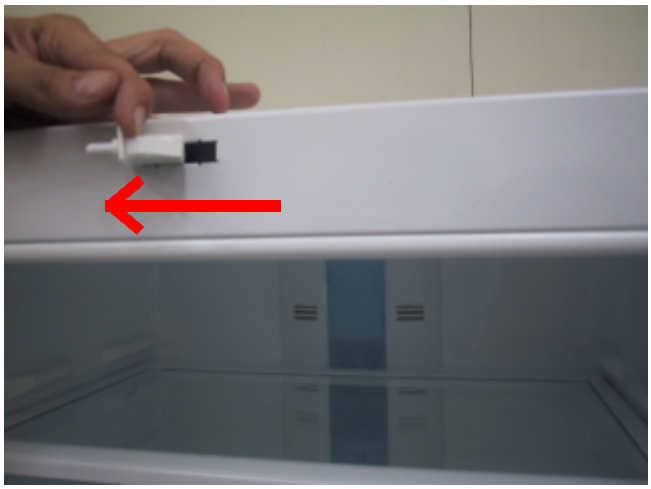
2- SWITCH DOOR

- Force switch door to the left side and input a thin driver in the rigth part as picture shows.
After this operation, lift switch up.

* Remark: Input driver carefully in order to lift up easily and avoid paint damages and scratches.



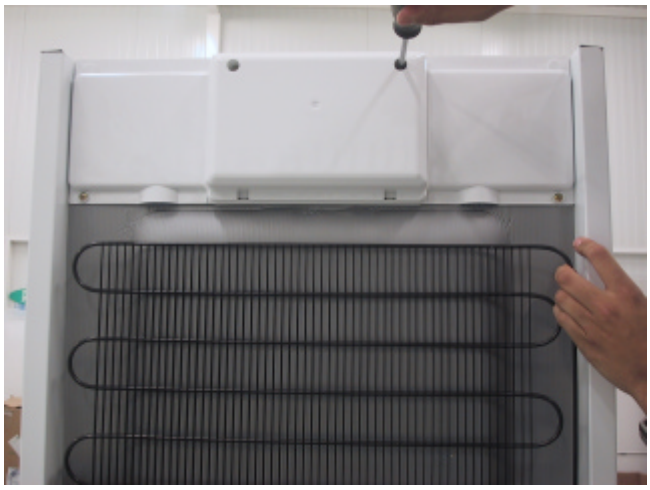
- move switch to left side.



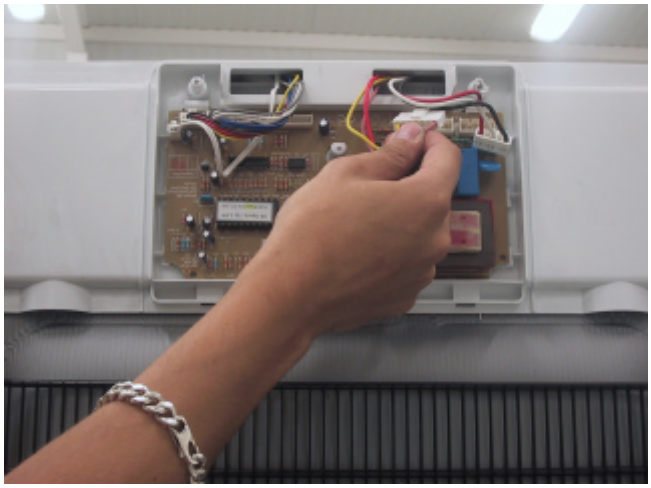
- Take out switch and disconnect housing.

3- M-PCB

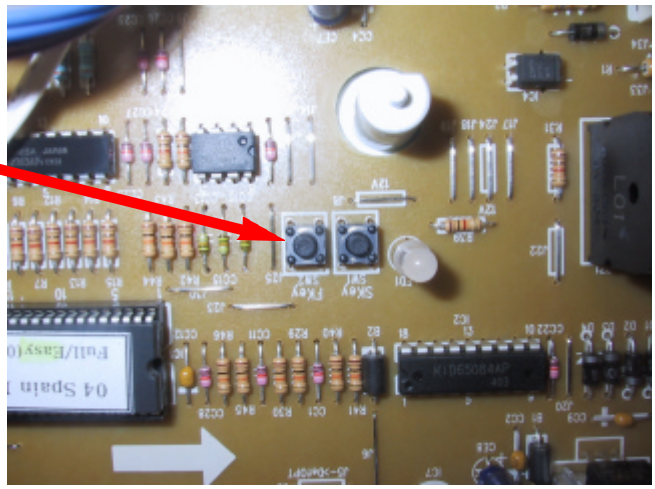
- Unscrew the two fixing screws of cover PCB box.



- Disconnect all housings connectors from M-pcb, and force plastic locker of pcb box in order to take out the pcb.



* Remark: In ERF-xx6N models forced defrost button is located in M-PCB, so pcb box cover must be disassembled



4- RELAY BOX COVER

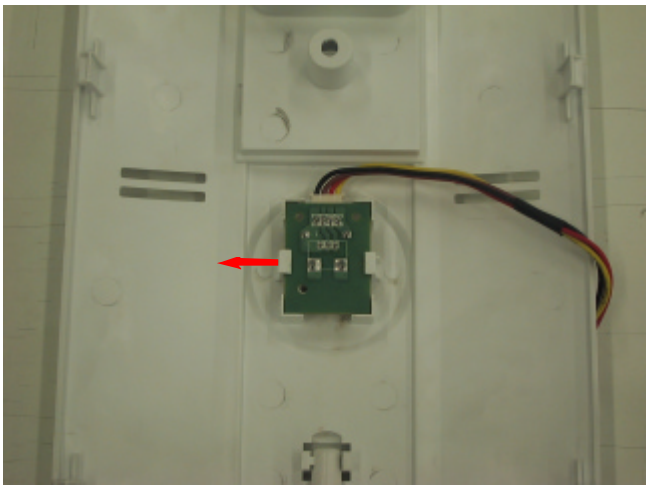
- Press relay box cover stopper sleeve with a minus driver like picture shows.

5- MULTI DUCT

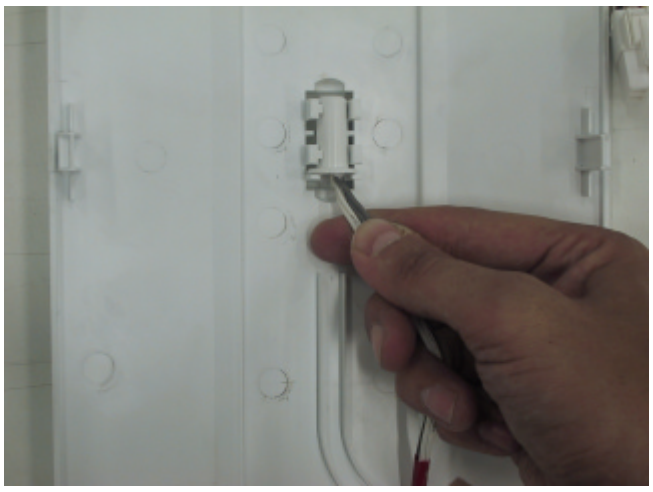
- Take out window r pulling the top part sleeve.

- Unscrew all fixing screws

- To disassemble V-PCB force left plastic stopper and lift pcb up.



- To disassemble R-sensor lift it up from the wires carefully.

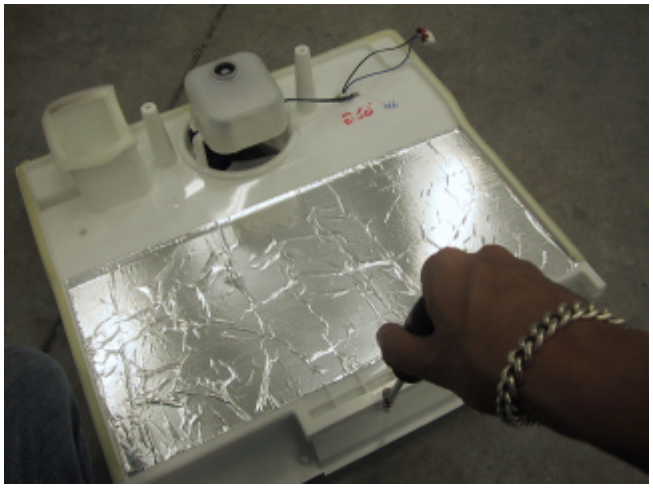


6- LOUVERS:

- Unscrew the two fixing screw for disassembly louver A and B

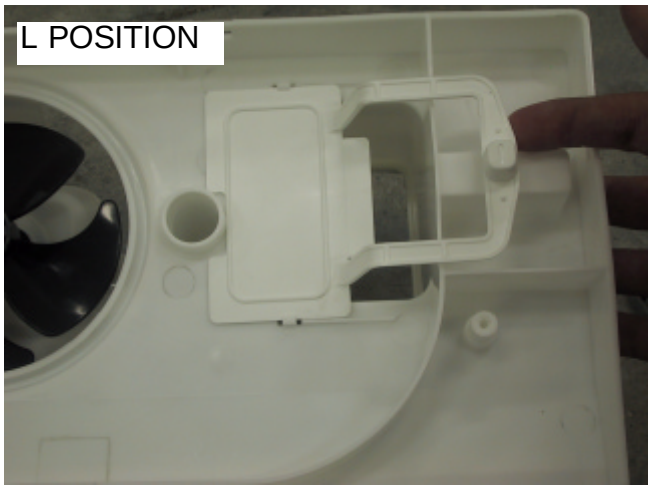
- Disconnect fan motor housing

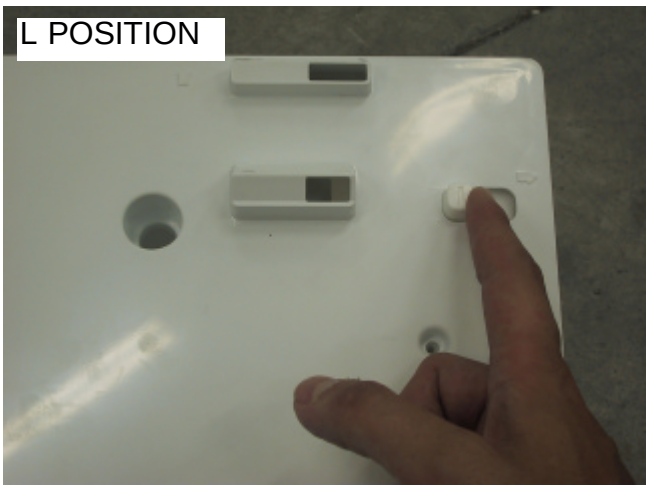
- Unscrew the fixing screw in order to disassemble Louver A.

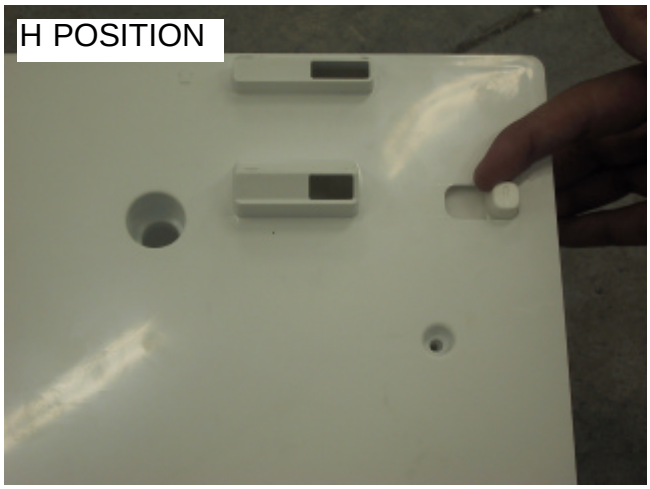


- When louvers are disassembled is very important check Knob F louver position.

Default position is M

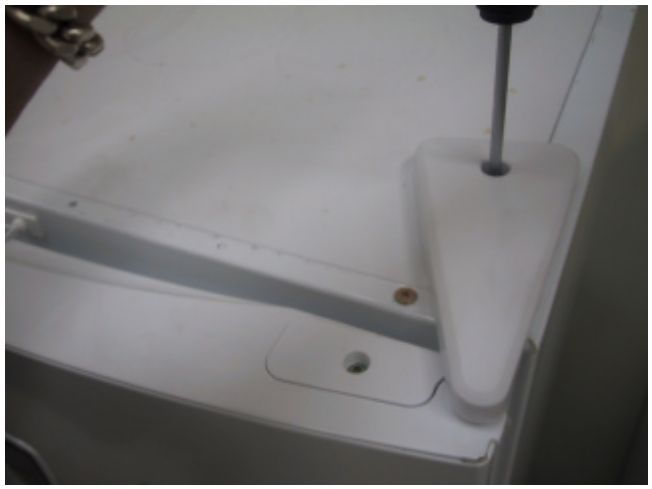






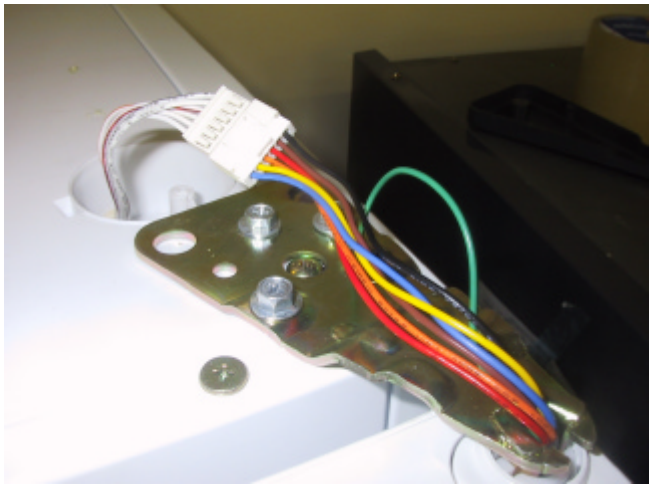
7-CHANGE DOOR OPEN SIDE

- Unscrew cover T hinge



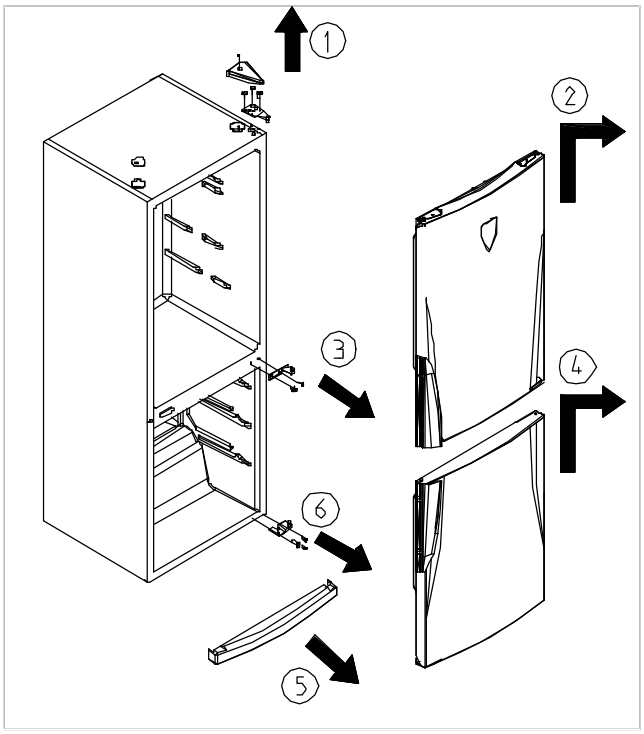
- Before changing door open side, disconnect door housing connector.

Follow next sheets instructions to change door open side



10. DOOR POSITION CHANGE PROCESS

STEP 1 : Remove door



Follow to remove

1. Remove“ COVER HINGE” and “ HINGE T”

2. Remove“ R” door.

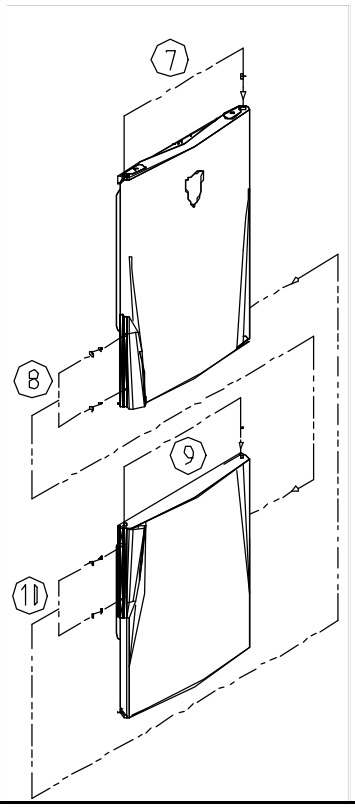
3. Remove “ HINGE M”

4. Remove“ F” door

5. Remove“COVER BRACKET”

6. Remove“ HINGE U”

STEP 2 : Change door handle



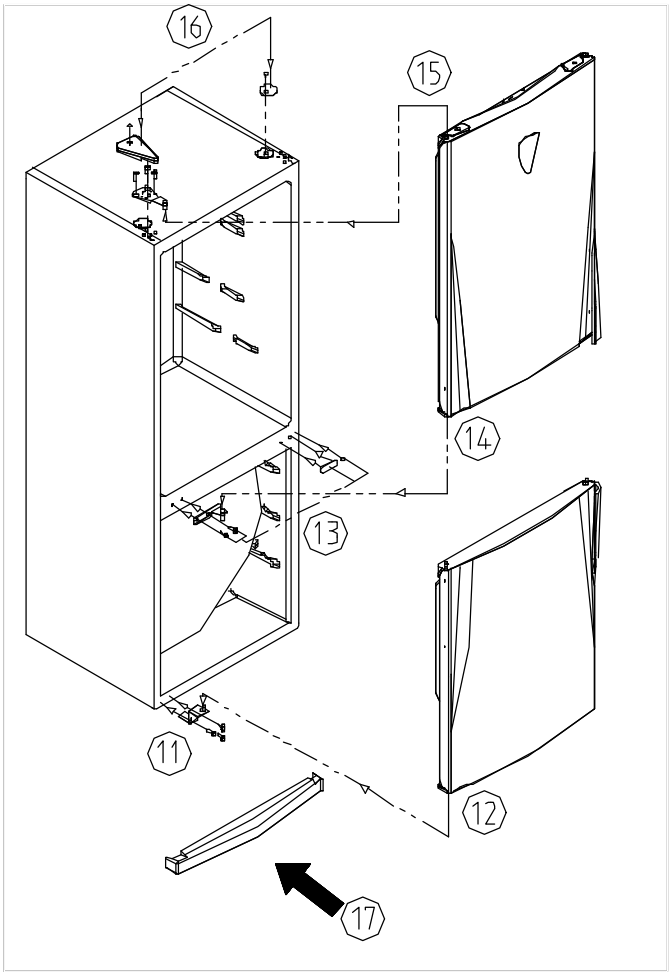
7. Reverse the position of“ COVER BUSHING”

8. Move “ R DOOR HANDLE” to “ F DOOR”

9. Reverse the position of“ CAP DR BUSHING”

10. Move “ F DOOR HANDLE” to “ R DOOR”

STEP 3 : Change door open side



11. Attach the " HINGE U" on the left.

12. Attach the " F DOOR"

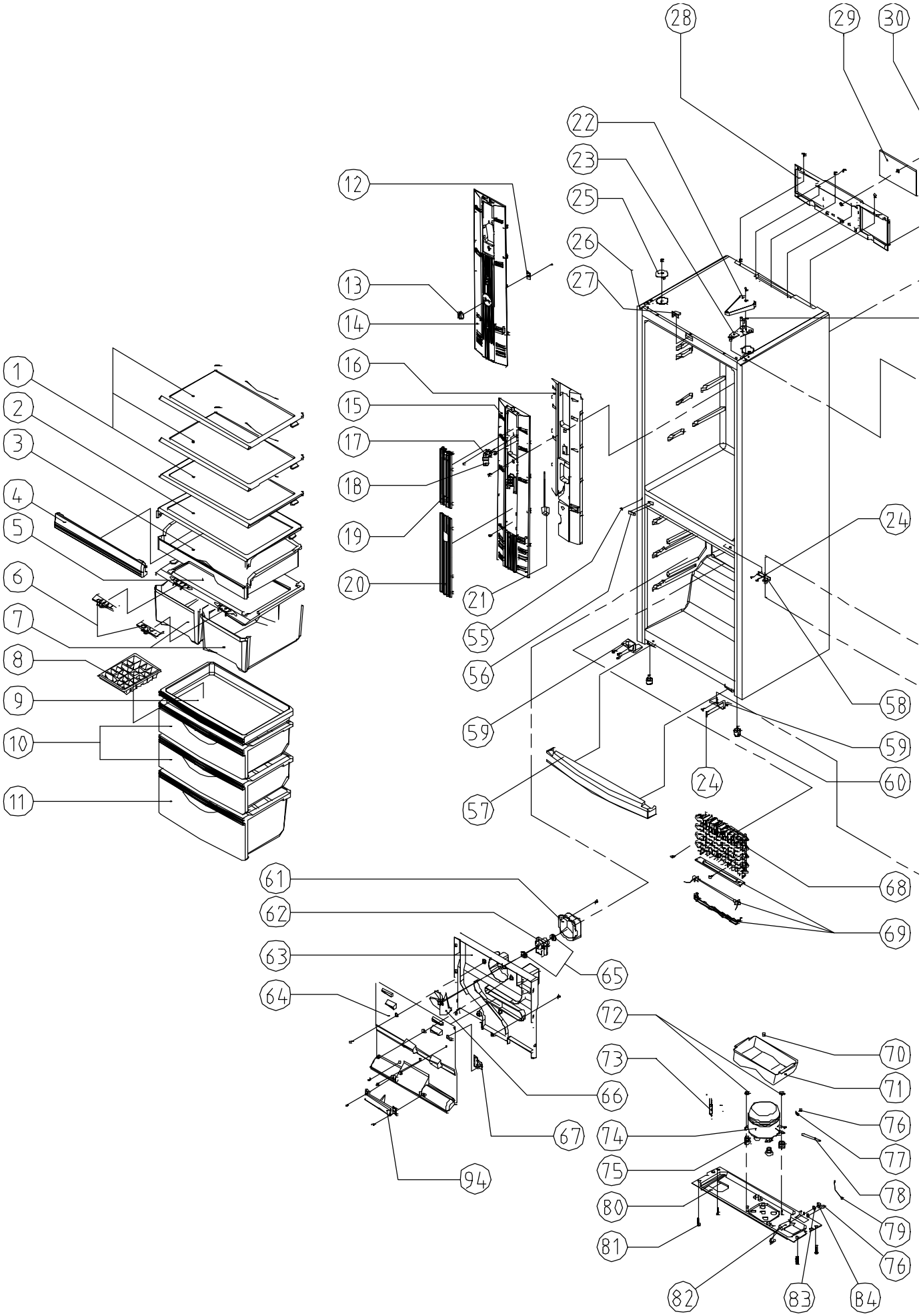
13. Reverse the position of " HINGE M" and
" CAP SCREW HOLE"

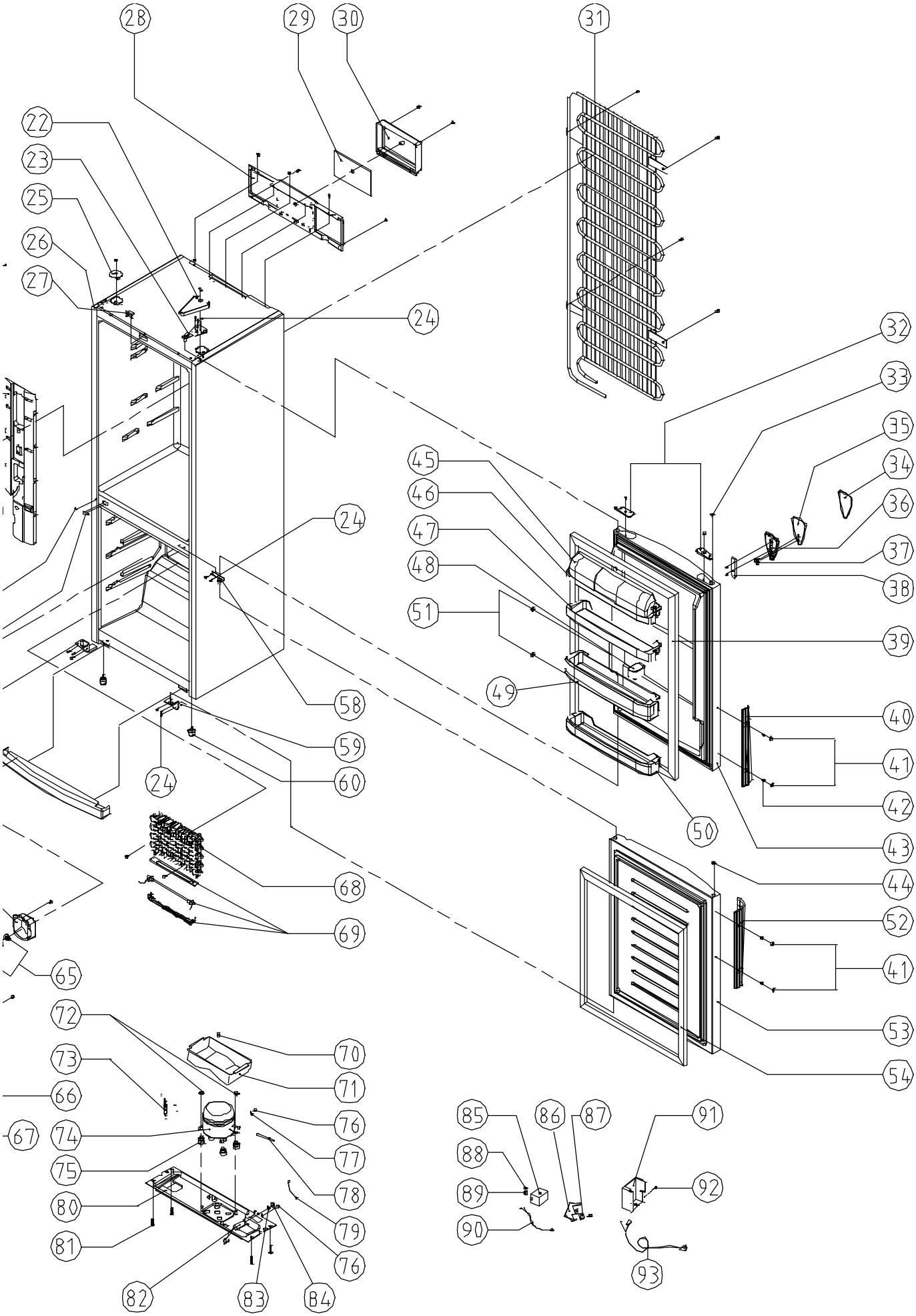
1. Attach the " R DOOR"

15. Attach the " HINGE T" on the left of cabinet
after assembling to " R DOOR"

16. Reverse the position of " COVER HINGE "
and " COVER CAB HARNESS"

11. EXPLODE DRAWING




28
29
30
31
22
23
25
26
27
24
32
33
35
34
36
37
38
45
46
47
48
51
39
49
40
41
42
43
44
52
41
53
54
50
24
58
59
60
24
68
69
65
72
70
73
71
66
67
74
76
77
75
78
80
79
81
76
82
83
84
85
86
87
91
88
89
92
90
93

12. PARTS LIST

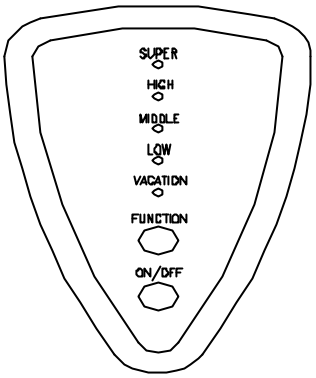
NO	PART NAME	PART CODE	MODEL						REMARK
			366N	366A	396N	396A	416N	416A	
1	SHELF GLAS AS	3017839400	2	2	3	3	3	3	
2	COVER GLAS C/C AS	3011497900	1	1	1	1	1	1	
3	CASE CHILD	3011181400	1	1	1	1	1	1	NANO SILVER
4	DOOR CHILLED CASE	3011760500	1	1	1	1	1	1	NANO SILVER
5	COVER VEGTB CASE	3011497700	1	1	1	1	1	1	
6	KNOB HUMIDITY	3013410800	2	2	2	2	2	2	
7	CASE VEGETABLE *L	3011181900	1	1	1	1	1	1	NANO SILVER
	CASE VEGETABLE *R	3011182000	1	1	1	1	1	1	NANO SILVER
8	CASE ICING	3011163200	1	1	1	1	1	1	
9	CASE F D	3011181800	1	1	1	1	1	1	
10	CASE F B AS	3011184900	2	2	-	-	-	-	BLUE MILKY
11	CASE F A AS	3011184800	1	1	1	1	1	1	BLUE MILKY
15	COVER MULTI DUCT	3011495600	-	1	-	-	-	-	
16	INSU MULTI DUCT	3013353800	1	1	-	-	-	-	
17	SOCKET LAMP AS	3017903900	1	1	1	1	1	1	
18	LAMP	3013600700	1	1	1	1	1	1	
19	WINDOW R	3015510100	1	1	1	1	1	1	BLUE MILKY
20	DECO M/DUCT COVER	3011633200	-	1	-	1	-	1	BLUE
21	SENSOR R AS	3012731800	1	1	1	1	1	1	
22	COVER *T HINGE	DMS1494310	1	1	1	1	1	1	SNOW WHITE
		DMS1494320	1	1	1	1	1	1	03 SILVER
23	HINGE *T AS	3012922600	1	1	1	1	1	1	
24	SPECIAL BOLT C	3016004900	11	11	11	11	11	11	
25	COVER CAB HARNESS	DMS1477510	1	1	1	1	1	1	SNOW WHITE
		DMS1477520	1	1	1	1	1	1	03 SILVER
26	ASSY CAB URT	-	1	1	-	-	-	-	
27	SWITCH DOOR	3011755200	1	1	1	1	1	1	WHITE
		3011762900	1	1	1	1	1	1	03 SILVER
28	BOX PCB	3010545300	1	1	1	1	1	1	03 SILVER
		DMS0545310	1	1	1	1	1	1	SNOW WHITE
29	M-PCB AS	30143C6060	-	1	-	1	-	1	
30	COVER PCB BOX	3011477600	1	1	1	1	1	1	03 SILVER
		DMS1477610	1	1	1	1	1	1	SNOW WHITE
31	PIPE WI-CON AS	3014434500	1	1	1	1	1	1	
32	COVER HRNS*R	3011477100	1	1	1	1	1	1	03 SILVER
		DMS1477110	1	1	1	1	1	1	SNOW WHITE
	COVER HRNS*L	3011477200	1	1	1	1	1	1	03 SILVER
		DMS1477210	1	1	1	1	1	1	SNOW WHITE
33	COVER BUSH	3011498200	1	1	1	1	1	1	03 SILVER
		DMS1498210	1	1	1	1	1	1	SNOW WHITE
35	WINDOW FCP A	3015509900	-	1	-	1	-	1	
36	PANEL *F CONTROL	3014234000	-	1	-	1	-	1	03 SILVER
		DMS4234010	-	1	-	1	-	1	SNOW WHITE

NO	PART NAME	PART CODE	MODEL						REMARK
			366N	366A	396N	396A	416N	416A	
37	BUTTON F-CP	3016304300	-	1	-	1	-	1	
38	F-PCB AS	30143C6160	-	1	-	1	-	1	
39	GASKET R DOOR AS	3012306600	1	1	-	-	-	-	
40	HANDLE R	3012640000	1	1	1	1	1	1	03 SILVER
		DMS2640010	1	1	1	1	1	1	SNOW WHITE
41	COVER HNDL SCREW	3011495200	4	4	4	4	4	4	03 SILVER
		DMS1495210	4	4	4	4	4	4	SNOW WHITE
42	SPECIAL SCREW	3016033600	4	4	4	4	4	4	
43	ASSY R DR A/S 366A SW	DMS0060000	-	1	-	-	-	-	GRIP S-WHITE
	ASSY R DR A/S 366A SV	DMS0060010	-	1	-	-	-	-	GRIP SILVER
	ASSY R DR AS 366A	DMS0060020							INOX
44	CAP DR BUSHING	3010967400	1	1	1	1	1	1	SNOW WHITE.
		DMS0967420	1	1	1	1	1	1	03 SILVER
45	COVER DAIRY POCKET	3011495000	1	1	1	1	1	1	BLUE MILKY
46	POCKET DAIRY	3019025000	1	1	1	1	1	1	
47	POCKET R	3019025200	1	1	1	1	1	1	
48	GUIDE BOTTLE POCKET	3012523800	1	1	1	1	1	1	BLUE MILKY
49	POCKET BOTL AS	3019026100	1	1	1	1	1	1	BLUE MILKY
50	POCKET MULTI AS	3019026200	1	1	1	1	1	1	BLUE MILKY
51	CAP HANDLE	3010910000	4	4	4	4	4	4	SNOW WHITE
		DMS0910030	4	4	4	4	4	4	03 SILVER
52	HANDLE F	3012639800	1	1	1	1	1	1	03 SILVER
		DMS2639810	1	1	1	1	1	1	SNOW WHITE
53	ASSY F DR A/S 366 396 SW	DMS0062000	1	1	1	1	-	-	GRIP S-WHITE
	ASSY F DR A/S 366 396 SV	DMS0062010	1	1	1	1	-	-	GRIP SILVER
	ASSY F DR AS 366	DMS0062020		1					INOX
54	GASKET F DOOR AS	3012306500	1	1	1	1	-	-	
57	COVER CAB BR.	DMS1494920		1					INOX
55	CAP SCREW	3010920200	1	1	1	1	1	1	SNOW WHITE
		DMS0920220	1	1	1	1	1	1	03 SILVER
56	CAP SCREW HOLE	3010920300	1	1	1	1	1	1	
57	COVER CAB BRACKET	3011494900	1	1	1	1	1	1	SNOW WHITE
		DMS1494910	1	1	1	1	1	1	03 SILVER
58	HINGE *M	3012908002	1	1	1	1	1	1	
59	HINGE *U	DMS2908201	1	1	1	1	1	1	
60	FOOT ADJUSTING AS	3012101800	2	2	2	2	2	2	
61	BRACKET FAN MOTOR	3010615600	1	1	1	1	1	1	
62	MOTOR FAN AS	3011804710	1	1	1	1	1	1	
63	LOUVER F B	3018918900	1	1	1	1	-	-	
64	LOUVER F A	3018918700	1	1	1	1	-	-	
65	BUSHING FAN MOTOR	3010701800	2	2	2	2	2	2	
66	FAN	3011801410	1	1	1	1	1	1	
67	KNOB F LOUVER	3013410700	1	1	1	1	1	1	
68	EVAPORATOR AS	3017045600	1	1	1	1	1	1	
69	HEATER D AS	3012807651	1	1	1	1	1	1	
70	CAP DRAIN HOSE	3010919700	1	1	1	1	1	1	

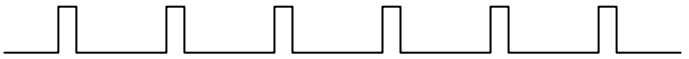
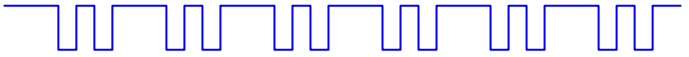
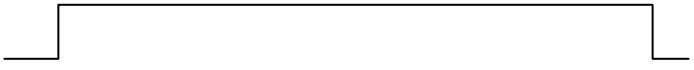
NO	PART NAME	PART CODE	MODEL						REMARK
			366N	366A	396N	396A	416N	416A	
71	CASE VAPORY	3011162700	1	1	1	1	1	1	
72	FIXTURE COMP	3012005300	2	2	2	2	2	2	
73	DRYER ASSY	3016802203	1	1	1	1	1	1	
74	COMPRESSOR	DMS0A00100	1	1	1	1	1	1	
75	ABSORBER COMP	3010103400	4	4	4	4	4	4	
76	SCREW MACHINE	DMS1B00100	1	1	1	1	1	1	
77	SPECIAL WASHER	DMS1B00200	1	1	1	1	1	1	
78	PIPE CHARGE	3014418211	1	1	1	1	1	1	
79	HARNESS EARTH	3012735220	1	1	1	1	1	1	
80	BASE COMP	-	1	1	1	1	1	1	
81	SPECIAL SCREW A	3016004300	4	4	4	4	4	4	
82	CAPACITOR RUN	DMS6402129	1	1	1	1	1	1	
83	SPECIAL WASHER R/C	DMS6006510	1	1	1	1	1	1	
84	SPECIAL NUT R/C	DMS6006410	1	1	1	1	1	1	
85	RELAY BOX	DMS0527900	1	1	1	1	1	1	
86	CLAMP CORD A	DMS1200100	1	1	1	1	1	1	
87	CLAMP CORD B	DMS1200200	1	1	1	1	1	1	
88	SWITCH P RELAY OL	DMS1A00100	1	1	1	1	1	1	
89	SWITCH P RELAY PTC	DMS1C00100	1	1	1	1	1	1	
90	HARNESS RELAY	3012731901	1	1	1	1	1	1	
91	COVER MECH HOUSING	3011454100	1	1	1	1	1	1	
92	SCREW TAPPING	7112401011	1	1	1	1	1	1	
93	CORD POWER AS	3011343340	1	1	1	1	1	1	COMMON
94	LOUVER F C	3018920700	1	1	1	1	1	1	

13. PCB CONTROL FUNCTION

13.1. ERF-XXXA

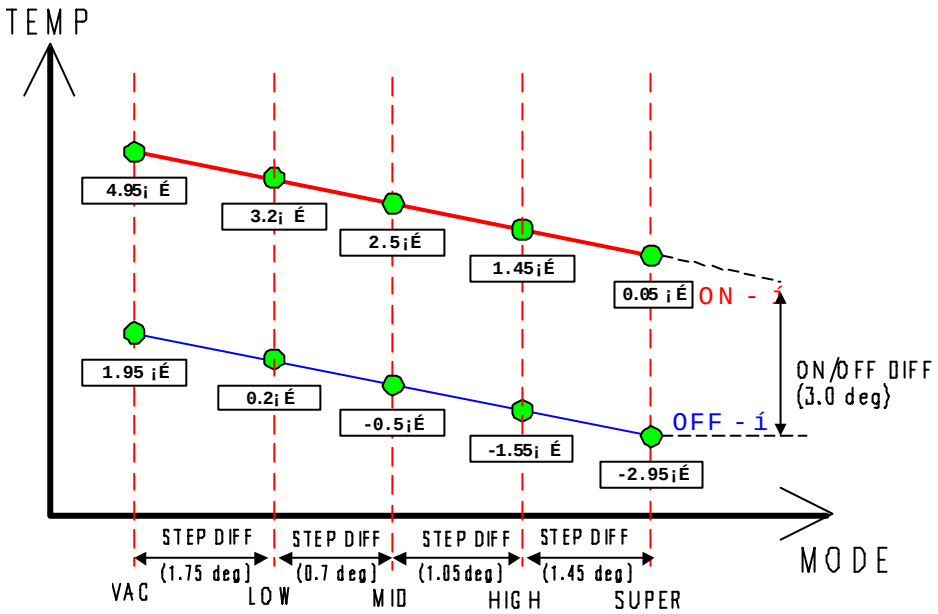
NO	FUNCTION	CONTENTS
1.	DISPLAY	

1) VAC STEP LED ON: WHEN TEMP CONTROL S/W IS PRESSED 1 TIME.
2) LOW STEP LED ON: WHEN TEMP CONTROL S/W IS PRESSED 2 TIMES.
3) MID STEP LED ON: WHEN TEMP CONTROL S/W IS PRESSED 3 TIMES.
4) HIGH STEP LED ON: WHEN TEMP CONTROL S/W IS PRESSED 4 TIMES.
5) SUPER STEP LED ON: WHEN TEMP CONTROL S/W IS PRESSED 5 TIMES.
6) ERROR LED DISPLAY (ON MAIN PCB)

DISPLAY	Led Output Wave Form
D1 ERROR	
D2 ERROR	
R1 ERROR	
RT ERROR	
EP ERROR	
DR ERROR	

? FUNCTION DISPLAY

- D1 ERROR : LED is off & on one time.
- D2 ERROR : LED is off & on two times.
- R1 ERROR : LED is on & off one time.
- RT ERROR : LED is on & off two times.
- EP ERROR : LED is on & off continually
- DR ERROR : LED is on continually
- FORCED DEFROST OF CONDITION:HIGH, LOW led Lamps are on
- SHORT CIRCUIT OFCONDITION:SUPER, MIDDLE, VAC led Lamps are on

2.	TEMPERATURE ADJUSTMENT & CONTROL	1) TEMP. CONTROL SWITCH 1.1- TEMP. CONTROL When TEMP CONTROL button is pressed, the led lamps MIDLE - HIGH - SUPER - VAC -LOW - MIDDLE will be on in sequence. TEMPERATURE will be set if the button doesn't get pressed again within 5 sec 1.2- FORCED DEFROST: will be start when this button pushed for over 5 seconds continuously. 1.3- SHORT CIRCUIT OPERATION: will be started and stopped when this button pushed over 30 times. 2) TEMPERATURE CONTROL 2.1- COMP will be controlled by the on/off condition of each mode. 2.2- STEP DIFF of ROOM R : Vac/Low - 1.75 deg, Low/Middle - 0.7deg, Mid/High - 1.05deg, High/Super - 1.4 deg 2.3- OFF point of ROOM R in MID position: -0.5°C 2.4- ON/OFF DIFF of ROOM R: 3°C  3) FORCED DEFROST 3.1- Defrost mode will be Started independent of the cycle. 3.2- The flow is same as the general defrost mode flow. 4) SHORT CIRCUIT OPERATION 4.1- COMP & FAN will be on independent of the operation condition. 4.2- The time limit of SHORT CIRCUIT OPERATION: 60 hrs
3.	VACATION	- Press TEMP. CONTROL SWITCH and make VAC led lamp on. ON POINT: 4.95°C OFF POINT: 1.95°C

<table>
<tr><td>4.</td><td>SUPER</td><td>- Press TEMP. CONTROL button and make SUPER led lamp on.
ON POINT: 0.05°C
OFF POINT: -2.95°C</td></tr>
<tr><td>5.</td><td>Determination of DEFROST</td><td>1) Starting condition of Defrost Mode
1.1- When accumulated running time of comp. Is 8, 10, 12, 18, 30hrs.
1.2- After Checking the condition ‘1.1’ if total time (COMP on time + COMP off time) is more than 24, 36, 48, 72hrs, then defrost mode starts immediately.
<table><tr><td rowspan="2">RT-SENSOR</td><td colspan="2">Accumulated running time of COMP</td><td colspan="2">Total running time of COMP</td></tr><tr><td>Door Open</td><td>Door Close</td><td>Door Open</td><td>Door Close</td></tr><tr><td>RT 29°C Up</td><td>8HR</td><td>18HR</td><td>24HR</td><td>36HR</td></tr><tr><td>20<RT< 28°C</td><td>12HR</td><td>30HR</td><td>48HR</td><td>72HR</td></tr><tr><td>15<RT< 19°C</td><td>8HR</td><td>12HR</td><td>24HR</td><td>36HR</td></tr><tr><td>RT 14°C Down</td><td>8HR</td><td>10HR</td><td>24HR</td><td>36HR</td></tr></table></td></tr>
<tr><td>6.</td><td>DEFROST MODE</td><td>1) General Defrost Mode
1.1- Start: By determination of defrost
1.2- Process: General operation- Heater on – Pause (6min) - General operation
-Heater defrosts: When the temperature at D-sensor is over 10°C, heater turns off.
-Limit time: 80 min (30 min on D SENSOR ERROR)
2) Forced Defrost Mode
2.1- Start: by press TEMP. CONTROL button for 5 seconds continuously.
2.2- Process: same as General Defrost Mode
-Heater is supposed to be on Initial 30 seconds. (for TEST)
2.3- Display : led lamps ‘LOW’ ‘HIGH’ is on.</td></tr>
<tr><td>7.</td><td>INITIAL DEFROST</td><td>1) When power is on, if the temperature at the D-sensor is under 3.5°C, then General Defrost Mode starts.
2) When initial defrost mode starts, heater will be on directly and defrost mode will be started.</td></tr>
<tr><td>8.</td><td>PREVENTION OF COMP. RESTART</td><td>COMP. doesn’t work after COMP. turns off even though R-sensor is on condition. (This is to protect comp.)
1) General operation : The COMP can’t be on within 6 min.
2) Operation of LOW RT : The COMP can’t be on within 40 min.</td></tr>
</table>

<table>
<tr>
<td>9.</td>
<td>ERROR
DISPLAY
&
CONTROL</td>
<td>
- ERROR DISPLAY
- When error happens, it is displayed on led lamp.(Main PCB LED 1)

1) R1 ERROR (It happens when R-SENSOR is OPEN or SHORT)
1.1- DISPLAY : On & off one time while LED is on.
1.2- CONTROL : Controlled by the condition of RT
(Unit : min)
<table>
<tr><td>RT-S TEMP</td><td>RT-S ERROR</td><td>19ºC Down</td><td>20ºC Up</td></tr>
<tr><td>COMP. Operating TIME (ON / OFF)</td><td>20 / 30</td><td>15 / 35</td><td>22 / 28</td></tr>
</table>
1.3- CANCEL : when R-SENSOR is working normally.
2) D1 ERROR (It happens when D-SENSOR is OPEN or SHORT)
2.1- DISPLAY : On & off one time while LED is off.
2.2- CONTROL : Return to the limit defrost time of Defrost (30 min)
3) D2 ERROR (It happens when heater is off by time - 80 min).
3.1- DISPLAY : On & off two times while LED is off.
3.2- CONTROL : Return to next limit defrost time (80 min)
4) RT ERROR (It happens when RT-SENSOR is OPEN or SHORT)
4.1- DISPLAY : On & off two times while LED is on.
4.2- CONTROL : The system is normally operating but the controlling by RT-SENSOR doesn’t work.
4.3- CANCEL : when RT-SENSOR is working normally.
5) DR ERROR
5.1- Display : LED is on continuously
5.2- Control : Deletion of function related door switch sensing
5.3- If door switch (open & close) is sensed, the error is terminated automatically
</td>
</tr>
<tr>
<td>10.</td>
<td>SHORT CIRCUIT
TEST</td>
<td>
1) START : by pressing REF.TEMP. CONTROL button 30 times continuously.
2) CANCEL : by pressing TEMP CONTROL button 30 times continuously.
Cf. the system generally operates after the limit t ime 60 hrs. passes.
3) DISPLAY : LED lamps are SUPER, MIDDLE, VAC on
4) CONTROL : COMP & FAN will be on independent of the operating condition.
(There is no defrost mode on this test.)
</td>
</tr>
<tr>
<td>11.</td>
<td>FUNCTION
OF
TIME REDUCTION</td>
<td>
1) HOW TO REDUCE: (There is no FASTKEY on PCB for MP.)
1 min : Click FAST KEY one time
30 min : If you press FAST KEY continuously, you can reduce 30 minutes on each second.
2) Practical Use : Can be applied to reduce needless time on test.
EX) function of stop for 6 min
</td>
</tr>
</table>

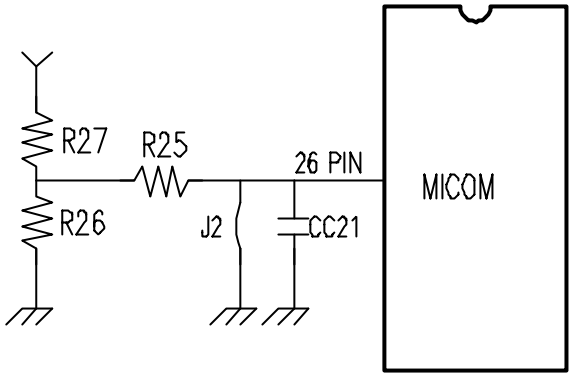
12.	POWER ON / OFF	1) START : Press POWER button 2) CANCELATION : Press POWER button again 3) DISPLAY - START : All LED lamps are off and power is off.(COMP, Heater, Lamp of Room) - CANCEL : Return to the last condition(dial)
13.	MEMORY SAVING ON POWER FAILURE	-After power failure or momentary power failure happens, if power is back on, the mode will be returned on last condition.
14.	EEPROM CLEAR	-Make EEPROM clear right before shipping(set the initial mode) -How to clear : press REF.TEMP. button 5 time with pressing POWER button.
15.	FUNCTION OF LOW ROOM TEMPERATURE	1) Condition of LOW RT TEMP : 1.1- LOW RT A : RT SENSOR < 14ºC 1.2- LOW RT B : 15ºC > RT-S < 19ºC 2) Control 2.1- When Comp. is on, R-SENSOR HTR is off. When it passes 6 min after COMP. is off, R-SENSOR HTR is on until COMP is on. 2.2- COMP. Can't be on within 40 min. after COMP. is off. 2.3- When it is not the Mode of LOW ROOM TEMP. or RT-SENSOR is on ERROR(open or short), R-SENSOR HTR is off. - LOW RT TEMP A Condition - R-SENSOR Operating Temperature1ºC up - LOW RT TEMP B Condition R-SENSOR Operating Temperature

16. R-SENSOR OFF POINT ADJUSTING OPTION

1) R-SENSOR OFF POINT can be adjusted by changing the input voltage of MICOM 26 pin.

2) The default of input voltage is 0V.

3) The changed OFF POINT isbase OFF POINT + OFF POINT of input voltage.



4) The change of RSENSOR OFF POINT depend on the input voltage of MICOM

MICOM Input (V)	0	1.0	1.5	2.0	2.5	3.7	5.0
OFF POINT Variation (ºC)	-0.5ºC (DEF)	1.0ºC down	2.0ºC down	3.0ºC down	1.0ºC up	2.0ºC up	3.0ºC up
R26, R27 Resistance (kOhms)	Jumper adoption	R27 : 40 R26 : 10	R27:23.3 R26:10	R27:15 R26:10	R27:10 R26:10	R27:3.5 R26:10	R27:10 R26:DEL

5) APPLICATION (MAIN PCB)

5.1- GENERAL: MICOM 26 port - 0V

5.2- DELETE J2 (CHANGING R OFF POINT 1DEG UP) : MICOM 26 port– 2.5V

LOW COOLING OPTION

- R-SENSOR OFF POINT ADJUSTMENT (1 DEG. DOWN)
- J1 DELETION on LOW COOLING OPTION

Default resistance (31.4 Kohms) + 1.5 kohms = 32.9 Kohms

Operating on condition that R-SENSOR OFF point goes down 1ºC.