

Service Manual

Refrigerator

**NR-BX418XS, NR-BX418VS, NR-BX418GW
NR-BX468XS, NR-BX468VS, NR-BX468GW
NR-BX41BXS, NR-BX46BXS, NR-BX41BVW
NR-BX46BVW, NR-BX418GK, NR-BX468GK**



NR-BX468X
NR-BX41B
NR-BX46B



NR-BX468G



NR-BX418V
NR-BX468V
NR-BX41B
NR-BX46B



NR-BX418GK
NR-BX468GK

Product Colour

White(VW)/(GW)
Shinning Silver(VS)
Stainless Colour(XS)
Black(GK)

Destination

Thailand, Vietnam
Malaysia, Philippines
Hong Kong, Singapore, RBD
Indonesia, India, Australia/
New Zealand



100% CFC FREE

CFCs have been used in refrigerator as refrigerator and the insulation materials for many years. But it is now known that these compounds which once seemed so ideal for use as cleaning agents and in refrigeration systems, destroy the earth's ozone layer as a result, an international body decided on a total worldwide ban of harmful CFCs by the end of 1995.

⚠ WARNING

The service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt within this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1. SAFETY CAUTIONS FOR REPAIRING

When you repair the refrigerator, please kindly take care for the following cautions.

1.1 WARNING

	Before repairing unit, unplug supply cord <ul style="list-style-type: none"> • Before you repair the refrigerator, please unplug the supply cord.
	Use authentic parts when repairing <ul style="list-style-type: none"> • When you replace the parts, please use authentic parts to replace defective parts.
	Caution during brazing <ul style="list-style-type: none"> • When you use touch for brazing, please ensure ventilation. Otherwise, you will be poisoned by carbon monoxide.
	Pay attention to using refrigerant <ul style="list-style-type: none"> • If refrigerant touches fire, the gas becomes poisonous gas.
	Pay attention to getting electricity shock <ul style="list-style-type: none"> • When you check the voltage of terminal, please do not touch the electricity part terminal. • When you replace the parts, please wait for 3 minutes at least for discharging capacitor.
	Check safety after repairing <ul style="list-style-type: none"> • Check the screws, parts, lead wires to take in place. • Check the repairing portion whether circumferential parts are damaged or not. • Check insulation resistance between supply plug and earth. • When install refrigerator, check condition of supply cord and plug. • Wipe off the dust on plug. • Cutting and seal the electric device carefully.

1.2 CAUTIONS

	Watch the hot parts <ul style="list-style-type: none"> • During operation and after operation, compressor and pipes are hot. • Also, under these condition, heater are hot. • Do not burn your fingers when you touch it.
	Pay attention to refrigerant <ul style="list-style-type: none"> • Do not touch liquid refrigerant. Otherwise your hands may be burnt.
	Pay attention to edge of parts <ul style="list-style-type: none"> • Otherwise, your fingers may be cut.
	Pay attention to fins of evaporator and condenser <ul style="list-style-type: none"> • Otherwise, your fingers may be cut.
	Before transportation, adjust the bolt <ul style="list-style-type: none"> • Otherwise, the floor may be damaged.
	Do not touch the pipe after brazing <ul style="list-style-type: none"> • Otherwise, your hands may be burnt.

2. SPECIFICATION AND COMPONENTS

2.1 NR-BX418VS, NR-BX418VW, NR-BX418XS, NR-BX418GW, NR-BX41BVN, NR-BX418BXS, NR-BX418GK

Model	NR-BX418VS					NR-BX41B	NR-BX418XS					NR-BX418GW/GK				
Destination	Thailand	Vietnam	Indonesia	RBD	India	Australia/New Zealand	Vietnam	Malaysia	Philippines	Hong Kong	Australia	Vietnam	Singapore	Malaysia	Indonesia	Hong Kong
Code Attached Model	TH	VN	1D	WA	X1	AU	VN	MY	PH	HK	AU	VN	SG	MY	1D	HK
Plug	C3P	C2P	C2P	C2P	B3P	K3P	C2P	S3P	A2P	S3P	K3P	C2P	S3P	S3P	C2P	S3P
Power Source	220V/50Hz	220V/50Hz	220-240V/50Hz	220V/50Hz	230V/50Hz	240V/50Hz	220V/50Hz	240V/50Hz	230V/60Hz	220V/50Hz	240V/50Hz	220V/50Hz	230V/50Hz	240V/50Hz	220-240V/50Hz	220V/50Hz

2.1 Specification

Capacity (Total Net Volume)		407L (FC : 134L, PC : 273L)
Dimension External	Width(mm)	685
	Depth(mm)	689
	Height(mm)	1624
Temperature Control	FC	Electronic control (PCB)
	PC	Electrical damper NSBD060AA1
Net Weight (Kg)		72 Kg
Defrosting		Full-automatic heater defrost with PCB control
Exterior Finish (cabinet / door)		PCM colour - Polyester paint coating / (Polyester painting steel / Painting glass)
Inner Liner		Vacuum Formed ABS resin
Insulation		Cyclopentane (cabinet and door)

2.2 Sealed Unit

Compressor		ERI100E13DGH
Condenser		Copper tube Type
Pressure Reducing Device	Type	Capillary Tube
	I/D x Length	Ø 0.77mm. X 3375mm.
	2ND Pressure	0.622MPa
Evaporator		Fin And Tube
Refrigerant	Type	R600a
	Charge	70 ± 5g
Lubricating Oil	Type	Freol S - 10
	Charge	215 ± 5ml

2.3 Electric Part

Door Switch	Type	D3D-121 (S.P. - S.T.)
	Rating	250V / 0.5A
Fan Motor	Type	11338JE09KBA
	Rating	DC 9V / 0.1A / 0.9W
	Applied Fan	Ø 110mm. prop fan (Box Type)
Light Irradiation Device (PC)	Type	LED Lamp PCB
	Rating	12V / 100mA
Heating Device For Defrosting	Type	MM6-8V88
	Rating	220V / 161W
Defrost Thermal Fuse	Type	Micro Temp.
	Rating	250V / 10A / 73°C
Defrost Sensor (DFC)	Type	NTC
	Rating	B = 3819K ± 2%
		R10 = 3.899KΩ ± 3%
FC Sensor (FCC)	Type	NTC
	Rating	B = 3850K ± 2%
		R-20 = 18.9KΩ ± 1.8%
Ambient Temperature Sensor (ATC)	Type	NTC
	Rating	B = 3435K ± 1%
		R25 = 10.0KΩ ± 3%
Control Board	BX418V/BX41BVW	PAS-CONTROL PCB (V type)
	BX418XS/BX468G	PAS-CONTROL PCB (X/G type)
Defrosting Control (Electronic PCB Control)	(1)Ambient Temp. over 34°C 8h	
	(2)Ambient Temp. 23°C ~ 33°C 8h	
	(3)Ambient Temp. under 22°C 13h	
	(4)Power on 4h (Rated time)	
Overload Protector		MM3-20DCW

2.2 NR-BX468VS, NR-BX468VW, NR-BX468XS, NR-BX468GW, NR-BK46BV, NR-BX468BX, NR-BX468GK

Model	NR-BX468VS				NR-BX46B	NR-BX468XS										NR-BX468GW/GK				
Destination	Thailand	Vietnam	Indonesia	India	Australia/New Zealand	Thailand	Vietnam	Malaysia	Singapore	Philippines	HongKong	RBD	Australia/New Zealand	Thailand	Vietnam	Malaysia	HongKong	Singapore		
Code Attached Model	TH	VN	ID	X1	AU	TH	VN	MY	SG	PH	HK	WA	AU	TH	VN	MY	HK	SG		
Plug	C3P	C2P	C2P	B3P	K3P	C3P	C2P	S3P	S3P	A2P	S3P	C2P	K3P	C3P	C2P	S3P	S3P	S3P		
Power Source	220V/50Hz	220V/50Hz	220-240V/50Hz	230V/50Hz	240V/50Hz	220V/50Hz	220V/50Hz	240V/50Hz	230V/50Hz	230V/50Hz	220V/50Hz	220V/50Hz	240V/50Hz	220V/50Hz	220V/50Hz	240V/50Hz	220V/50Hz	230V/50Hz		

2.1 Specification

Capacity		450L																	
(Total Net Volume)		(FC : 134L, PC : 316L)																	
Dimension External	Width(mm)	685																	
	Depth(mm)	698																	
	Height(mm)	1764																	
Temperature Control	FC	Electronic control (PCB)																	
	PC	Electrical damper NSBD060AA1																	
Net Weight (Kg)		74 Kg																	
Defrosting		Full-automatic heater defrost with PCB control																	
Exterior Finish (cabinet / door)		PCM colour - Polyester paint coating / (Polyester painting steel / Painting glass)																	
Inner Liner		Vacuum Fomed ABS resin																	
Insulation		Cyclopentane (cabinet and door)																	

2.2 Sealed Unit

Compressor		ERI100E13DGH																	
Condenser		Copper tube Type																	
Pressure Reducing Device	Type	Capillary Tube																	
	I/D x Length	Ø 0.77mm. X 3375mm.																	
	2ND Pressure	0.622MPa																	
Evaporator		Fin And Tube																	
Refrigerant	Type	R600a																	
	Charge	70 ± 5g																	
Lubricating Oil	Type	Freol S - 10																	
	Charge	215 ± 5ml																	

2.3 Electric Part

Door Switch	Type	D3D-121 (S.P. - S.T.)
	Rating	250V / 0.5A
Fan Motor	Type	11338JE09KBA
	Rating	DC 9V / 0.1A / 0.9W
	Applied Fan	Ø 110mm. prop fan (Box Type)
Light Irradiation Device (PC)	Type	LED Lamp PCB
	Rating	12V / 100mA
Heating Device For Defrosting	Type	MM6-8V88
	Rating	220V / 161W
Defrost Thermal Fuse	Type	Micro Temp.
	Rating	250V / 10A / 73°C
Defrost Sensor (DFC)	Type	NTC
	Rating	B = 3819K ± 2%
		R10 = 3.899KΩ ± 3%
FC Sensor (FCC)	Type	NTC
	Rating	B = 3850K ± 2%
Ambient Temperature Sensor (ATC)	Type	NTC
	Rating	B = 3435K ± 1%
		R25 = 10.0KΩ ± 3%
Control Board	BX468V/BX468VW	PAS-CONTROL PCB (V type)
	BX468XS/BX468G	PAS-CONTROL PCB (X/G type)
Defrosting Control (Electronic PCB Control)		(1)Ambient Temp. over 34°C 8h
		(2)Ambient Temp. 23°C ~ 33°C 8h
		(3)Ambient Temp. under 22°C 13h
		(4)Power on 4h (Rated time)
Overload Protector		MM3-20DCW

3. PERFORMANCE DATA

3.1 NR-BX418XS, NR-BX46BXS, NR-BX418GW/GK (AT 32 ± 1 °C)

TEMPERATURE CONTROL	COLDEST	(ECO - OFF)	(ECO - ON)	WARMEST
		MEDIUM		
Mean Fresh Food Compartment Temp. t3 (°C)	1.0±2.5	3.0±2.5	4.5±2.5	6.0±2.5
Mean Freezer Load Temp. (°C)	-22.0±2.5	-21.0±2.5	-19.5±2.5	-16.0±2.5
Vegetable Crisper Temp. (°C)	-	3.5±2.5	4.5±2.5	-
PC Door Shelf Upper Tem. (°C)	-	7.5±2.5	9.0±2.5	-
Egg Tray Temp. (°C)	-	4.0±2.5	5.0±2.5	-
PC Door Shelf Bottom Temp. (°C)	-	3.5±2.5	5.0±2.5	-
Chilled Case Temp. (°C)	-	-3.0±1.5	-3.0±2.5	-
Running Ratio (%)	65±15	60±15	60±15	50±15

3.2 NR-BX418VS, NR-BX418VW, NR-BX41BVW (AT 32 ± 1 °C)

TEMPERATURE CONTROL		COLDEST	(ECO - OFF)	(ECO - ON)	WARMEST
			MEDIUM		
Mean Fresh Food Compartment Temp.	t3 (°C)	1.0±2.5	3.0±2.5	4.5±2.5	5.0±2.5
Mean Freezer Load Temp.	(°C)	-23.0±2.5	-21.0±2.5	-19.5±2.5	-16.0±2.5
Vegetable Crisper Temp.	(°C)	-	3.5±2.5	3.5±2.5	-
PC Door Shelf Upper Tem.	(°C)	-	7.5±2.5	7.5±2.5	-
Egg Tray Temp.	(°C)	-	4.0±2.5	4.0±2.5	-
PC Door Shelf Bottom Temp.	(°C)	-	3.5±2.5	3.5±2.5	-
Chilled Case Temp.	(°C)	-	1.0±1.5	1.0±2.5	-
Running Ratio	(%)	65±15	60±15	60±15	50±15

3.3 NR-BX468XS, NR-BX46BXS, NR-BX468GW/GK (AT 32 ± 1 °C)


TEMPERATURE CONTROL		COLDEST	(ECO - OFF)	(ECO - ON)	WARMEST
			MEDIUM		
Mean Fresh Food Compartment Temp.	t3 (°C)	1.0±2.5	3.0±2.5	4.5±2.5	5.5±2.5
Mean Freezer Load Temp.	(°C)	-23.0±2.5	-21.0±2.5	-19.5±2.5	-16.0±2.5
Vegetable Crisper Temp.	(°C)	-	3.5±2.5	4.5±2.5	-
PC Door Shelf Upper Tem.	(°C)	-	4.0±2.5	5.5±2.5	-
Egg Tray Temp.	(°C)	-	3.0±2.5	5.0±2.5	-
PC Door Shelf Bottom Temp.	(°C)	-	4.0±2.5	5.0±2.5	-
PF Case Temp.	(°C)	-	-3.0±1.5	-3.0±2.5	-
Running Ratio	(%)	70±15	65±15	60±15	50±15

3.4 NR-BX468VS , NR-BX468VW (AT 32 ± 1 °C)

TEMPERATURE CONTROL	COLDEST	(ECO - OFF)	(ECO - ON)	WARMEST
		MEDIUM		
Mean Fresh Food Compartment Temp. t3 (°C)	1.0±2.5	3.0±2.5	4.5±2.5	5.5±2.5
Mean Freezer Load Temp. (°C)	-22.5.0±2.5	-21.0±2.5	-19.5±2.5	-16.0±2.5
Vegetable Crisper Temp. (°C)	-	3.5±2.5	4.5±2.5	-
PC Door Shelf Upper Temp. (°C)	-	4.0±2.5	4.0±2.5	-
Egg Tray Temp. (°C)	-	3.0±2.5	3.0±2.5	-
PC Door Shelf Bottom Temp. (°C)	-	4.0±2.5	4.5±2.5	-
Chilled Case Temp. (°C)	-	1.0±1.5	1.0±2.5	-
Running Ratio (%)	70±15	65±15	60±15	50±15

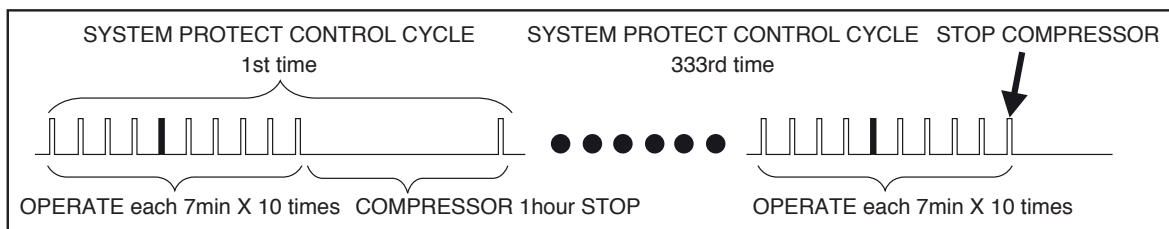
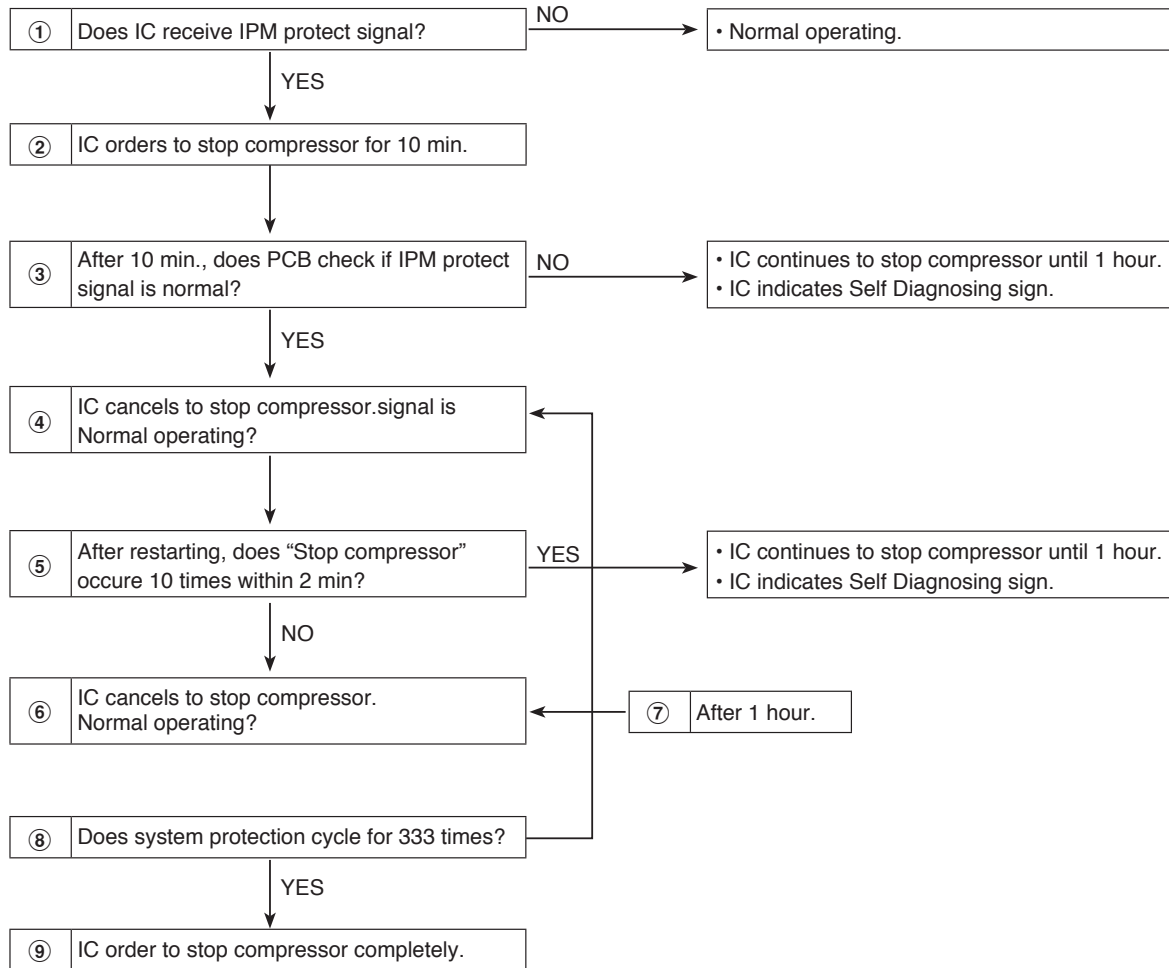
4. DISPLAY SPECIFICATION

NR-BX418VS, NR-BX41BVW, NR-BX418XS, NR-BW418GW/GK, NR-BX468XS,
NR-BX46BXS, NR-BX468GW/GK

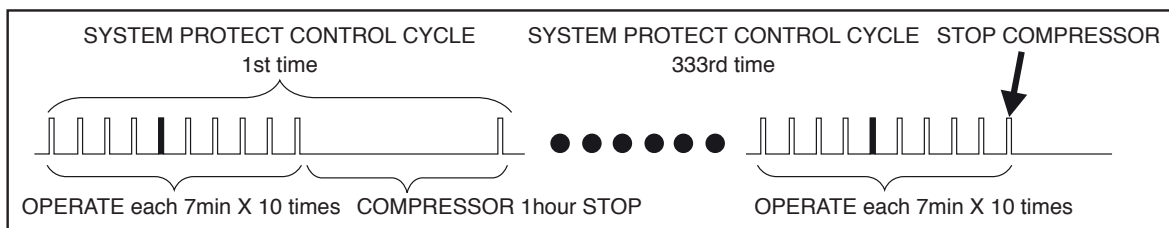
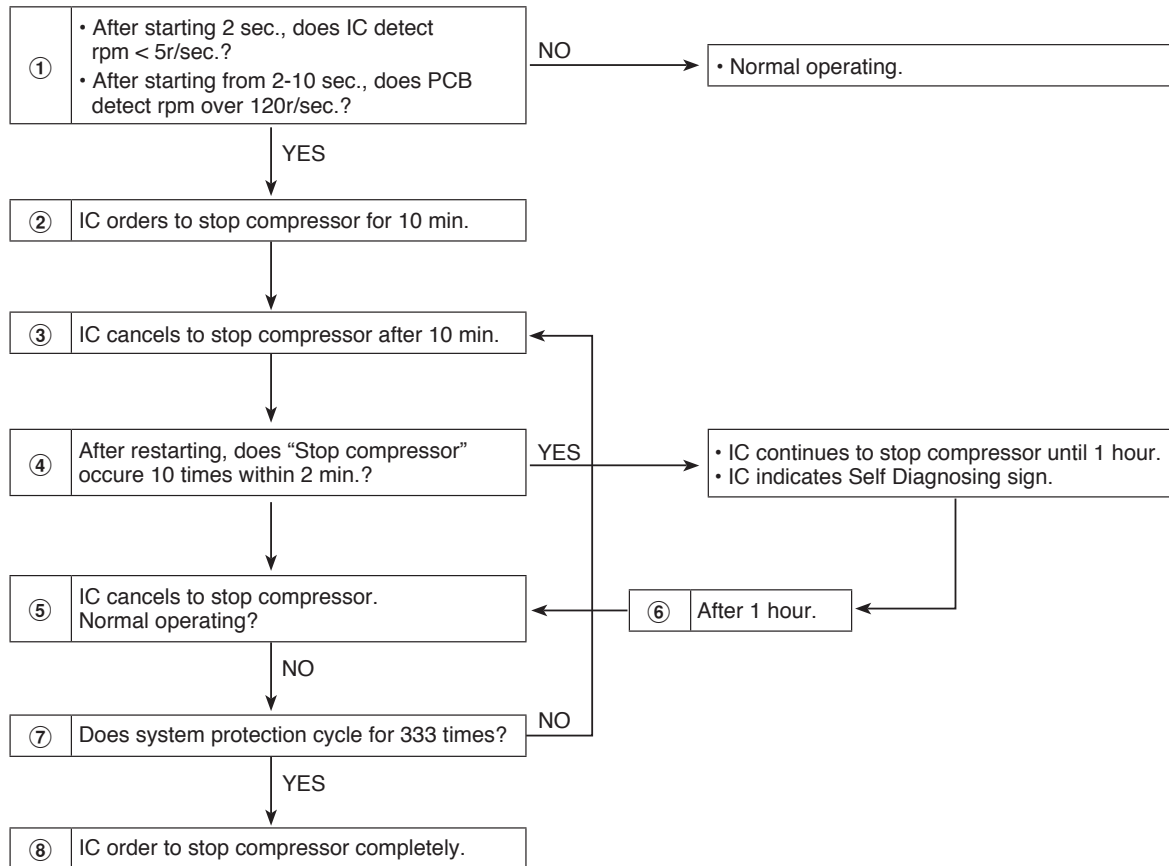
PROCESS INSPECTION		DISPLAY
		 <p>ECONAVI</p> <p>Quick freezing LED light</p> <p>Fridge control button</p> <p>Prime fresh control button</p> <p>Freezer control button</p>
IN-PROCESS INSPECTION		
	START CONDITION	Operate the following control within 3 sec. , within 30 sec., after power-on while PC door are open. Push Door switch more than 3 time but not over 10 time
	END CONDITION	1. Push Door switch more than 3 time but not over 10 time (Manual defrost) 2. After 4 hours (Defrost start)
	CONTENTS FOR CONTROL	COMP. : R5 (52 rps) FC FAN : High speed HEATER : Defrost heater off LED : ECONAVI LED has only for model which have operation panel BRINKING (ON_1sec/OFF_1sec)
MANUAL DEFROST		Push Door switch more than 3 time but not over 10 time
AUTO DIAGNOSIS		During IN-PROCESS INSPECTION
	JUDGEMENT	Indicate AUTO DIAGNOSIS in which case abnormal condition.
NOISE MODE		For 45 sec., of the start of IN-PROCESS INSPECTION
	CONTENTS	COMP. : R5 (52 rps)
INSPECTION OF TEMP.		For 30 min., of the start of IN-PROCESS INSPECTION
	JUDGEMENT	Normal or abnormality is displayed according to the range of drop of FCC ALL FREEZER LED LIGHTING.....GOOD ALL FREEZER LED BRINKING.....BAD
INSPECTION OF ILLUMINANCE SENSOR		During IN-PROCESS INSPECTION
	JUDGEMENT	After 1 min., of the start of IN-PROCESS INSPECTION Abnormality is judged according to variation width of input voltage of illuminance sensor. ECONAVI LED EXTINCTION.....GOOD ECONAVI LED BRINKING.....BAD

5. SELF PROTECTING FUNCTION

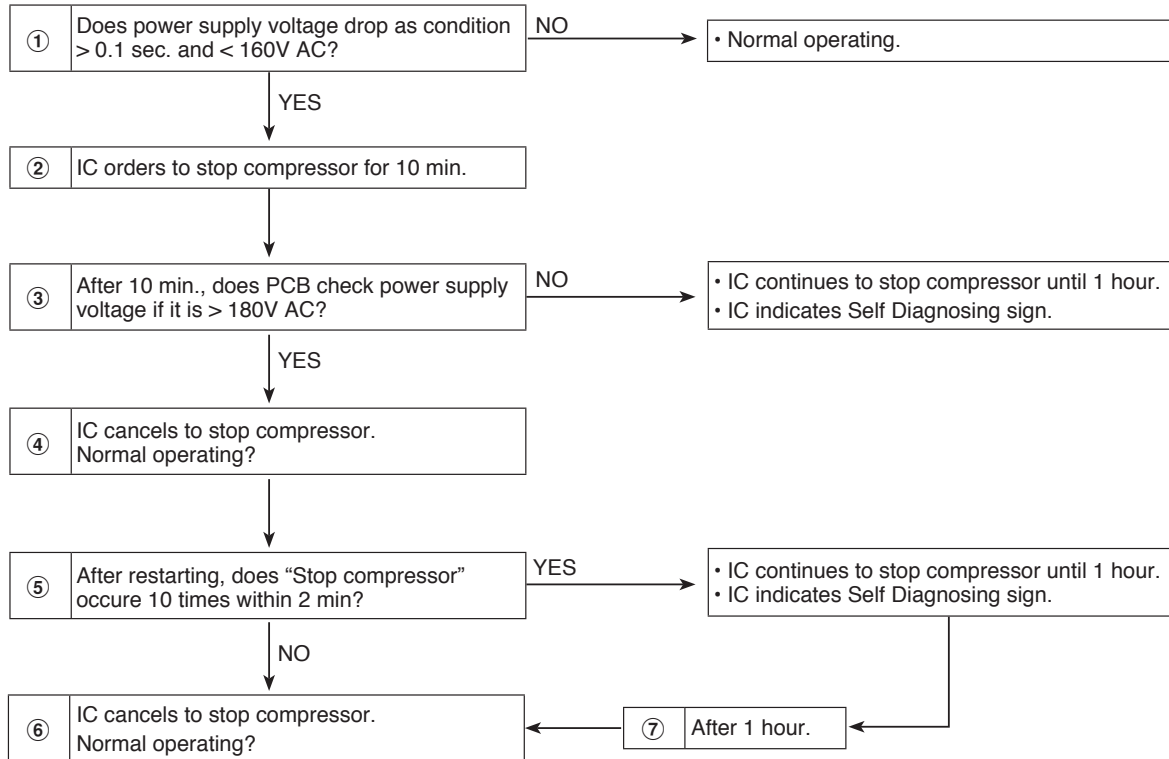
5.1 Protection for IC



5.2 Protection for compressor locked



5.3 Protection for power supply dropping



6. SELF DIAGNOSING FUNCTION

When abnormal is cased in the refrigerator, the sign is displayed on LED as below chart

How to use “ Self diagnosing “ function (Door control model)

1. Opening PC door push “ Fridge button “ more then 5 sec.
2. After blinking sec., each LED show as below.
3. “ Self diagnosing “ function will be automatically cancel after 7 min., from start operation.

How to use “ Self diagnosing “ function (Door control model)















1. Opening PC door and Door switch depressed push “ Fridge button “ more then 5 sec
(Initially , all LED will be on for 3 sec)
2. After blinking at see, each LED show as below.
3. “ Self diagnosing “ function will be automatically cancel after 7 min., from start operation.

No.	Failure mode	Corresponding diagnostic code (diagnostic code will not be displayed)	Quick Freezing LED	Control LED		
				Min.	Mid.	Max.
①	Detection of HC refrigerant leakage	H36	⊙	⊙	•	•
	(low-pressure leak)					
②	Detection of HC refrigerant leakage	H35	⊙	⊙	⊙	⊙
	(high-pressure leak)					
③	Disconnection or short circuit in ATC thermistor	H07 (defect in ATC thermistor)	⊙	⊙	⊙	•
④	Disconnection or short circuit in DFC thermistor	H05 (defect in DFC thermistor)	⊙	⊙	•	⊙
⑤	Disconnection or short circuit in FCC thermistor	H01 (defect in FCC thermistor)	⊙	•	⊙	⊙
⑥	Disconnection or short circuit in PCC thermistor	H02 (defect in PCC thermistor)	⊙	•	•	⊙
⑦	Disconnection or short circuit in PFC thermistor	H03 (defect in PFC thermistor)	⊙	•	⊙	•
⑧	Defect in FC defrost heater	H31(defect in FC defrost heater)	⊙	⊙	⊙	•
⑨	Defect in INV comp.	H40 (IPM lock protection)	⊙	•	•	•
		H41(undervoltage protection)				
		H52(overvoltage protection)				
⑩	Defect in PCB	H50 (communication error)	⊙	⊙	•	⊙
		H51 (error in EEPROM)				
⑪	Defect in illumination sensor	H64 (defect in illumination sensor)	⊙	•	•	•
⑫	Normal	—	•	•	•	•

[•] : Go out [•] : Light up [⊙] : Flash (0.16s ON / 0.16s OFF)

7. TEMPERATURE CONTROL


7.1 TEMPERATURE CONTROL NR-BX418XS, NR-BW418GW/GK, NR-BX41BXXS, NR-BX46BXS, NR-BX468GW/GK

 <p>The temperature can be adjusted for Min - Max levels. Press  or  or  to adjust temperature in Fridge, Prime Fresh or Freezer room respectively.</p>	"Fridge"		Lower than Med by 2°C ~ 3°C
			Approx. 1°C ~ 6°C
			Higher than Med by 2°C ~ 3°C
	"Prime Fresh"		Lower than Med by 2°C ~ 3°C
			Approx. -5°C ~ -1°C
			Higher than Med by 2°C ~ 3°C
			Approx. -1°C ~ 3°C
	"Freezer"		Lower than Med by 2°C ~ 3°C
			Approx. -23°C ~ -17°C
			Higher than Med by 2°C ~ 3°C


7.2 TEMPERATURE NR-BX418V, NR-BX468V, NR-BX41BVW, NR-BX46BVW

The temperature can be adjusted for Min-Max levels. Press  to adjust temperature in Freezer room and press  to adjust temperature in Fridge Room.

Fridge Room temperature control

"Max" Lower than Med by 2°C ~ 3°C	
"Med" Approx. 1°C ~ 6°C	
"Min" Higher than Med by 2°C ~ 3°C	

Freezer Room temperature control

"Max" Lower than Med by 2°C ~ 3°C	
"Med" Approx. -23°C ~ -17°C	
"Min" Higher than Med by 2°C ~ 3°C	

Temperature in Chill case is automatically set at approximately -1°C ~ 3°C

Remark

While operating the refrigerator for the first time, after connecting the plug, adjust the temperature to "Med" position of each control and leave it for 24 hours for the effective cooling operation. After that, adjust the temperature as you prefer. If you want to save the energy, do not adjust the temperature lower than the actual operating condition.

7.3 TEMPERATURE CONTROL (FINE ADJUSTMENT MODE)

This refrigerator is specially designed for appropriate use, which can adjust the temperature level to detailed 9 levels with the following details.

How to operate the “9 levels” mode

For the Freezer room

1. Set LED display to “Min” with the “Freezer” button.
2. Press and hold the “Freezer” button (for a few seconds) until the LED display return to show at “Min” position.
3. Set “9 levels” mode following below table mentioned by pressing the “Freezer” button.

■ LED Display table (Model: NR-BX418XS, NR-BW418GW/GK, NR-BX41BXS, NR-BX46BXS, NR-BX468GW/GK)

Cooling Level	<div> <div>Minimum</div> <div> </div> <div>Maximum</div> </div>								
Step	1	2	3	4	5	6	7	8	9
LED DISPLAY									

Lighting
 Blinking
 Not lighting

■ LED Display table (Model: NR-BX418V, NR-BX468V, NR-BX41BVW, NR-BX46BVW)

Cooling Level	<div> <div>Minimum</div> <div> </div> <div>Maximum</div> </div>								
Step	1	2	3	4	5	6	7	8	9
LED DISPLAY	<div>Max</div> <div>Med</div> <div>Min</div>	<div>Max</div> <div>Med</div> <div>Min</div>	<div>Max</div> <div>Med</div> <div>Min</div>	<div>Max</div> <div>Med</div> <div>Min</div>	<div>Max</div> <div>Med</div> <div>Min</div>	<div>Max</div> <div>Med</div> <div>Min</div>	<div>Max</div> <div>Med</div> <div>Min</div>	<div>Max</div> <div>Med</div> <div>Min</div>	<div>Max</div> <div>Med</div> <div>Min</div>

Lighting
 Blinking
 Not lighting

For the Fridge room

Operate above 1 ~ 3 steps with pressing “Fridge” button instead of “Freezer” button.

To reset the setting “9 levels” mode

Repeat step 1 and 2, then the refrigerator return to normal operation mode.



Remark:



Temperature control varies depends on the changing of environment and food storage quantity.

8. OPERATION

8.1 QUICK FREEZING

How to operate the “Quick Freezing” mode

- Press the button “Freezer” until Blue light LED  turns on. “Quick Freezing” mode starts after 5 seconds.
- The system will stop operating automatically when it runs for 120 mins (as ambient temperature is below 25°C) or 150 mins (as ambient temperature is above 25°C) and return to normal mode (Blue light LED  turns off.)

- Remarks :**
- If you want to stop the operation immediately, press and hold the button “Freezer” until Blue light LED  turns off.
 - Blue light LED  flashing means that the defrosting system is now working “Quick Freezing” mode will start right after the defrosting operation is finished.
 - Freezer temp. control does not operate during “Quick Freezing” mode.

8.2 ECONAVI OPERATION

Model : NR-BX418XS, NR-BW418GW/GK, NR-BX46BXS, NR-BX46BXS, NR-BX468GW/GK

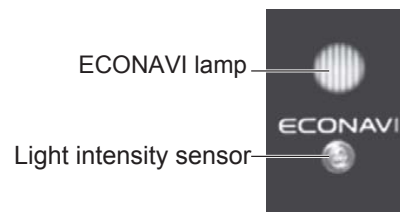
Detect opening and closing of door and brightness around refrigerator, and automatically controls operation to save energy¹.

ECONAVI lamp is on during ECONAVI operation

- This refrigerator will learn the lifestyle patterns of your family from opening and the time periods of infrequent use to perform ECONAVI operation.

Remark :

- The refrigerator learns your lifestyle pattern from the previous 3 weeks, and uses what it has learned from the 4th week onwards. Therefore, the ECONAVI lamp “ON/OFF” pattern may change from the 4th week onwards.
- The brightness of the lamp is lowered approximately 5 minutes after the lamp turns on.



Setting for enabling ECONAVI operation

- ECONAVI operation is enabled automatically only when the temperature control of the freezer compartment are set to “Med”.
(However, ECONAVI does not operate while quick freezing is operating.)
- It is not possible to forcefully start ECONAVI operation.

Remark :

¹ Effectiveness differs depending on the ambient temperature, ambient brightness, number of times and when doors are opened and closed, and state in which food is stored.

Model : NR-BX418V, NR-BX468V, NR-BX41BVW, NR-BX46BVW

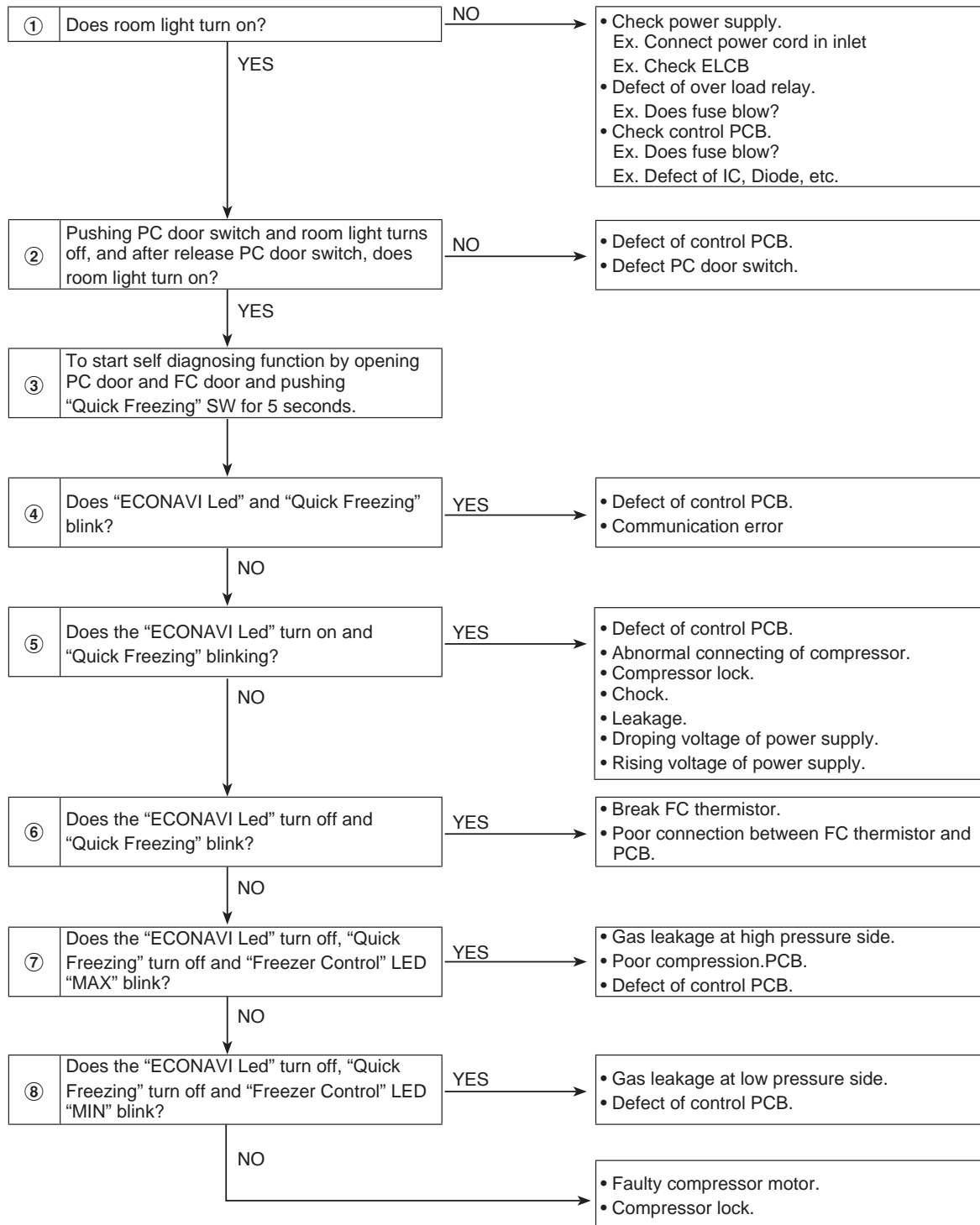
This model also has ECONAVI mode, but it does not feature ECONAVI lamp and light intensity sensor.

9. REFRIGERATOR INSTRUCTION GUIDELINE

1. Do not open the refrigerator frequently or leave it open for a long time. This is to prevent water dripping inside the refrigerator which will cause the waste of coolness and consuming of energy.
2. Do not refrigerate unnecessary items or hard-to-rot foodstuff such as pumpkin, shallot, garlic, potato as it will make the refrigerator to work over load and waste the storage space without necessity.
3. Adjust the temperature according to the actual operating condition for energy saving.
4. Do not refrigerate the bottles bigger than the door shelf or the tray as the door will not close completely, which will cause the leakage of coolness.
5. Frequently check the door opening seal, it must be closed to the refrigerator's body completely. Do not leave the seal dirty or damaged or deteriorated as the coolness will leak and will cause the consumption of the energy without necessity.
6. If you will not be at home for several days or there are nothing refrigerated in the refrigerator, the plug should be disconnected for energy saving. In this case, clean the refrigerator and leave it half-open to prevent bad odor.
7. Clean the drain tray located over the compressor at the back of the refrigerator every 3 months to prevent the odor generated from humidity.
8. Energy saving dryer pipes and heating pipes embedded around the refrigerator cabinet are helping to prevent "Condensation" on the outer surface of the cabinet without consuming energy. This will make the outer wall of the refrigerator get warm and that is not a malfunction.
9. Drinking water bottles, beverage bottles such as soft drinks and fruit juices should be sealed closely to prevent odor gets into the bottles.

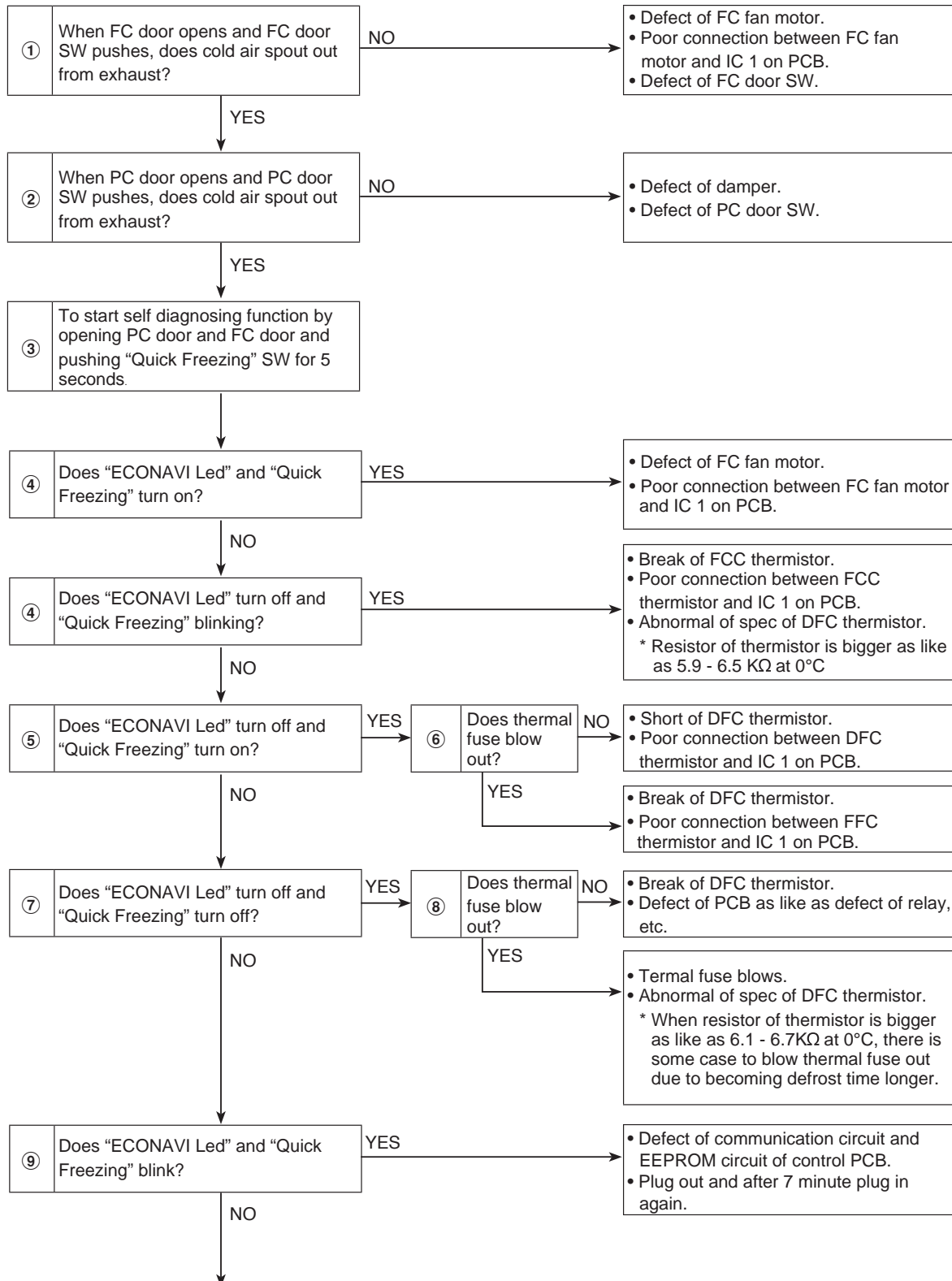
10. TROUBLESHOOTING GUIDE

10.1 Not cool at all [Both PC & FC (compressor does not operate)]

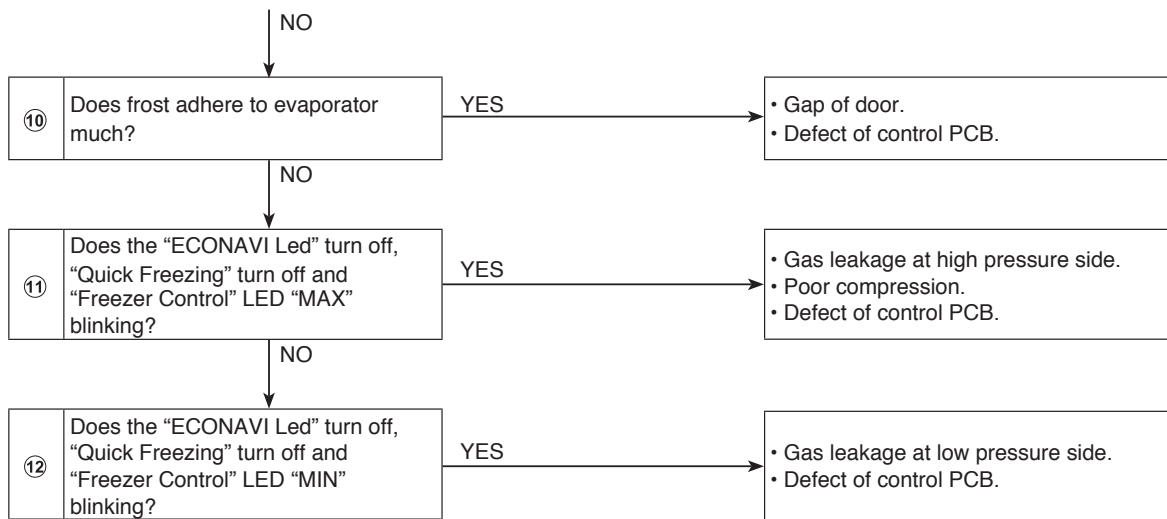


10.2 Cool, not enough [Both PC & FC (compressor operates)]

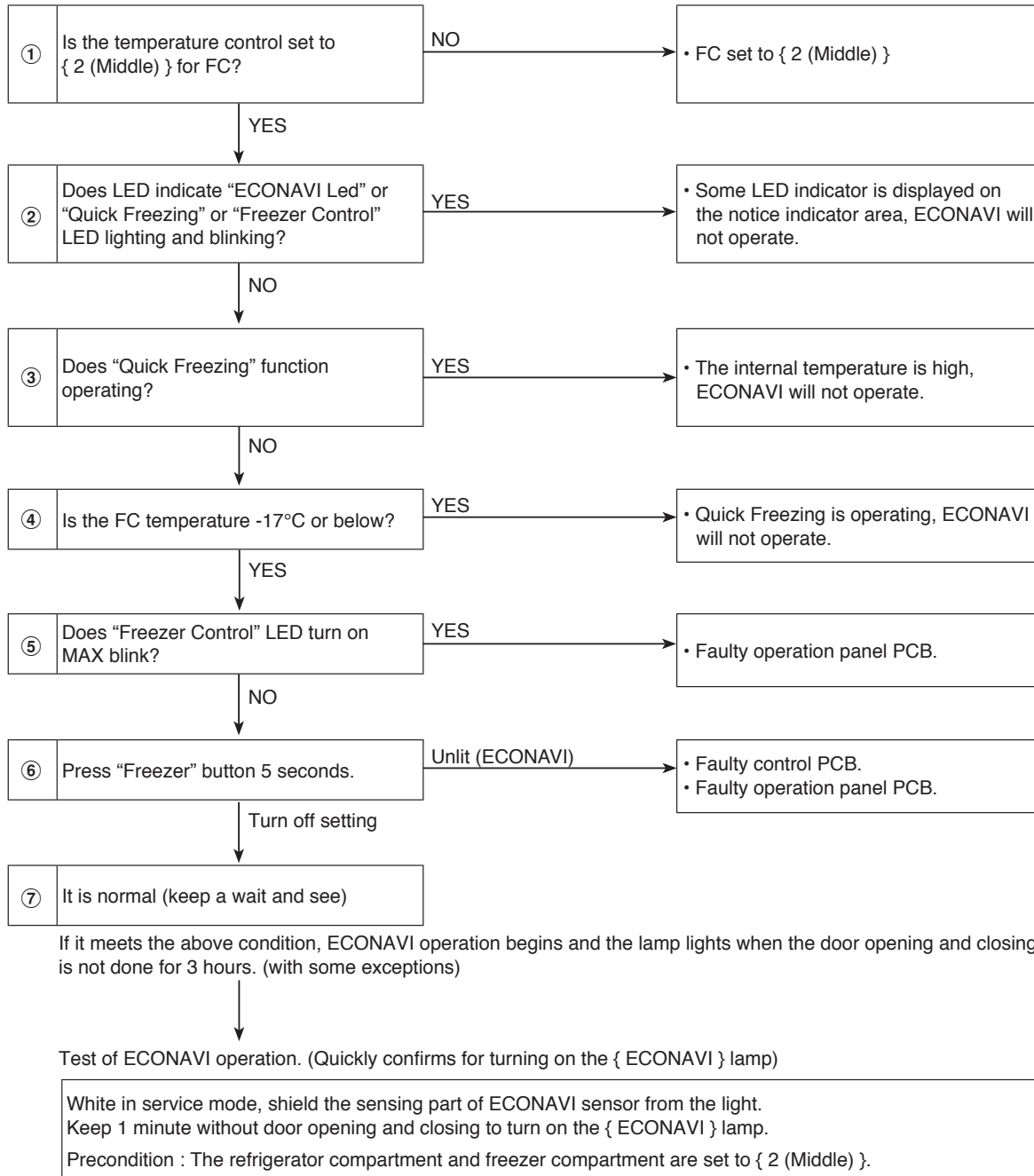
To confirm when compressor is operating.



To confirm when compressor is operating.



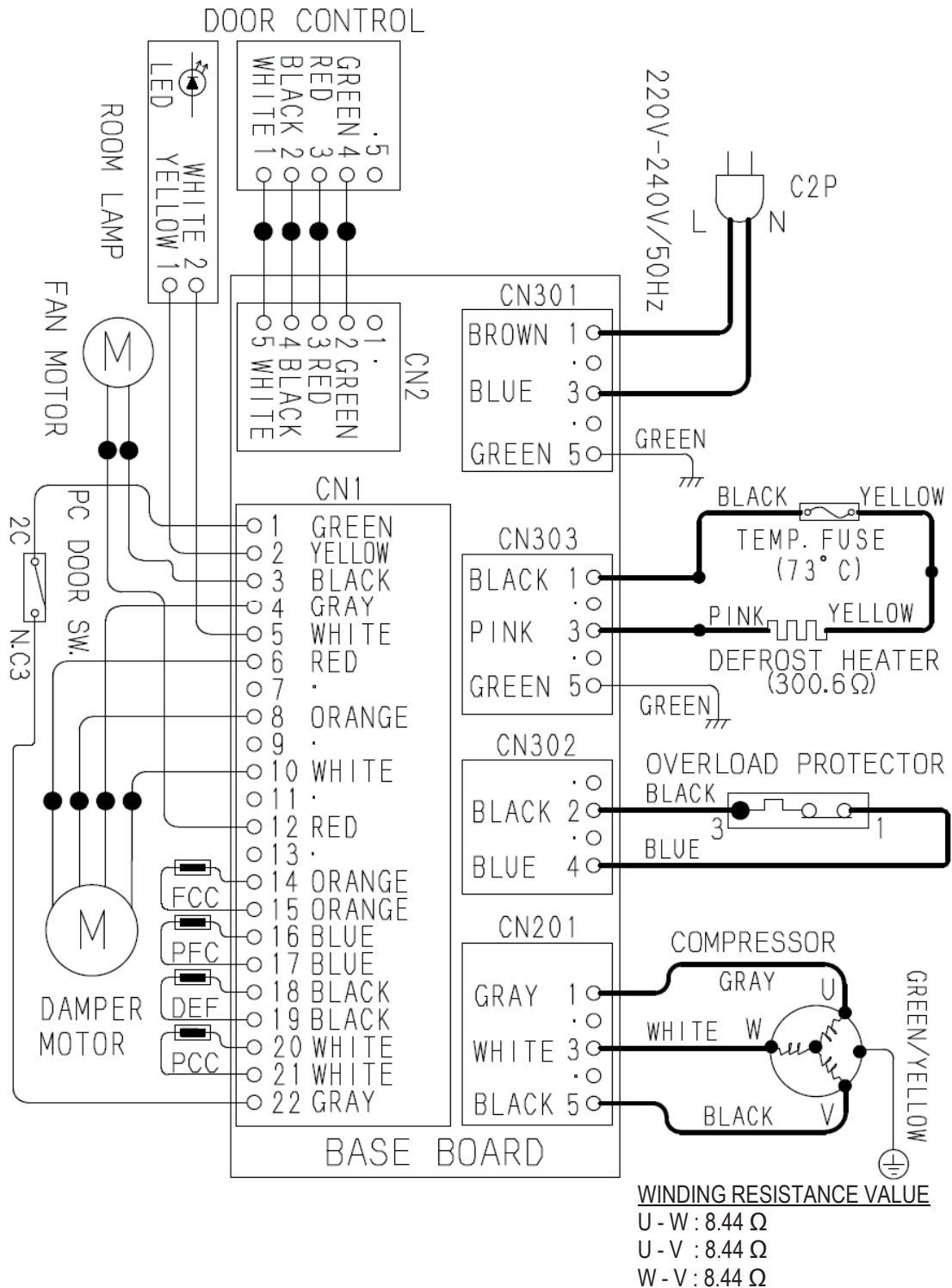
10.3 ECONAVI operation doesn't work (PC/FC/IC cooling condition is normal)



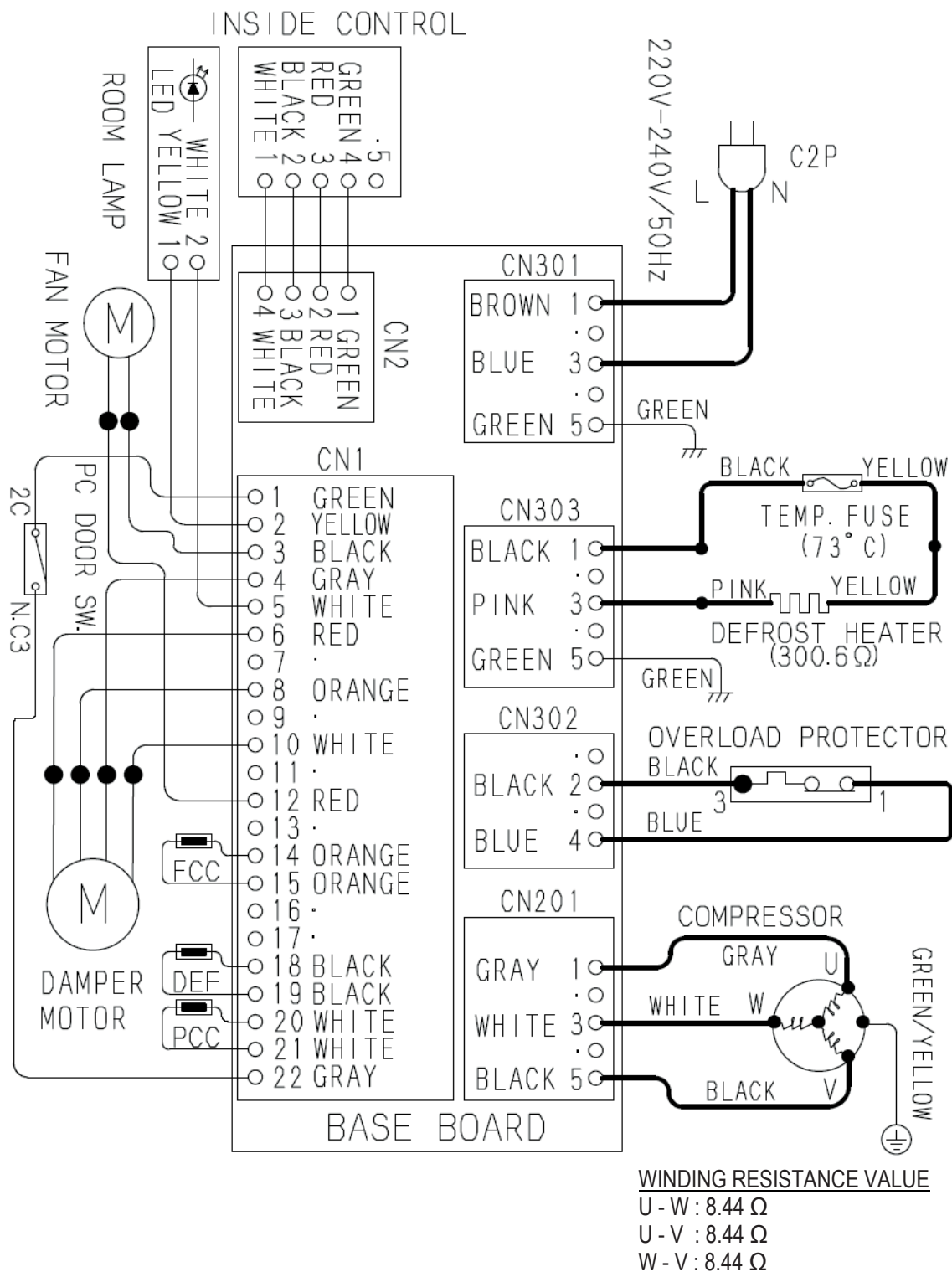
11. SCHEMATIC DIAGRAM

11.1 WIRING DIAGRAM : NR-BX418XS, NR-BX468XS / NR-BX418GW, NR-BX468GW NR-BX41BXS, NR-BX46BXS, NR-BX418GK, NR-BX468GK

INVERTER



11.2 WIRING DIAGRAM : NR-BX418VS, NR-BX418VW / NR-BX468VS, NR-BX468VW NR-BX41BVW, NR-BX46BVW



12. DISASSEMBLY INSTRUCTION

12.1 COVER LED LAMP / PAS-BW468(LED)



Fig. 1



Fig. 2

1. Prepare black tape to head of screwdriver (Regular tips) as Fig.1
2. Take off cover LED lamp by use screwdriver put between gaps of cover LED lamp with PC Liner at the lock point as Fig. 2.

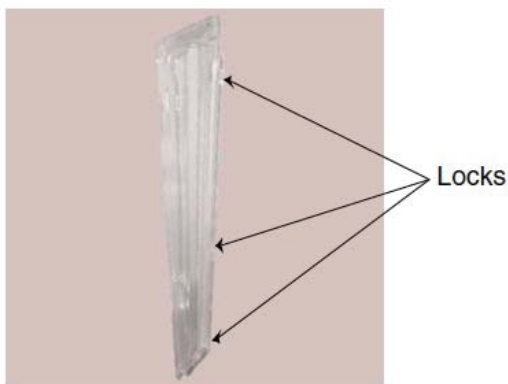


Fig. 3



Fig. 4

3. Check the locks point by see at "Arrow Mark" 3 position as Fig. 3.
4. Use screwdriver push up PAS-BW468V (LED) soft and carefully for lock loose as Fig. 4.



Fig. 5

5. Use hand pull up socket of PAS-BW468V (LED) for change new part as Fig.5.

12.2 PAS-OPERATED CONTROL (DOOR) FOR G TYPE



Fig. 1

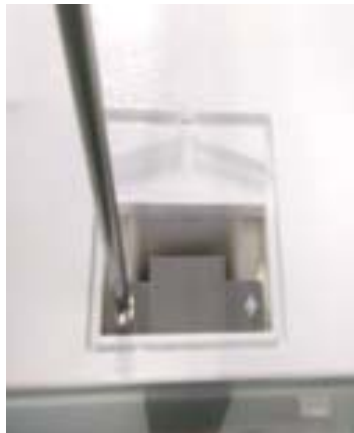


Fig. 2



Fig. 3

1. Take off cover board control at PC Door as Fig. 1.
2. Take off screw 1 pcs at PC door by use screwdriver as Fig. 2.
3. Pull out Holder board control up as Fig. 3.



Fig. 4



Fig. 5

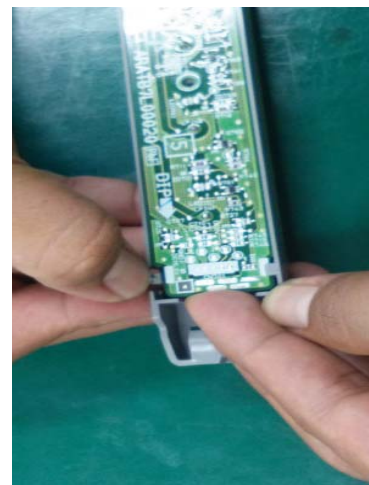


Fig. 6

4. Take off Lead Wire Socket which contact at PAS-operated control (Door) as Fig. 4.
5. Take off screw by screwdriver at PAS-operated control (Door) as Fig. 5.
6. Use hands pull at lock for left up PAS-operated control (Door) loose from Holder board control as Fig. 6.

12.3 PAS-OPERATED CONTROL (DOOR) FOR X TYPE



Fig. 1



Fig. 2

1. Take off by use small screwdriver put between gaps Door control As with PC door try to push it in front slowly for locks loose and pull up as Fig. 1
2. Take off Lead Wire Socket which contact at PAS-operated control (Door) as Fig.2



Fig. 3



Fig. 4

3. Take off screw by screwdriver at PAS-operated control (Door) Fig. 3
4. Use hands pull at lock for left up PAS-operated control (Door) loose from Cover Control Fig.3

12.4 COVER DAMPER PC AS / FAN MOTOR.



Fig. 1



Fig. 2

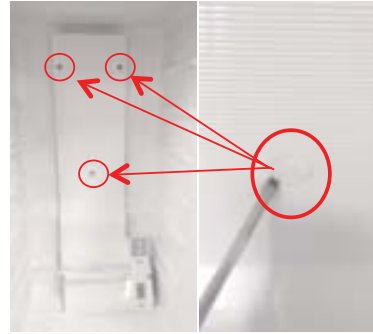


Fig. 3

1. Take off screw at Barrier PF As by use screwdriver 4 position as Fig.1
2. Pull out Barrier PF As slowly as Fig.2
3. Use screwdriver open at bottom plate control , take off screw on cover duct PC 4 position and take off cover duct control as Fig.3



Fig. 4

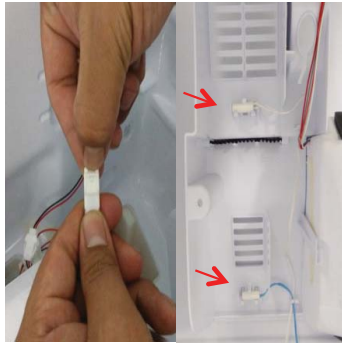


Fig. 5



Fig. 6

4. Take off screw at cover damper PC As 2 position and pull out Cover damper PC slowly as Fig.4
5. Take off connector Lead wire of electric damper and PCC sensor , PFC sensor from cover duct PC As as Fig.5
6. After that take off at the cover damper and other parts as Fig.6



Fig. 7



Fig. 8

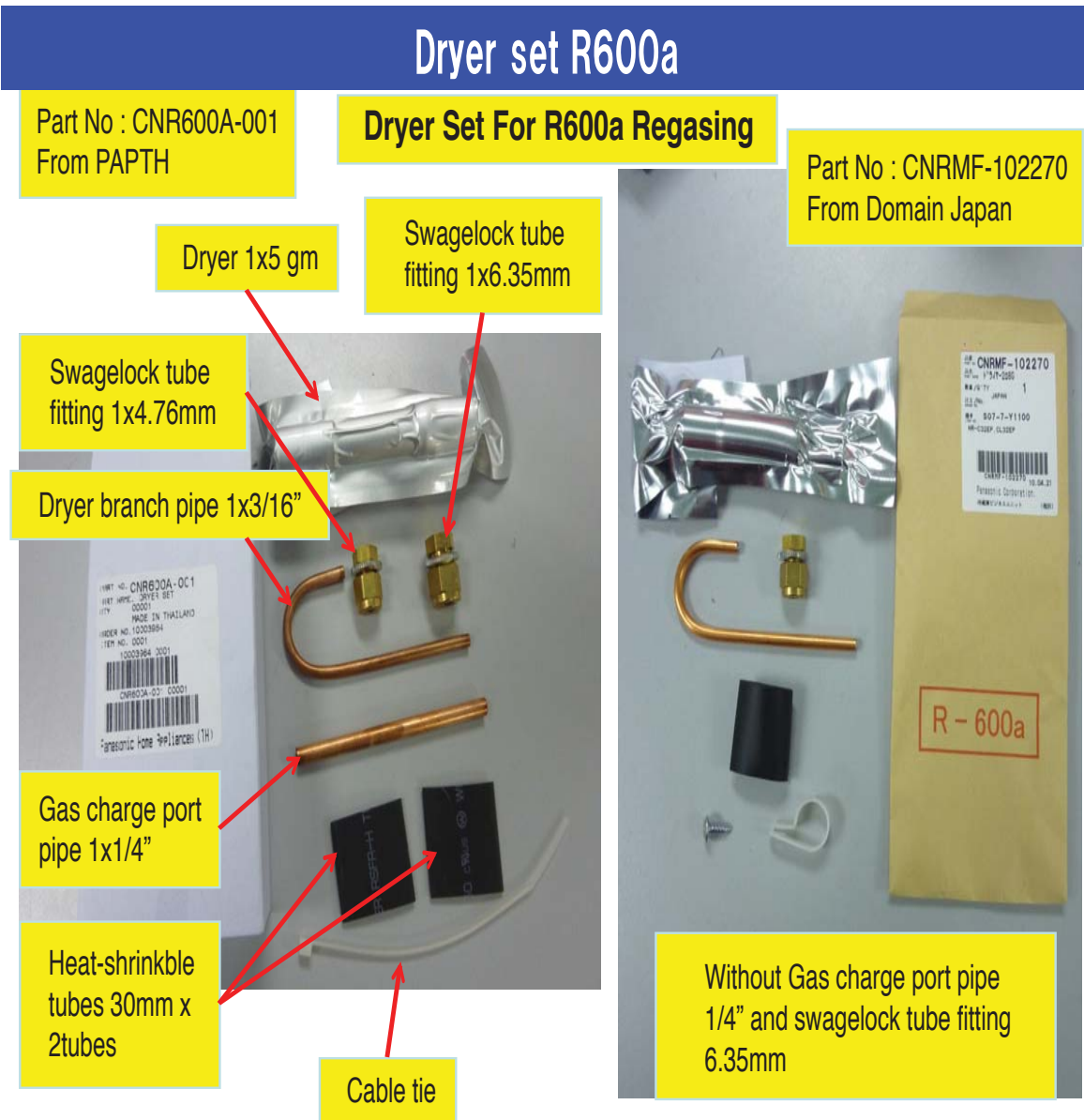


Fig. 9

7. Take off connector of Fan motor as Fig.7
8. Take off fan motor by use hand pull at rib lock 2 position and push out fan motor as Fig.8
9. After that take off fan motor as Fig.9

13. SERVICE INFORMATION

13.1 Dryer set (Kit) R600a



13.2 Insert the D-joint Pipe (Capillary tube into Dryer)

1) Insert the capillary tube into the position of the mesh.(Pic.1)



Pic.1

2) Mark the position where the tube touched the mesh.(Pic.2)



Pic.2

3) Return the capillary tube about 5mm.(Pic.3)

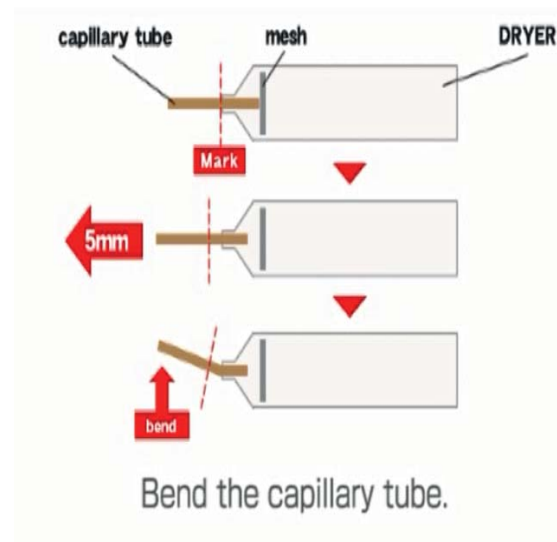


Pic.3

4) Bend the capillary tube.(Pic.4)



Pic.4



13.3 Notes of wire connected work (Scotch Lock)

How to use scotch lock

Scotch lock is used when a branch circuit is made in parallel or is connected with the series with a **DC** electric circuit.

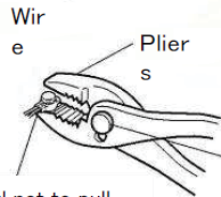
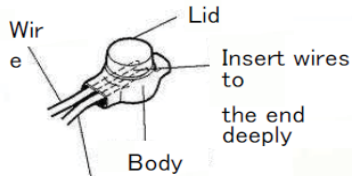
- Scotch lock is a parts that can connect with non-stripped wires.

No need to strip wire beforehand.

When stripped wire is connected with scotch lock, it will come off.

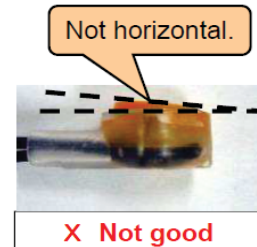
Part no : CNRMC-101350

- When scotch lock is caulked with pliers, **be sure to caulk while pushing lead wires towards back side.**
Otherwise an electric circuit will not be connected properly.



Be careful not to pull wires out when it is caulked.

Pin of pliers should be set to inner hole position.

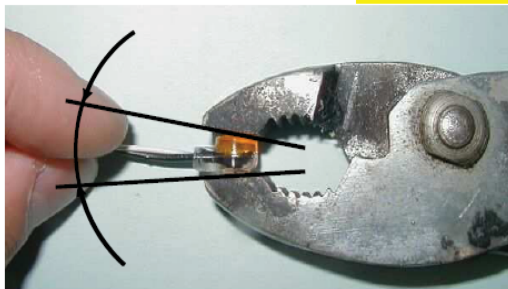


Caulk with pliers until the lid goes down to the height that is even to the body height.

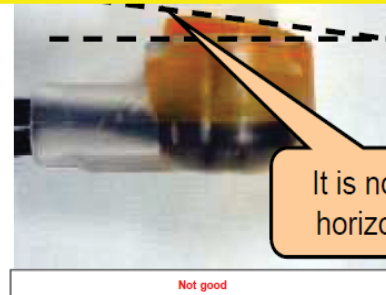
- After caulking with pliers 2 or 3 times, **check if it is fixed by pulling lead wires.**

How to use scotch lock

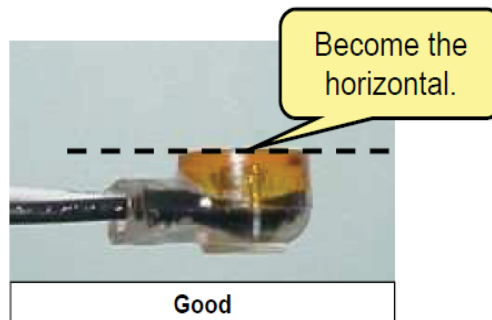
Scotch lock is used when wiring diverges in parallel or is connected with the series with a **DC** electric circuit.



Insertion shortage is noted.

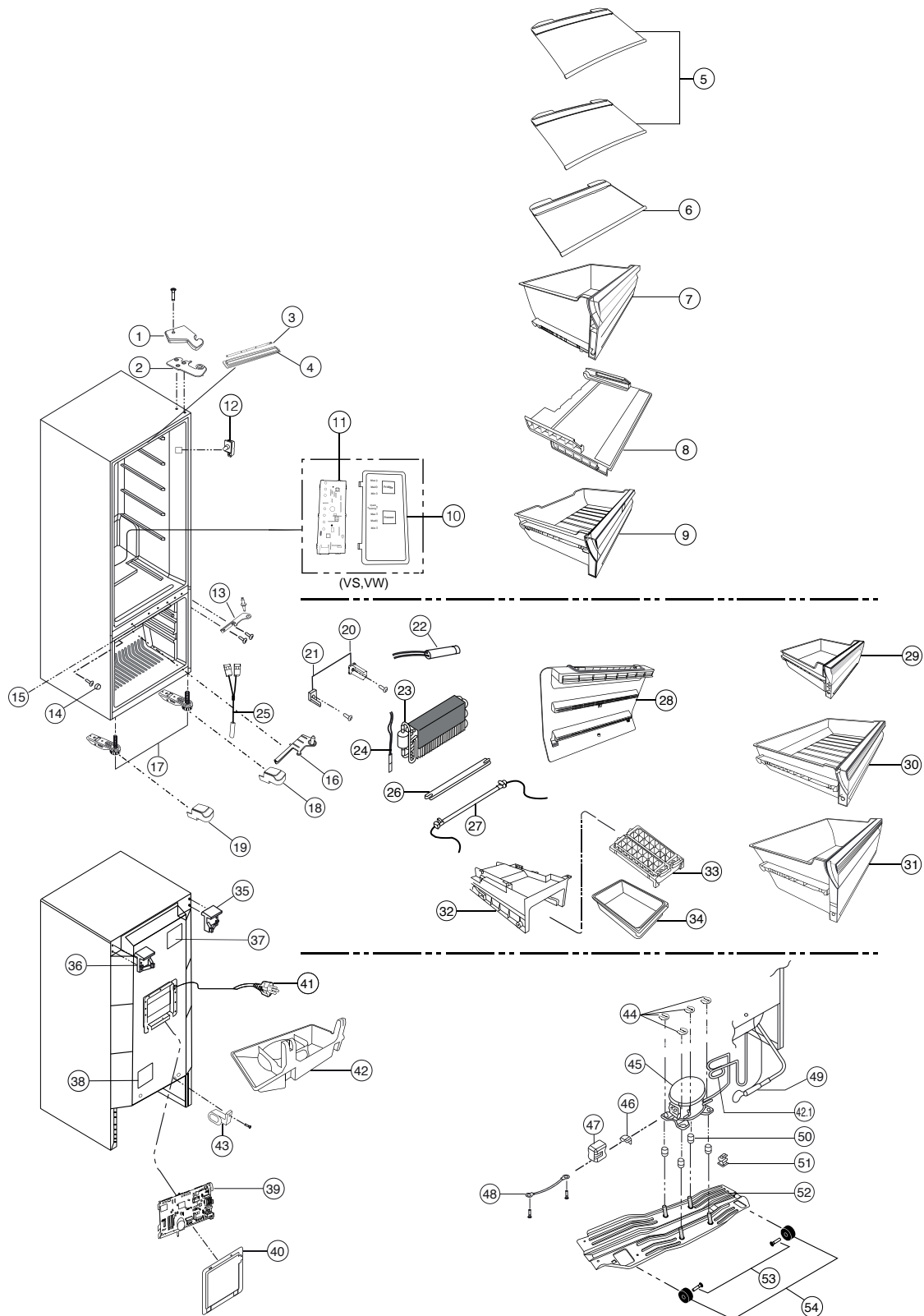


Crimped with pliers or crimping tool 2 or 3 times, and confirm to pull the code.

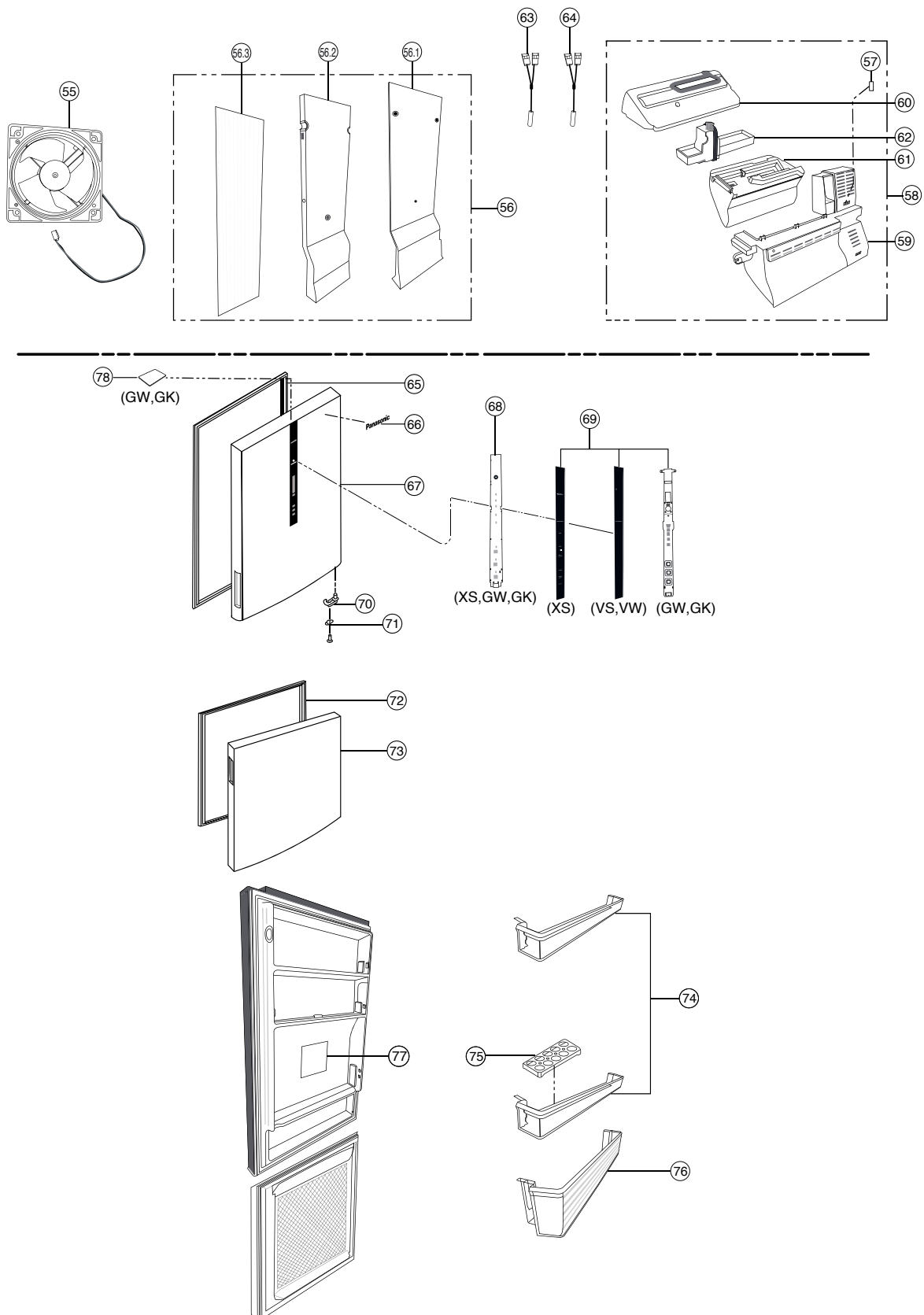


14. PARTS EXPLODED VIEW AND REPLACEMENT PARTS LIST

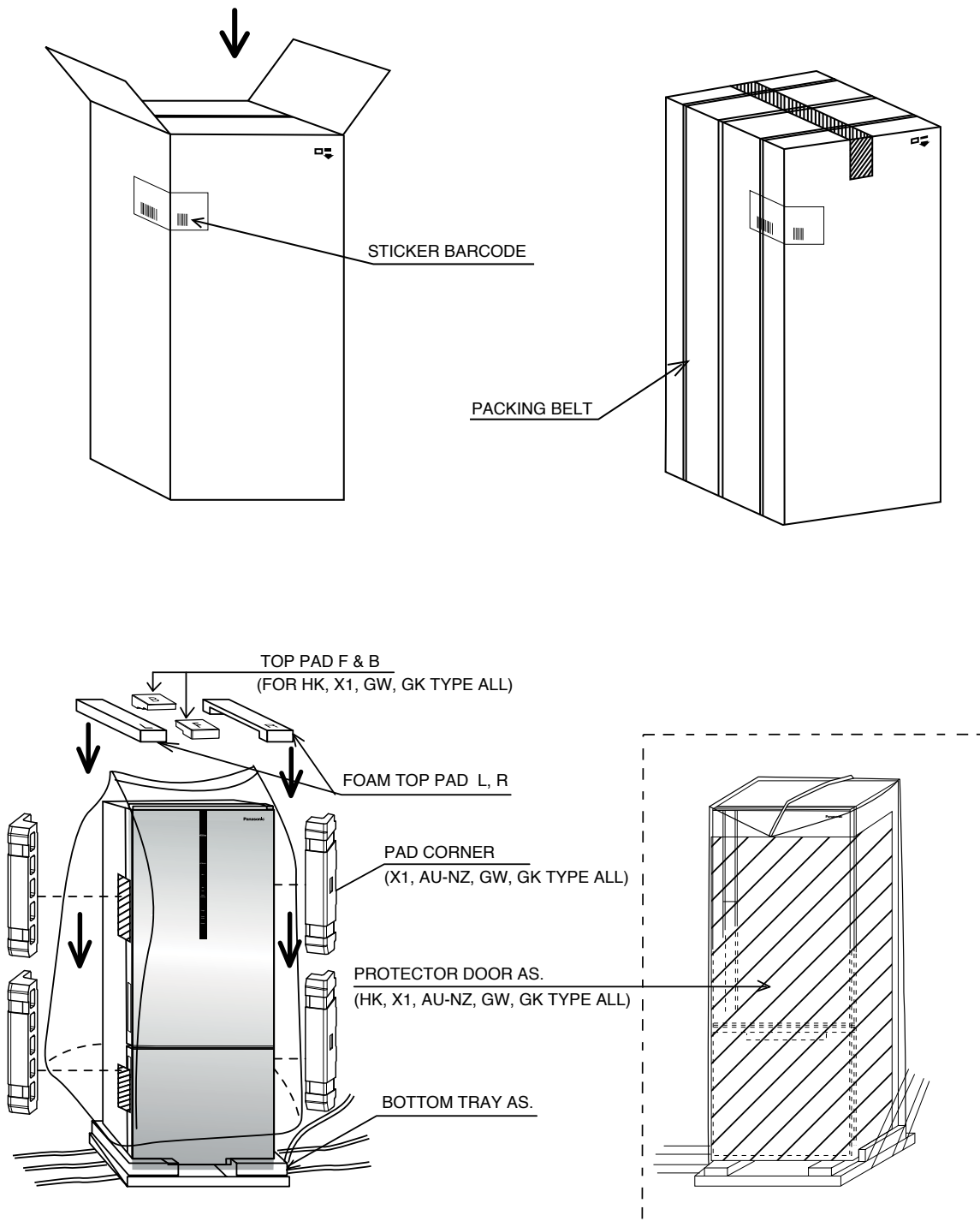
14.1 PARTS EXPLODED VIEW : BODY



14.2 PARTS EXPLODED VIEW : DOOR



14.3 PARTS EXPLODED VIEW : PACKING



REPLACEMENT PARTS LIST

Important safety notice :

Components identified by mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified part.

Part List : NR-BX418, NR-BX41B SERIES

Safety	Ref. No.	Part name	Part No.	Model/Qty					Remark
				NR-BX418/NR-BX41B					
				XS	VS	VW	GW	GK	
	1	COVER HINGE TOP	CNRAE-143500	1					COLOUR : STAINLESS
		COVER HINGE TOP	CNRAE-143390		1				COLOUR : SHINNING SILVER (S)
		COVER HINGE TOP	CNRAE-143490			1	1		COLOUR : KOREA WHITE SOLID
		COVER HINGE TOP	CNRAE-143640					1	COLOUR : ARISTON BLACK
⚠	2	HINGE TOP	CNRAE-143480	1	1	1	1	1	
⚠	3	PAS-BW468(LED)	CNRBG-181513	1	1	1	1	1	
	4	COVER LED LAMP	CNRAH-290283	1	1	1	1	1	
	5	TRAY PC AS.	CNRBH-162310	2	2	2	2	2	
	6	TRAY CRISPER AS.	CNRBH-162320	1	1	1	1	1	
	7	CASE CRISPER AS.	CNRBH-162251	1	1	1	1	1	
	8	BARRIER PF AS	CNRBH-162241		1	1			
		BARRIER PF AS	CNRBH-162231	1			1	1	V Type
	9	CASE PF AS.	CNRBH-162261	1	1	1	1	1	X,G Type
	10	COVER CONTROL AS.	CNRBH-162221		1	1			V Type
⚠	11	PAS-OPERATION PCB (INSIDE)	ARBPO1A00090		1	1			V Type
	12	DOOR SW.	CNRAG-153290	1	1	1	1	1	
⚠	13	HINGE CENTER	CNRAE-143230	1	1	1	1	1	
	14	CAP PAN H.4TS (N)	CNR391627200	1	1				
	15	CAP PAN H.4TS (W)	CNR391624310			1	1		
	15	CAP PAN H.4TS (K)	CNR391613410					1	COLOUR : BLACK
⚠	16	HINGE BOTTOM	CNRAE-143200	1	1	1	1	1	
	17	CASTER L AS.	CNRBC-365190	1	1	1	1	1	
		CASTER R AS.	CNRBC-365200	1	1	1	1	1	
	18	COVER LEG R	CNRAJ-171472	1					COLOUR : STAINLESS
		COVER LEG R	CNRAJ-172373		1				COLOUR : SHINNING SILVER (S)
		COVER LEG R	CNRAJ-172383			1	1		COLOUR : KOREA WHITE SOLID
		COVER LEG R	CNRAJ-173170					1	COLOUR : ARISTON BLACK
	19	COVER LEG L	CNRAJ-172392	1					COLOUR : STAINLESS
		COVER LEG L	CNRAJ-172403		1				COLOUR : SHINNING SILVER (S)
		COVER LEG L	CNRAJ-172413			1	1		COLOUR : KOREA WHITE SOLID
		COVER LEG L	CNRAJ-173180					1	COLOUR : ARISTON BLACK
	20	SUPPORT COIL D	CNRAF-183091	1	1	1	1	1	
	21	SUPPORT COIL	CNRAF-163503	1	1	1	1	1	
	22	SENSOR DEF.	CNRAG-168580	1	1	1	1	1	
	23	COIL AS.	CNRBF-164301	1	1	1	1	1	
	24	TEMP FUSE AS.	CNRBG-202560	1	1	1	1	1	
	25	SENSOR FCC	CNRAG-175141	1	1	1	1	1	
	26	COVER RADIANT	CNRAG-161260	1	1	1	1	1	
⚠	27	HEATER AS. DEFROST	CNRAG-169652	1	1	1	1	1	
	28	COVER COIL AS.	CNRBF-164311	1	1	1	1	1	
	29	CASE FCT AS	CNRBH-162282	1	1	1	1	1	
	30	CASE FCM AS	CNRBH-162292	1	1	1	1	1	
	31	CASE FCB AS	CNRBH-162302	1	1	1	1	1	
	32	HOLDER ICE TRAY	CNRAH-326181	1	1	1	1	1	
	33	ICE CUBE TRAY AS.	CNRBH-135250	1	1	1	1	1	
	34	BOX ICE TRAY	CNRAH-227460	1	1	1	1	1	
	35	HANGER SHELL R AS.	CNRBC-299074	1	1	1	1	1	
	36	HANGER SHELL L AS.	CNRBC-299083	1	1	1	1	1	
⚠	37	WIRING DIAGRAM - XSVN	CNRAH-329622	1					
		WIRING DIAGRAM - XSMY	CNRAH-329631	1					
		WIRING DIAGRAM - XSPH	CNRAH-329641	1					
		WIRING DIAGRAM - XSHK	CNRAH-329651	1					
		WIRING DIAGRAM - XSAU	CNRAH-329662	1					
		WIRING DIAGRAM - VSTH	CNRAH-329681		1				
		WIRING DIAGRAM - VSVN	CNRAH-329692		1				
		WIRING DIAGRAM - VS1D	CNRAH-329701		1				
		WIRING DIAGRAM - VSWA	CNRAH-329611		1				
		WIRING DIAGRAM - VSX1	CNRAH-329711		1				
		WIRING DIAGRAM - VSAU	CNRAH-329722			1			
		WIRING DIAGRAM - GWVN	CNRAH-329731				1		
		WIRING DIAGRAM - GWMY	CNRAH-329741				1		
		WIRING DIAGRAM - GWHK	CNRAH-329751				1		
		WIRING DIAGRAM - GKMY	CNRAH-336560					1	COLOUR : BLACK
		WIRING DIAGRAM - GKVN	CNRAH-336570					1	COLOUR : BLACK
		WIRING DIAGRAM - GK1D	CNRAH-336580					1	COLOUR : BLACK
⚠	38	LABEL HC BACK - EXPORT	CNRAH-269292	1	1	1	1	1	LANGUAGE : ENGLISH
		LABEL HC BACK - TH	CNRAH-311730		1			1	LANGUAGE : THAI
⚠	39	PAS-CONTROL PCB AS	ARBPC1A01774	1			1	1	FOR TH,MY,SG,PH,HK,WA,X1
		PAS-CONTROL PCB AS	ARBPC1A02123	1		1			FOR VN,AU,NZ
		PAS-CONTROL PCB AS	ARBPC1A01784		1				FOR TH,1D,WA,X1
		PAS-CONTROL PCB AS	ARBPC1A02133		1	1			FOR VN,AU,NZ

Safety	Ref. No.	Part name	Part No.	Model/Qty					Remark
				NR-BX418/NR-BX41B					
				XS	VS	VW	GW	GK	
	40	COVER BOARD AS.	CNRBC-377851	1	1	1	1	1	
⚠	41	SUPPLY CORD AS. - TH	CNRBG-202031	1	1		1	1	FOR TH
		SUPPLY CORD AS. - MY,SG,HK	CNRBG-201921	1			1	1	FOR MY,SG,HK
		SUPPLY CORD AS. - VN	CNRBG-202080	1	1		1	1	FOR VN
		SUPPLY CORD AS. - 1D	CNRBG-202320		1			1	FOR 1D
		SUPPLY CORD AS. - PH	CNRBG-202090	1					FOR PH
		SUPPLY CORD AS. - WA	CNRBG-202580		1				FOR WA
		SUPPLY CORD AS. - X1	CNRBG-202100	1	1		1		FOR X1
		SUPPLY CORD AS. - AU,NZ	CNRBG-202110			1			FOR AU-NZ
	42	PAN WATER EVA.	CNRAF-196452	1	1	1	1	1	
	42.1	PIPE WATER EVA.	CNRAF-196481	1	1	1	1	1	
	43	CLAMP PIPE WATER EVA.	CNRAF-175252	1	1	1	1	1	
	44	U-RING 7	CNRAJ-163240	4	4	4	4	4	
	45	COMP. ER1100E13DGH-C0ECS	CNR91-236280	1			1	1	FOR XS GW
		COMP. EF1100E13DGH-C0ECS	CNR91-236390		1	1			FOR VN VW
⚠	46	MOTOR PROTECTOR	CNR06-598071	1	1	1	1	1	
	47	PROTECTOR COVER	CNRAG-170461	1	1	1	1	1	
	48	EARTH WIRE AS. COMP.150	CNRBG-168610	1	1	1	1	1	
	49	5 DRYER W	CNR393400920	1	1	1	1	1	
	50	RUBBER GROMMET	CNRAJ-163250	4	4	4	4	4	
	51	CLAMPER DRYER	CNR39-350251	1	1	1	1	1	
	52	CROSSRAIL REAR AS.	CNRBF-164321	1	1	1	1	1	
	53	PIN CASTER	CNR02-325701	2	2	2	2	2	
	54	ROLLER 40	CNRAC-116280	2	2	2	2	2	
	55	FAN MOTOR AS.	CNRAG-175341	1	1	1	1	1	
	56	COVER DUCT PC AS.	CNRBH-162191	1	1	1	1	1	
	56.1	COVER DUCT PC	CNRAH-326232	1	1	1	1	1	
	56.2	INS. DUCT PC	CNRAH-326241	1	1	1	1	1	
	56.3	SEAL DUCT PC	CNRAJ-171890	1	1	1	1	1	
	57	AG BIO FILTER	CNRAH-278440	1	1	1	1	1	
	58	COVER DAMPER PC AS.	CNRBH-162201	1			1	1	
		COVER DAMPER PC AS.	CNRBH-162211		1	1			
	59	COVER DAMPER PC	CNRAH-325981	1	1	1	1	1	
	60	INS DAMPER PCT	CNRAH-325990	1			1		
		INS DAMPER PCT	CNRAH-326210		1	1			
	61	INS DAMPER PCB	CNRAH-326000	1			1	1	
		INS DAMPER PCB	CNRAH-326220		1	1			
	62	TWIN ELECTRIC DAMPER AS.	CNRBG-201991	1			1	1	
		SINGLE ELECTRIC DAMPER AS.	CNRBG-202001		1	1			
	63	SENSOR PCC	CNRAG-175151	1	1	1	1	1	
	64	SENSOR PFC	CNRAG-175161	1			1	1	
	65	GASKET DOOR PC	CNRAD-384910	1	1	1	1	1	
	66	EMBLEM	CNRAD-379982	1	1	1			
	67	DOOR AS. PC (FOAM) - XS	CNRBD-401651	1					COLOUR : STAINLESS
		DOOR AS. PC (FOAM) - VS	CNRBD-401671		1				COLOUR : CHAMPAGNE
		DOOR AS. PC (FOAM) - VW	CNRBD-401691			1			COLOUR : WHITE
		DOOR AS. PC (FOAM) - GW	CNRBD-402151				1		COLOUR : KOREA WHITE SOLID
		DOOR AS. PC (FOAM) - GK	CNRBD-406220					1	COLOUR : BLACK
⚠	68	PAS-OPERATION PCB(DOOR)	ARBP0DA00700	1					FOR XS MODEL
		PAS-OPERATION PCB(DOOR)	ARBP0DA00690				1	1	FOR GW MODEL
	69	DOOR CONTROL AS.(XS)	CNRBD-401821	1					FOR XS MODEL
		SEAL ESCUTCHEON	CNRAD-386051		1				FOR VS MODEL
		SEAL ESCUTCHEON	CNRAD-386061			1			FOR VW MODEL
		HOLDER BOARD CONTROL AS	CNRBD-402191				1	1	FOR GW, GK MODEL
	70	LATCH DOOR	CNRAE-136513	1	1	1	1	1	
	71	STOPPER DOOR	CNRAD-359750	1	1	1	1		
	72	GASKET DOOR FC	CNRAD-384630	1	1	1	1	1	
	73	DOOR AS. FC (FOAM) - XS	CNRBD-401761	1					COLOUR : STAINLESS
		DOOR AS. FC (FOAM) -VS	CNRBD-401781		1				COLOUR : SHINNING SILVER (S)
		DOOR AS. FC (FOAM) -VW	CNRBD-401801			1			COLOUR : WHITE
		DOOR AS. FC (FOAM) - GW	CNRBD-401851				1		COLOUR : KOREA WHITE SOLID
		DOOR AS. FC (FOAM) - GK	CNRBD-406010					1	COLOUR : BLACK
	74	SHELF EGG	CNRAD-384691	1	1	1	1	1	
	75	TRAY EGG 10	CNRAD-338111	1	1	1	1	1	
	76	SHELF BOTTLE	CNRAD-384680	1	1	1	1	1	
⚠	77	LABEL NAME & REF. (PRINT)-XSVN	CNRAH-328611	1					
		LABEL NAME & REF. (PRINT)-XSMY	CNRAH-328620	1					
		LABEL NAME & REF. (PRINT)-XSPH	CNRAH-328630	1					
		LABEL NAME & REF. (PRINT)-XSHK	CNRAH-328641	1					
		LABEL NAME & REF. (PRINT)-XSAU	CNRAH-328650	1					
		LABEL NAME & REF. (PRINT)-VSTH	CNRAH-328670		1				
		LABEL NAME & REF. (PRINT)-VSVN	CNRAH-328680		1				
		LABEL NAME & REF. (PRINT)-VS1D	CNRAH-328690		1				
		LABEL NAME & REF. (PRINT)-VSWA	CNRAH-328700		1				
		LABEL NAME & REF. (PRINT)-VSX1	CNRAH-328710		1				
		LABEL NAME & REF. (PRINT)-VWAU	CNRAH-328720			1			
		LABEL NAME & REF. (PRINT)-GWVN	CNRAH-328731				1		
		LABEL NAME & REF. (PRINT)-GWMY	CNRAH-328740				1		
		LABEL NAME & REF. (PRINT)-GWHK	CNRAH-328751				1		
		LABEL NAME & REF. (PRINT)-GKMY	CNRAH-336490					1	COLOUR : BLACK
		LABEL NAME & REF. (PRINT)-GKVN	CNRAH-336500					1	COLOUR : BLACK
	LABEL NAME & REF. (PRINT)-GK1D	CNRAH-336510					1	COLOUR : BLACK	

Packing List

Safety	Ref. No.	Part name	Part No.	Model/Qty					Remark
				NR-BX418/NR-BX41B					
				XS	VS	VW	GW	GK	
	78	COVER BOARD CONTROL	CNRAD-384822				1	1	FOR GW
	78	COVER BOARD CONTROL	CNRAD-329140				1	1	FOR GK
		PACKING AS. - VN	CNRBK-140541	1					
		PACKING AS. - MY	CNRBK-141541	1					
		PACKING AS. - PH	CNRBK-141551	1					
		PACKING AS. - HK	CNRBK-141561	1					
		PACKING AS. - AU	CNRBK-141571	1					
		PACKING AS.-TH	CNRBK-140561		1				
		PACKING AS.-VN	CNRBK-141591		1				
		PACKING AS.-1D	CNRBK-141601		1				
		PACKING AS.-WA	CNRBK-141611		1				
		PACKING AS.-X1	CNRBK-141621		1				
		PACKING AS.-AU	CNRBK-140581			1			
		PACKING AS.-VN	CNRBK-141631				1		
		PACKING AS.-MY	CNRBK-141641				1		
		PACKING AS.-HK	CNRBK-141651				1		
		PACKING AS.-GKMY	CNRBK-144050					1	
		PACKING AS.-GKVN	CNRBK-144060					1	
		PACKING AS.-GK1D	CNRBK-144070					1	
		BOTTOM TRAY AS.	CNRBK-140591	1	1	1			
		BOTTOM TRAY AS.	CNRBK-142150				1	1	
		PLASTIC COVER	CNRAJ-157260	1	1	1	1	1	
		TOP PAD F	CNRAK-156160	1	1	1	1	1	FOR X1 , AU-NZ , GW,GK TYPE ALL
		TOP PAD B	CNRAK-156170	1	1	1	1	1	FOR X1 , AU-NZ , GW,GK TYPE ALL
		TOP PAD L	CNRAK-174090	1	1	1	1	1	
		TOP PAD R	CNRAK-174100	1	1	1	1	1	
		PROTECTOR DOOR AS.	CNRBK-117320	1	1	1	1	1	FOR HK , X1 ,AU-NZ ,GW ,GK TYPE ALL
		PAD CORNER	CNRAK-174210	1	1	1	1	1	FOR X1 , AU-NZ , GW ,GK TYPE ALL
		DOOR PC PAD	CNRAK-141050	1	1	1	1	1	
		INSTRUCTION BOOK - VN	CNRAK-174260	1	1		1	1	
		INSTRUCTION BOOK - MY	CNRAK-174220	1			1	1	
		INSTRUCTION BOOK - PH	CNRAK-174700	1					
		INSTRUCTION BOOK - HK	CNRAK-174270	1			1		
		INSTRUCTION BOOK - AU,NZ	CNRAK-174280			1			
		INSTRUCTION BOOK - X1	CNRAK-174290	1	1	1	1		
		INSTRUCTION BOOK - TH	CNRAK-174150		1				
		INSTRUCTION BOOK - 1D	CNRAK-174240		1			1	
		INSTRUCTION BOOK - WA,AE,WG	CNRAK-174250		1				

REPLACEMENT PARTS LIST

Important safety notice :

Components identified by mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified part.

Parts List : NR-BX468, NR-BX46B SERIES

Safety	Ref. No.	Part name	Part No.	Model/Qty					Remark
				NR-BX468/NR-BX46B					
				XS	VS	VW	GW	GK	
	1	COVER HINGE TOP-ST	CNRAE-143500	1					COLOUR : STAINLESS
		COVER HINGE TOP-GY	CNRAE-143390		1				COLOUR : SHINNING SILVER (S)
		COVER HINGE TOP-GW	CNRAE-143490			1	1		COLOUR : KOREA WHITE SOLID
		COVER HINGE TOP	CNRAE-143640					1	COLOUR : ARISTON BLACK
⚠	2	HINGE TOP	CNRAE-139023	1	1	1	1	1	
⚠	3	PAS-BW468(LED)	CNRBG-181513	1	1	1	1	1	
	4	COVER LED LAMP	CNRAH-290283	1	1	1	1	1	
	5	TRAY PC AS.	CNRBH-162310	1	1	1	1	1	
	6	TRAY CRISPER AS.	CNRBH-162320	1	1	1	1	1	
	7	CASE CRISPER AS.	CNRBH-162251	1	1	1	1	1	
	8	BARRIER PF AS	CNRBH-162231	1			1	1	
		BARRIER PF AS	CNRBH-162241		1	1			
	9	CASE PF AS.	CNRBH-162261	1	1	1	1	1	
	10	COVER CONTROL AS.	CNRBH-162221		1	1			
⚠	11	PAS-OPERATION PCB (INSIDE)	ARBP01A00090		1	1			
	12	DOOR SW.	CNRAG-153290	1	1	1	1	1	
⚠	13	HINGE CENTER	CNRAE-143230	1	1	1	1		
	14	CAP PAN H.4TS (N)	CNR391627200	1	1				
	15	CAP PAN H.4TS (W)	CNR391624310			1	1		
	15	CAP PAN H.4TS (K)	CNR391613410					1	COLOUR : BLACK
⚠	16	HINGE BOTTOM	CNRAE-143470	1	1	1	1	1	
	17	CASTER L AS.	CNRBC-365190	1	1	1	1	1	
		CASTER R AS.	CNRBC-365200	1	1	1	1	1	
	18	COVER LEG R	CNRAJ-171472	1					COLOUR : STAINLESS
		COVER LEG R	CNRAJ-172373		1				COLOUR : SHINNING SILVER (S)
		COVER LEG R	CNRAJ-172383			1	1		COLOUR : KOREA WHITE SOLID
		COVER LEG R	CNRAJ-173170					1	COLOUR : ARISTON BLACK
	19	COVER LEG L	CNRAJ-172392	1					COLOUR : STAINLESS
		COVER LEG L	CNRAJ-172403		1				COLOUR : SHINNING SILVER (S)
		COVER LEG L	CNRAJ-172413			1	1		COLOUR : KOREA WHITE SOLID
		COVER LEG L	CNRAJ-173180					1	COLOUR : ARISTON BLACK
	20	SUPPORT COIL D	CNRAF-183091	1	1	1	1	1	
	21	SUPPORT COIL	CNRAF-163503	1	1	1	1	1	
	22	SENSOR DEF.	CNRAG-168580	1	1	1	1	1	
	23	COIL AS.	CNRBF-164301	1	1	1	1	1	
	24	TEMP FUSE AS.	CNRBG-202560	1	1	1	1	1	
	25	SENSOR FCC	CNRAG-175141	1	1	1	1	1	
	26	COVER RADIANT	CNRAG-161260	1	1	1	1	1	
⚠	27	HEATER AS. DEFROST	CNRAG-169652	1	1	1	1	1	
	28	COVER COIL AS.	CNRBF-164311	1	1	1	1	1	
	29	CASE FCT AS	CNRBH-162282	1	1	1	1	1	
	30	CASE FCM AS	CNRBH-162292	1	1	1	1	1	
	31	CASE FCB AS	CNRBH-162302	1	1	1	1	1	
	32	HOLDER ICE TRAY	CNRAH-326181	1	1	1	1	1	
	33	ICE CUBE TRAY AS.	CNRBH-135250	1	1	1	1	1	
	34	BOX ICE TRAY	CNRAH-227460	1	1	1	1	1	
	35	HANGER SHELL R AS.	CNRBC-299074	1	1	1	1	1	
	36	HANGER SHELL L AS.	CNRBC-299083	1	1	1	1	1	
⚠	37	WIRING DIAGRAM - XSTH	CNRAH-327161	1					
		WIRING DIAGRAM - XSVN	CNRAH-327872	1					
		WIRING DIAGRAM - XSMY	CNRAH-327921	1					
		WIRING DIAGRAM - XSSG	CNRAH-327931	1					
		WIRING DIAGRAM - XSS1	CNRAH-339820	1					FOR S1
		WIRING DIAGRAM - XSPH	CNRAH-327981	1					
		WIRING DIAGRAM - XSHK	CNRAH-327941	1					
		WIRING DIAGRAM - XSWA	CNRAH-327881	1					
		WIRING DIAGRAM - XSAU	CNRAH-327992	1					
		WIRING DIAGRAM - VSTH	CNRAH-327851		1				
		WIRING DIAGRAM - VSVN	CNRAH-327892		1				
		WIRING DIAGRAM - VS1D	CNRAH-327901		1				
		WIRING DIAGRAM - VSX1	CNRAH-328021		1				
		WIRING DIAGRAM - VWAU	CNRAH-328002			1			
		WIRING DIAGRAM - GWTH	CNRAH-327861				1		
		WIRING DIAGRAM - GWVN	CNRAH-327912				1		
		WIRING DIAGRAM - GWMY	CNRAH-327951				1		
		WIRING DIAGRAM - GWSG	CNRAH-327961				1		
		WIRING DIAGRAM - GWSG	CNRAH-339810				1		FOR S1
		WIRING DIAGRAM - GWHK	CNRAH-327971				1		
		WIRING DIAGRAM - GKTH	CNRAH-335890					1	
		WIRING DIAGRAM - GKMY	CNRAH-336520					1	
		WIRING DIAGRAM - GKVN	CNRAH-336530					1	
		WIRING DIAGRAM - GK1D	CNRAH-336540					1	
	WIRING DIAGRAM - GKS1	CNRAH-339800					1	FOR S1	
⚠	38	LABEL HC BACK - EXPORT	CNRAH-269292	1	1	1	1		LANGUAGE : ENGLISH
		LABEL HC BACK - TH	CNRAH-311730	1	1		1		LANGUAGE : THAI

Safety	Ref. No.	Part name	Part No.	Model/Qty					Remark
				NR-BX468/NR-BX46B					
				XS	VS	VW	GW	GK	
△	39	PAS-CONTROL PCB AS	ARBPC1A01774	1			1		FOR TH,MY,SG,PH,HK,WA,X1
		PAS-CONTROL PCB AS	ARBPC1A02123	1					FOR VN,AU,NZ
		PAS-CONTROL PCB AS	ARBPC1A01784		1	1			FOR TH,MY,SG,PH,HK,WA,X1
		PAS-CONTROL PCB AS	ARBPC1A02133			1	1		FOR VN,AU,NZ
△	40	COVER BOARD AS.	CNRBC-377851	1	1	1	1	1	
	41	SUPPLY CORD AS. - TH	CNRBG-202031	1	1		1	1	FOR TH
		SUPPLY CORD AS. - MY,SG,HK	CNRBG-201921	1	1		1	1	FOR MY,SG,HK
		SUPPLY CORD AS. - VN	CNRBG-202080	1	1		1	1	FOR VN,WA
		SUPPLY CORD AS. - 1D	CNRBG-202320		1			1	FOR 1D
		SUPPLY CORD AS. - PH	CNRBG-202090	1					FOR PH
		SUPPLY CORD AS. - X1	CNRBG-202100	1	1		1		FOR X1
	SUPPLY CORD AS. - AU,NZ	CNRAG-175420	1					FOR AU,NZ	
	42	PAN WATER EVA.	CNRAF-196452	1	1	1	1	1	
	42.1	PIPE WATER EVA.	CNRAF-196481	1	1	1	1	1	
	43	CLAMP PIPE WATER EVA.	CNRAF-175252	1	1	1	1	1	
	44	U-RING 7	CNRAJ-163240	4	4	4	4	1	
	45	COMP. ERI100E13DGH-C0ECS	CNR91-236280	1			1	1	FOR XS GW GK
		COMP. EFI100E13DGH-C0ECS	CNR91-236390		1	1			FOR VS VW
△	46	MOTOR PROTECTOR	CNR06-598071	1	1	1	1	1	
	47	PROTECTOR COVER	CNRAG-170461	1	1	1	1	1	
	48	EARTH WIRE AS. COMP.150	CNRBG-168610	1	1	1	1	1	
	49	5 DRYER W	CNR393400920	1	1	1	1	1	
	50	RUBBER GROMMET	CNRAJ-163250	4	4	4	4	4	
	51	CLAMPER DRYER	CNR39-350251	1	1	1	1	1	
	52	CROSSRAIL REAR AS.	CNRBF-164321	1	1	1	1	1	
	53	PIN CASTER	CNR02-325701	2	2	2	2	2	
	54	ROLLER 40	CNRAC-116280	2	2	2	2	2	
	55	FAN MOTOR AS.	CNRAG-175341	1	1	1	1	1	
	56	COVER DUCT PC AS.	CNRBH-162181	1	1	1	1	1	
	56.1	COVER DUCT PC	CNRAH-325952	1	1	1	1	1	
	56.2	INS. DUCT PC	CNRAH-325961	1	1	1	1	1	
	56.3	SEAL DUCT PC	CNRAJ-171500	1	1	1	1	1	
	57	AG BIO FILTER	CNRAH-278440	1	1	1	1	1	
	58	COVER DAMPER PC AS.	CNRBH-162201	1			1	1	
		COVER DAMPER PC AS.	CNRBH-162211		1	1			
	59	COVER DAMPER PC	CNRAH-325981	1	1	1	1	1	
	60	INS DAMPER PCT	CNRAH-325990	1			1	1	
		INS DAMPER PCT	CNRAH-326210		1	1			
	61	INS DAMPER PCB	CNRAH-326000	1			1	1	
		INS DAMPER PCB	CNRAH-326220		1	1			
	62	TWIN ELECTRIC DAMPER AS.	CNRBG-201991	1			1	1	
		SINGLE ELECTRIC DAMPER AS.	CNRBG-202001		1	1			
	63	SENSOR PCC	CNRAG-175151	1	1	1	1	1	
	64	SENSOR PFC	CNRAG-175161	1			1	1	
	65	GASKET DOOR PC	CNRAD-384590	1	1	1	1	1	
	66	EMBLEM	CNRAD-379982	1	1	1			
	67	DOOR AS. PC (FOAM) - XS	CNRBD-401641	1					COLOUR : STAINLESS
		DOOR AS. PC (FOAM) - VS	CNRBD-401661		1				COLOUR : CHAMPAGNE
		DOOR AS. PC (FOAM) - VW	CNRBD-401681			1			COLOUR : WHITE
		DOOR AS. PC (FOAM) - GW	CNRBD-401871				1		COLOUR : KOREA WHITE SOLID
		DOOR AS. PC (FOAM) - GK	CNRBD-405990					1	COLOUR : BLACK
△	68	PAS-OPERATION PCB(DOOR)	ARBP0DA00700	1					FOR XS MODEL
		PAS-OPERATION PCB(DOOR)	ARBP0DA00690				1		FOR GW MODEL
	69	DOOR CONTROL AS.(XS)	CNRBD-401822	1					FOR XS MODEL
		SEAL ESCUTCHEON	CNRAD-386051		1				FOR VS MODEL
		SEAL ESCUTCHEON	CNRAD-386061			1			FOR VW MODEL
		HOLDER BOARD CONTROL AS	CNRBD-402191				1		FOR GW MODEL
	70	LATCH DOOR	CNRAE-136513	1	1	1	1	1	
	71	STOPPER DOOR	CNRAD-359750	1	1	1	1	1	
	72	GASKET DOOR FC	CNRAD-384630	1	1	1	1	1	
	73	DOOR AS. FC (FOAM) - XS	CNRBD-401761	1					COLOUR : STAINLESS
		DOOR AS. FC (FOAM) -VS	CNRBD-401781		1				COLOUR : SHINNING SILVER (S)
		DOOR AS. FC (FOAM) -VW	CNRBD-401801			1			COLOUR : WHITE
		DOOR AS. FC (FOAM) - GW	CNRBD-401851				1		COLOUR : KOREA WHITE SOLID
		DOOR AS. FC (FOAM) - GK	CNRBD-406010					1	COLOUR : BLACK
	74	SHELF EGG	CNRAD-384691	1	1	1	1	1	
	75	TRAY EGG 10	CNRAD-338111	1	1	1	1	1	
	76	SHELF BOTTLE	CNRAD-384680	1	1	1	1	1	
△	77	LABEL NAME & REF. (PRINT)-XSTH	CNRAH-327150	1					
		LABEL NAME & REF. (PRINT)-XSVN	CNRAH-327591	1					
		LABEL NAME & REF. (PRINT)-XSMY	CNRAH-327601	1					
		LABEL NAME & REF. (PRINT)-XSSG	CNRAH-327611	1					FOR SG
		LABEL NAME & REF. (PRINT)-XSS1	CNRAH-339790	1					FOR S1
		LABEL NAME & REF. (PRINT)-XSPH	CNRAH-327620	1					
		LABEL NAME & REF. (PRINT)-XSHK	CNRAH-327631	1					
		LABEL NAME & REF. (PRINT)-XSWA	CNRAH-327640	1					
		LABEL NAME & REF. (PRINT)-XSAU	CNRAH-327650	1					
		LABEL NAME & REF. (PRINT)-VSTH	CNRAH-327670		1				
		LABEL NAME & REF. (PRINT)-VSVN	CNRAH-327681		1				
		LABEL NAME & REF. (PRINT)-VS1D	CNRAH-327690		1				
		LABEL NAME & REF. (PRINT)-VSX1	CNRAH-327700		1				
		LABEL NAME & REF. (PRINT)-VWAU	CNRAH-327710			1			
		LABEL NAME & REF. (PRINT)-GWTH	CNRAH-327720				1		

Packing List

Safety	Ref. No.	Part name	Part No.	Model/Qty					Remark
				NR-BX468/NR-BX46B					
				XS	VS	VW	GW	GK	
		LABEL NAME & REF. (PRINT)-GWVN	CNRAH-327731				1		
		LABEL NAME & REF. (PRINT)-GWMY	CNRAH-327741				1		
		LABEL NAME & REF. (PRINT)-GWSG	CNRAH-327751				1		FOR SG
		LABEL NAME & REF. (PRINT)-GWS1	CNRAH-339780				1		FOR S1
		LABEL NAME & REF. (PRINT)-GWHK	CNRAH-327761				1		
		LABEL NAME & REF. (PRINT)-GKTH	CNRAH-335880					1	
		LABEL NAME & REF. (PRINT)-GKMY	CNRAH-336450					1	
		LABEL NAME & REF. (PRINT)-GKVN	CNRAH-336460					1	
		LABEL NAME & REF. (PRINT)-GK1D	CNRAH-336470					1	
		LABEL NAME & REF. (PRINT)-GKS1	CNRAH-339770					1	FOR S1
	78	COVER BOARD CONTROL	CNRAD-384822				1	1	FOR GW
		COVER BOARD CONTROL	CNRAD-329140				1	1	FOR GK
		PACKING AS. - TH	CNRBK-140531	1					
		PACKING AS. - VN	CNRBK-141081	1					
		PACKING AS. - MY	CNRBK-141091	1					
		PACKING AS. - SG	CNRBK-141221	1					FOR SG
		PACKING AS. - S1	CNRBK-145140	1					FOR S1
		PACKING AS. - PH	CNRBK-141111	1					
		PACKING AS. - HK	CNRBK-141121	1					
		PACKING AS. - VW	CNRBK-141131	1					
		PACKING AS. - AU	CNRBK-141141	1					
		PACKING AS.-TH	CNRBK-140551		1				
		PACKING AS.-VN	CNRBK-141161		1				
		PACKING AS.-1D	CNRBK-141171		1				
		PACKING AS.-X1	CNRBK-141181		1				
		PACKING AS.-AU	CNRBK-141191			1			
		PACKING AS.- TH	CNRBK-140571				1		
		PACKING AS.- VN	CNRBK-141201				1		
		PACKING AS.- MY	CNRBK-141211				1		
		PACKING AS.- SG	CNRBK-141221				1		FOR SG
		PACKING AS.- S1	CNRBK-145140				1		FOR S1
		PACKING AS.- HK	CNRBK-141231				1		
		PACKING AS.- GKTH	CNRBK-143770					1	
		PACKING AS.- GKMY	CNRBK-144010					1	
		PACKING AS.- GKVN	CNRBK-144020					1	
		PACKING AS.- GK1D	CNRBK-144030					1	
		PACKING AS.- GKS1	CNRBK-145130					1	FOR S1
		BOTTOM TRAY AS.	CNRBK-140591	1	1	1			
		BOTTOM TRAY AS.	CNRBK-142150				1		
		PLASTIC COVER	CNRAJ-157260	1	1	1	1		
		TOP PAD F	CNRAK-156160	1	1	1	1		FOR X1, AU-NZ, GW, GK TYPE ALL
		TOP PAD B	CNRAK-156170	1	1	1	1		FOR X1, AU-NZ, GW, GK TYPE ALL
		TOP PAD L	CNRAK-174090	1	1	1	1		
		TOP PAD R	CNRAK-174100	1	1	1	1		
		PROTECTOR DOOR As.	CNRBK-117320	1	1	1	1		FOR HK , X1 , AU-NZ, GW, GK TYPE ALL
		PAD CORNER	CNRAK-174210	1	1	1	1		FOR X1 , AU-NZ , GW, GK TYPE ALL
		DOOR PC PAD	CNRAK-141050	1	1	1	1		
		INSTRUCTION BOOK - TH	CNRAK-174150	1				1	
		INSTRUCTION BOOK - VN	CNRAK-174260	1	1		1	1	
		INSTRUCTION BOOK - MY	CNRAK-174220	1			1	1	
		INSTRUCTION BOOK - SG,PH	CNRAK-174230	1			1	1	
		INSTRUCTION BOOK - WA,AE,WG	CNRAK-174250	1					
		INSTRUCTION BOOK - HK	CNRAK-174270	1			1		
		INSTRUCTION BOOK - AU,NZ	CNRAK-174280	1		1			
		INSTRUCTION BOOK - X1	CNRAK-174290	1	1		1		
		INSTRUCTION BOOK - 1D	CNRAK-174240		1				
		INSTRUCTION BOOK - S1	CNRAK-177020	1			1	1	FOR S1

DETAIL CHANGE NOTICE

Revision	Item no.	Page	Detail	Remark
Jun.2016	1	1	Addition colour : GK(Black)	TH,MY.SG,VN,1D
	2	1	Addition model : NR-BX41B, NR-BX46B	AU,NZ
	3	2	Addition : Detail change notice.	New page at P.37
	4	26~28	Addition : Service information	
	5	35,36,37	Addition : S1 Code	For SG