Order No. PHAT110901CE

(Revision: Feb. 2014)

# Service Manual

# NR-BY552XS, XW



# Refrigerator

NR-BY552XS NR-BY552XW NR-BY602XS

#### **Product Colour**

Stainless Touch (XS) Korean White (XW)

#### **Destination**

Thailand, Malaysia, Singapore Indonesia, Vietnam, India Philippines, GULF, PGF Australia/New Zealand



CFCs have been used in refrigerant 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  $\triangle$  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.

# **Panasonic**

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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

• Before you repair the refrigerator, please unplug the supply cord.



#### Use authentic parts when repairing

• When you replace the parts, please use authentic parts to replace defective parts.



#### Caution during brazing

• When you use touch for brazing, please ensure ventilation. Otherwise, you will be poisoned by carbon monoxide.



#### Pay attention to using refrigerant

• If refrigerant touches fire, the gas becomes poisonous gas.



#### Pay attention to getting electricity shock

- 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

- 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 Caution



#### Watch the hot parts

- 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

• Do not touch liquid refrigerant. Otherwise your hands may be burnt.



#### Pay attention to edge of parts

• Otherwise, your fingers may be cut.



#### Pay attention to fins of evaporator and condenser

• Otherwise, your fingers may be cut.



#### Before transportatin, adjust the bolt

• Otherwise, the floor may be damaged.



#### Do not touch the pipe after brazing

• Otherwise, your hands may be burnt.

#### 2. SPECIFICATION AND COMPONENTS

#### 2.1 NR-BY552XS, NR-BY552XW

MODEL		NR-BY552XS NR-BY552XW								
Destination	Thailand	Malaysia	Singapore	Indonesia	Vietnam	India	Philippines	Australia/New Zealand	Australia/New Zealand	
Code Attached Model	TH	MY	SG	1D	VN	1N	PH	AU/NZ	AU/NZ	
Material Spec.		Stainless White								
System Spec.		Inverter								
Plug	C3P	S3P	S3P	C2P	C2P	B3P	A2P	K3P	K3P	
Power Source	220V/50Hz	240V/50Hz	230V/50Hz	220~240V/50Hz	220V/50Hz	230V/50Hz	230V/60Hz	240V/50Hz	240V/50Hz	

#### Specification

Capacity		551L				
(Total Gross Volume)		(FC : 153L, PC : 398L)				
Capacity		461L				
(Total Storage Volum	e)	(FC: 99L, PC: 362L)				
External Dimension	Width (mm)	775				
	Depth (mm)	745				
	Height (mm)	1714				
Temperature Control		FC : Electronic control (PCB)				
		PC : Baffle damper thermostat				
Defrosting		Full-automatic heater defrost with Micro Controller				
Inner Liner		Vacuum Formed ABS resin				
Insulation		Polyurethane foam (cabinet and door)				
Net Weight		80 Kg				

#### Sealed Unit

Evaporator		Fin Tube Type
Condenser		Wrapper Type (concealed condenser)
Compressor	Model Name	EFI100E13DGH-COECS
	Cylinder Capa.	10.17 cm <sup>3</sup> / rev
	REF. Capa.	27 / 52r / s, 75 / 193W
Power Input		40.5 / 112W
Dryer	Туре	Molecular Sieves (XH-9)
	Charging Amt.	5g.
Refrigerant	Туре	R600a
	Charging Amt.	65 ± 5g
Lubricating Oil	Туре	Freol S -10
	Charging Amt.	215 ± 5ml

#### **Electric Part**

Rating   250V / 0.5A     Fan Motor   Type   FBA11J14VXA Ø 110mm. prop fan (Box Type)     Rating   Dc 14V / 1.54W     Defrosting Control / Type   PAS - 8Y60EX (Control)     Electronic PCB   Defrost Cycle   (1) Ambient Temp. over 34°C 8h     Control   (3) Ambient Temp. under 22°C 13h     (4) Power on 4h (Rated time)     Heating Device   Type   MM3-20DCW     Opening Temp.   105 ± 5°C     Closing Temp.   105 ± 5°C     Closing Temp.   105 ± 5°C     Closing Temp.   MM1-6187     Control Device (PC)   Rating   Closed Temp. (Closed Temp. (Days MA) + 20°C     Rating   B = 3819K ± 2%     Rating   B = 3819K ± 2%     Rating   B = 3850K ± 2%     Rating   B = 3435 ± 1%     Rating   B = 3435 ± 1%     Rating   B = 3435 ± 1%     Rating   B = 3410 + 12 m     Rating   B = 3410 + 13 m     Rating   B = 3435 ± 1%     Rating   B = 3405 ± 10 m     Rating   B = 3405 ± 10 m     Rating   B = 3435 ± 1%     Rating   B = 3405 ± 10 m     Rating   B = 3405 ± 10	Door Switch		DDD 101 (C.D., C.T.)			
Fan Motor   Type   Fan Hutv	Door Switch	Туре	D3D-121 (S.P S.T.)			
Pating						
Defrosting Control / Electronic PCB         Type         PAS - BY602X (Control)           Electronic PCB Control         Defrost Cycle         (1) Ambient Temp. very 34°C 8h           Control         (2) Ambient Temp. under 22°C 13h           Heating Device or Defrosting         Type         MM6-8V41           For Defrosting         Rating         230V / 216W           Overload Protector         Type         MM3-20DCW           Opening Temp.         105 ± 5°C           Closing Temp.         61 ± 8°C           Impression I.         2.0 A ± 75% (AT 70°C)           Automatic Temp.         Type           Control Device (PC)         Rating         Closed Temp. (normal) -6.0 ± 1.5°C           Kind         Gas Charge Type           Defrost Sensor (DFC)         Type         NTC           Rating         B = 3819K ± 2%           FC Sensor (FCC)         Type         NTC           Rating         B = 3850K ± 2%           R-20 = 18.9KΩ ± 1.8%         NTC           Reson (ATC)         Rating         B = 3435 ± 1%           Defrost Thermal Fuse         Type         NTC           Rating         B = 3435 ± 1%           Defrost Thermal Fuse         Rating         B = 25 ± 10.0KΩ ± 3%	Fan Motor		1 1 1 1			
Defrost Cycle   Defrost Cycle   Control						
Control         (2) Ambient Temp. 23°C - 33°C 8h           (3) Ambient Temp. under 22°C 13h           (4) Power on 4h (Rated time)           Heating Device for Defrosting         Type         MM6-8V41           for Defrosting         Rating         230V / 216W           Overload Protector         Type         MM3-20DCW           Opening Temp.         105 ± 5°C           Closing Temp.         61 ± 8°C           Impression I.         2.0 A ± 75% (AT 70°C)           Automatic Temp.         MM1-6187           Control Device (PC)         Rating         Closed Temp. (normal) -6.0 ± 1.5°C           (Baffle Damper)         Kind         Gas Charge Type           Defrost Sensor (DFC)         Type         NTC           Rating         B = 3819K ± 2%           R10 = 3.899KΩ ± 3%         NTC           Rating         B = 3850K ± 2%           R-20 = 18.9KΩ ± 1.8%         R           Ambient Temp.         Type         NTC           Sensor (ATC)         Rating         B = 3435 ± 1%           Defrost Thermal Fuse         Type         Micro Temp.           Defrost Thermal Fuse         Type         Micro Temp.           Rating         250V / 100 / 100 / 73°C           Light Irradiat			` '			
Heating Device   Type		Defrost Cycle				
Heating Device   Type   MM6-8V41     For Defrosting   Rating	Control					
Heating Device for Defrosting   Rating   Rati			(3) Ambient Temp. under 22°C 13h			
for Defrosting         Rating         230V / 216W           Overload Protector         Type         MM3-20DCW           Opening Temp.         105 ± 5°C           Closing Temp.         61 ± 8°C           Impression I.         2.0 4 ± 75% (AT 70°C)           Automatic Temp.         Type           Control Device (PC)         Rating         Closed Temp. (normal) -6.0 ± 1.5°C           (Baffle Damper)         Kind         Gas Charge Type           Defrost Sensor (DFC)         Type         NTC           Rating         B = 3819K ± 2%           R10 = 3.899KΩ ± 3%         TC           FC Sensor (FCC)         Type         NTC           Rating         B = 3850K ± 2%           R-20 = 18.9KΩ ± 1.8%         R-20 = 18.9KΩ ± 1.8%           Ambient Temp.         Type         NTC           Sensor (ATC)         Rating         B = 3435 ± 1%           Defrost Thermal Fuse         Type         R25 = 10.0KΩ ± 3%           Defrost Thermal Fuse         Type         Airing         250V / 10A / 73°C           Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating         12V / 100mA						
Overload Protector         Type         MM3-2DDCW           Opening Temp.         105 ± 5°C           Closing Temp.         61 ± 8°C           Impression I.         2.0 A ± 75% (AT 70°C)           Automatic Temp.         Type         MM1-6187           Control Device (PC)         Rating         Closed Temp. (normal) -6.0 ± 1.5°C           (Baffle Damper)         Kind         Gas Charge Type           Defrost Sensor (DFC)         Type         NTC           Rating         B = 3819K ± 2%           R10 = 3.899KΩ ± 3%         NTC           Rating         B = 3850K ± 2%           R-20 = 18.9KΩ ± 1.8%         R-20 = 18.9KΩ ± 1.8%           Ambient Temp.         Type         NTC           Sensor (ATC)         Rating         B = 3435 ± 1%           Defrost Thermal Fuse         Type         R25 = 10.0KΩ ± 3%           Defrost Thermal Fuse         Type         Ambient Temp.           Rating         250V / 10A / 73°C           Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating         LED Lamp PCB	Heating Device	Туре	MM6-8V41			
Opening Temp.   105 ± 5°C     Closing Temp.   61 ± 8°C     Impression I.   2.0 A ± 75% (AT 70°C)     Automatic Temp.   Type   MM1-6187     Control Device (PC)   Rating   Sanson (DFC)     Rating   Sanson (DFC)     Rating   Sanson (DFC)     Rating   Rating   Sanson (DFC)     R	for Defrosting	Rating	230V / 216W			
Closing Temp.         61 ± 8 °C           Impression I.         2.0 A ± 75% (AT 70°C)           Automatic Temp.         Type           Control Device (PC)         Rating         Closed Temp. (normal) -6.0 ± 1.5°C           (Baffle Damper)         Kind         Gas Charge Type           Defrost Sensor (DFC)         Type         NTC           Rating         B = 3819K ± 2%           R10 = 3.899KΩ ± 3%         NTC           Rating         B = 3850K ± 2%           R*20 = 18.9KΩ ± 1.8%           Ambient Temp.         Type           Sensor (ATC)         Rating         B = 3435 ± 1%           R25 = 10.0KΩ ± 3%         R25 = 10.0KΩ ± 3%           Defrost Thermal Fuse         Type         Micro Temp.           Rating         250V / 10A / 73°C           Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating         LED Lamp PCB	Overload Protector	Туре	MM3-20DCW			
Impression I.   2.0 A ± 75% (AT 70°C)     Automatic Temp.   Type   MM1-6187     Control Device (PC)   (Baffle Damper)   Kind   Gas Charge Type     Defrost Sensor (DFC)   Rating   B = 3819K ± 2%     Rating   Rating   B = 3819K ± 2%     Rating   Rating   B = 3850K ± 2%     Rating   Rating   R-20 = 18.9KΩ ± 1.8%     Ambient Temp.   Type   NTC     Sensor (ATC)   Rating   B = 3435 ± 1%     Rother Temp.   Type   Rating   B = 3435 ± 1%     Rother Temp.   Type   Rating   R-25 = 10.0KΩ ± 3%     Defrost Thermal Fuse   Type   Rating   R-250V / 10A / 73°C     Light Irradiation   Type   LED Lamp PCB     Device (PC)   Rating   Rating   L2V / 100mA     Device (PC)   Rating   Rating		Opening Temp.	105 ± 5°C			
Automatic Temp.         Type         MM1-6187           Control Device (PC) (Baffle Damper)         Rating         Closed Temp. (normal) -6.0 ± 1.5°C           Defrost Sensor (DFC) (Baffle Damper)         Type         NTC           Rating         B = 3819K ± 2%           Rating         B = 3819K ± 2%           R10 = 3.899KΩ ± 3%         NTC           FC Sensor (FCC)         Type         NTC           Rating         B = 3850K ± 2%           R-20 = 18.9KΩ ± 1.8%         NTC           Sensor (ATC)         Rating         NTC           B = 3435 ± 1%         R25 = 10.0KΩ ± 3%           Defrost Thermal Fuse Rating         Micro Temp.           Rating         250V / 10A / 73°C           Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating         12V / 100mA		Closing Temp.	61 ± 8°C			
Control Device (PC) (Baffle Damper)         Rating         Closed Temp. (normal) -6.0 ± 1.5°C           Mind         Gas Charge Type           Defrost Sensor (DFC)         Type         NTC           Rating         B = 3819K ± 2%           R10 = 3.899KΩ ± 3%         R10 = 3.899KΩ ± 3%           FC Sensor (FCC)         Type         NTC           Rating         B = 3850K ± 2%           R-20 = 18.9KΩ ± 1.8%         NTC           Sensor (ATC)         Rating         NTC           Sensor (ATC)         Rating         B = 3435 ± 1%           R25 = 10.0KΩ ± 3%         R25 = 10.0KΩ ± 3%           Defrost Thermal Fuse Rating         Micro Temp.           Rating         250V / 10A / 73°C           Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating         12V / 100mA		Impression I.	2.0 A ± 75% (AT 70°C)			
(Baffle Damper)         Kind         Gas Charge Type           Defrost Sensor (DFC)         Type         NTC           Rating         B = 3819K ± 2%           R10 = 3.899KΩ ± 3%         R10 = 3.899KΩ ± 3%           FC Sensor (FCC)         Type         NTC           Rating         B = 3850K ± 2%           R-20 = 18.9KΩ ± 1.8%         NTC           Sensor (ATC)         Rating         NTC           Sensor (ATC)         Rating         B = 3435 ± 1%           R25 = 10.0KΩ ± 3%         R25 = 10.0KΩ ± 3%           Defrost Thermal Fuse Rating         Micro Temp.           Rating         250V / 10A / 73°C           Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating         12V / 100mA	Automatic Temp.	Туре	MM1-6187			
Defrost Sensor (DFC)         Type         NTC           Rating         B = 3819K ± 2%           R10 = 3.899KΩ ± 3%         NTC           FC Sensor (FCC)         Type         NTC           Rating         B = 3850K ± 2%           R-20 = 18.9KΩ ± 1.8%         NTC           Sensor (ATC)         Rating         NTC           Rating         B = 3435 ± 1%           R25 = 10.0KΩ ± 3%         R25 = 10.0KΩ ± 3%           Defrost Thermal Fuse         Type         Micro Temp.           Rating         250V / 10A / 73°C           Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating         12V / 100mA	Control Device (PC)	Rating	Closed Temp. (normal) -6.0 ± 1.5°C			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(Baffle Damper)	Kind	Gas Charge Type			
	Defrost Sensor (DFC)	Туре	NTC			
FC Sensor (FCC)         Type         NTC           Rating         B = 3850K ± 2%           R-20 = 18.9K $\Omega$ ± 1.8%           Ambient Temp.         Type         NTC           Sensor (ATC)         Rating         B = 3435 ± 1%           R25 = 10.0K $\Omega$ ± 3%         R25 = 10.0K $\Omega$ ± 3%           Defrost Thermal Fuse         Type         Micro Temp.           Rating         250V / 10A / 73°C           Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating         12V / 100mA		Rating	B = 3819K ± 2%			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			R10 = 3.899KΩ ± 3%			
Ambient Temp.         Type         NTC           Sensor (ATC)         Rating         B = 3435 ± 1%           Defrost Thermal Fuse         Type         Micro Temp.           Rating         250V / 10A / 73°C           Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating         12V / 100mA	FC Sensor (FCC)	Туре	NTC			
Ambient Temp.         Type         NTC           Sensor (ATC)         Rating $B = 3435 \pm 1\%$ Defrost Thermal Fuse         Type         Micro Temp.           Rating $250V / 10A / 73^{\circ}C$ Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating $12V / 100mA$		Rating	B = 3850K ± 2%			
Sensor (ATC)       Rating $B = 3435 \pm 1\%$ Defrost Thermal Fuse       Type       Micro Temp.         Rating $250V / 10A / 73^{\circ}C$ Light Irradiation       Type       LED Lamp PCB         Device (PC)       Rating $12V / 100mA$			$R-20 = 18.9 \text{K}\Omega \pm 1.8\%$			
Defrost Thermal Fuse         Type         Micro Temp.           Rating         250V / 10A / 73°C           Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating         12V / 100mA	Ambient Temp.	Туре	NTC			
Defrost Thermal Fuse         Type         Micro Temp.           Rating         250V / 10A / 73°C           Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating         12V / 100mA	Sensor (ATC)	Rating	B = 3435 ± 1%			
Rating         250V / 10A / 73°C           Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating         12V / 100mA			$R25 = 10.0K\Omega \pm 3\%$			
Light Irradiation         Type         LED Lamp PCB           Device (PC)         Rating         12V / 100mA	Defrost Thermal Fuse	Туре	Micro Temp.			
Device (PC) Rating 12V / 100mA		Rating	250V / 10A / 73°C			
	Light Irradiation	Туре	LED Lamp PCB			
	Device (PC)	Rating	12V / 100mA			
Light Irradiation Type LED Lamp PCB	Light Irradiation		LED Lamp PCB			
	Device (Crisper)		5V / 30mA			

#### 2.2 NR-BY602XS

MODEL	NR-BY602XS								
Destination	Thailand	Malaysia	Singapore	Indonesia	Vietnam	India	Philippines	GULF	PGF
Code Attached Model	TH	MY	SG	1D	VN	1N	PH	AE	WG
Material Spec.		Stainless							
System Spec.		Inverter							
Plug	C3P	S3P	S3P	C2P	C2P	B3P	A2P	S3P	C2P (Shuko)
Power Source	220V/50Hz	240V/50Hz	230V/50Hz	220~240V/50Hz	220V/50Hz	230V/50Hz	230V/60Hz	220V/50Hz	220V/50Hz

Specification

Capacity		602L					
(Total Gross Volume)		(FC:153L, PC:449L)					
Capacity		511L					
(Total Storage Volume	e)	(FC:99L, PC:412L)					
External Dimension	Width (mm)	775					
	Depth (mm)	745					
Height (mm)		1846					
Temperature Control		FC : Electronic control (PCB)					
		PC : Baffle damper thermostat					
Defrosting		Full-automatic heater defrost with Micro Controller					
Inner Liner		Vacuum Formed ABS resin					
Insulation		Polyurethane foam (cabinet and door)					
Net Weight		86 Kg					

**Sealed Unit** 

Evaporator		Fin Tube Type	
Condenser		Wrapper Type (concealed condenser)	
Compressor	Model Name	EFI100E13DGH-COECS	
	Cylinder Capa.	10.17 cm <sup>3</sup> / rev	
	REF. Capa.	27 / 52r / s, 75 / 193W	
Power Input		40.5 / 112W	
Dryer	Туре	Molecular Sieves (XH-9)	
	Charging Amt.	5g.	
Refrigerant	Туре	R600a	
	Charging Amt.	65 ± 5g	
Lubricating Oil	Туре	Freol S -10	
	Charging Amt.	215 ± 5ml	

**Electric Part** 

Door Switch	Туре	D3D-121 (S.P S.T.)				
	Rating	250V / 0.5A				
Fan Motor	Туре	FBA11J14VXA Ø 110mm. prop fan (Box Type)				
	Rating	DC 14V / 1.54W				
Defrosting Control /	Туре	PAS - BY602X (Control)				
Electronic PCB	Defrost Cycle	(1) Ambient Temp. over 34°C 8h				
Control		(2) Ambient Temp. 23°C ∼ 33°C 8h				
		(3) Ambient Temp. under 22°C 13h				
		(4) Power on 4h (Rated time)				
Heating Device	Туре	MM6-8V41				
for Defrosting	Rating	230V / 214W				
Overload Protector	Туре	MM3-20DCW				
	Opening Temp.	105 ± 5°C				
	Closing Temp.	61 ± 8°C				
	Impression I.	2.0 A ± 75% (AT 70°C)				
Automatic Temp.	Туре	MM1-6187				
Control Device (PC)	Rating	Closed Temp. (normal) -6.0 ± 1.5°C				
(Baffle Damper)	Kind	Gas Charge Type				
Defrost Sensor (DFC)	Туре	NTC				
	Rating	B = 3819K ± 2%				
		R10 = $3.899$ KΩ ± $3\%$				
FC Sensor (FCC)	Туре	NTC				
	Rating	B = 3850K ± 2%				
		R-20 = $18.9 \text{K}\Omega \pm 1.8\%$				
Ambient Temp.	Туре	NTC				
Sensor (ATC)	Rating	B = 3435 ± 1%				
		$R25 = 10.0 K\Omega \pm 3\%$				
Defrost Thermal Fuse	Туре	Micro Temp.				
	Rating	250V / 10A / 73°C				
Light Irradiation	Туре	LED Lamp PCB				
Device (PC)	Rating	12V / 100mA				
Light Irradiation	Туре	LED Lamp PCB				
Device (Crisper)	Rating	5V / 30mA				

#### 3. PERFORMANCE DATA

# 3.1 NR-BY552 (AT $32 \pm 1^{\circ}$ C)

Thermostat Dial Setting		" 3 "	" 2 "	"1"
Mean Fresh Food Compartment Temp.	t3 (°C)	1.5 ± 2.5	4.0 ± 2.5	7.0 ± 2.5
Mean Freezer Load Temp.	(°C)	-22.0 ± 2.5	-20.0 ± 2.5	-15.0 ± 2.5
Vegetable Crisper Temp.	(°C)	-	4.0 ± 2.5	-
PC Door Shelf Upper Temp.	(°C)	-	7.0 ± 2.5	-
Egg Tray Temp.	(°C)	-	4.0 ± 2.5	-
PC Door Shelf Bottom Temp.	(°C)	-	5.0 ± 2.5	-
Chilled Case Temp.	(°C)	-	$0.0 \pm 2.5$	-
Running Ratio	(%)	85 ± 15	80 ± 15	65 ± 15
Power Consumption	(KWh/Day)	-	2.2 or under	-

# 3.2 NR-BY602 (AT 32 $\pm$ 1°C)

Thermostat Dial Setting		" 3 "	" 2 "	"1"
Mean Fresh Food Compartment Temp.	t3 (°C)	1.5 ± 2.5	4.0 ± 2.5	7.0 ± 2.5
Mean Freezer Load Temp.	(°C)	-22.0 ± 2.5	-19.5 ± 2.5	-15.0 ± 2.5
Vegetable Crisper Temp.	(°C)	-	5.0 ± 2.5	-
PC Door Shelf Upper Temp.	(°C)	-	8.0 ± 2.5	-
Egg Tray Temp.	(°C)	-	5.0 ± 2.5	-
PC Door Shelf Bottom Temp.	(°C)	-	5.5 ± 2.5	-
Chilled Case Temp.	(°C)	-	1.5 ± 2.5	-
Running Ratio	(%)	85 ± 15	80 ± 15	65 ± 15
Power Consumption	(KWh/Day)	-	2.2 or under	-

#### 4. DISPLAY SPECIFICATION

#### ■ NR-BY602

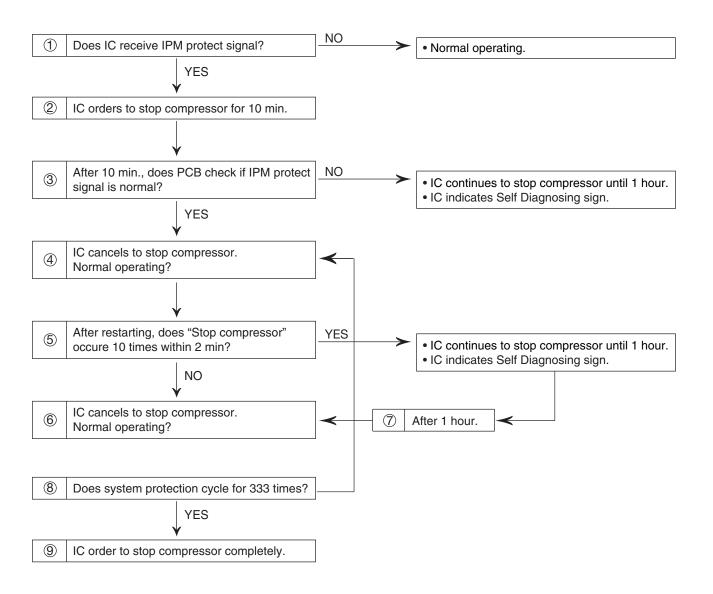
PROCESS INSPECTION	DISPLAY			
	FREEZER LED (3 pcs)  QUICK FREEZING LED  FREEZING CONTROL BUTTON QUICK FREEZING BUTTON			
IN-PROCESS INSPECTION				
START CONDITION	Operate the following controls within 3 sec., within 30 sec., after power-on while PC and FC door are open.			
	QUICK FREEZING BUTTON → FREEZER CONTROL BUTTON → QUICK FREEZING BUTTON			
END CONDITION	Hold down QUICK FREEZING BUTTON for over a second.     (Manual defrost)			
	② After 4 hours (Defrost start)			
CONTENTS FOR CONTROL	COMP : R 6 (71rps) FC FAN : VF4 (Ultrahigh Speed) HEATER : DEFROST HEATER OFF LED : ECONAVI LED and FREEZER LED [ NORMAL ] BRINKING (ON_1sec/OFF_1sec)			
MANUAL DEFROST	Hold down QUICK FREEZING BUTTON for over a sec.			
AUTOGNOSIS	During in-process inspection.			
JUDGEMENT	Indicate AUTOGNOSIS in which case abnormal condition.			
NOISE MODE	For 45 sec., of the start of IN-PROCESS INSPECTION			
CONTENTS	COMP : R 7 (80rps)			
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 LIGHTINGGOOD ALL FREEZER LED BRINKINGBAD			
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 EXTINCTIONGOOD ECONAVI LED LIGHTINGBAD			

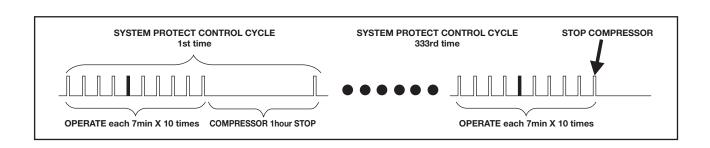
#### **Contents of discussion**

- Illuminance sensor will be added. Therefore, an inspection of whether to be able to operate normally is necessary. < In-process inspection of illuminance sensor >
- ① ECONAVI LED blinks at the start of in-process inspection —— check whether ECONAVI LED blinks.
- ② ECONAVI LED lights up after 1 min., of the start of in-process inspection (because if there is less input variation, microcomputer judge that as abnormal) —▶ check whether ECONAVI LED lights up.
- ③ Lighting of illuminance sensor shall be varied manually or automatically after the completion of aging. (If there is input variation corresponding to a dark area and a bright area, microcomputer judges that as normal) In Japan, a dark area and a bright area have been created in the place for inspection process.
- ④ As long as the illuminance sensor is normal, ECONAVI LED goes out → check whether ECONAVI LED goes out.

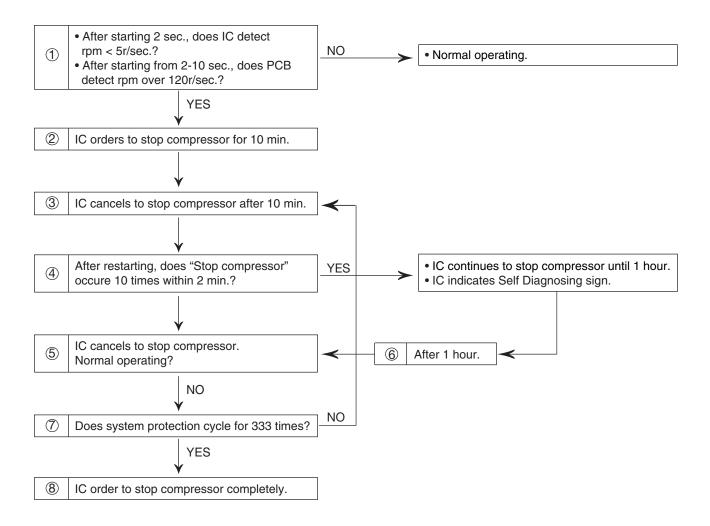
#### 5. SELF PROTECTING FUNCTION

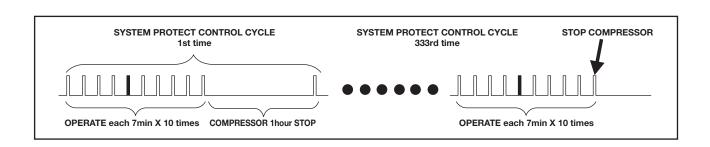
#### 5.1 Protection for IC



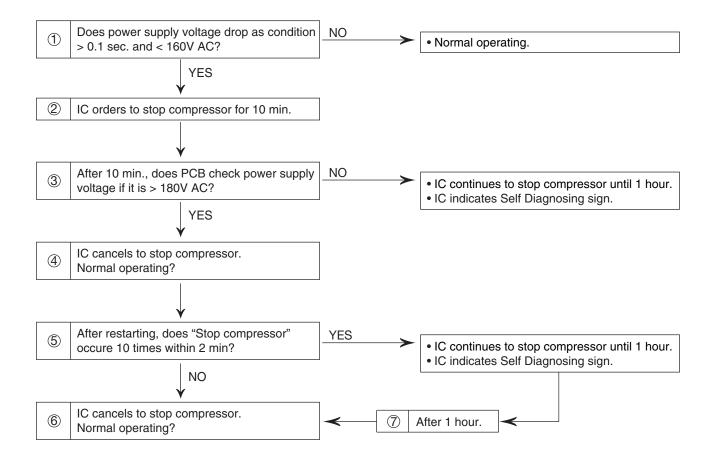


#### 5.2 Protection for compressor locked





# 5.3 Protection for power supply droping



#### 6. SELF DIAGNOSING FUNCTION

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

#### How to use "Self Diagnosing" function

- 1. Opening PC door and FC door, Push "Quick Freezing" bottom more than 5 sec.
- 2. After blinking at sec., each LED show as below.
- 3. "Self Diagnosing" function will be automatically cancel after 7 min., from start operation.



			● Li	ghting	nking Off	
	ECONAVI	QUICK	FC	FC CONTROL LED		
	LED	LED	MAX	MED	MIN	
FCC	0	0	0	0	0	
DFC	0	•	0	0	0	
ATC	0	•	0	0	0	
FC FAN MOTOR	•	•	0	0	0	
DEFROST HEATER	•	0	0	0	0	
INV COMP	•	0	0	0	0	
PCB	0	0	0	0	0	
HC LEAK (HIGH PRESSURE)	0	0	0	0	0	
HC LEAK (LOW PRESSURE)	0	0	0	0	0	
ILLUMINANCE SENSOR	0	0	0	0	0	

#### 7. TEMPERATURE CONTROL

This refrigerator is special design for appropriate use, which can adjust the temperature level to details "9 Levels" with the following details.

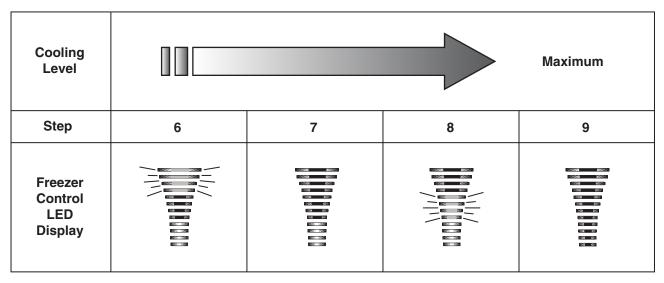
#### How to operate the "9 Levels" mode

- 1. Set LED display to "MIN" with the "Freezer Control" button.
- 2. Press the "Freezer Control" button (for 10 seconds) until the LED display return to show at "MIN" position.
- 3. Set "9 Levels" mode following below table by pressing the "Freezer Control" button.

#### To reset the setting "9 Levels" mode

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

Cooling Level	Minimum				
Step	1	2	3	4	5
Freezer Control LED Display					

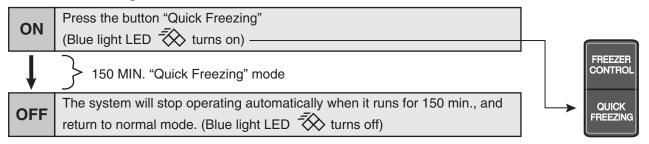




#### 8. INVERTER CONTROL DISPLAY

#### How to operate the "Quick Freezing" mode

#### Quick Freezing



#### Remarks

- If you want to stop the operation, press the button "Quick Freezing".
- 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. (The compressor rotation is at the maximum level for "Quick Freezing" mode)

#### 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 consumpting 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 refirgerator 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.

#### **Troubleshooting**

#### Before calling for servicing, please check as follows.

#### The refrigerator does not operate.

- \* Check to be sure that the plug and its socket are in good conditions.
- \* Check that there is any problem on main fuse and electricity system in the house or not.

#### The cooling does not function properly.

- \* Check to be sure that the temperature control button is at the proper position.
- \* Check that the refrigerator is overloaded with stuff of there is any hot foodstuff refrigerated in it or not.
- \* Is the refrigerator located exposing directly to sunlight or heat source?
- \* Is the refrigerator door closed completely? Is the refrigerator opened frequently?

#### Vapor generated inside and outside the cabinet.

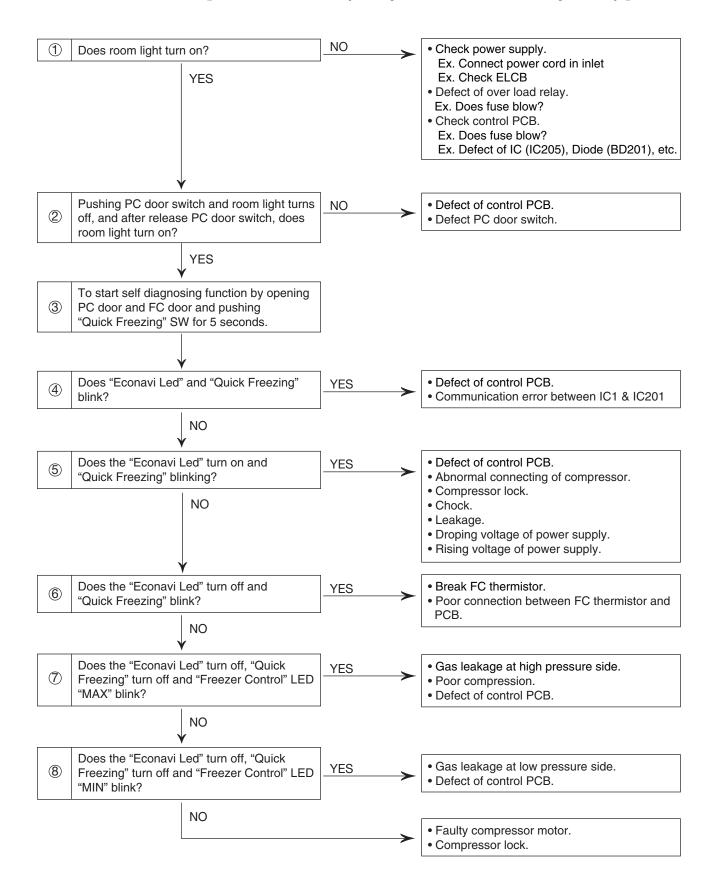
- \* The Vapor will generated outside the cabinet when the humidity is high (e.g. during rainy season) or the air circulation is not good.
- \* If the vapor generated inside the cabinet, check that the door is completely closed or not. Is the refrigerator frequently opened or left opened for a long time? Is there is any hot foodstuff refrigerated in it?

#### The refrigerator generates noise.

- \* Check if the refrigerator is located on a stable floor or is installed properly.
- \* Check if there is any object in contact with the refrigerator.

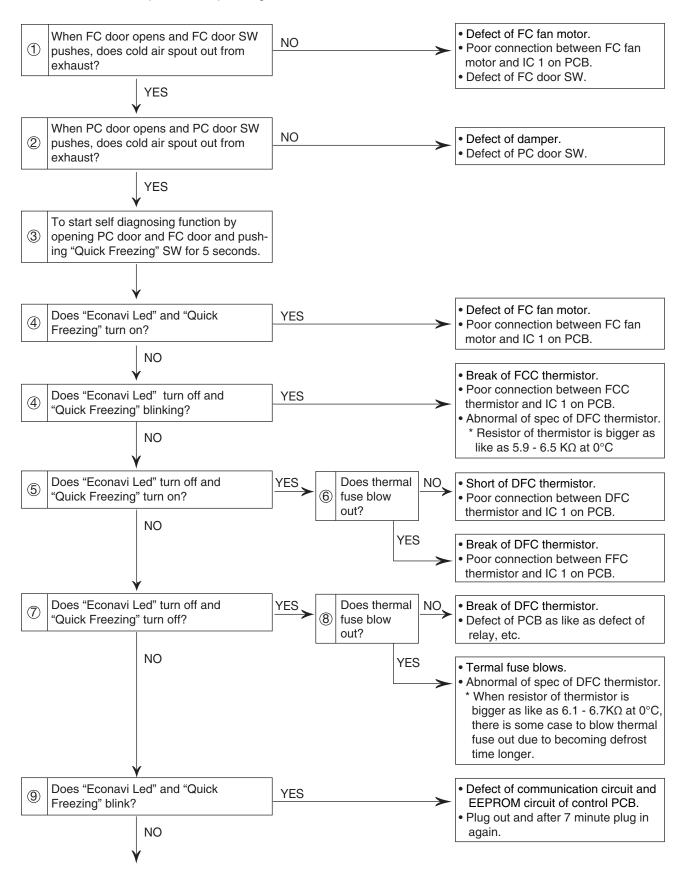
#### 10. TROUBLESHOOTING GUIDE

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

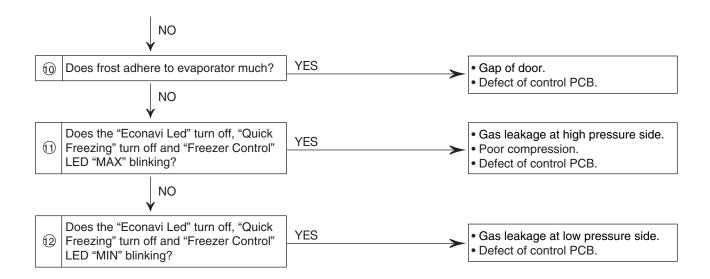


#### 10.2 Cool, not enough [ Both PC & FC (compressor operates) ]

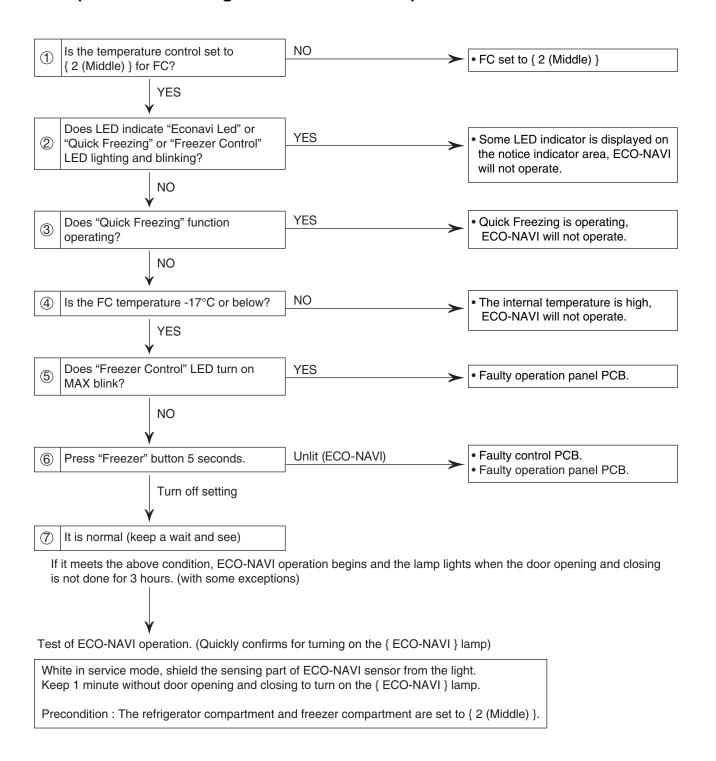
To confirm when compressor is operating.



To confirm when compressor is operating.

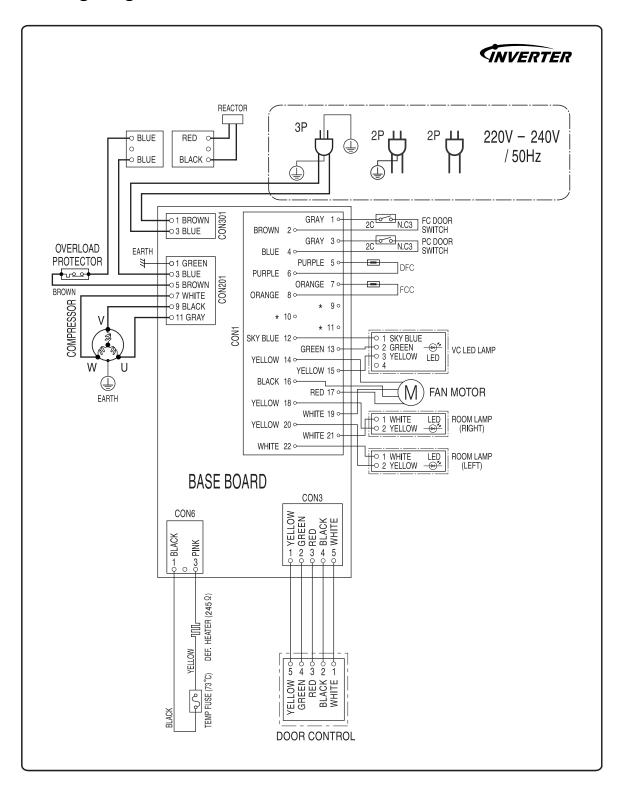


# 10.3 Eco-Navi operation doesn't work (PC/FC/IC cooling condition is normal)

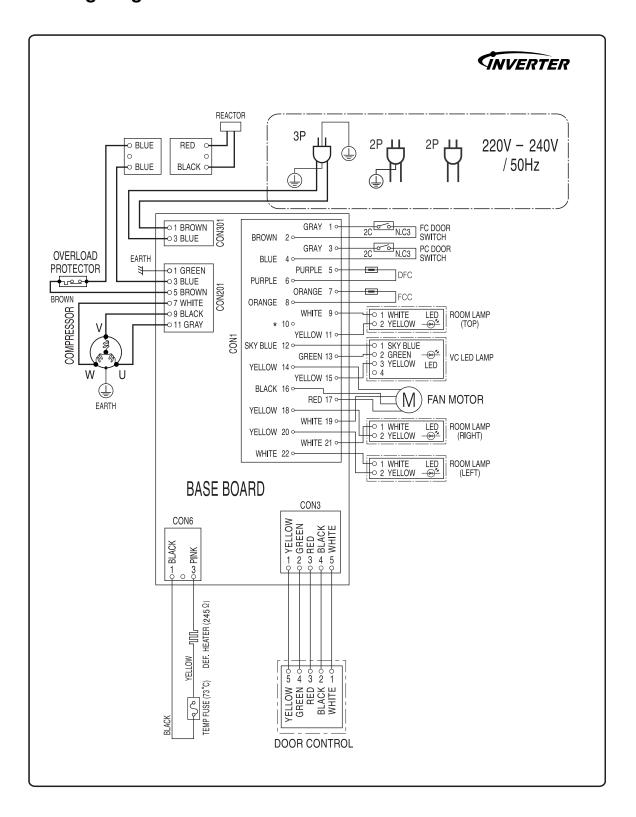


#### 11. SCHEMATIC DIAGRAM

#### 11.1 Wiring Diagram: NR-BY552XS, XW



#### 11.2 Wiring Diagram: NR-BY602XS



#### 12. DISASSEMBLY INSTRUCTION

#### 12.1 LCD Cover



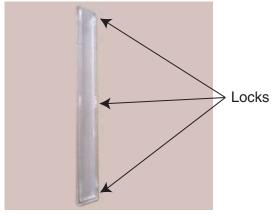


Fig. 1 Fig. 2

- Take off LCD cover by use screwdriver put between gaps of LCD cover with liner at the lock point as Fig. 1.
- Check the locks point by see at "Arrow Mark" as Fig. 2.
- Use screwdriver push up the LCD cover for lock loose.







Fig. 3 Fig. 4 Fig. 5

- After change LCD lamp or LCD cover, put LCD cover at one side (left or right) and set locks in position as Fig. 3.
- Set LCD cover by see at the bottom of LCD cover as Fig. 4.
- Use hand hit carefully at LCD cover from the top pass to bottom as Fig. 5.

#### 12.2 Cover Control



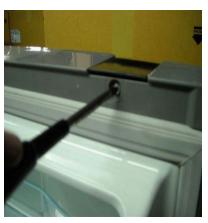




Fig. 1 Fig. 2 Fig. 3

- Take off Cover sheet at PC door by use cutter as Fig. 1.
- Take off screw at PC door by use screwdriver as Fig. 2.
- Push Cover control up and try to push it in front slowly for locks loose as Fig. 3.

#### 12.3 PCB Control







Fig. 1 Fig. 2 Fig. 3

- Take off Lead wire socket which contact at PCB control as Fig. 1.
- Take off screw at PCB control as Fig. 2.
- Use screwdriver push up PAS-Control for loosing from locks slowly and prevention crack as Fig. 3.

# 12.4 Feature of Crisper

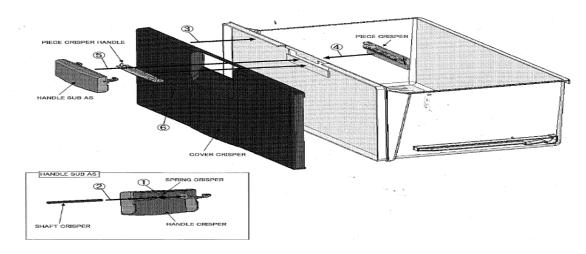


Fig. 1

- Explode part of Crisper As. as Fig. 1.

# 12.5 Maintain method: Take off Crisper handle







Fig. 2

Fig. 3

Fig. 4

- Actual part of Crisper handle as Fig. 2.
- Take off by use both thumbs press at buttons under Crisper handle for unlock (can hear 1 click each side) as Fig. 3 and Fig. 4.







Fig. 5 Fig. 6 Fig. 7

- Both hands hold Crisper handle and press down (about 45 degree) for unlock as Fig. 5.
- Both hands hold Crisper handle and carry up for unlock as Fig. 6.
- After take off Crisper handle and remain new piece as Fig. 7.

#### 12.6 Maintain method: Crisper handle ass'y

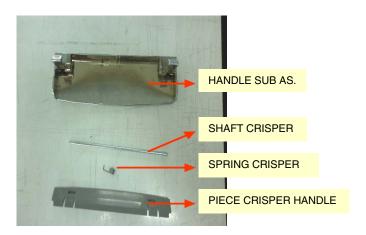


Fig. 8

- Explode parts of Crisper handle as Fig. 8.
- To lock Spring crisper with Handle sub as. as Fig. 9.





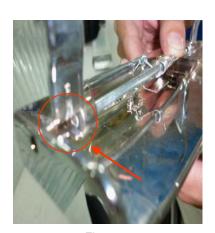


Fig. 9

Fig. 10

Fig. 11

Fig. 12

- To ass'y Shaft crisper from hole, left side through Spring crisper and finish at hole, right side as Fig. 10.
- To check Shaft crisper must be ass'y center as Fig. 11.
- Shaft crisper must be lock with hole complete as Fig. 12.







Fig. 13 Fig. 14

- To check both hole of Piece crisper handle as Fig. 13.
- To carry up Handle sub as. with Spring crisper for ass'y lock as Fig. 14.
- To use finger with Spring crisper for ass'y lock with Piece crisper handle as Fig. 15.







Fig. 16 Fig. 17 Fig. 18

- Must be checked inside of Crisper handle to lock complete before use Piece crisper handle double lock (must be ass'y Piece crisper handle correct way as Fig. 16 & Fig. 17.
- To push down by both hands at Piece crisper handle for lock inside as Fig. 18.



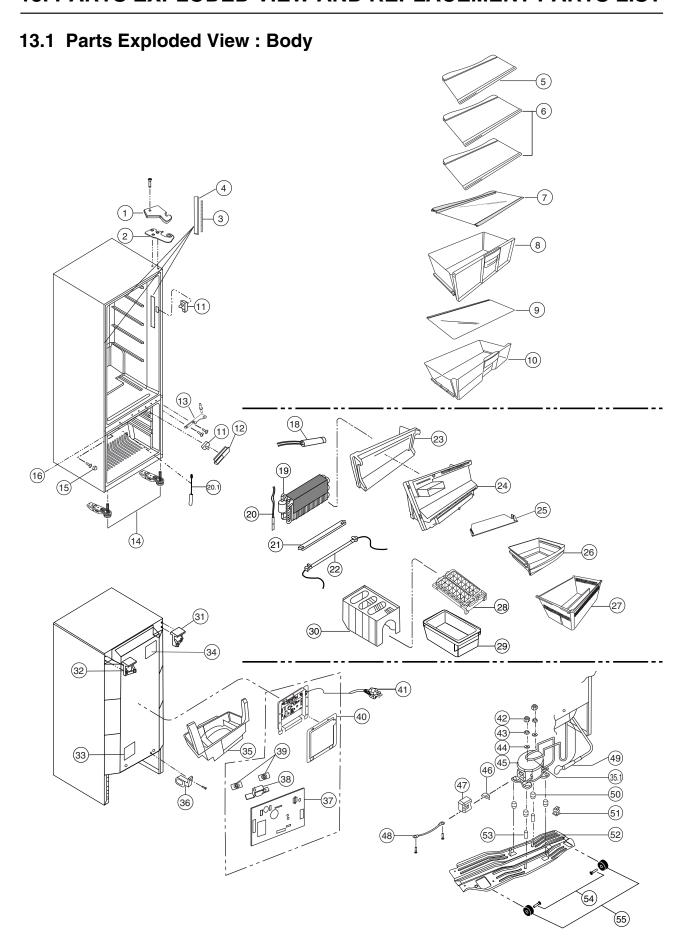


Fig. 19

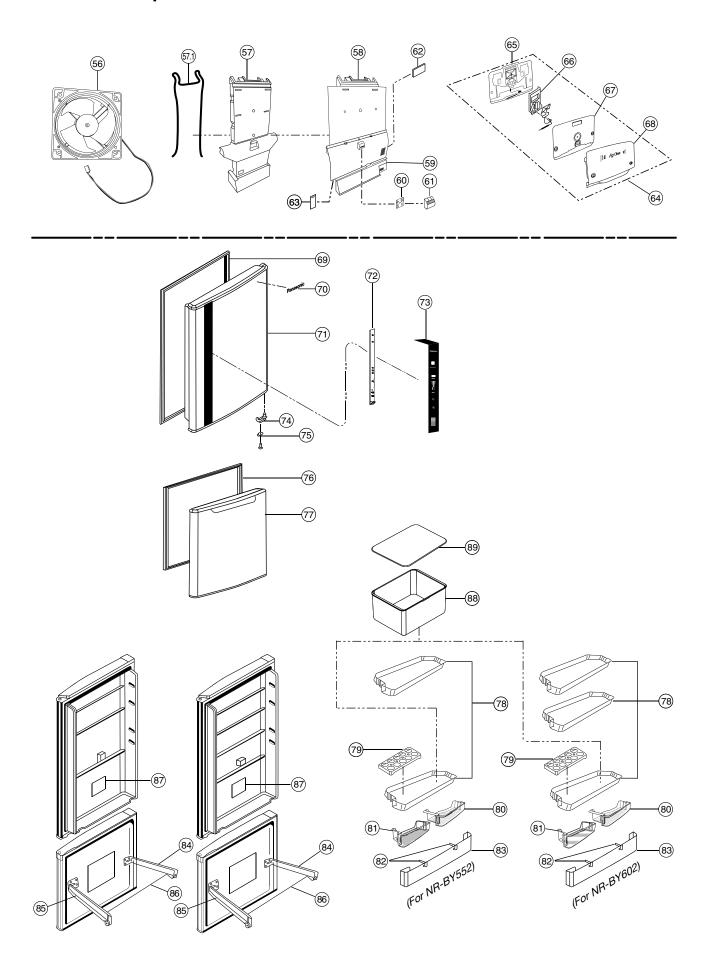
Fig. 20

- To push Crisper handle by both hands for lock it complete as Fig. 19.
- To check Crisper handle for lock complete as Fig. 20.

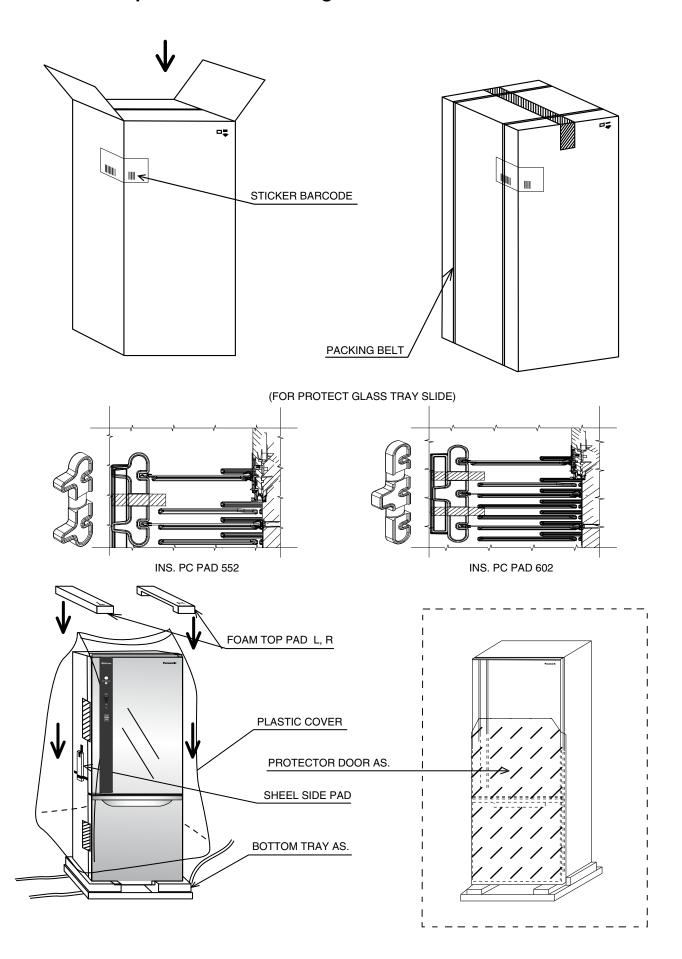
# 13. PARTS EXPLODED VIEW AND REPLACEMENT PARTS LIST



# 13.2 Parts Exploded View : Door



# 13.3 Parts Exploded View : Packing



#### 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.

# 13.4 Replacement Part List: NR-BY552XS, XW / NR-BY602XS

#### **Parts List**

	PART NAME			MODEL / Q'TY			_
REF. NO.		PART. NO.	SAFETY	ВҮ	552	BY602	REMARK
				XS	XW	XS	
1	COVER HINGE TOP - XS	CNRAE-139331		1		1	
	COVER HINGE TOP - XW	CNRAE-140950			1		
2	HINGE TOP	CNRAE-139022	S	1	1	1	
3	PAS-BW/BY (LED PCB)	CNRBG-181511		2	2	3	
4	COVER LED LAMP R	CNRAH-291582		1	1	1	SIDE : RIGHT
	COVER LED LAMP L	CNRAH-290283		1	1	2	SIDE : LEFT AND UPPER
5	GLASS TRAY TS AS.	CNRBH-139562		1	1	1	
6	GLASS TRAY T AS.	CNRBH-138623		1	1	2	
7	GLASS TRAY CRISPER AS.	CNRBH-138873		1	1	1	
8	CRISPER AS.	CNRBH-138642		1	1	1	
9	GLASS TRAY CHILLED AS.	CNRBH-138880		1	1	1	
10	CHILLED CASE	CNRAH-261152		1	1	1	
11	DOOR SW.	CNRAG-153290		2	2	2	
12	CASE SW. FC - W	CNRAC-201540		1	1	1	
13	HINGE CENTER	CNRAE-139010	S	1	1	1	
14	CASTER L AS.	CNRBC-324010		1	1	1	SIDE : LEFT
	CASTER R AS.	CNRBC-324020		1	1	1	SIDE : RIGHT
15	CAP PAN H. 4TS (ST)	CNR39-162720		1		1	
16	CAP PAN H. 4TS (W)	CNR39-162431		2	3	2	
18	SENSOR DEF.	CNRAG-140111		1	1	1	
19	COIL	CNRAF-177440		1	1	1	
20	TEMP. FUSE AS.	CNRBG-180841	S	1	1	1	
20.1	SENSOR FCC	CNRAG-164250		1	1	1	
21	COVER RADIANT	CNRAG-163050		1	1	1	
22	HEATER AS. DEFROST	CNRAG-163041	S	1	1	1	
23	INS. COVER COIL F	CNRAF-177452		1	1	1	
24	COVER COIL	CNRAF-177372		1	1	1	
25	PLATE FC	CNRAH-261411		1	1	1	
26	CASE FCT	CNRAH-261171		1	1	1	
27	CASE FCB AS.	CNRBH-138860		1	1	1	
28	ICE CUBE TRAY AS.	CNRBH-135250		1	1	1	
29	BOX ICE TRAY	CNRAH-227460		1	1	1	
30	HOLDER ICE TRAY	CNRAH-261194		1	1	1	
31	HANGER SHELL R	CNRAC-206002		1	1	1	SIDE : RIGHT
32	HANGER SHELL L	CNRAC-206012		1	1	1	SIDE : LEFT
33	LABEL HC BACK	CNRAH-269291	S	1	1	1	LANGUAGE : ENGLISH
		CNRAH-269301	S			1	LANGUAGE : THAI
34	WIRING DIAGRAM	CNRAH-297820		1			FOR XSTH
		CNRAH-293810		1			FOR XSMY
		CNRAH-293820		1			FOR XSSG
		CNRAH-293830		1			FOR XS1D
		CNRAH-293840		1			FOR XSVN
		CNRAH-293850		1			FOR XS1N
		CNRAH-293860		1			FOR XSAU/NZ
		CNRAH-293870		1			FOR XSPH
		CNRAH-293890			1		FOR XWAU/NZ
		CNRAH-293720				1	FOR XSTH
		CNRAH-293730				1	FOR XSMY
		CNRAH-293740				1	FOR XSSG
		CNRAH-293750				1	FOR XS1D
		CNRAH-293760				1	FOR XSVN
		CNRAH-293770				1	FOR XS1N
		CNRAH-293780				1	FOR XSPH
		CNRAH-293790				1	FOR XSAE
		C			1	1	
		CNRAH-293800					FOR XSWG
35	PAN WATER EVA. AS.	CNRBF-150371		1	1	1	FOR ASWG
35 35.1 36	PAN WATER EVA. AS. PIPE WATER EVA. CLAMP PIPE WATER EVA.			1 1 1	1 1 1		FOR ASWG

#### **Parts List**

	PART NAME		SAFETY	MODEL / Q'TY			]
REF. NO.		PART. NO.		BY552		BY602	REMARK
				xs	xw	XS	
38	REACTOR	CNRBG-165910		1	1	1	
39	RUBBER REACTOR	CNRAF-156140		2	2	2	
40	COVER CASE BOARD (GI)	CNRAC-214821		1	1	1	
41	SUPPLY CORD AS S3P	CNRBG-176222	S	1		1	XSMY, XSSG, XSAE
	SUPPLY CORD AS C2P	CNRBG-172281	S	1		1	XS1D, XSVN
	SUPPLY CORD AS B3P	CNRBG-172271	S	1		1	XS1N
	SUPPLY CORD AS K3P	CNRBG-185900	S	1	1		XSAU/NZ, XWAU/NZ
	SUPPLY CORD AS A2P	CNRBG-172291	S	1		1	XSPH
	SUPPLY CORD AS C3P	CNRBG-170952	S	1		1	XSTH
	SUPPLY CORD AS C2P (SHUKO)	CNRBG-176610	S			1	XSWG
42	HEXAGON NUT 8	CNR38-8170A1		2	2	2	
43	SPRING WASHER 8	CNR38-4270A0		2	2	2	
44	8 WASHER	CNR38-4170A0		2	2	2	
45	COMPRESSOR EFI100E13DGH	CNR91-236420		1	1	1	
46	MOTOR PROTECTOR	CNR06-598070	S	1	1	1	
47	PROTECTOR COVER	CNRAG-170460		1	1	1	
48	EARTH WIRE AS. COMP. 230	CNRBG-156650		1	1	1	
49	5 DRYER W	CNR39-340920		1	1	1	
50	RUBBER GROMMET	CNR01-249530		4	4	4	
51	CLAMPER DRYER	CNR39-163082		1	1	1	
52	CROSSRAIL REAR	CNRAF-177400	<del>                                     </del>	1	1	1	
53	SLEEVE COMP.	CNRAJ-112932		2	2	2	
54	PIN CASTER	CNR02-325701		2	2	2	
55	ROLLER 40	CNRAC-116280		2	2	2	
56	FAN MOTOR FC	CNRAG-145641		1	1	1	
				1	1	'	
57	INS. DUCT PC	CNRAH-261251		1	l	1	
F7.4	OF AL FOAM BUICT BO A	CNRAH-261241				1	
57.1	SEAL FOAM DUCT PC A	CNRAJ-167390		1	1		
	DI ATE DUOT DO	CNRAJ-167380				1	
58	PLATE DUCT PC	CNRAH-261212		1	1		
		CNRAH-261202				1	
59	PLATE DUCT PCB	CNRAH-261223		1	1	1	
60	LED KIBAN (VC)	CNRAG-163022		1	1	1	
61	COVER VC LED	CNRAH-261301		1	1	1	
62	AG BIO FILTER	CNRAH-245521		1	1	1	
63	PIECE DUCT PC	CNRAH-261460		1	1	1	
64	CONTROL PANEL AS.	CNRBH-145150		1	1	1	
65	INS. CONTROL PANEL PCB	CNRAH-261291		1	1	1	
66	BAFFLE DAMPER THERMO AS.	CNRBG-184010		1	1	1	
67	INS. CONTROL PANEL PCF	CNRAH-261282		1	1	1	
68	CONTROL PANEL	CNRAH-261231		1	1	1	
69	GASKET DOOR PC	CNRAD-330972		1	1		
		CNRAD-330962				1	
70	EMBLEM	CNRAD-330991		1	1	1	
71	DOOR AS. PC (FOAM) - XS	CNRBD-365781		1			
	DOOR AS. PC (FOAM) - XW	CNRBD-365792			1		
	DOOR AS. PC (FOAM) - XS	CNRBD-365771				1	
72	PAS-CONTROL (DOOR)	CNRBG-182670		1	1		
	<u> </u>	CNRBG-182660				1	
73	COVER CONTROL (SUB) AS. BY552	CNRBD-374340		1			
	, , , , , , , , , , , , , , , , , , , ,	CNRBD-374880			1		
	COVER CONTROL (SUB) AS. BY602	CNRBD-374330				1	
74	LATCH DOOR	CNRAE-136513		1	1	1	
75	STOPPER DOOR	CNRAD-335500		1	1	1	
76	GASKET DOOR FC	CNRAD-330981		1	1	1	
77	DOOR AS. FC (FOAM) - XS	CNRBD-365720		1	<del>                                     </del>	1	
	DOOR AS. FC (FOAM) - XW	CNRBD-365730	<del>                                     </del>	<u>'</u>	1	+ '	
78	SHELF EGG	CNRAD-330772		2	2	3	
78 79	TRAY EGG 10	CNRAD-330772 CNRAD-338110	-		1	1	
			-	1		_	
80	SHELF PC R	CNRAD-330711	-	1	1	1	
81	SHELF PC L	CNRAD-330701	-	1	1	1	
82	SLIDE STOPPER BOTTLE	CNRAD-330941		2	2	2	
83	SHELF BOTTLE	CNRAD-330693		1	1	1	
84	FRAME AS. FC R	CNRBD-340671		1	1	1	FIX BY TRUSS 5 TS16 / CNR38-195541
85	FRAME AS. FC L	CNRBD-340661	1	1	1	1	FIX BY TRUSS 5 TS16 / CNR38-195541

#### **Parts List**

				MODEL / Q'TY / BY552 BY602		TY	
REF. NO.	PART NAME	PART. NO.	SAFETY			BY602	REMARK
				XS	xw	XS	
86	SUPPORT REAR	CNRAD-330951		1	1	1	
87	LABEL NAME	CNRAH-297790	S	1			FOR XSTH
		CNRAH-293540	S	1			FOR XSMY
		CNRAH-293550	S	1			FOR XSSG
		CNRAH-293560	S	1			FOR XS1D
		CNRAH-293570	S	1			FOR XSVN
		CNRAH-293580	S	1			FOR XS1N
		CNRAH-293590	S	1			FOR XSAU/NZ
		CNRAH-293600	S	1			FOR XSPH
		CNRAH-293620	S		1		FOR XWAU/NZ
		CNRAH-293450	S			1	FOR XSTH
		CNRAH-293460	S			1	FOR XSMY
		CNRAH-293470	S			1	FOR XSSG
		CNRAH-293480	S			1	FOR XS1D
		CNRAH-293490	S			1	FOR XSVN
		CNRAH-293500	S			1	FOR XS1N
		CNRAH-293510	S			1	FOR XSPH
		CNRAH-293520	S			1	FOR XSAE
		CNRAH-293530	S			1	FOR XSWG
88	UTILITY BOX	CNRAD-354431		1	1	1	
89	COVER UTILITY BOX	CNRAD-354441		1	1	1	

#### **Packing List**

REF. NO.	PART NAME		SAFETY	M	ODEL / Q'	TY	
		PART. NO.		BY552		BY602	REMARK
				xs	xw	xs	
	PACKING AS.	CNRBK-129600		1			FOR XSTH
		CNRBK-127670		1			FOR XSMY
		CNRBK-127680		1			FOR XSSG
		CNRBK-127690		1			FOR XS1D
		CNRBK-127700		1			FOR XSVN
		CNRBK-127710		1			FOR XS1N
		CNRBK-127720		1			FOR XSAU/NZ
		CNRBK-127730		1			FOR XSPH
		CNRBK-127750			1		FOR XWAU/NZ
		CNRBK-127580				1	FOR XSTH
		CNRBK-127590				1	FOR XSMY
		CNRBK-127600				1	FOR XSSG
		CNRBK-127610				1	FOR XS1D
		CNRBK-127620				1	FOR XSVN
		CNRBK-127630				1	FOR XS1N
		CNRBK-127640				1	FOR XSPH
		CNRBK-127650				1	FOR XSAE
		CNRBK-127660				1	FOR XSWG
	BOTTOM TRAY AS.	CNRBK-119721		1	1	1	
	PLASTIC COVER	CNRAJ-162080		1	1		
		CNRAJ-162070				1	
	TOP PAD R	CNRAK-141801		1	1	1	SIDE : RIGHT
	TOP PAD L	CNRAK-141792		1	1	1	SIDE : LEFT
	INS. PC PAD 552	CNRAK-153040		2	2		FOR PROTECT GLASS TRAY SLIDE
	INS. PC PAD 602	CNRAK-153030				2	FOR PROTECT GLASS TRAY SLIDE
	SHELL SIDE PAD	CNRAK-142810		2	2	2	FOR BOTH SIDE
	PROTECTOR DOOR AS.	CNRBK-117320		1	1	1	
	INSTRUCTION BOOK	CNRAK-157170		1		1	FOR XSTH
		CNRAK-157180		1		1	FOR XSMY
		CNRAK-157190		1		1	FOR XSSG , XSPH
		CNRAK-157200		1		1	FOR XS1D
		CNRAK-157210		1		1	FOR XSVN
		CNRAK-157220		1		1	FOR XS1N
		CNRAK-157240				1	FOR XSAE, XSWG
		CNRAK-157250		1	1		FOR XSAU/NZ, XWAU/NZ

# **DETAIL CHANGE NOTICE**

REVISION	ITEM NO.	PAGE	DETAIL	REMARK
JAN. 2012	1	4	ADD THAILAND MODEL	FOR MODEL : NR-BY552XS
	2	29 - 31	ADD PART NAME & NO. AND Q'TY	FOR MODEL : NR-BY552XSTH
FEB. 2012	1	26, 29	ADD SENSOR FCC	ADD PICTURE, PART NAME & NO.
FEB. 2014	1	26, 29	REVISE PICTURE AND ADD PART NAME & NO. OF PIPE WATER EVA.	FOR SALES AS SERVICE PART
	2	27, 30	ADD PICTURE AND PART NAME & NO. OF SEAL FOAM DUCT PC A PART	FOR SALES AS SERVICE PART