

SAMSUNG

SYSTEM AIR CONDITIONER

Basic : SH035EAV1

Model : SH026EAV Series

SH035EAV Series

UH026EAV Series

UH035EAV Series

Model Code : SH026EAV1

SH035EAV1

UH026EAV1

UH035EAV1

SERVICE Manual

AIR CONDITIONER



SH026EAV1
SH035EAV1



UH026EAV1
UH035EAV1

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3. Disassembly and Reassembly
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Refer to the service manual in the GSPN(see the rear cover) for the more information.



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1. Precautions

1-1 Precautions for the Service

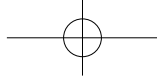
- **Use the standard parts when replacing the electric parts.**
 - Confirm the model name, rated voltage, rated current of the electric parts.
- **Repair the disconnection of HARNESS securely when repairing the break down.**
 - If there is any connection error, it causes an abnormal noise and incorrect operation.
- **In case that you assemble or disassemble the products with laying it on the side, do work on the work cloth.**
 - If not, the exterior of products can be scratched.
- **Remove dust and foreign materials from harness, connection part, and inspection part thoroughly when repairing the break down.**
 - It protects the danger of fire such as tracking and short.
- **Tighten tightly the service valve of outdoor unit and the cap of charging valve with a monkey spanner.**
- **Check the assembly status of parts after repairing the break down.**
 - It should be same as the status before repairing.

1-2 Precautions for the Static Electricity and PL

- **As the PCB power terminal has a weakness for the static electricity, pay attention to it during the repair and measurement.**
 - Work with insulation gloves during the repair and measurement of PCB.
- **Check the distance between the product and the other electronic appliances such as TV, video, and audio.**
It should be over 2m.
 - If not, it causes a bad picture quality or a noise.
- **Repairing the products by consumer should be strictly prohibited.**
 - There is a danger of electric shock or fire due to incorrect disassembly.

1-3 Precautions for the Safety

- **Do not pull any electric wires and do not touch an auxiliary power switch with a wet hand.**
 - There is a danger of electric shock or fire.
- **In case any wire or power plug has been damaged, replace it to eliminate any possible danger.**
- **Do not bend the power cord by force and do not put any heavy object on the power cord.**
 - There is a danger of electric shock or fire.
- **Do not use multi socket.**
 - There is a danger of electric shock or fire.
- **Ground the product if necessary.**
 - Be sure to ground the product if there is any danger of electric leakage due to water or moisture.
- **Be sure to turn off the auxiliary power switch or pull out the power plug during replacement or repair of electric parts.**
 - There is a danger of electric shock.
- **In case the product will not be in use for a long time, the battery of remote control should be kept separately.**
 - Leakage of inside fluid can cause break down of remote control.



2. Product Specifications

2-1 The Feature of Product

2-1-1 Features

■ What is a 1 Way Cassette type Air Conditioner?

Stylish design and pleasant heating and cooling enhances the elegance of the space.

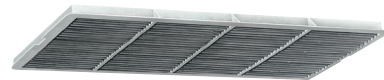
With a compact design that occupies the least space possible, it saves space for installation and its air-flow method from the ceiling allows pleasant air to fill every corner of the space.



■ Clean heating and cooling system

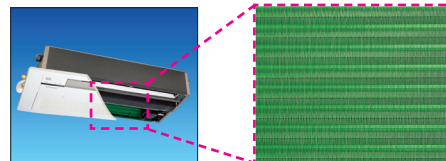
- **Long-life filter**

A filter that obviates the need for replacement and/or maintenance up to 1,000~2,000 hours and retains its initial cleanness.



- **Anti-bacterial cooler/ anti-bacterial filter**

Employing the unique and independent technology of Samsung, it uses an anti-bacterial cooler. No bacteria and fungus can propagate here.



Anti-bacterial cooler is registered for domestic, American, Japanese, Italian patents.
(patent number: Korea P-0182555/ Italy: 1294250 the US: 5947194/ Japan 3048541)

- **Water-washable grille**

To allow easy cleaning, it has a removable grille for washing thoroughly with water after dismounting.

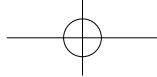


- **Filter cleaning notice function**

There is a filter cleaning instruction notice on the main body of the indoor unit and a wired remote controller. It lets you know when to clean the filter.

Filter cleaning notice function can be adjusted between 1,000 and 2,000 hours to give notice depending on the condition in which it is used.

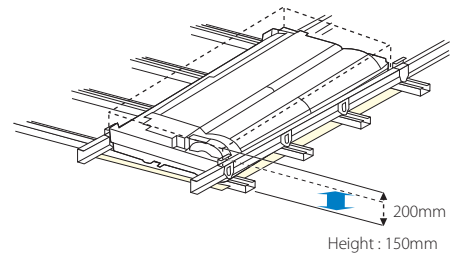




■ Convenient installation

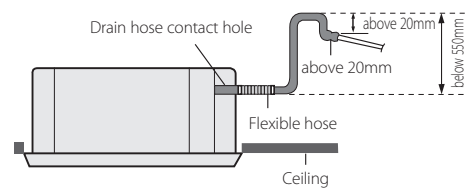
- **Compact design**

Compact design that occupies a small space can be easily installed in a limited ceiling area.

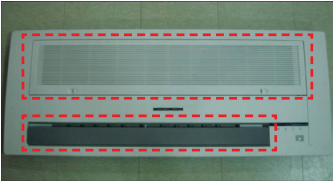
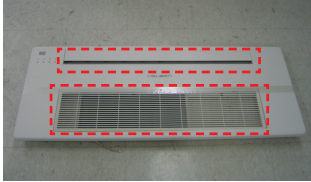
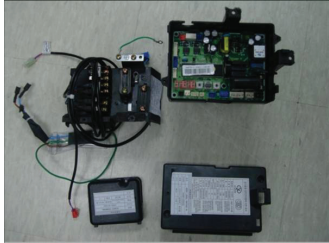
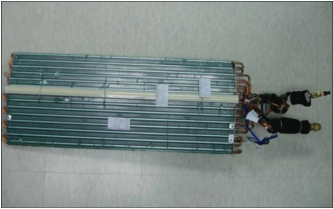
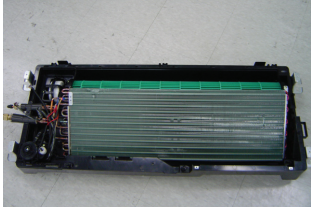


- **High head drainage pump**

Drainage pump can drain up to 550mm higher than the drainage port, so it is easy to install drain piping.

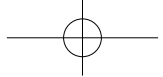


2-1-2 Changes in comparison to basic model

Changed part	Changed item and feature	Basic	After changed
Indoor Unit	Panel Front - Changes in the shape of blade and grille		
	Ass'y Control In - Integration of terminal part and PCB part		
	Ass'y Evap Unit - Changed from 2 rows and 14 levels to 2 rows 12 levels		

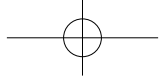
2-1-3 Newly adopted features

Applied part	Newly adopted item and feature	Item
Indoor Unit	Ass'y Cabinet In - Injection part applied	



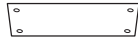
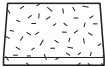
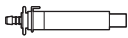
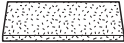
2-2 The Comparative Specifications of Product

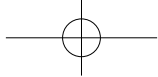
Item				Development Model		Comparative Model
				SH026EAV Series	SH035EAV Series	KH035EAV
Design	Indoor Unit					
	Outdoor Unit					
	Remote Control					
Power specifications				Single phase, 220~240V, 50Hz		Single phase, 220~240V, 50Hz
Size	Indoor	W×H×D	mm	970×135×410		970×180×390
	Panel	W×H×D	mm	1,180×25×460		1,180×20×460
	Outdoor	W×H×D	mm	790×548×285		790×548×285
Weight	Indoor Unit		kg	10		15
	Outdoor Unit		kg	32.6		35.5
Capacity	Cooling(Normal/Min)		w	2,600/980	3,500/980	3,500/980
	Heating(Normal)		w	3,300	4,000	4,000
Power consumption	Cooling(Normal/Min)		w	695/245	1,140/250	1,090/250
	Heating(Normal)		w	910	1,160	1,170
Running current	Cooling(Normal/Min)		A	3.3/1.6	5.3/1.6	5.1/1.5
	Heating(Normal)		A	5.3	5.5	5.6
Amount of basic refrigerant(NET)			g	950		1,000
Connecting pipes			High pressure side	1/4"		1/4"
			Low pressure side	3/8"		3/8"
Additional amount of refrigerant(per 1m)			g	chargeless		chargeless
Basic pipe length			m	5		7.5
Max. allowable pipe length			m	20		20
Max. allowable head drop for outside pipe			m	15		15
Option code				078775-1380F8	077775-15824d	005770-158247



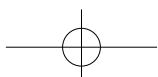
2-3 Accessory and Option Specifications

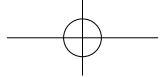
2-3-1 Accessories

Item	Descriptions	Code-No.	Q'TY	Remark
	Pattern sheet	DB97-01936A	1	Basic/ Indoor
		DB98-01947A	1	
		DB98-01947B	1	
	Insulation joint out (liquid side, gas side) (200mm×200mm×T3)	DB72-00401C	2	
	Insulation cover drain (270mm×250mm×T5)	DB62-01959A	1	
	Ass'y drain hose joint	DB94-01258C	1	
	Insulation drain pipe (290mm×45mm×T10)	DB62-01960B	1	
	Rubber	DB63-00237A	8	
	Installation manual	DB98-28847A	1	
	Insulation cover band (50mm×250mm×T5)	DB72-00109J	1	

**■ Wireless Remote Controller**

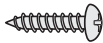
Item	Descriptions	Code-No.	Q'TY	Remark
	Wireless remote controller	DB93-04858C	1	
	Battery	DB47-90024A	2	
	Remote control holder	DB61-03147A	1	
	STS 2S-2x10 tapped screw	6002-000581	2	
	User manual	DB98-27997A	1	
	Installation manual	DB98-27999A	1	

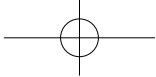




Product Specifications

■ Wired Remote Controller

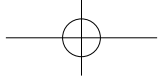
Item	Descriptions	Code-No.	Q'TY	Remark
	Wired remote controller	DB93-01766H	1	
	Cable-tie	DB65-10088B	2	
	Cable clamp	DB65-10074E	5	
	M4x16 tapped screw	6002-000474	7	
	Indoor unit power drawing cable	DB39-00221A	1	
	Communication cable of the wired remote controller	DB39-00933A	1	
	Wire joint	DB39-90020A	1	
	User manual	DB98-15731A	1	
	Installation manual	DB98-15770A	1	

**■ Centralized Controller**

Item	Descriptions	Code-No.	Q'TY	Remark
	Centralized controller	DB93-03425C	1	
	Cable-tie	DB65-10088B	2	
	Cable clamp	DB65-10074E	5	
	M4x16 tapped screw	6002-000474	7	
	User manual	DB98-12721A	1	
	Installation manual	DB98-25773A	1	

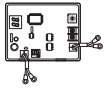
■ Function Controller

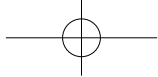
Item	Descriptions	Code-No.	Q'TY	Remark
	Function controller	DB93-00757G	1	
	Cable-tie	DB65-10088B	2	
	Cable clamp	DB65-10074E	6	
	M4x16 tapped screw	6002-000474	7	
	User manual	DB98-27317A	1	
	Installation manual	DB98-27315A	1	



Product Specifications

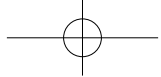
■ Transmitter

Item	Descriptions	Code-No.	Q'TY	Remark
	Transmitter	DB93-03374C	1	
	Transmitter power cable	DB39-00378D	1	
	Transmitter communication cable	DB39-00253D	1	



2-3-2 Filter

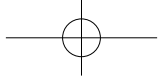
Type	Item	Descriptions	Code-No.	Remark
Panel (A type)		Air Filter	DB63-01694A DB63-01695A	Basic / Water Washing
Panel (B type)		Air Filter	DB61-03366A DB61-03367A	



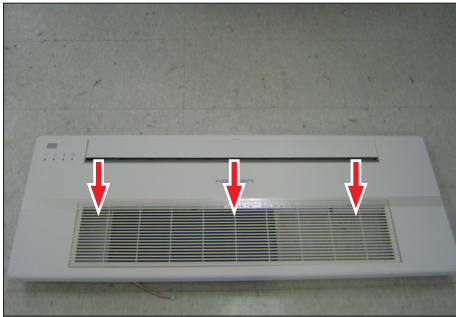
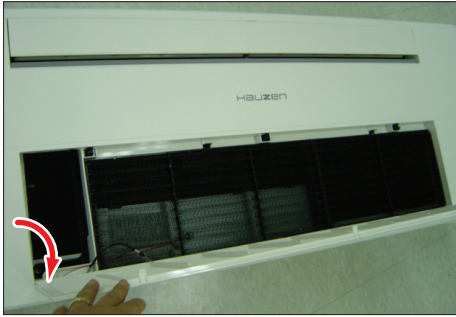
3. Disassembly and Reassembly

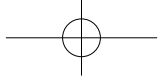
■ Necessary Tools

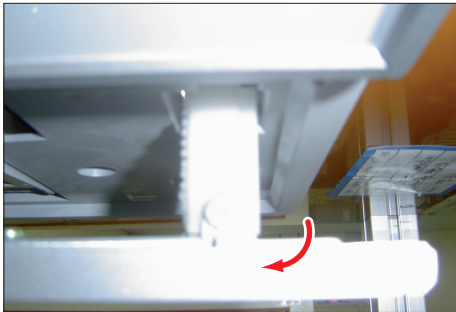
Item	Remark
+SCREW DRIVER	
MONKEY SPANNER	

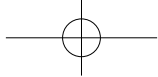


3-1 Indoor Unit

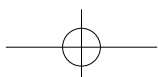
No	Parts	Procedure	Remark
1	Panel & Filter(A type)	1) Press the push button on the Grille to open. 2) Separate 1 clip from the Panel then tilt the Grille 45° to remove Grille from the Panel. 3) Separate Filter from the Panel. 4) Separate 3 cover screws from it. 5) Undo 6 fixed screws on the Panel to remove from the Indoor Unit. (Use +Screw Driver.)	    

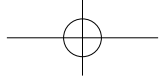


No	Parts	Procedure	Remark
		6) Press the left and right hooks on the Panel to separate Panel from the Indoor Unit.	
	Panel & Filter (B type)	1) Press the [Filter Reset] button on the Wireless Remote Controller once. It will make an induction Panel that is shown in the next picture slide down. 2) Spin the 2 connecting levers that link both ends of the induction Panel and gear as shown in the next picture. 3) Push the induction Panel forward to remove it.	   

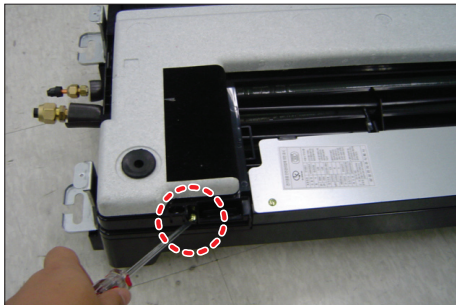
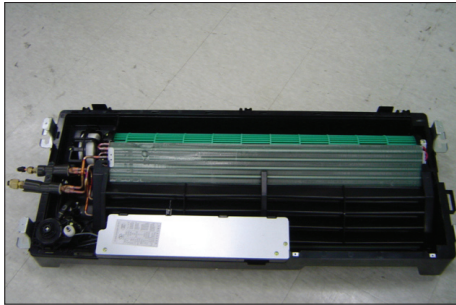
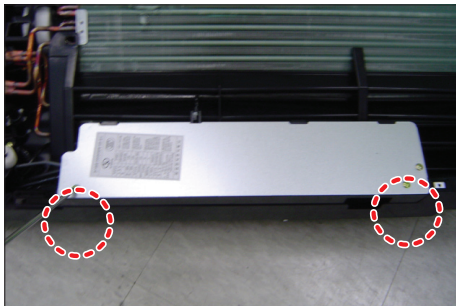
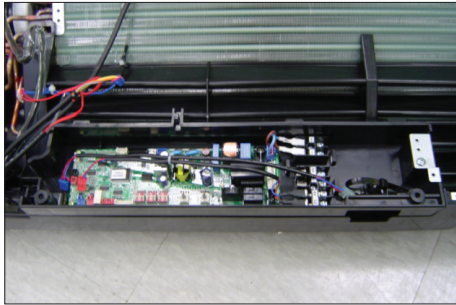


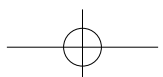
No	Parts	Procedure	Remark
		4) Remove the induction Filter. (2EA)	
		5) Remove the Filter Guide. (2EA)	
		6) Remove the 3 screws covers.	
		7) Remove 4 connecting wires for the Panel and undo the 7 screws that fix the Panel. (Use + Screw Driver.)	
		8) After pulling out 2 Panel fixing hooks, please separate the Panel and the Indoor Unit.	

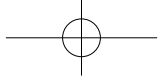


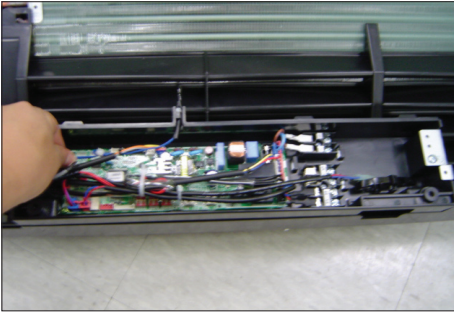
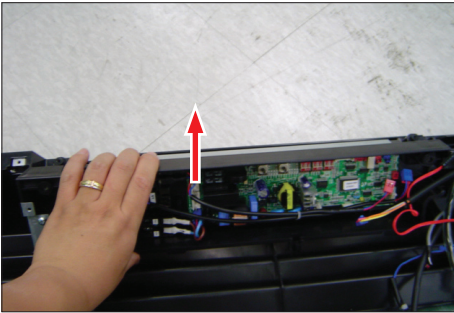
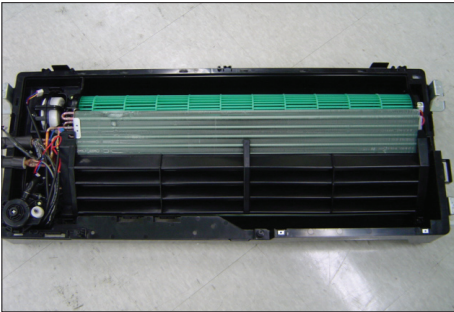
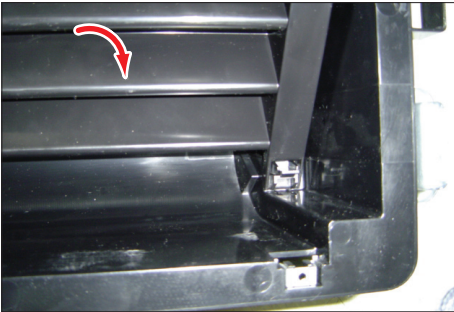


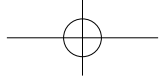
Disassembly and Reassembly

No	Parts	Procedure	Remark
			
2	Drain Pan	1) Separate 5 fixing screws in the Drain Pan. (Use +Screw Driver.) 2) Pull the Drain Pan to separate it from the Indoor Unit. ⚠ When separating the Pan please be careful not to touch the board of Heat Exchanger.	 
3	Control In	1) Undo 3 fixing screws in the Control In appliance part to separate the Cover. (Use +Screw Driver.)	 

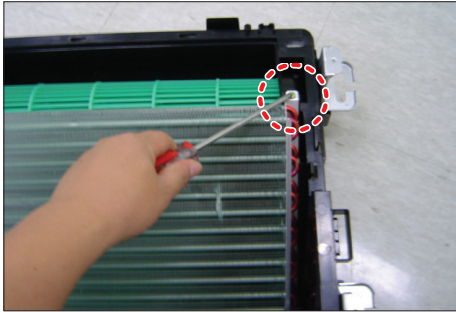
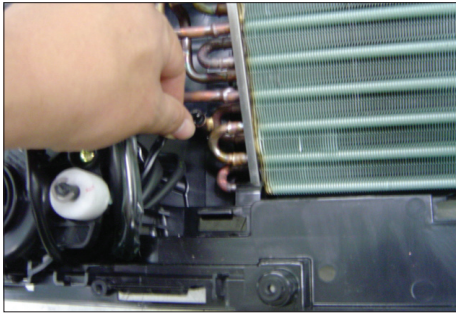
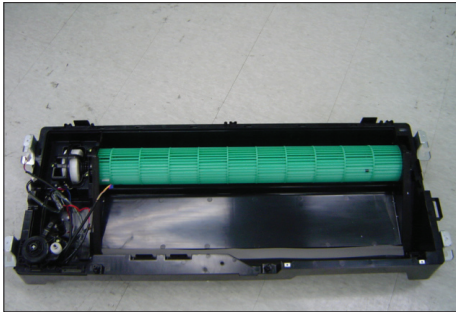
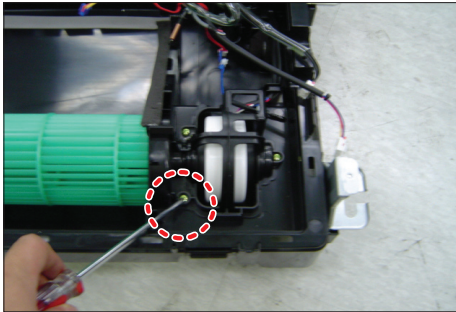
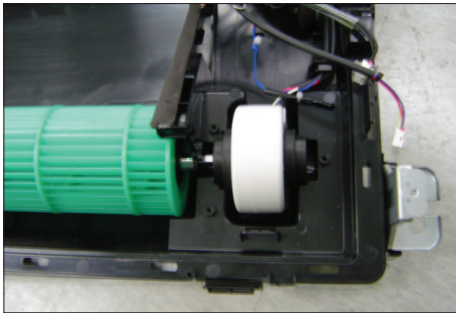


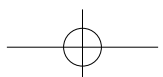


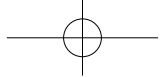
No	Parts	Procedure	Remark
		2) Separate 8 connectors on the PCB of the Indoor Unit. 3) Separate the Control In from the Indoor Unit.	  
4	Drain Sub	1) Push the hook on the Drain Sub to separate it.	 

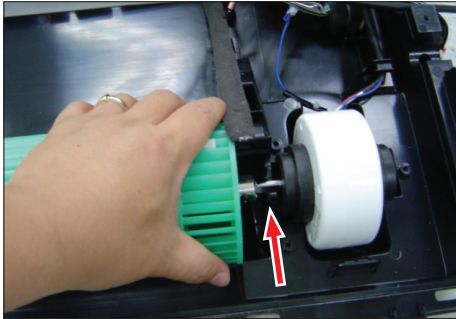
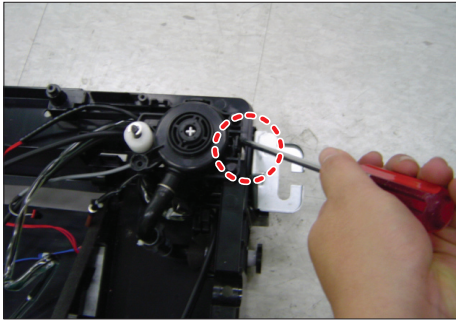
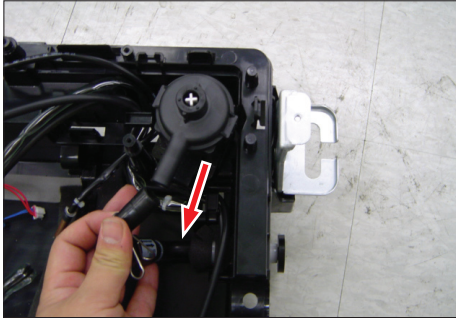
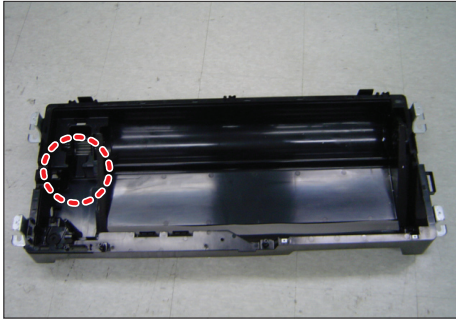


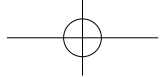
Disassembly and Reassembly

No	Parts	Procedure	Remark
5	Heat Exchanger	1) Undo fixing screw in the Heat Exchanger. (Use +Screw Driver.) 2) Separate the Indoor Unit's Sensor from the Heat Exchanger. 3) Separate the Heat Exchanger from the Indoor Unit.	  
6	Cross Fan	1) Undo 3 fixing screws on the Cover Fan Motor. (Use +Screw Driver.) 2) Separate the Cover Fan Motor from the Indoor Unit. (Use +Screw Driver.)	 

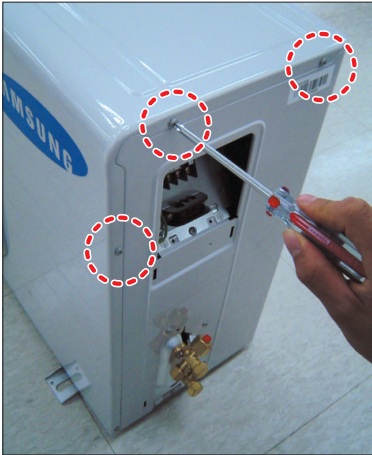
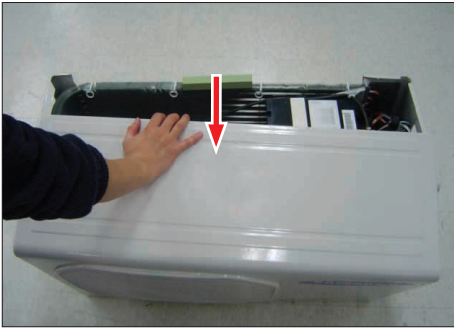


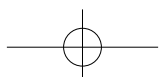


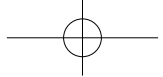
No	Parts	Procedure	Remark
		3) Separate the Cross Fan from the Indoor Unit.	
7	Drain Pump	1) Separate fixing screw in the Cover Drain Pump. (Use +Screw Driver.) 2) Separate the Drain Hose from the Drain Pump. 3) Separate the Drain Pump from the Indoor Unit.	  

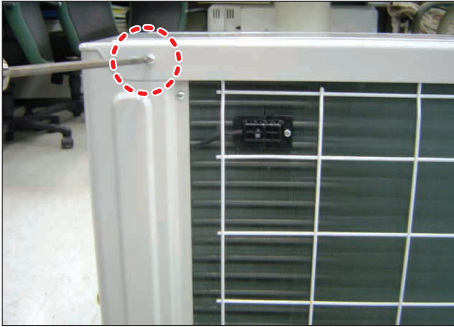
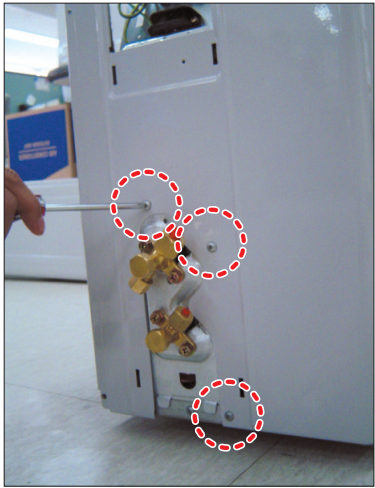
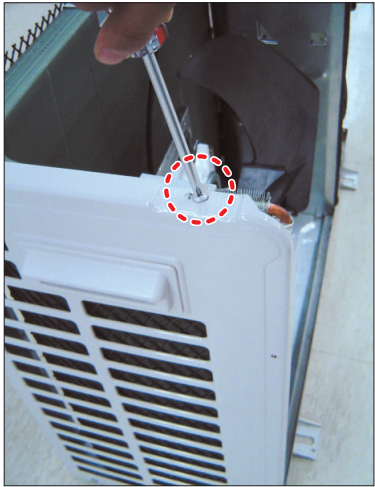


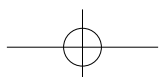
3-2 Outdoor Unit

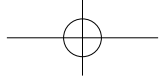
No	Parts	Procedure	Remark
1	Common Work	⚠ Before disassembly, please make sure to shut off the power. 1) Separate fixing screw in the Cover Side. (Use +Screw Driver.) 2) Undo the 4 fixing screws on the left and right cabinet Side Edges then undo the screws on the lower front to separate the Cabinet Front. (Use +Screw Driver.) 3) Separate the Cabinet Front as shown on the right picture. 4) Undo fixing screw to remove Plate Control Out on the Cabinet Side RH. (Use +Screw Driver.)	   

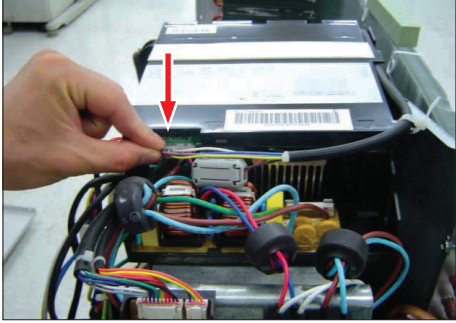
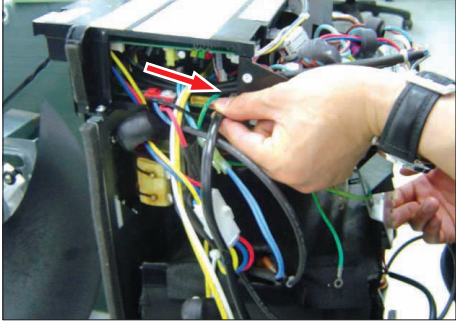
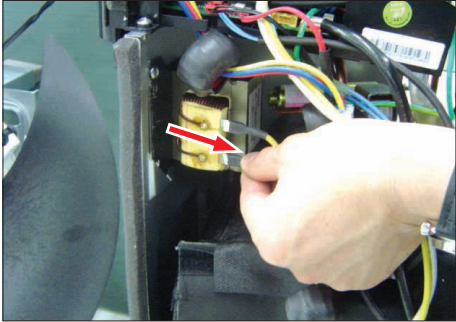
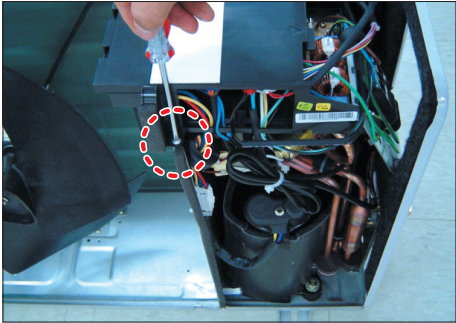


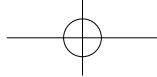


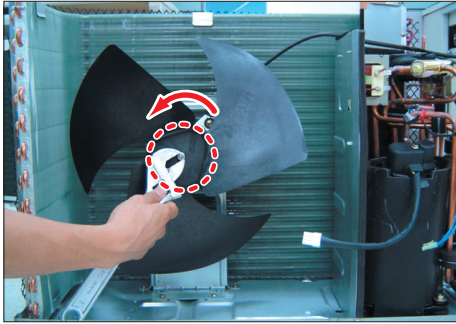
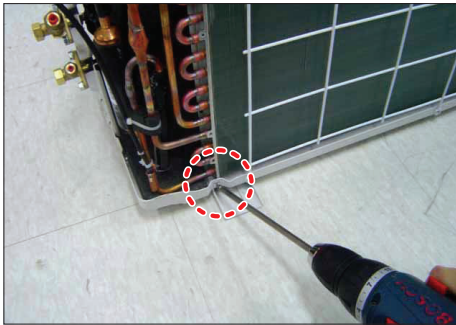
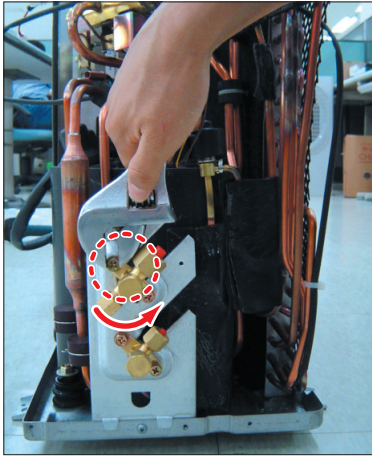
No	Parts	Procedure	Remark
		5) Undo 2 fixing screws on the backside of the Cabinet Side RH. (Use +Screw Driver.)	
		6) Undo 3 fixing screws to assemble Bracket Valve on the Cabinet Side RH. (Use +Screw Driver.)	
		7) Undo 2 fixing screws on the Cabinet Side LF. (Use +Screw Driver.)	

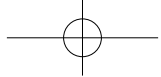


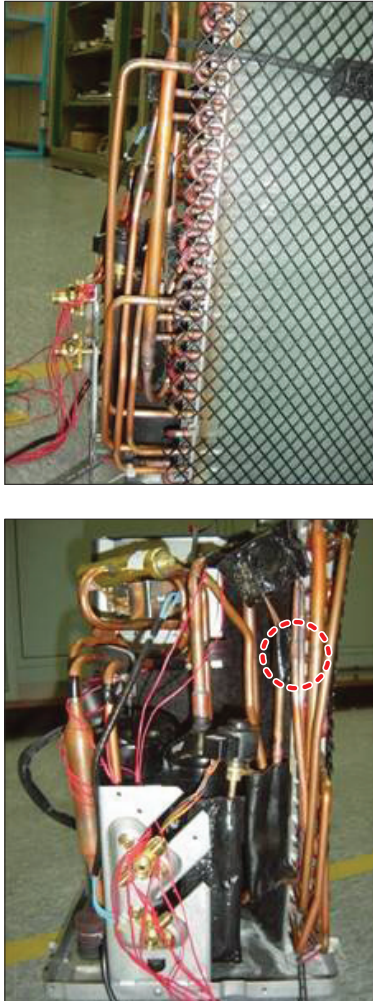
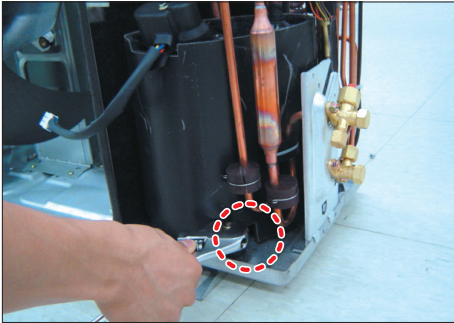


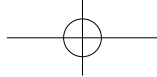
No	Parts	Procedure	Remark
2	Ass'y Control Out	1) Separate the Motor wire from the PCB of the Ass'y Control Out. 2) Separate several Connectors from the PCB of the Ass'y Control Out. 3) Separate 2 Connect Wires from the Reactor. 4) Undo a fixing screw to assemble the Ass'y Control Out on the Partition. (Use +Screw Driver.)	   



No	Parts	Procedure	Remark
3	Fan & Motor	1) Release refrigerant first. 2) Undo the fixing screw. (Use +Screw Driver.) 3) Separate the induction and outlet pipes with a Welding Torch. (Use Monkey Spanner.) 4) Separate the Fan and Motor.	
4	Heat Exchanger	1) Undo 2 fixing screws. (Use +Screw Driver.) 2) Separate the induction and outlet pipes with a Welding Torch. 3) Separate the Heat Exchanger. ⚠ Please wear gloves when working as there is a possibility of cutting your hand.	
5	Ass'y Valve 4 way & Ass'y Valve EEV	1) Undo 4 fixing bolts to assemble a Valve Service on the Bracket Valve as shown in the right picture. (Use Monkey Spanner.) ⚠ When separating Compressor, Heat Exchanger and pipes please ensure that Compressor is completely free from any remaining refrigerant then separate all pipes with welding torch. ■ Ass'y Valve 4 Way 1) Separate 3 welded parts.	 



No	Parts	Procedure	Remark
		■ Ass'y Valve EEV 1) Separate 1 welded parts.	
6	Compressor	1) Undo nuts on the Terminal Cover. 2) Separate the Terminal Cover and then Connect Wires from the Compressor. 3) Separate the Felt Comp Sound. 4) Undo 3 bolts on the flow of the Compressor as shown in the right-hand picture. (Use Monkey Spanner.)	



4. Troubleshooting

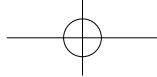
4-1 Setting Option Setup Method

4-1-1 PCB option code input method(example : 021E31-142285-2A3114-39421F)

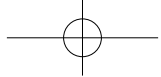
Be sure to input the option code suitable for the indoor unit by use of wireless remote controller after replacing the PCB of indoor unit.
Follow to do the following 27 steps sequentially.

Operation method	Applicable button	Indicating state
※ Step 1 <u>Method)</u> ① Remove the battery of remote controller. ② Push the Off Timer and Cancel button simultaneously. ③ Insert the battery. <u>Result)</u> When the display of remote controller is indicated as shown in the right, then go to the step 2.		
※ Step 2 <u>Method)</u> If the first digit of remote controller shows "0", go to the step 3. • If it shows 1, press the Mode button one time to change it into 0 and then go to step 3.		
※ Step 3 <u>Method)</u> Input the second digit of option code by pressing the High Temp button. example) 0<u>2</u>1E311422852A311439421F <u>Result)</u> If 2 is displayed, go to the step 4 (whenever pressing the button, 1~9, A,B,C,D,E,F are lit in order.)		

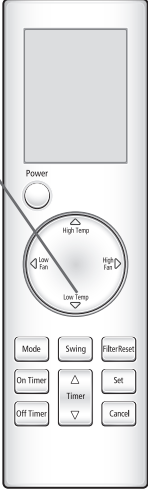
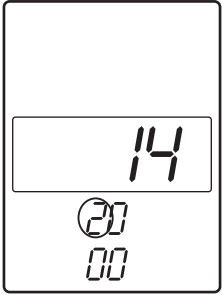
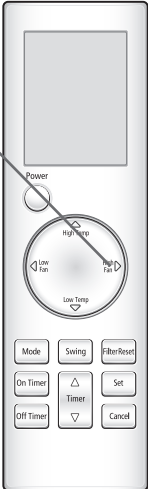
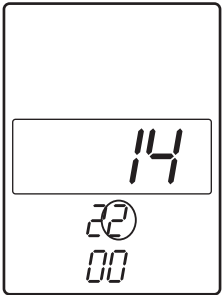
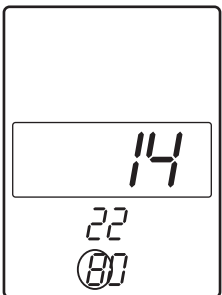
Operation method	Applicable button	Indicating state
※ Step 4 <u>Method)</u> Input the third digit of option code by pressing the Low Temp button. example) 021E311422852A311439421F <u>Result)</u> If 1 is displayed, go to the step 5.		
※ Step 5 <u>Method)</u> Input the fourth digit of option code by pressing the High Fan button. example) 021E311422852A311439421F <u>Result)</u> If E displays, go to step 6.		
※ Step 6 <u>Method)</u> Input the fifth digit of option code by pressing the On Timer button. example) 021E311422852A311439421F <u>Result)</u> If 3 displays, go to step 7.		

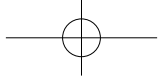


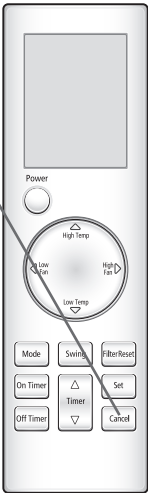
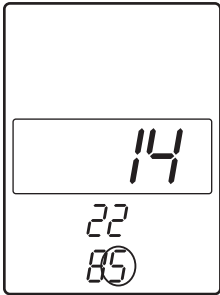
Operation method	Applicable button	Indicating state
※ Step 7 <u>Method)</u> Input the sixth digit by pressing the Cancel button. example) 021E3<u>1</u>1422852A311439421F <u>Result)</u> If 1 displays, go to step 8.		
※ Step 8 <u>Method)</u> After completion up to step 7, pressing Mode button. ① 1~7 steps are saved internally. ② If the first number is 1 at the time, it is correct. So go to step 9. • If wanting to see the screen of 2~7 steps, press the mode button repeatedly to make the first digit 0.		
※ Step 9 <u>Method)</u> Input the eighth digit by pressing the High Temp button. example) 021E311<u>4</u>22852A311439421F <u>Result)</u> If 4 displays, go to step 10.		

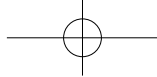


Troubleshooting

Operation method	Applicable button	Indicating state
※ Step 10 <u>Method)</u> Input the ninth digit by pressing the Low Temp button. example) 021E3114<u>2</u>2852A311439421F <u>Result)</u> If 2 displays, go to step 11.		
※ Step 11 <u>Method)</u> Input the tenth digit by pressing the High Fan button. example) 021E31142<u>2</u>852A311439421F <u>Result)</u> If 2 displays, go to step 12.		
※ Step 12 <u>Method)</u> Input the 11st digit by pressing the On Timer button. example) 021E311422<u>8</u>52A311439421F <u>Result)</u> If 8 displays, go to step 13.		

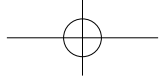


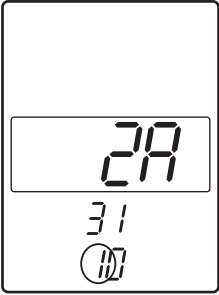
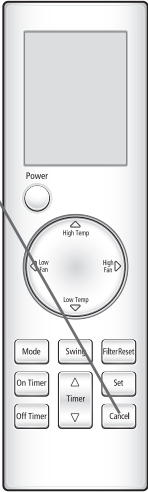
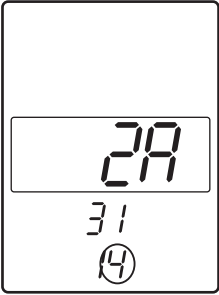
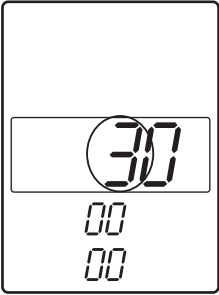
Operation method	Applicable button	Indicating state
※ Step 13 <u>Method)</u> Input the 12th digit by pressing the Cancel button. example) 021E311422852A311439421F <u>Result)</u> If 5 displays, go to step 14.		
Step 14 <u>Method)</u> After completion up to step 13, pressing Mode button. ① Previous steps are saved internally. ② If the first number is 2 at the time, it is correct. So go to step 15. • If wanting to see previous screen, press the mode button repeatedly to make the first digit to with digit.		■ Error ① If the On/Off, Timer and Fan indicator is flickering, the wrong option code is input. Put off the power of indoor unit and turn it on again and then input the option code again. If the same error occurs, it is the EEPROM is defective or not inserted. Replace the PCB. ② If all of On/Off, Timer, Fan and Filter Sign indicator are flickering along with the "Tirring" sound, there is option code already input which are different from the current ones. Check the option code and press the button again if correct. Option code will be input.(Check the option code correctly. At the time, if the same error continues to occur, the option code is out of input range. Check the option code again and repeat the step 1~14.

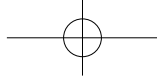


Troubleshooting

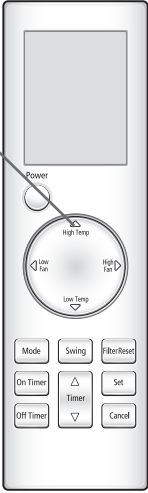
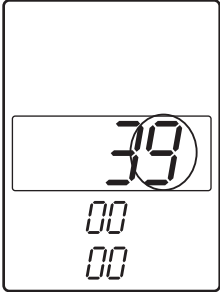
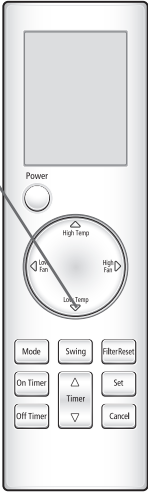
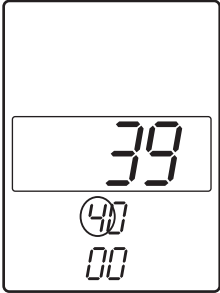
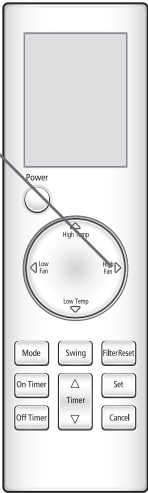
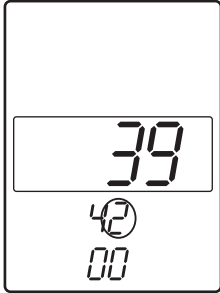
Operation method	Applicable button	Indicating state
※ Step 15 <u>Method)</u> Input the 14th digit by pressing the High Temp button. example) 021E311422852A311439421F <u>Result)</u> If A displays, go to step 16.		
※ Step 16 <u>Method)</u> Input the 15th digit by pressing the Low Temp button. example) 021E311422852A311439421F <u>Result)</u> If 3 displays, go to step 17.		
※ Step 17 <u>Method)</u> Input the 16th digit by pressing the High Fan button. example) 021E311422852A311439421F <u>Result)</u> If 1 displays, go to step 18.		

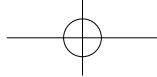


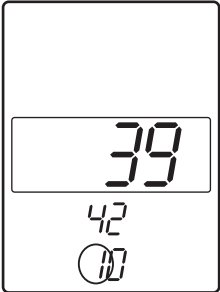
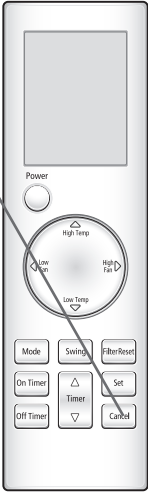
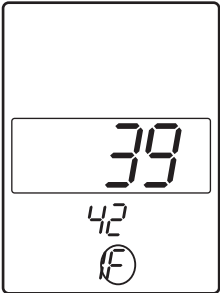
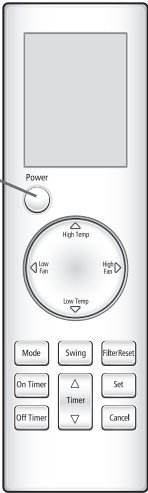
Operation method	Applicable button	Indicating state
※ Step 18 <u>Method)</u> Input the 17th digit by pressing the On Timer button. example) 021E311422852A311439421F <u>Result)</u> If 1 displays, go to step 19.		
※ Step 19 <u>Method)</u> Input the 18th digit by pressing the Cancel button. example) 021E311422852A311439421F <u>Result)</u> If 4 displays, go to step 20.		
※ Step 20 <u>Method)</u> After completion up to step 20, pressing Mode button. ① Previous steps are saved internally. ② If the first number is 3 of the time, it is correct. so go to step 22. • If wanting to see previous screen, press the mode button repeatedly to make the first digit to with digit.		

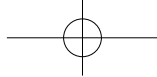


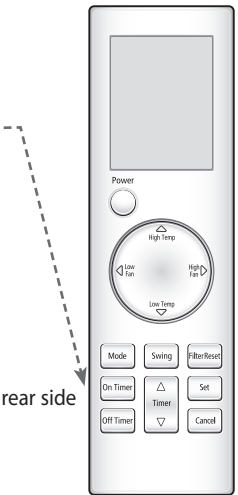
Troubleshooting

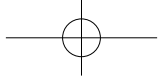
Operation method	Applicable button	Indicating state
※ Step 21 <u>Method)</u> Input the 20th digit by pressing the High Temp button. example) 021E311422852A311439<u>4</u>21F <u>Result)</u> If 9 displays, go to step 22.		
※ Step 22 <u>Method)</u> Input the 21th digit by pressing the Low Temp button. example) 021E311422852A311439<u>4</u>21F <u>Result)</u> If 4 displays, go to step 23.		
※ Step 23 <u>Method)</u> Input the 22th digit by pressing the High Fan button. example) 021E311422852A3114394<u>2</u>1F <u>Result)</u> If 2 displays, go to step 24.		



Operation method	Applicable button	Indicating state
※ Step 24 <u>Method)</u> Input the 23th digit by pressing the On Timer button. example) 021E311422852A311439421F <u>Result)</u> If 1 displays, go to step 25.		
※ Step 25 <u>Method)</u> Input the 24th digit by pressing the Cancel button. example) 021E311422852A311439421F <u>Result)</u> If F displays, go to step 26.		
※ Step 26 <u>Method)</u> Turn the remote controller toward the indoor unit and press the Power button, and if the "Ting" or "Tirring" sounds, the input of option is completed. • If error displays, solve the problem with reference to the right side.		■ Error ① If the On/Off, Timer and Fan indicator is flickering, the wrong option code is input. Put off the power of indoor unit and turn it on again and then input the option code again. If the same error occurs, it is the EEPROM is defective or not inserted. Replace the PCB. ② If all of On/Off, Timer, Fan and Filter Sign indicator are flickering along with the "Tirring" sound, there is option code already input which are different from the current ones. Check the option code and press the button again if correct. Option code will be input.(Check the option code correctly. At the time, if the same error continues to occur, the option code is out of input range. Check the option code again and repeat the step 1~26.

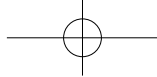


Operation method	Applicable button	Indicating state
※ Step 27 <u>Method)</u> If the steps 1 to 26 are completed, remove the battery and insert it again to return to the original display of remote controller. (Operation mode/SET TEMP. /fan speed displays.)	rear side 	■ Error ① If the On/Off, Timer and Fan indicator is flickering, the wrong option code is input. Put off the power of indoor unit and turn it on again and then input the option code again. If the same error occurs, it is the EEPROM is defective or not inserted. Replace the PCB. ② If all of On/Off, Timer, Fan and Filter Sign indicator are flickering along with the "Tirring" sound, there is option code already input which are different from the current ones. Check the option code and press the button again if correct. Option code will be input.(Check the option code correctly. At the time, if the same error continues to occur, the option code is out of input range. Check the option code again and repeat the step 1~26.



4-1-2 Option Items

SEGMENT MODEL	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
SH026EAV1	0	7	8	7	7	5	1	3	8	0	F	8
SH035EAV1	0	7	7	7	7	5	1	5	8	2	4	d



4-2 Things to check before diagnosis

4-2-1 1 way cassette type

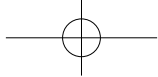
■ Error detection and reoperation

1. If an error occurs during operation, the LED flashes to indicate that there is a problem then all operations stop except LED.
2. When resuming operation with remote controller and switch, it determines error mode after normal operation.

■ LED lamp display when error is detected

Error LED lamp Display					Cause	Actions to take
						
Operation (Green)	Defrost (Red)					
X	X		X	X	• Breakaway from the room temperature sensor connector • Cut the room temperature sensor wire	• Check the connection between the room temperature wire and the main PCB of the indoor unit • Check the pattern of the room temperature sensor part of the main PCB of the indoor unit and if parts are open or shorted
	X		X	X	• Disjoint of the in/out sensor connector of the indoor heat exchanger • Cut the In/out sensor wire of the indoor heat exchanger	• Check the connection between the main PB of the indoor unit and heat exchange sensor wire. • Check the pattern of the heat exchanger of the main PCB of the indoor unit and if parts are open or shorted
X	X	X		X	• Indoor fan motor is non-operative • Indoor fan motor is operating slowly • Indoor fan motor operates at an excessive speed.	• Check if a motor connector has been dismantled (CN44, CN73) • Check the fastening of the motor fan
	X	X		X	• Disjointed or cut off of outdoor temperature sensor • Disjointed or cut off of the outdoor sensor of heat exchanger (COND) • Dismounted/ cut off of the outdoor discharge sensor	• Check the PCB display window of the outdoor unit then refer to a breakdown diagnosis
X	X			X	• Communication error between indoor units and outdoor units for more than 2 minutes • 3 min. error of the outdoor unit tracking (multi-product specification) • Inconsistency between the number of installed units and communication units. (multi-product specification)	• Check the connection between indoor and outdoor units • Check the settings for indoor Main/ RMC address switch
X	X				• The detection of secondary high temperature at COND (outdoor heat exchanger) • The detection of secondary high temperature at discharge • Reverse detection error	• Check the PCB display window of the outdoor unit then refer to breakdown diagnosis
X	X	X			• Deviation of float sensor connector • Cut of float sensor wire	• Check the connection between main PCB and float sensor in the indoor unit

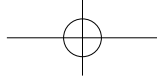
○:Turn on ●:Flashing X:Turn off



■ LED lamp display when error is detected(cont.)

Error LED lamp Display					Cause	Actions to take
						
Operation (Green)	Defrost (Red)					
X	X		X		• Option setup error on peripherals	• Check the setting of DIP switch (SW05, SW06, SW07)
	X			X	• EEPROM part defect • EEPROM circuit defect	• Check non-delivery/ cool delivery/ non-insertion of IC51 Part Pin • Check non-delivery/ cool delivery/ non-insertion of IC51 peripheral circuit components
					• EEPROM option none input/erroneous input	• Re-input of option code for indoor unit (refer to page 4-11)

○ : Turn on ● : Flashing X : Turn off



■ LED lamp display when error is detected(cont.)

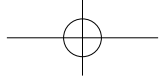
Error LED lamp Display					Product operation status in case of error			Diagnosis Method
					Indoor unit Fan	Outdoor unit Fan	Outdoor unit Compressor	
Operation (Green)	Defrost (Red)							
X	X		X	X	Operation-Off	Operation-Off	Operation-Off	Page 4-20
	X		X	X	Operation-Off	Operation-Off	Operation-Off	Page 4-21
X	X	X		X	Operation-Off	Operation-Off	Operation-Off	Page 4-22
	X	X		X	Operation-Off	Operation-Off	Operation-Off	Page 4-31
X	X			X	Operation-Off	Operation-Off	Operation-Off	Page 4-23
X	X				Operation-Off	Operation-Off	Operation-Off	Page 4-33
X	X	X			Operation-Off	Operation-Off	Operation-Off	Page 4-24
X	X		X		Operation-Off	Operation-Off	Operation-Off	-
	X			X	Operation-Off	Operation-Off	Operation-Off	Page 4-25
					Operation-Off	Operation-Off	Operation-Off	Page 4-11

○:Turn on ●:Flashing X:Turn off



4-2-2 Outdoor Unit

Error mode	Content	Measures	Product operation status in case of error	Error type
			Outdoor unit compressor/ outdoor unit fan	
101	Indoor unit communication error	Check the communication line for indoor units, check the power supply of the communication phase (DC)	Operation-off	Communication error
102	Communication time-out error between indoor/outdoor unit 6-packet over error	Check the communication line for indoor units, check the power supply of the communication phase (DC)	Operation-off	Communication error
121	Indoor temperature sensor (open/short error)	Check the temp. sensor of the indoor unit room. Check the indoor PCB connector CN21(white)	Operation-off	Indoor sensor error
122	Indoor unit Eva In sensor (open/short)	Check the indoor unit drainage pipe sensor Check the indoor PCB connector CN21 (white)	Operation-off	Indoor sensor error
128	Dismount of indoor unit Eva In sensor	Check the drainage pipe has been dismounted	Operation-off	Indoor sensor error
153	Secondary detection of indoor floating switch	Check the indoor unit's float sensor Check the indoor PCB connector CN51 (black)	Operation-off	Self-diagnosis error
201	Indoor unit not connected	Check the indoor unit connection Check the indoor unit option	Operation-off	Communication error
203	Communication error between indoor/outdoor unit INV and Main Micom (1 min.)	Check the Main MICOM Check the inverter MICOM	-	Communication error
221	Outdoor temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
237	Cond. temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
251	[inverter] Emission temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
416	Excessive temperature emission	Not an error (discharge temp. control)	-	Outdoor unit protection control error
425	Power cable connection error	Check the status of power connection	Operation-off	Outdoor sensor error

**Outdoor Unit(cont.)**

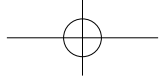
Error mode	Content	Measures	Product operation status in case of error	Error type
			Outdoor unit compressor/ outdoor unit fan	
450	Non-connection error of indoor and outdoor Communication wire (connected to the power terminal)	Check the status of power connection Check the connection status of the communication line	Operation-off	Self-diagnosis error
458	Outdoor fan 1 error	Check the input power connection status Check the connection status between the motor and PCB in outdoor unit Check the fuse of indoor/outdoor units	Operation-off	Self-diagnosis error
461	[inverter] Compressor operation error	Check the connection status of the compressor Check the resistance between different phases in compressor	Operation-off	Outdoor unit protection control error
462	Discharge current error/ PFC over-current error	Check the input power Check refrigerant is filled Check outdoor fan operates normally	Operation-off	Outdoor unit protection control error
464	[inverter] IPM over current error	Check refrigerant is filled Check the connection status of compressor and if it operates normally Check for any obstacles around indoor/outdoor units	Operation-off	Outdoor unit protection control error
467	[inverter] Compressor rotation error	Check the connection status of the compressor Check the resistance between different phases in compressor	Operation-off	Outdoor unit protection control error
468	[inverter] Current sensor error	Check PCB operates normally	Operation-off	Outdoor unit protection control error
469	[inverter] DC link voltage sensor error	Check the connection of input power Check the status of RY21 and R2000 of Inverter PCB	Operation-off	Outdoor unit protection control error
471	[inverter] OTP error	Check PCB operates normally	Operation-off	Outdoor unit protection control error
475	Outdoor fan 2 error	Check the connection status of input power Check the connection status of motor and outdoor PCB Check the fuse of indoor/outdoor unit	Operation-off	Self-diagnosis error
554	Gas leakage error	Check refrigerant is filled Check the indoor EVA sensor	Operation-off	Self-diagnosis error
556	Inconsistent volume	Check the indoor unit's option code	Operation-off	Outdoor unit protection control error



4-2-3 Wired remote controller

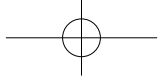
- If an error occurs  is displayed on the wired remote controller.
- To see an error code, please press the test button.

Error mode	Content	Measures	Product operation status in case of error	Error type
			Outdoor unit compressor/ outdoor unit fan	
	Indoor unit communication error	Check the communication line for indoor units, check the power supply of the communication phase (DC)	Operation-off	Communication error
	Communication time-out error between indoor/outdoor unit 6-packet over error	Check the communication line for indoor units, check the power supply of the communication phase (DC)	Operation-off	Communication error
	Indoor temperature sensor (open/short error)	Check the temp. sensor of the indoor unit room. Check the indoor PCB connector CN21(white)	Operation-off	Indoor sensor error
	Indoor unit Eva In sensor (open/short)	Check the indoor unit drainage pipe sensor Check the indoor PCB connector CN21 (white)	Operation-off	Indoor sensor error
	Dismount of indoor unit Eva In sensor	Check the drainage pipe has been dismounted	Operation-off	Indoor sensor error
	Secondary detection of indoor floating switch	Check the indoor unit's float sensor Check the indoor PCB connector CN51 (black)	Operation-off	Self-diagnosis error
	Indoor unit not connected	Check the indoor unit connection Check the indoor unit option	Operation-off	Communication error
	Communication error between indoor/outdoor unit INV and Main Micom (1 min.)	Check the Main MICOM Check the inverter MICOM	-	Communication error
	Outdoor temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
	Cond. temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
	[inverter] Emission temperature sensor error	Check the connection status of the sensor Check the sensor location Check the resistance values of sensor	Operation-off	Outdoor sensor error
	Excessive temperature emission	Not an error (discharge temp. control)	-	Outdoor unit protection control error
	Power cable connection error	Check the status of power connection	Operation-off	Outdoor sensor error

**Wired remote controller (cont.)**

- If an error occurs  is displayed on the wired remote controller.
- To see an error code, please press the test button.

Error mode	Content	Measures	Product operation status in case of error	Error type
			Outdoor unit compressor/ outdoor unit fan	
450	Non-connection error of indoor and outdoor Communication wire (connected to the power terminal)	Check the status of power connection Check the connection status of the communication line	Operation-off	Self-diagnosis error
458	Outdoor fan 1 error	Check the input power connection status Check the connection status between the motor and PCB in outdoor unit Check the fuse of indoor/outdoor units	Operation-off	Self-diagnosis error
461	[inverter] Compressor operation error	Check the connection status of the compressor Check the resistance between different phases in compressor	Operation-off	Outdoor unit protection control error
462	Discharge current error/ PFC over-current error	Check the input power Check refrigerant is filled Check outdoor fan operates normally	Operation-off	Outdoor unit protection control error
464	[inverter] IPM over current error	Check refrigerant is filled Check the connection status of compressor and if it operates normally Check for any obstacles around indoor/outdoor units	Operation-off	Outdoor unit protection control error
467	[inverter] Compressor rotation error	Check the connection status of the compressor Check the resistance between different phases in compressor	Operation-off	Outdoor unit protection control error
468	[inverter] Current sensor error	Check PCB operates normally	Operation-off	Outdoor unit protection control error
469	[inverter] DC link voltage sensor error	Check the connection of input power Check the status of RY21 and R2000 of Inverter PCB	Operation-off	Outdoor unit protection control error
477	[inverter] OTP error	Check PCB operates normally	Operation-off	Outdoor unit protection control error
485	Outdoor fan 2 error	Check the connection status of input power Check the connection status of motor and outdoor PCB Check the fuse of indoor/outdoor unit	Operation-off	Self-diagnosis error
554	Gas leakage error	Check refrigerant is filled Check the indoor EVA sensor	Operation-off	Self-diagnosis error
556	Inconsistent volume	Check the indoor unit's option code	Operation-off	Outdoor unit protection control error



Wired remote controller (cont.)

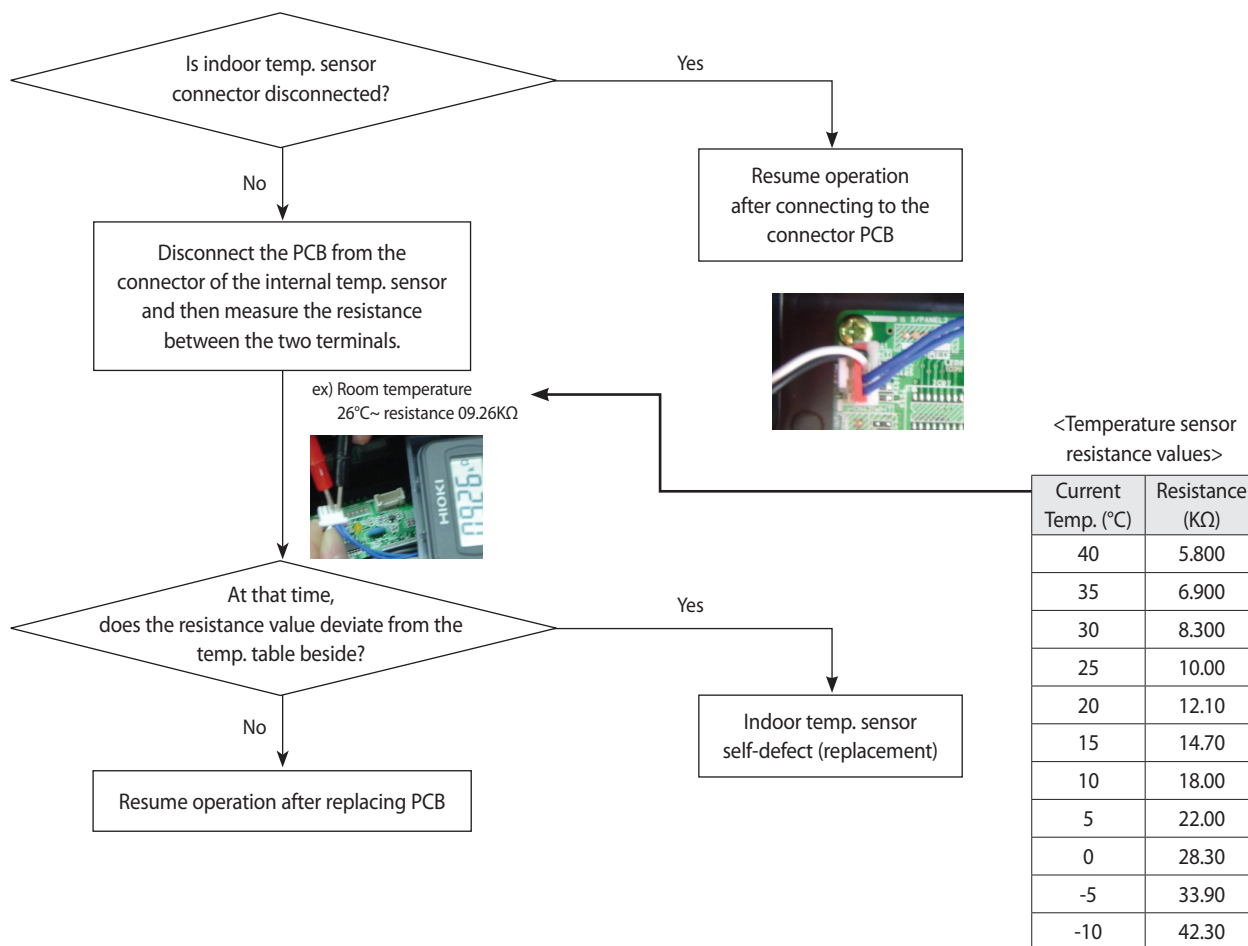
- If an error occurs  is displayed on the wired remote controller.
- To see an error code, please press the test button.

Error mode	Content	Measures	Product operation status in case of error	Error type
			Outdoor unit compressor/ outdoor unit fan	
<i>601</i>	Communication error between indoor unit and wired remote controller	Check the connection wire linking indoor unit and wired remote controller	Normal operation	Wired remote controller control error
<i>602</i>	Communication error between master and slave wired remote controller	Check the option switch that distinguishes master and slave (Available only for 1 master unit and 1 slave unit)	Normal operation	Wired remote controller control error
<i>606</i>	Cross installation error of COM1/COM2	Check the connection of outdoor unit and wired remote controller is linked to Com2 terminal of the indoor unit	Normal operation	Wired remote controller control error
<i>8EA</i>	Wired remote controller COM2 setting option error	Check the Dip switch for Com1 and Com2 is set to Com2	Normal operation	Wired remote controller control error

4-3 Fault Diagnosis by Symptom

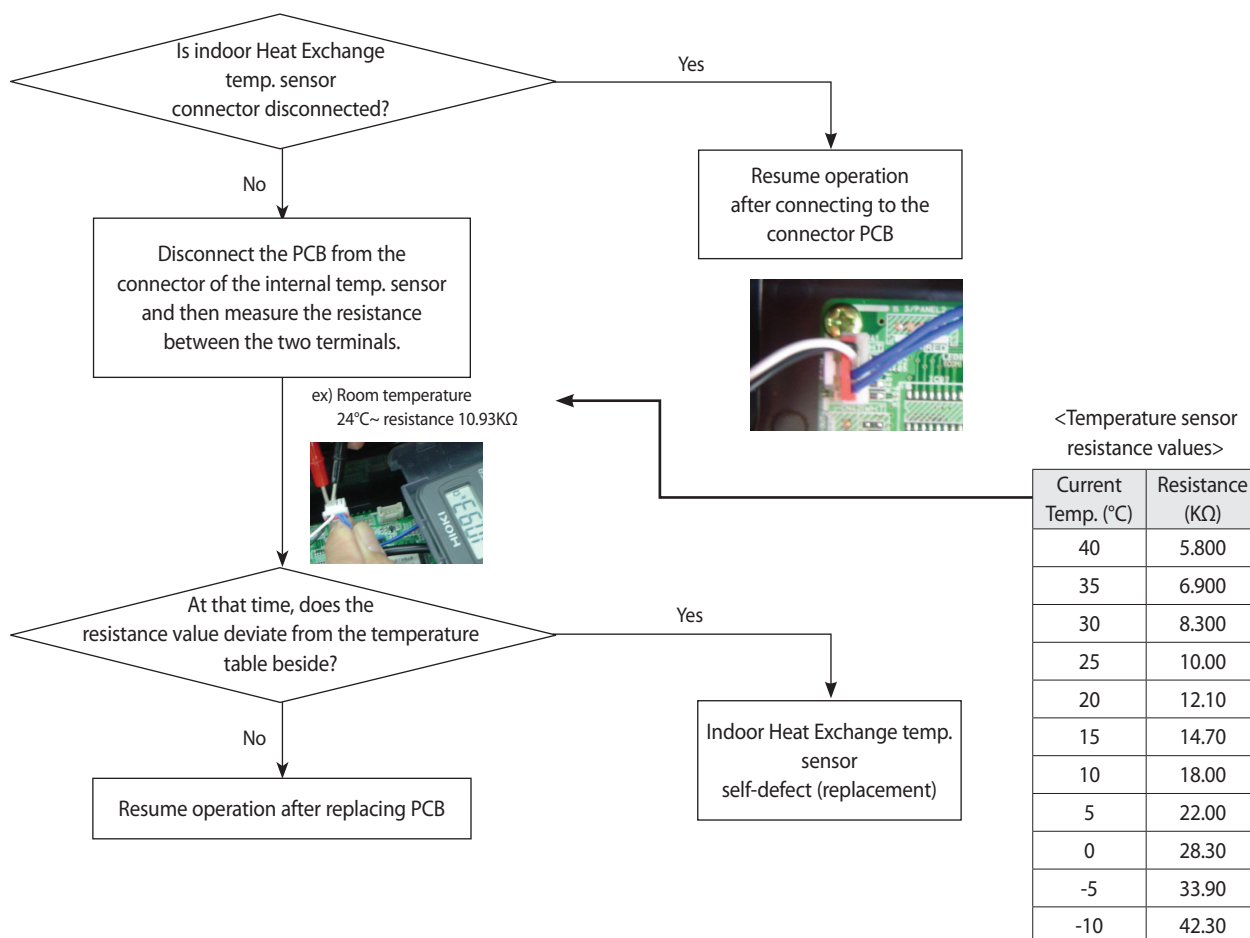
4-3-1 Indoor temperature sensor (open/short)

Indoor unit display	X(Operation) X(Defrost) ●(Reservation) X(Fan) X(Filter)
Criteria	In case of disconnection or short-circuit of the indoor temperature sensors
Cause of problem	Disconnection or short-circuit of the relevant sensors



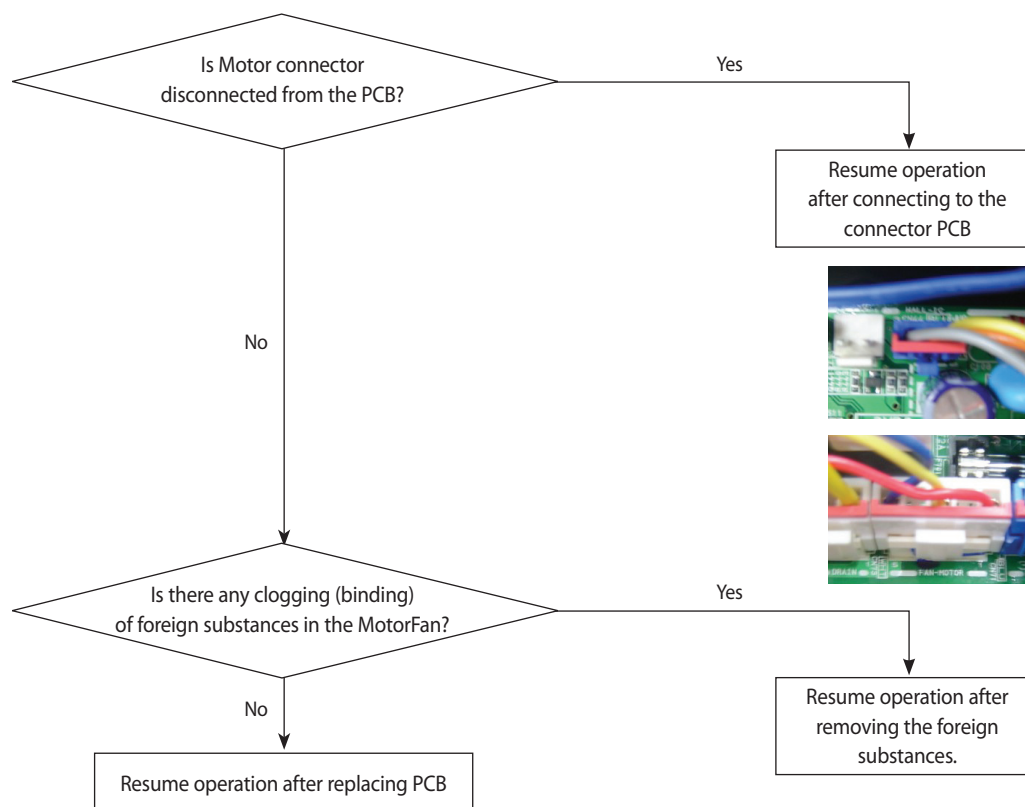
4-3-2 Indoor Heat Exchange temperature sensor (open/short)

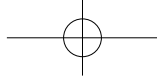
Indoor unit display	●(Operation) X(Defrost) ●(Reservation) X(Fan) X(Filter)
Criteria	In case of disconnection or short-circuit of the heat exchanger of indoor temperature
Cause of problem	Disconnection or short-circuit of the relevant sensors



4-3-3 Indoor Fan error

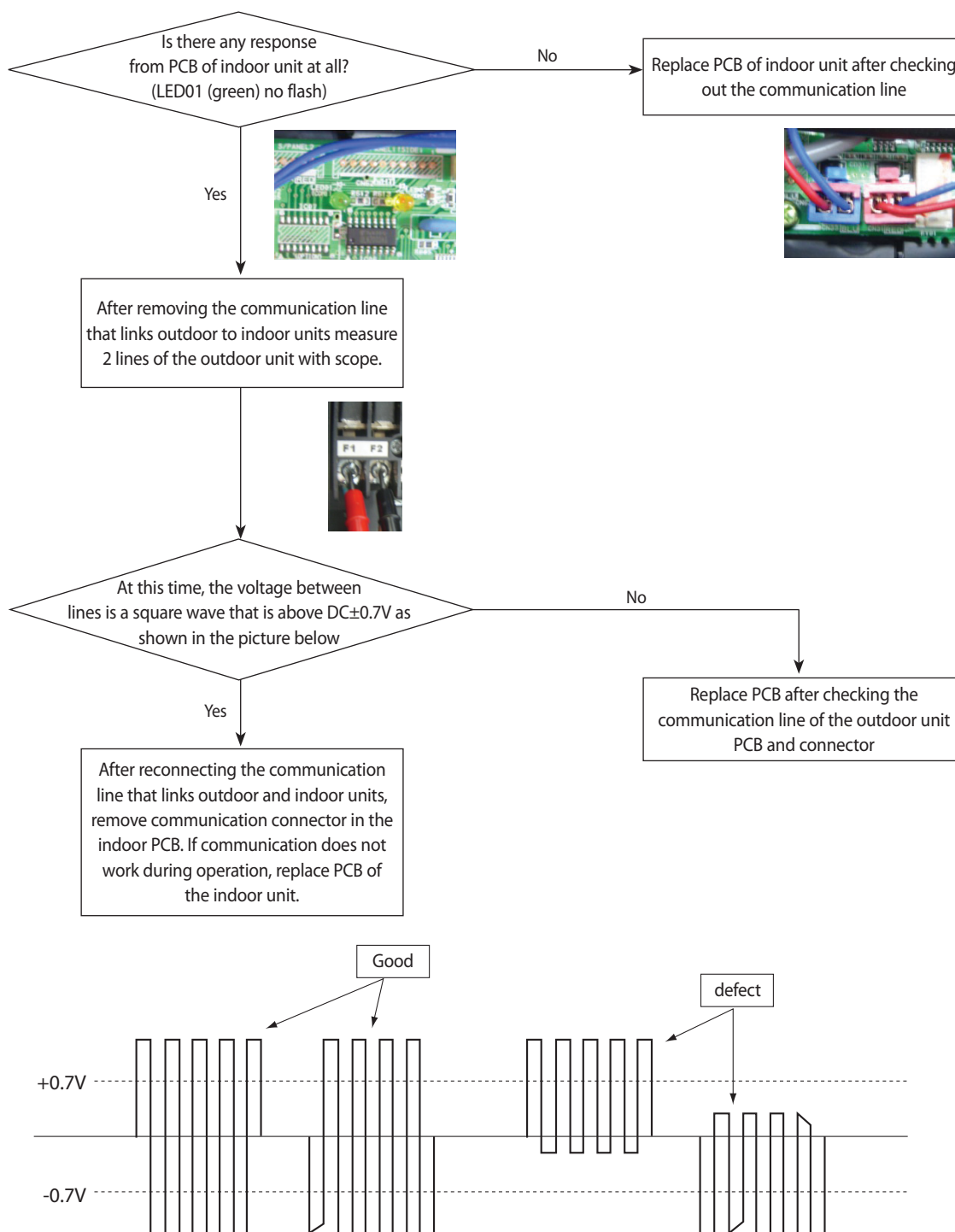
Indoor unit display	X(Operation) X(Defrost) X(Reservation) ●(Fan) X(Filter)
Criteria	Indoor fan being non-operative/ stop after excessive high speed
Cause of problem	Check for motor connector disconnect/ check motor fan fastening





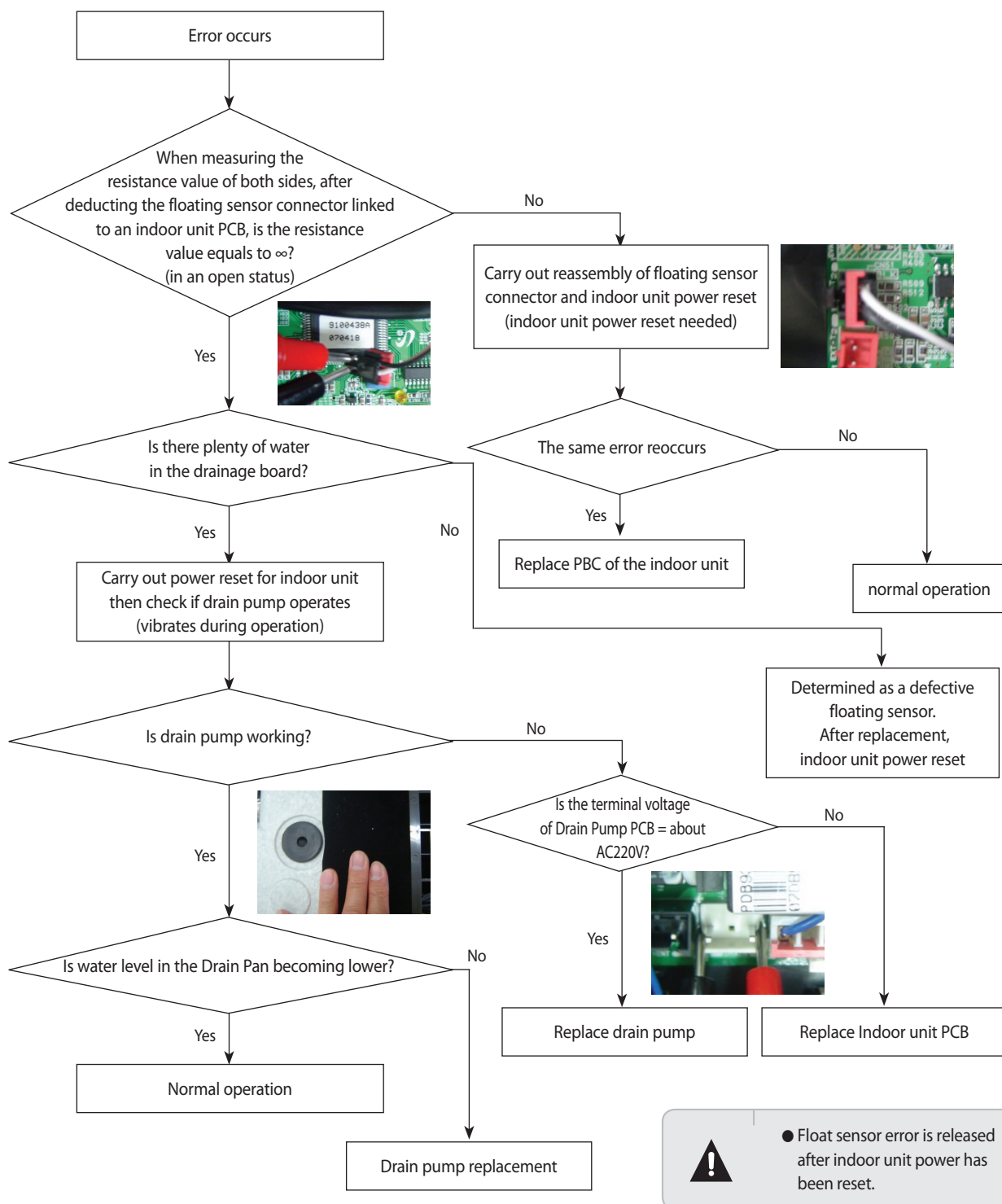
4-3-4 Communication error after completion of tracking

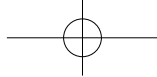
Indoor unit display	X(Operation) X(Defrost) ●(Reservation) ●(Fan) X(Filter)
Criteria	If communication between indoor and outdoor units has been blocked for 2 minutes during operation
Cause of problem	Communication error between indoor and outdoor unit



4-3-5 Indoor float sensor error

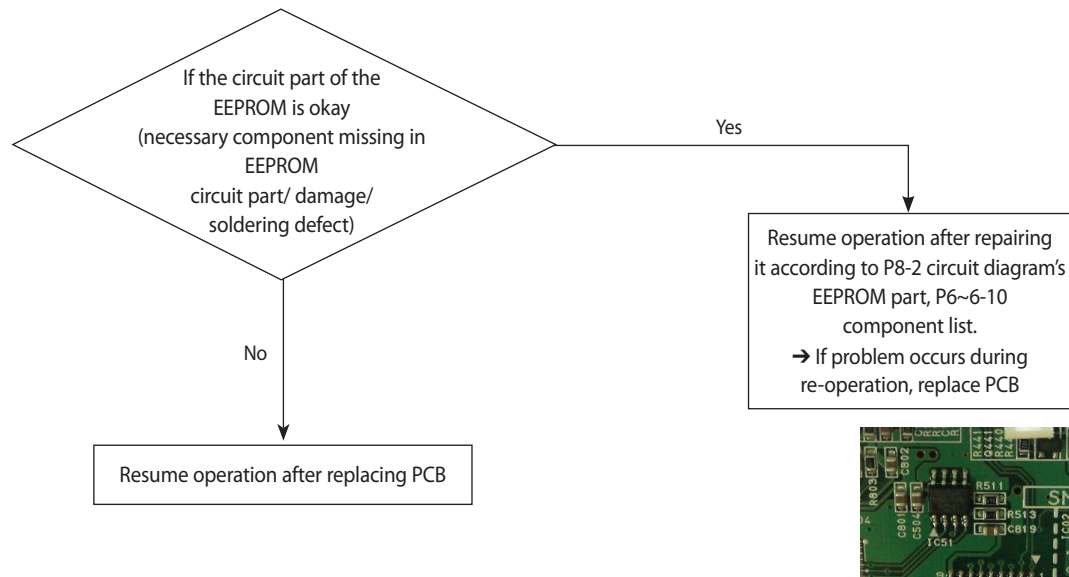
Indoor unit display	X(Operation) X(Defrost) X(Reservation) ●(Fan) ●(Filter)
Criteria	When the open status of the floating sensor of the indoor unit lasts for 1 minute or more.
Cause of problem	Increase in the drain board level for indoor drain pump defect, defect in detection sensor (float sensor)





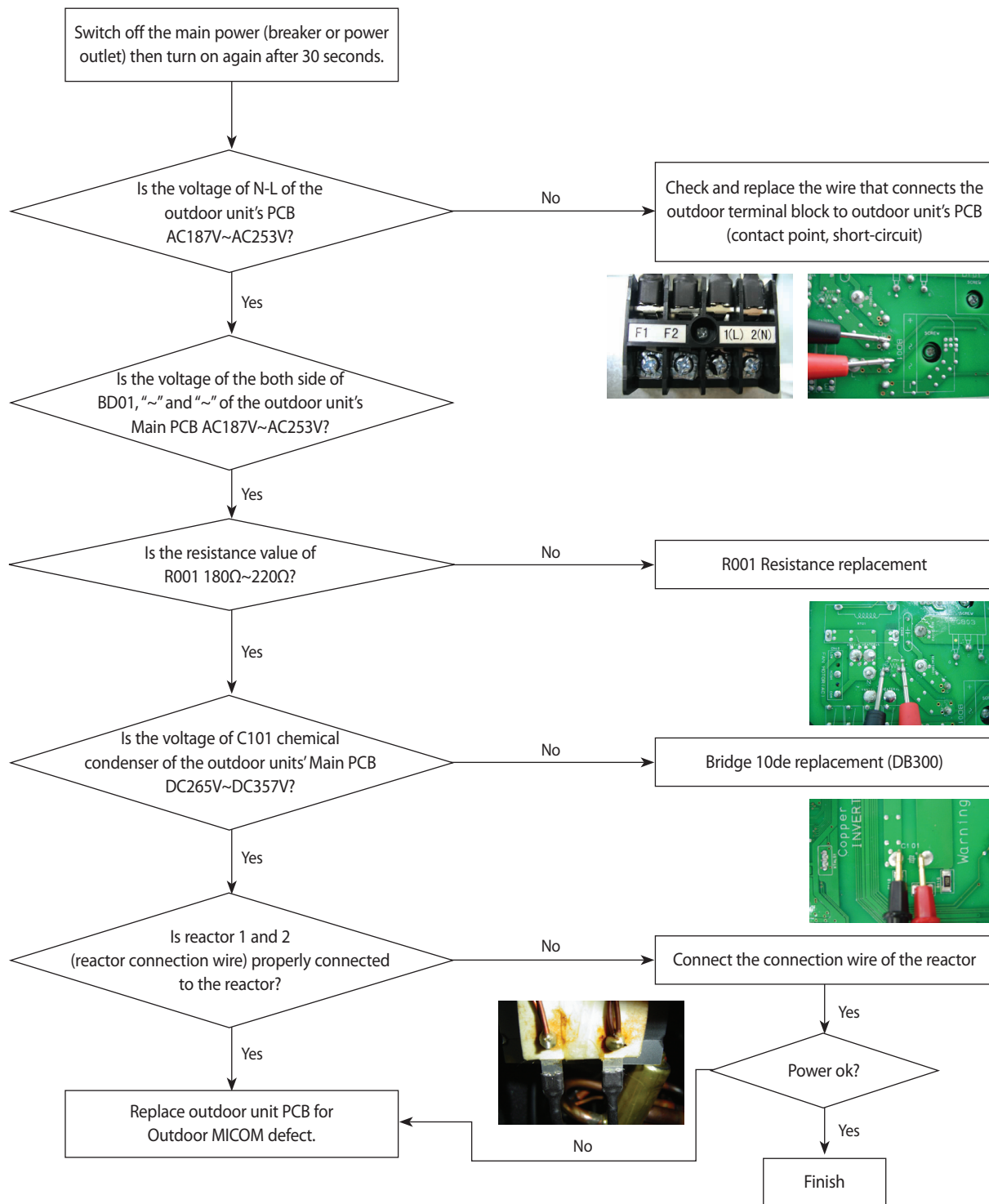
4-3-6 EEPROM circuit part defect

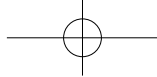
Indoor unit display	●(Operation) X(Defrost) ●(Reservation) ●(Fan) X(Filter)
Criteria	EEPROM circuit part defect
Cause of problem	EEPROM component defect/ necessary component missing in EEPROM circuit part/ damage/ soldering



4-3-7 When outdoor units cannot be turned on

1. Cause of the breakdown
 - 1) Is power voltage 220V?
 - 2) Is AC power properly connected?
 - 3) Are the LEDs of Main PCB and inverter PCB of the outdoor unit on?
 - 4) Is the power supply of the outdoor unit 220V?
2. Inspection order



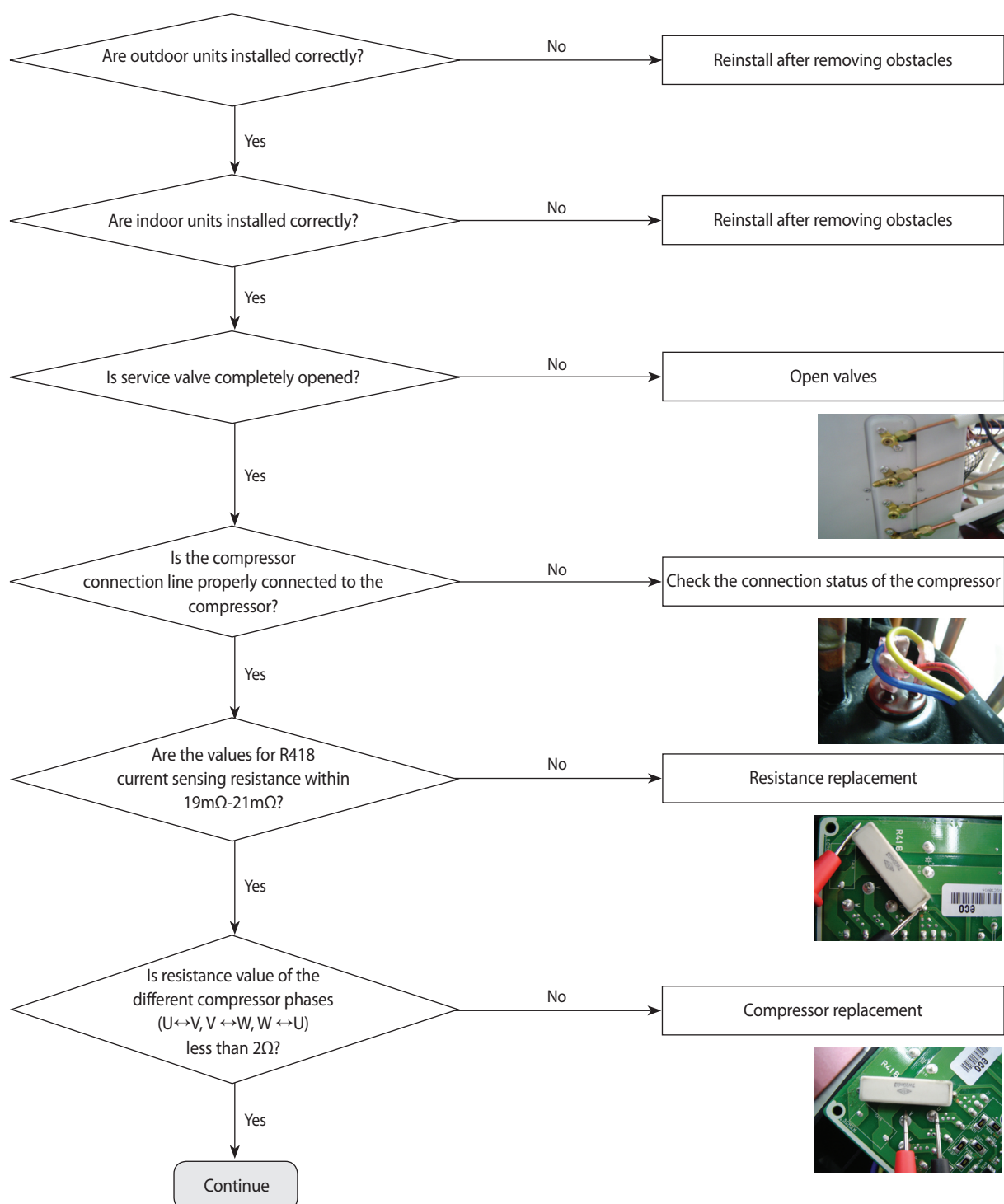


4-3-8 IPM and over current error

1. Inspection items

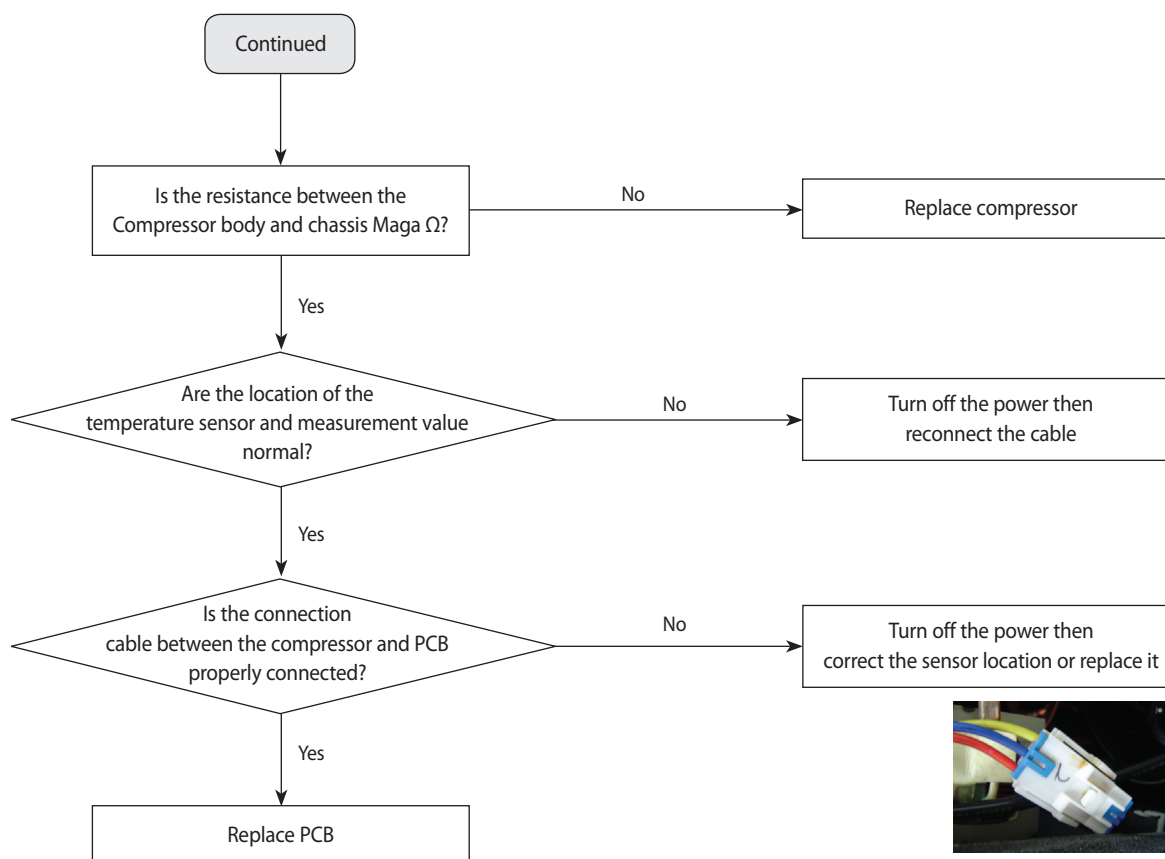
- 1) Is refrigerant filled?
- 2) Is the compressor operating without a problem?
- 3) Is the compressor connected properly?
- 4) Are there any obstacles around the indoor/outdoor units?

2. Inspection order



(continued on the back)

IPM and over current error (cont.)

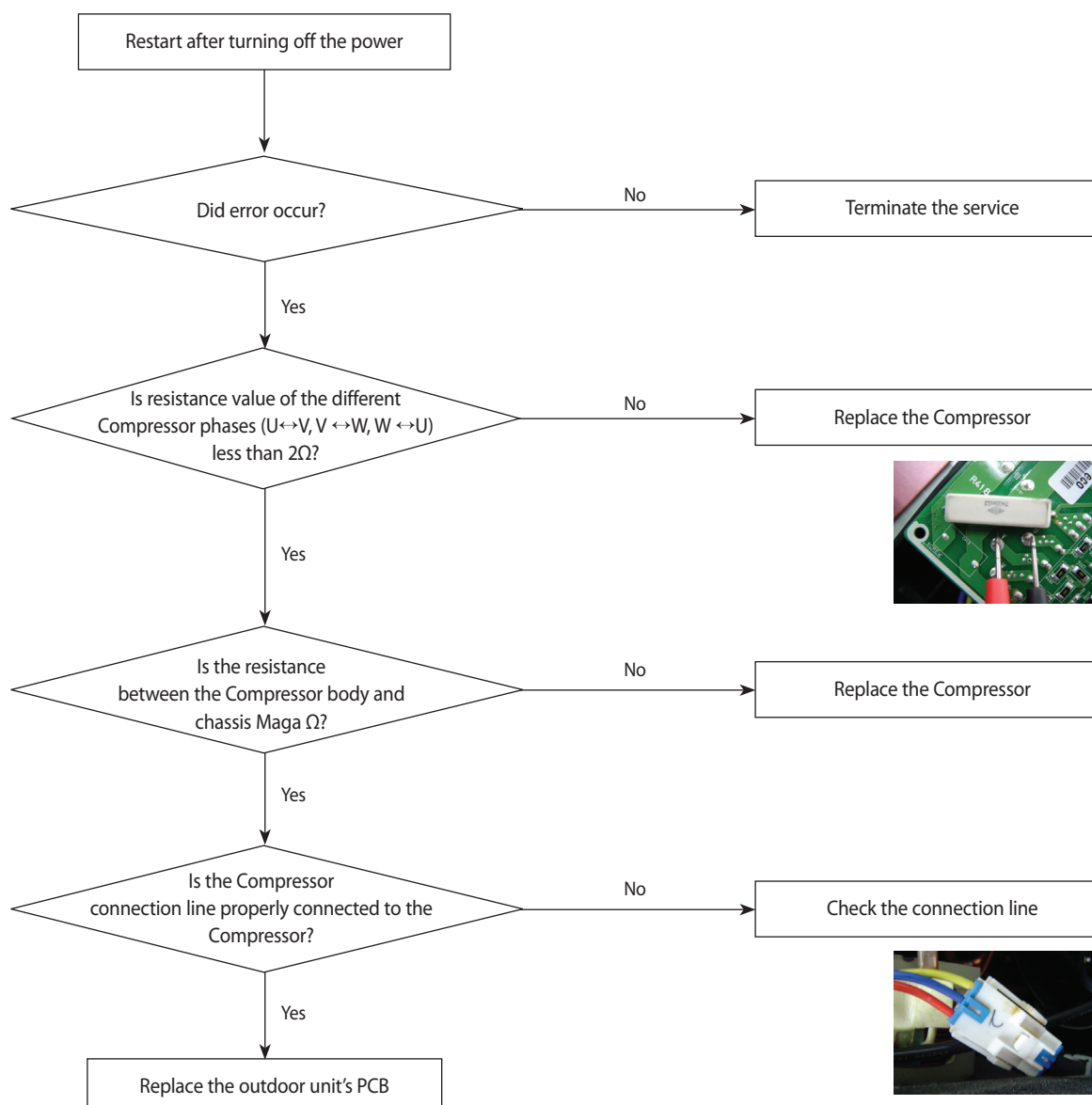


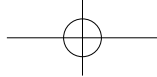
4-3-9 Compressor starting error, compressor locking error, compressor revolving error

1. Inspection items

- 1) Is the connection line between power and the compressor properly connected?
- 2) Is the resistance between different compressor phases normal?

2. Inspection order



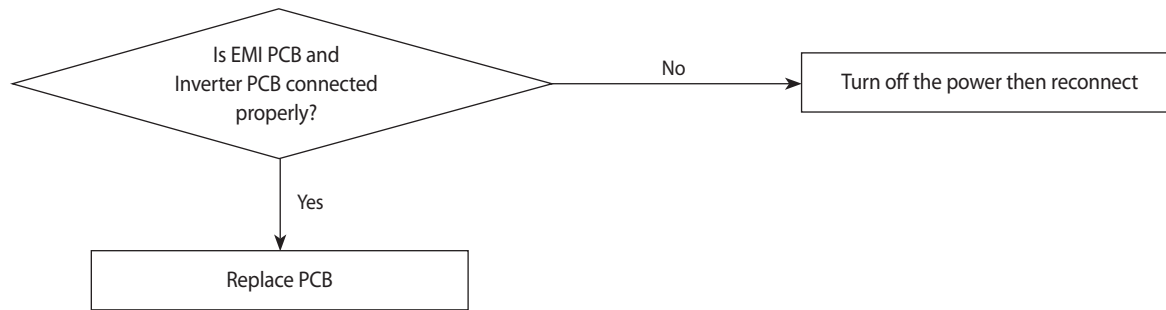


4-3-10 DC link and over/lower voltage error

1. Inspection items

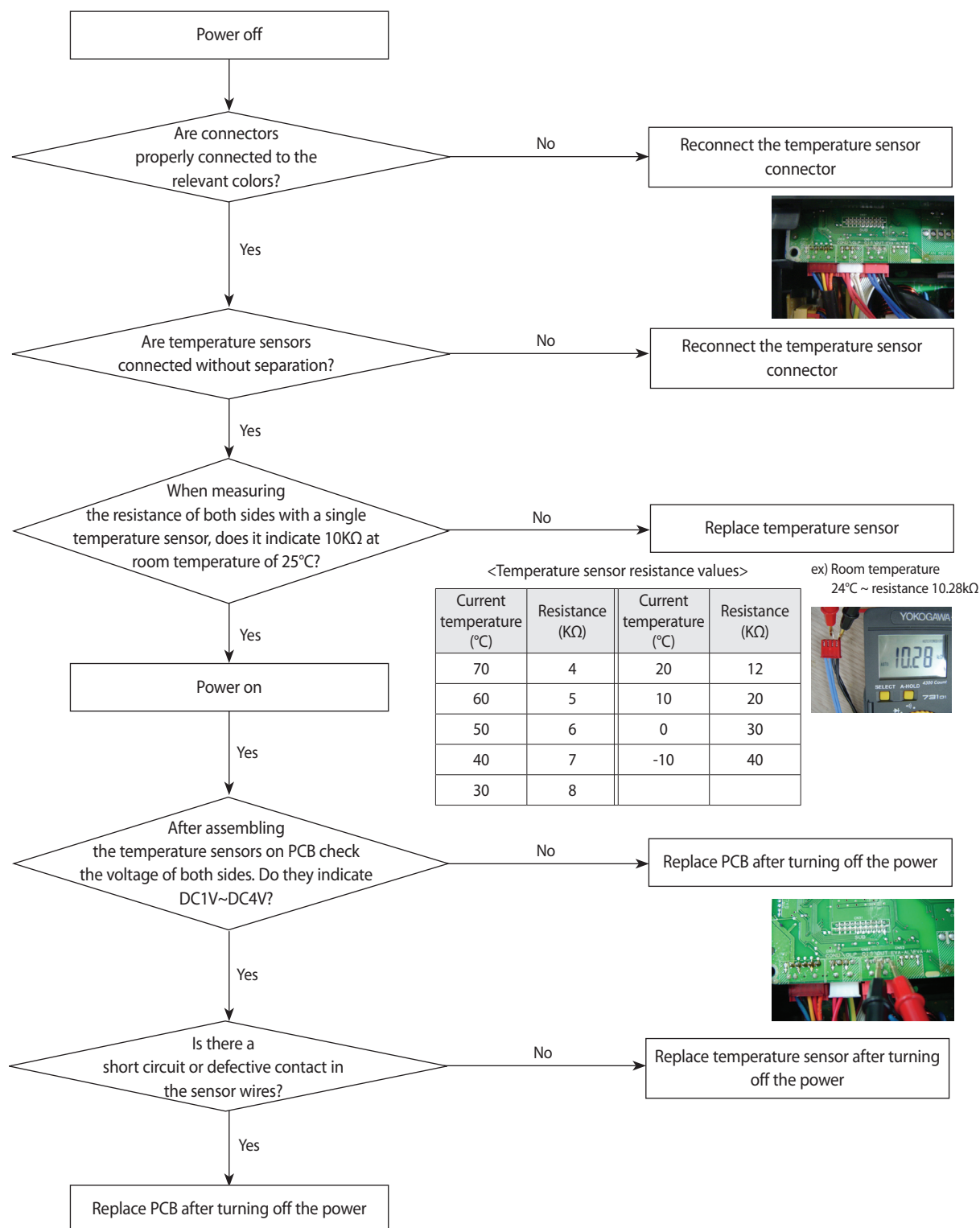
- 1) Is compressor operating properly?
- 2) Is there a connection between input power and power?

2. Inspection order



4-3-11 Outdoor temperature sensor error

1. Inspection items
 - 1) Are the sensors connected properly?
 - 2) Are the sensors located properly?
 - 3) Do the resistance values of the sensors satisfy each temperature?
2. Inspection order

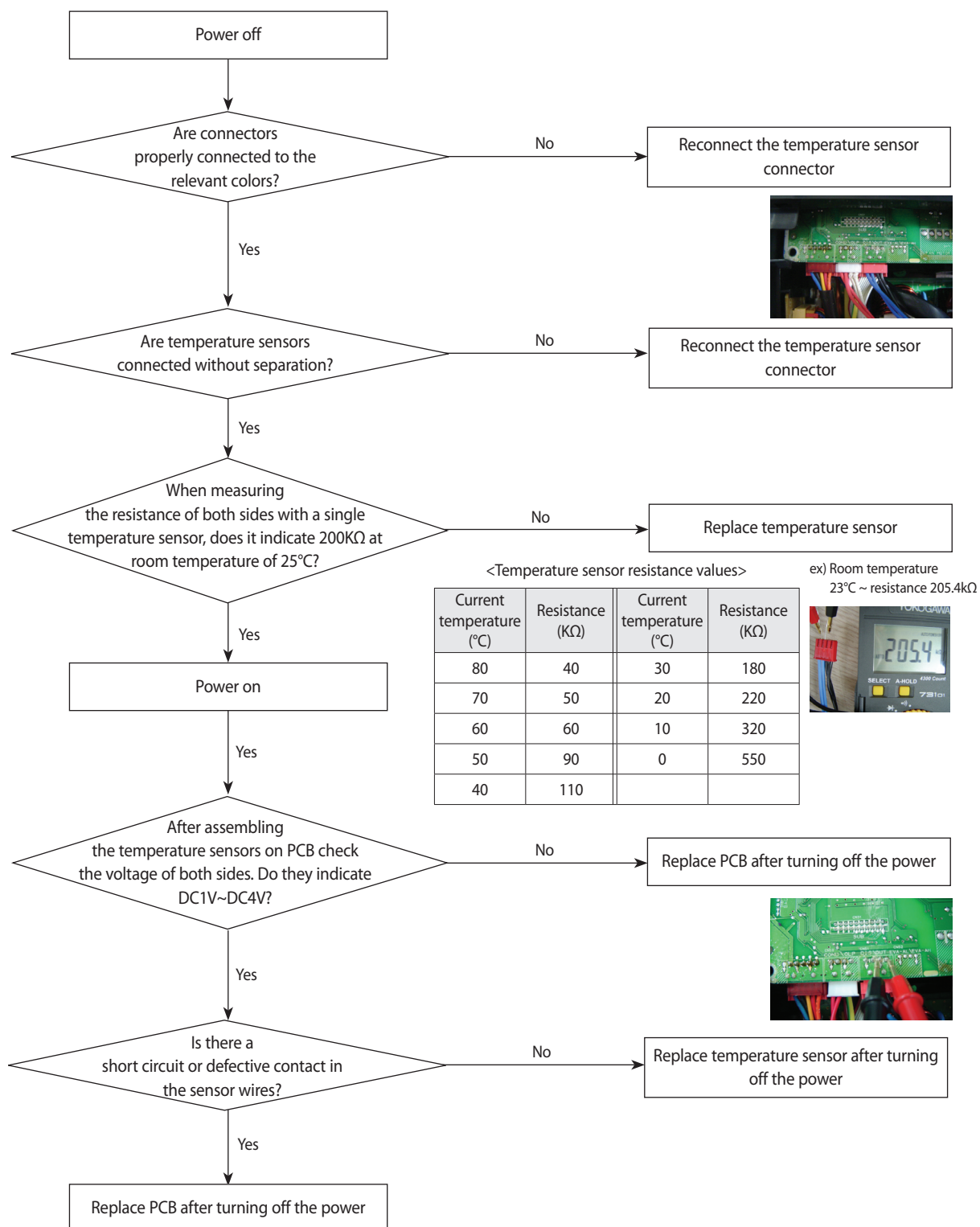


4-3-12 Emission temperature sensor error

1. Inspection items

- 1) Are the sensors connected properly?
- 2) Are the sensors located properly?
- 3) Do the resistance values of the sensors satisfy each temperature?

2. Inspection order

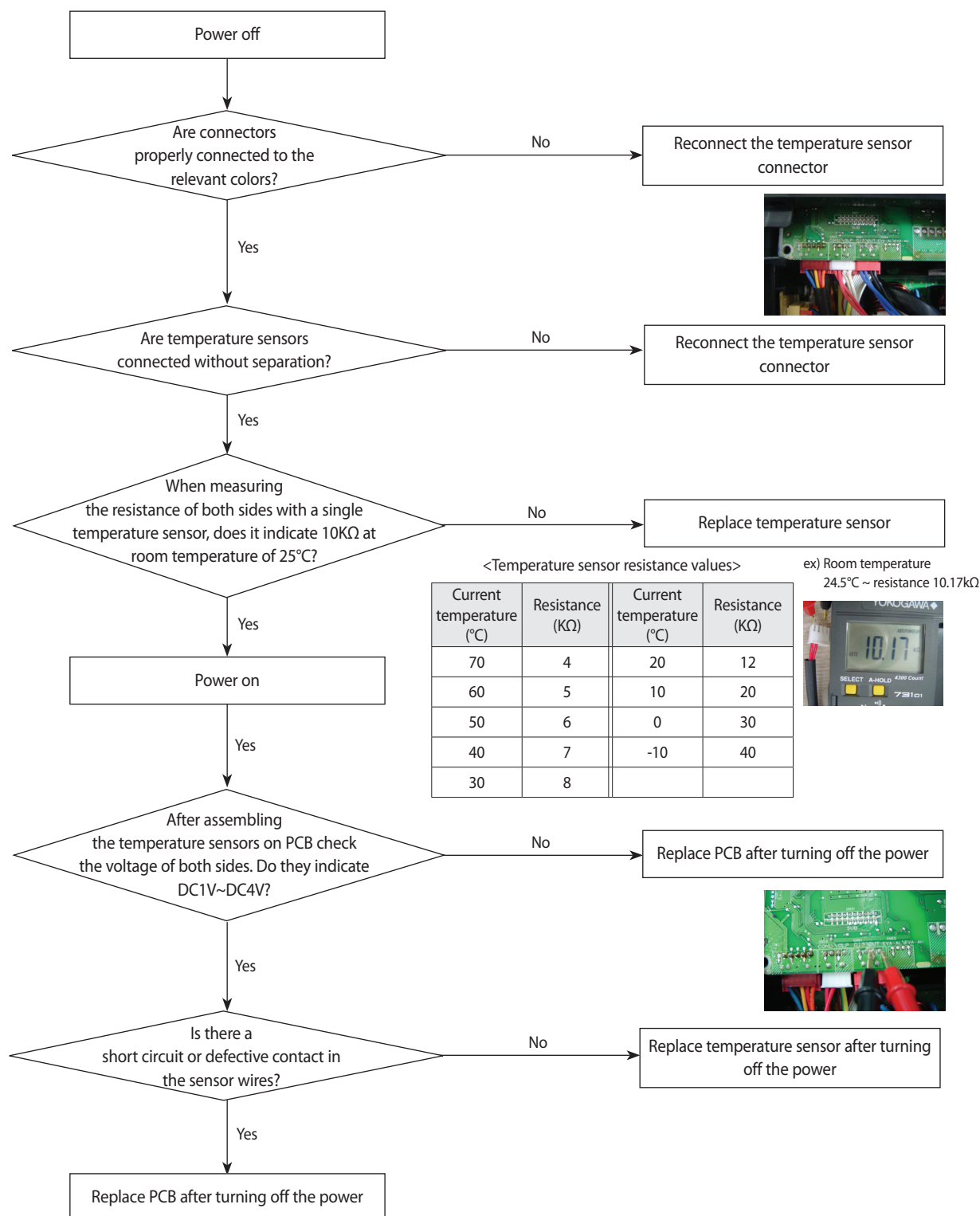


4-3-13 Cond temperature sensor error

1. Inspection items

- 1) Are the sensors connected properly?
- 2) Are the sensors located properly?
- 3) Do the resistance values of the sensors satisfy each temperature?

2. Inspection order

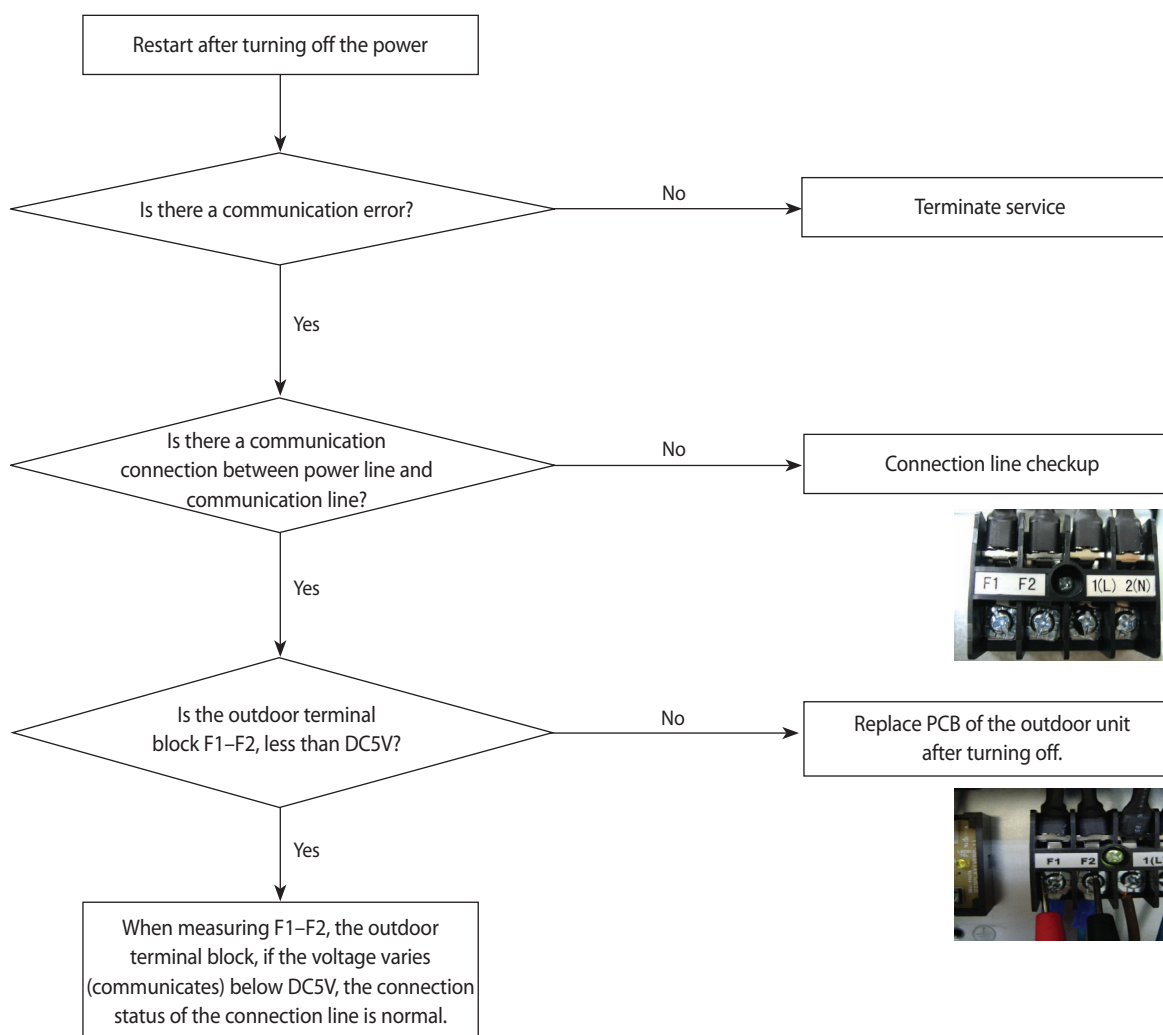


4-3-14 Communication error between indoor/outdoor units (1 min.)

1. Inspection items

- 1) Is the communication line between indoor and outdoor units connected properly?
- 2) Is there a communication connection between power line and communication line?

2. Inspection order

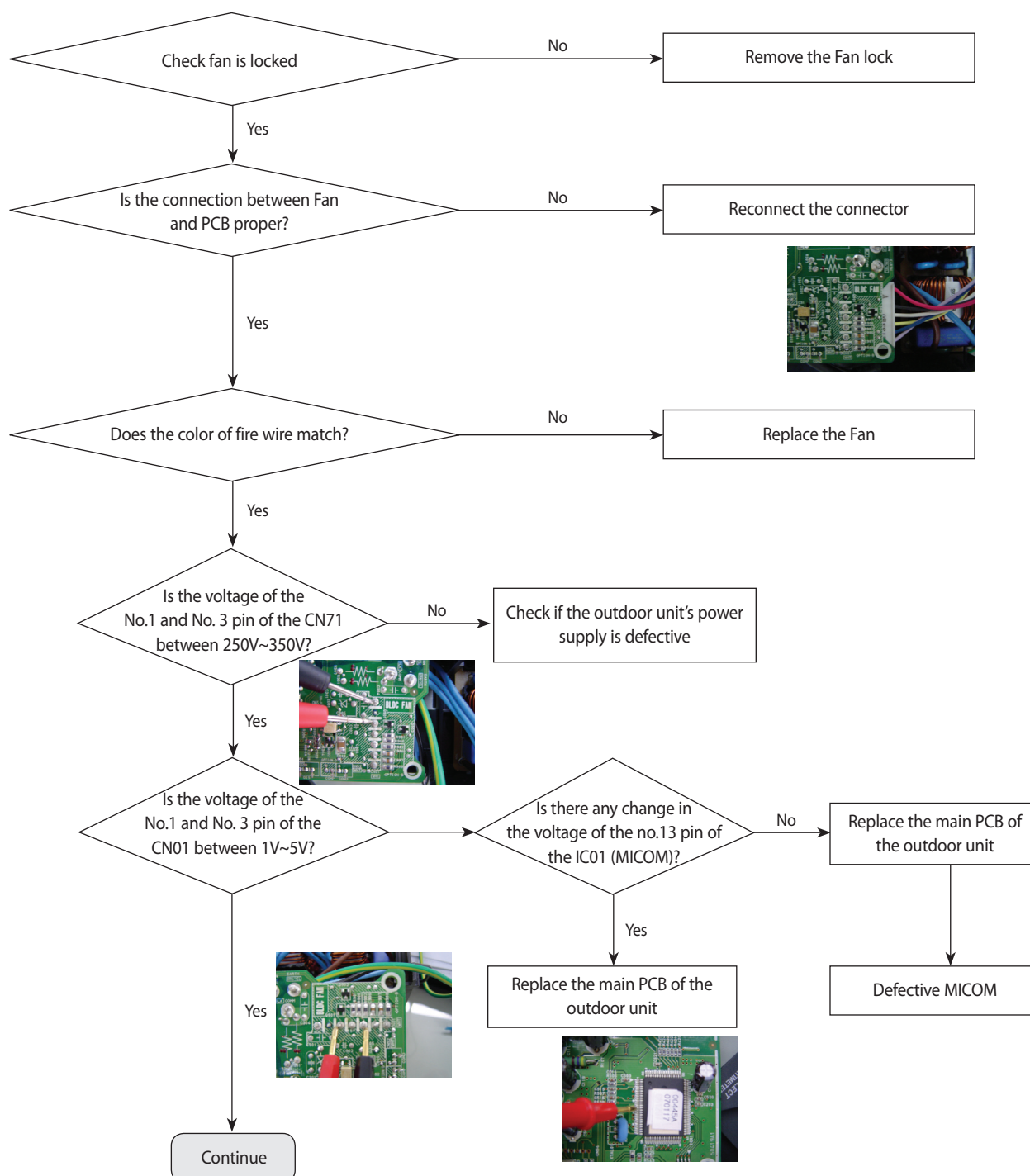


4-3-15 Outdoor fan error

1. Inspection items

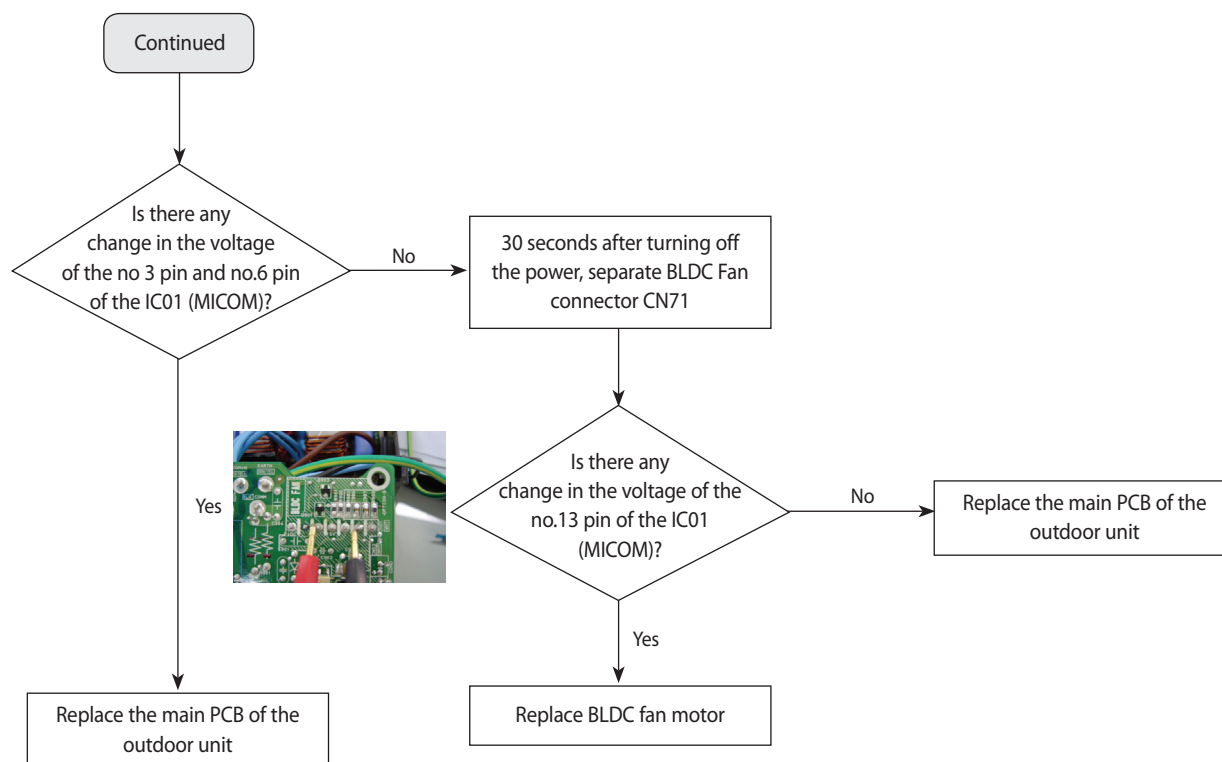
- 1) Is input power and power connected properly?
- 2) Is motor connection line properly connected to the PCB of the outdoor unit?
- 3) Is the fuse for indoor/outdoor unit connected?
- 4) Are there any obstacles around Motor or Propeller?
- 5) Is Motor Driver out of order?

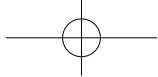
2. Inspection order



(continued on the back)

Outdoor fan error (cont.)



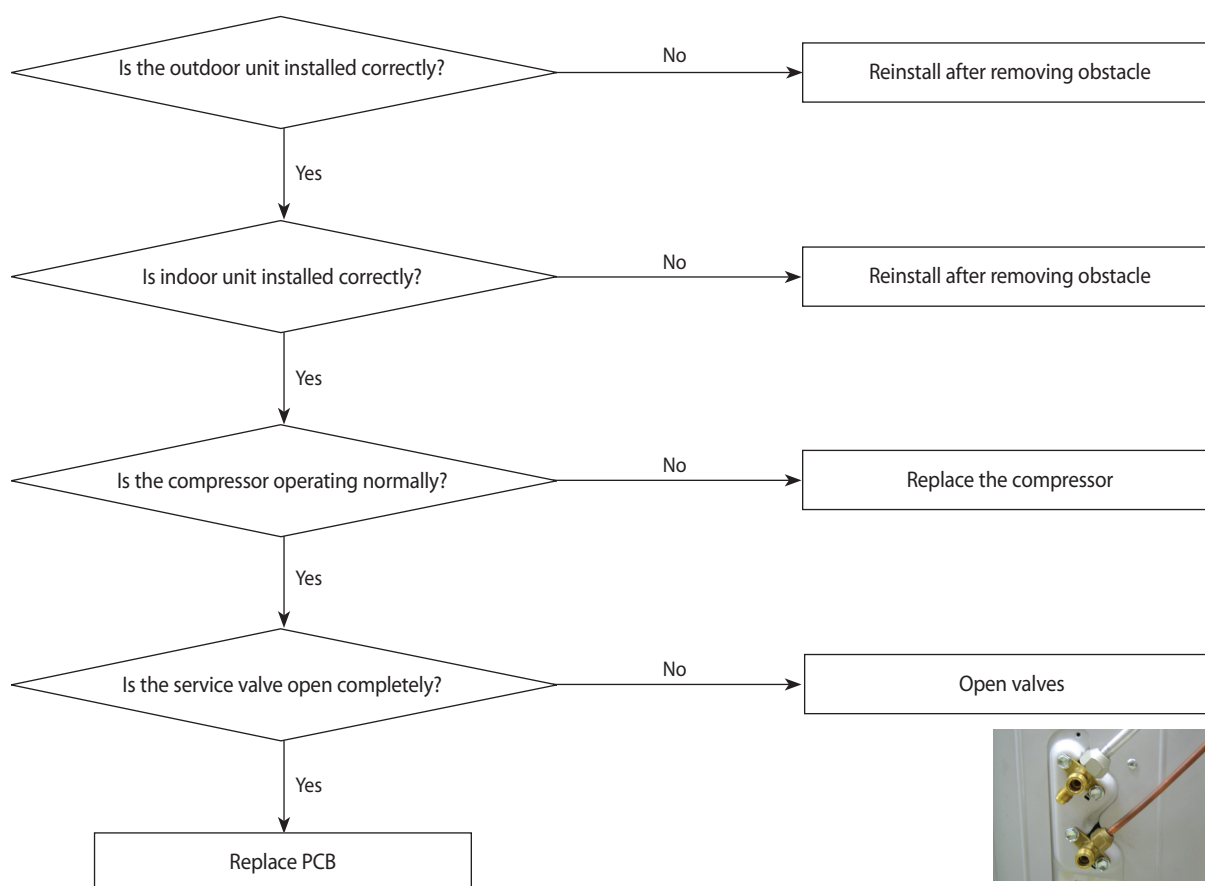


4-3-16 Discharge current error/ PFC over-current error

1. Inspection items

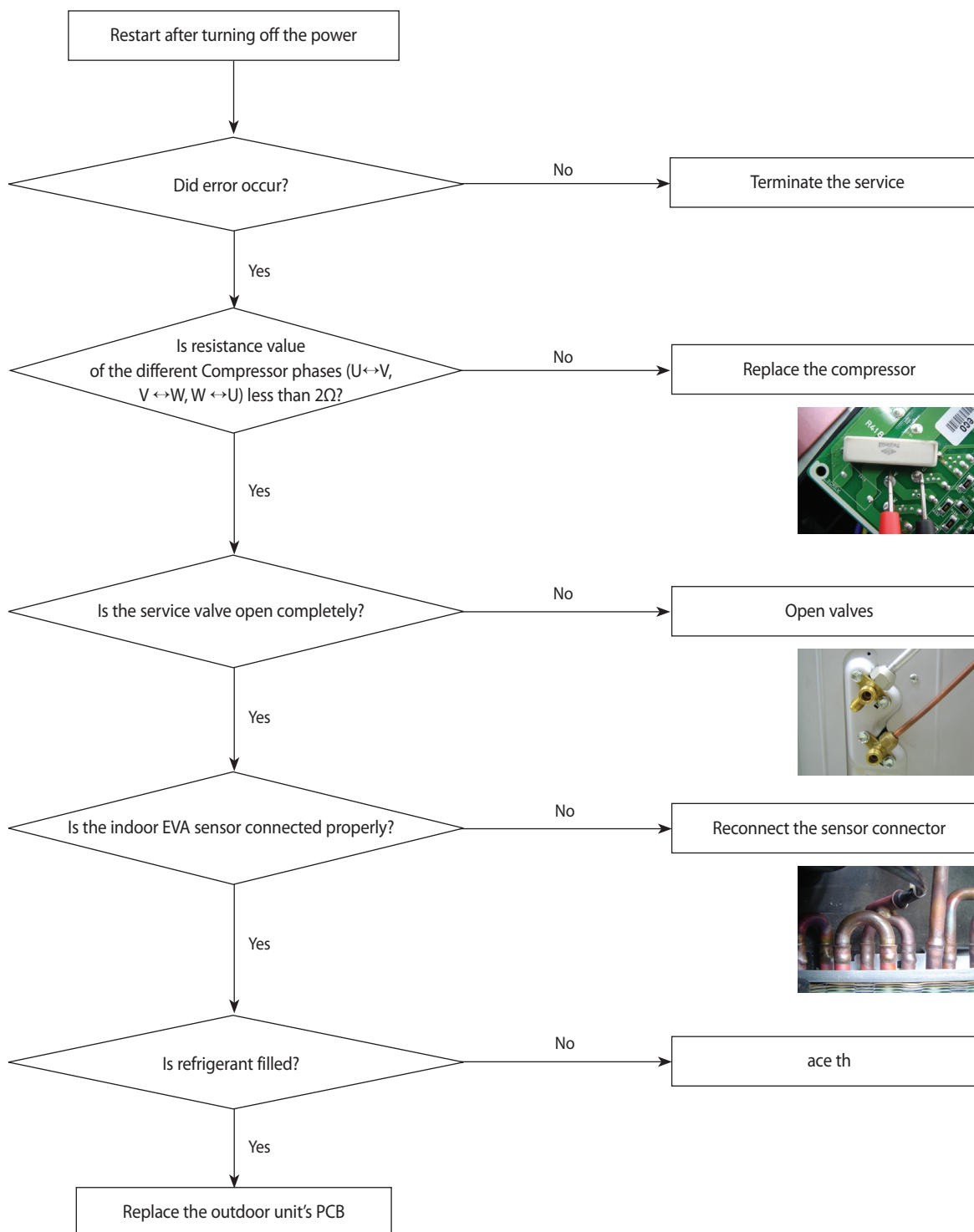
- 1) Is input power correct?
- 2) Is refrigerant filled?
- 3) Is the outdoor fan spinning correctly?
- 4) Are there any obstacles around indoor/outdoor units?

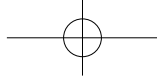
2. Inspection order



4-3-17 Gas leakage error

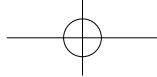
1. Inspection items
 - 1) Is refrigerant filled?
 - 2) Is the indoor EVA sensor connected properly?
2. Inspection order





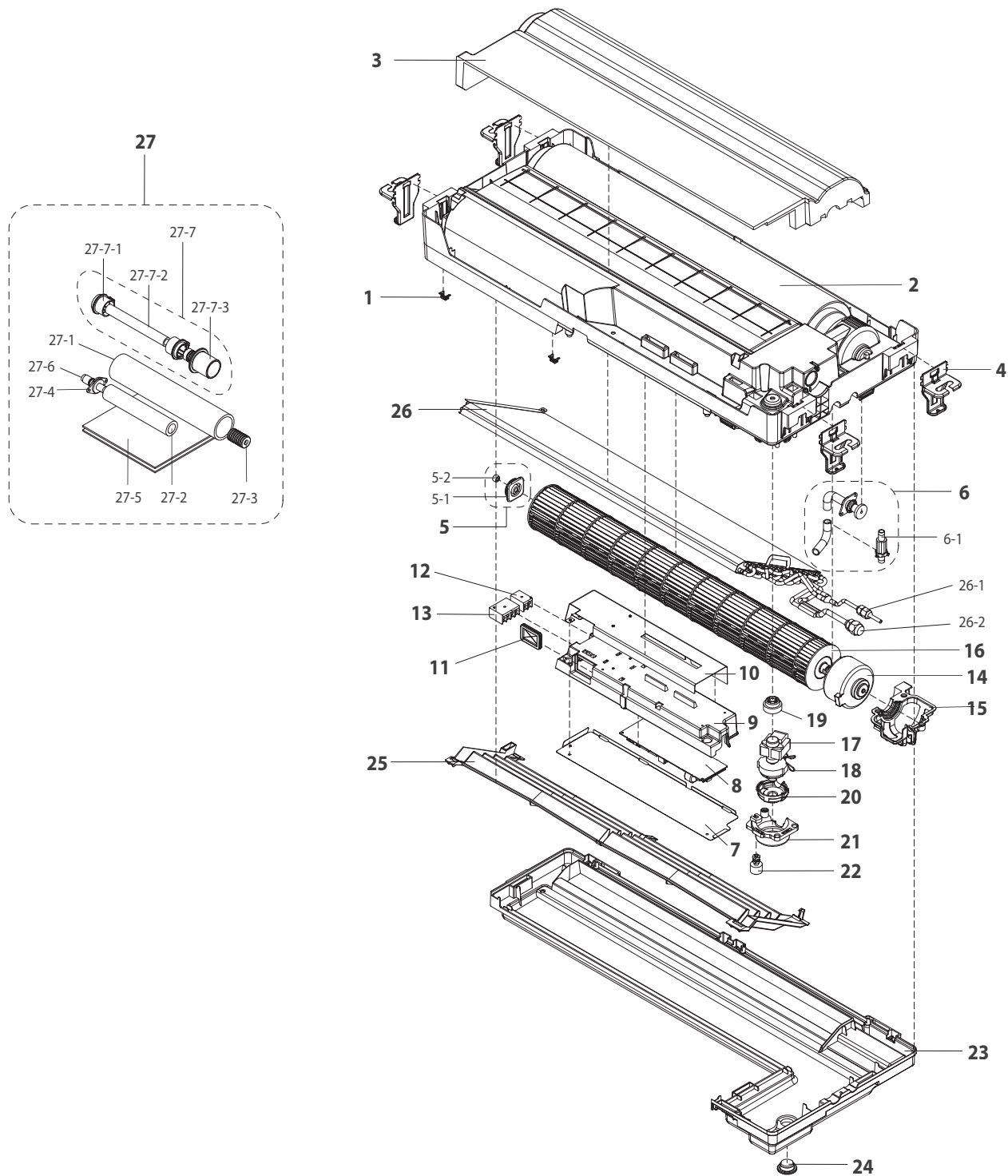
4-3-18 Other

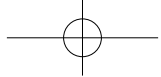
1. Current sensor error
Check PCB operates normally then replace the PCB
2. Compressor V limit error
Check the compressor operates normally then replace the compressor. If an error still occurs after the replacement of the compressor, replace the PCB
3. OTP error
Check PCB operates normally then replace the PCB
4. DC link Voltage Sensor Error
Check the connection between input power and the power is okay then replace the PCB
5. AC zero Crossing signal out error
Check the connection between input power and the power is okay then replace the PCB
6. Inconsistent volume
Check the option code of the indoor unit.



5. Exploded Views and Parts List

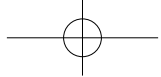
5-1 Indoor Unit





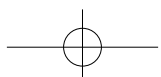
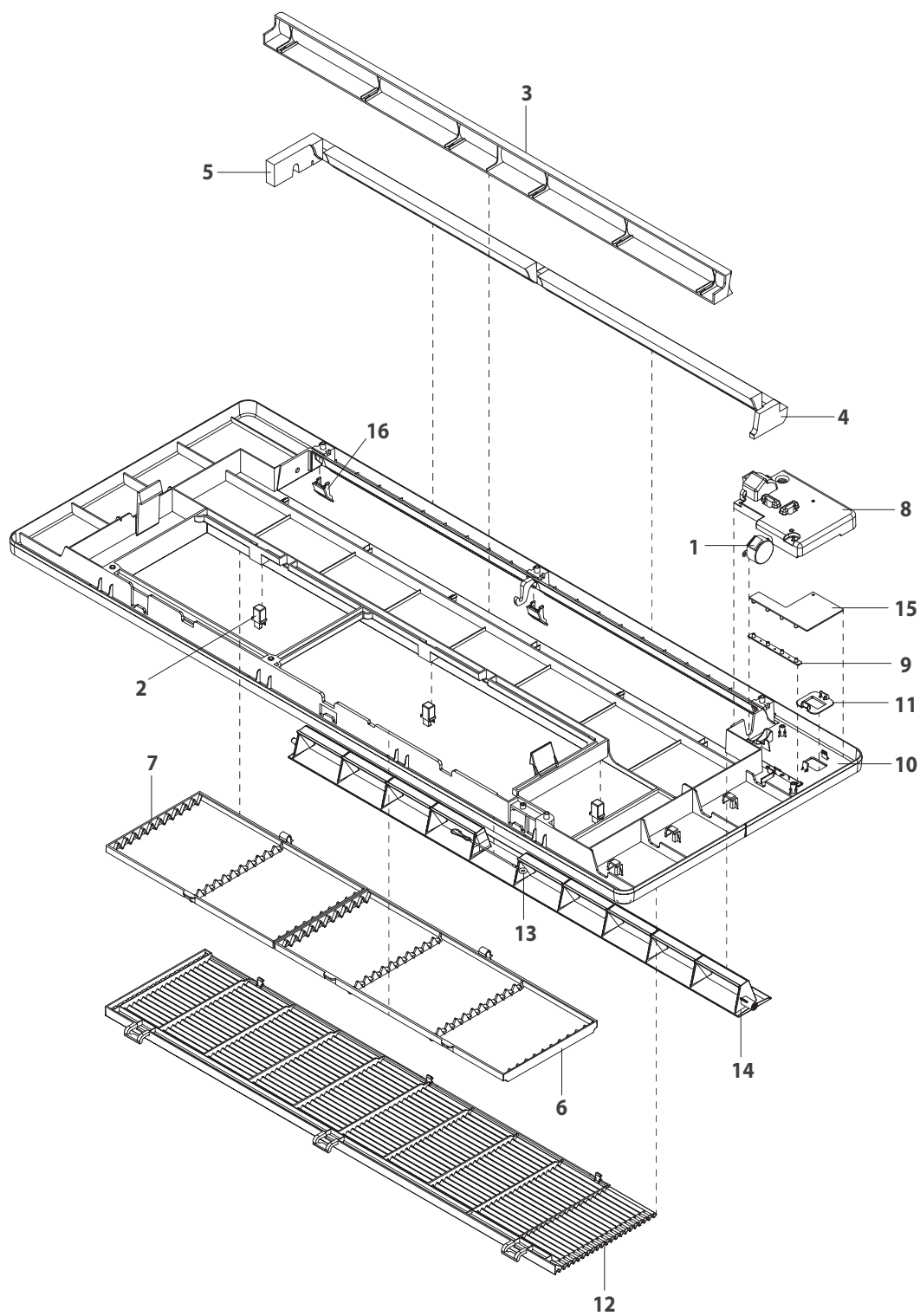
■ Parts List

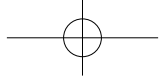
No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB61-03127A	BRACKET-PAN	SGCC-M,1.0,12,20,	2	SNA
2	DB64-01763A	CABINET-IN	ABS,3,417,1011,-,GRAY	1	SNA
3	DB64-01764A	CABINET-CUSHION	EPS,-,310,835,-,WHT	1	SNA
4	DB70-00753A	PLATE-HANGER	SGCC-M,1.2,73,100	4	SA
5	DB94-00258A	ASS'Y BEARING	G-PJT,CR,BLK	1	SA
5-1	DB73-00128A	RUBBER-BEARING	G-P/J,CR,55,BLK	1	SNA
5-2	DB94-40007A	ASS'Y BEARING	ASS'Y,POLYSLIDER-PG5	1	SA
6	DB94-01394A	ASS'Y-DRAIN SOCKET	ASS'Y	1	SNA
6-1	DB62-04236A	VALVE CHECK	ASS'Y,72.5	1	SA
7	DB70-00754A	PLATE-COVER CONTROL	SGCC-M,0.7,96,428	1	SNA
8	DB93-04768A	ASS'Y PCB MAIN	FR-4,1.6T,230mmx70mm,SMPS	1	SA
9	DB61-03126A	CASE-CONTROL	ABS,2.5,113,430,BLK	1	SNA
10	DB70-00755A	PLATE-CASE CONTROL	SGCC-M,0.7,96,428	1	SNA
11	DB73-00307A	RUBBER-WIRE HOLE	NBR,52.1,BLK	1	SNA
12	DB95-01058A	ASS'Y-TERMINAL BLOCK	2P,POWER	1	SNA
13	DB95-01101E	ASS'Y-TERMINAL BLOCK	4P,F1,F2,V1,V2	1	SNA
14	DB31-00436A	MOTOR FAN	SFN-220-20-4B-1,0.3A,40W,220V/230V,1250,50/60Hz, B,E,YH396-05VRT/YT396B-RT,700,ST730679-3,500	1	SA
15	DB63-01698A	COVER MOTOR	ABS,2.5,147,135,GRAY	1	SNA
16	DB94-00040Y	ASS'Y-CROSS FAN	ASS'Y	1	SA
17	DB67-00833A	DRAIN-PUMP	PBT,1.0,WHITE	1	SA
18	DB69-00137A	BAND-RING	STS304,T1.5,PI14	1	SNA
19	DB73-00390B	RUBBER-BASE PUMP	NBR,30,BLK	1	SNA
20	DB73-00391B	RUBBER-CAP PUMP	NBR,30,BLK	1	SNA
21	DB63-01699A	COVER-PUMP	ABS,2.5,78,100,GRAY	1	SNA
22	DB95-00131M	ASS'Y-SENSOR FLOAT SLIM1WAY	SmH250-02L,180mm,RED,BLK	1	SA
23	DB94-01367A	ASS'Y DRAIN PAN	ASS'Y	1	SA
24	DB73-00133B	RUBBER-CAP DRAIN SOCKET	NBR,38.30.27.24/15.12.9.4,45,15,BLK	1	SNA
25	DB94-01492A	ASS'Y DRAIN PAN-SUB	ASS'Y	1	SA
26	DB96-09066A	ASS'Y EVAP-UNIT	ASS'Y	1	SA
26-1	DB60-30010A	NUT-FLARE	HEX,7/16-20UnF	1	SA
26-2	DB60-30010B	NUT-FLARE	HEX,3/4-16UnF	1	SA
27	DB94-01278A	ASS'Y DRAIN-HOSE INSTALL	ASS'Y	1	SA
27-1	DB62-01960B	INSULATION-DRAIN	FOAM-PE,GRAY,200X45X10	1	SNA
27-2	DB62-04783A	INSULATION DRAIN-HOSE	FOAM-PE,T12,20,165,GREY,NON FLAmABILITY	1	SNA
27-3	DB63-00237A	GROMMET-HANGER	NBR	8	SNA
27-4	DB67-00285A	DRAIN HOSE-SOCKET	POM,T3	1	SNA
27-5	DB72-00401C	INSULATION-JOINT OUT	FOAM-PE,T3,W200,L200,GREY	2	SNA
27-6	DB73-00089B	RUBBER-PLUG	NBR,D10,30,BLK	1	SNA
27-7	DB94-01258C	ASS'Y DRAIN-HOSE JOINT	ASS'Y	1	SA
27-7-1	DB67-00335A	DRAIN HOSE-HOUSING	BLUE	2	SNA
27-7-2	DB67-00336E	HOSE DRAIN-PVC	SOFT PVC,14,20,3,GRAY	1	SNA
27-7-3	DB67-00805A	DRAIN HOSE-JOINT B	ABS,T3.0,NORmAL	1	SA



5-2 Panel

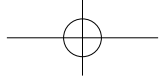
■ A type





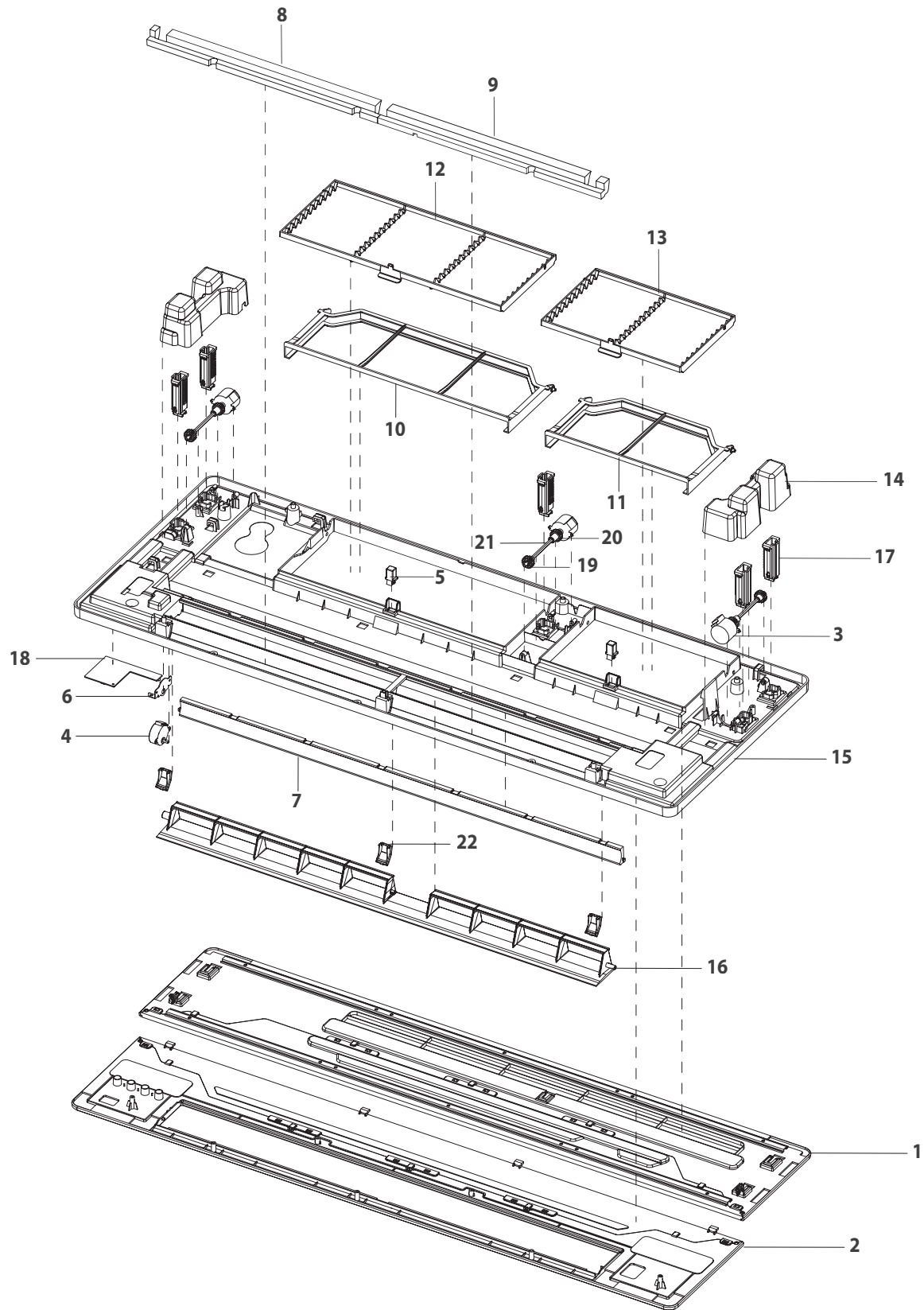
■ Parts List

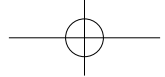
No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB31-00370A	MOTOR STEP	35BYJ46,DC12V800gf.cm,SmH250-05L(WHT),100mm	1	SA
2	DB61-02894A	HOLDER-PUSH LATCH	POM,PC+PE,11.9,12.9,21,BLACK	3	SA
3	DB61-03123A	GUIDE-AIR OUTLET	HIPS,2.5,70,860,GRAY	1	SNA
4	DB61-03124A	GUIDE-CUSHION AIR OUT LF	EPS,105,426,WHT	1	SNA
5	DB61-03125A	GUIDE-CUSHION AIR OUT RH	EPS,105,463,WHT	1	SNA
6	DB63-01694A	FILTER-AIR INLET	ABS,2,196,437,BLK	1	SA
7	DB63-01695A	FILTER-AIR INLET G	ABS,2,196,320,BLK	1	SA
8	DB63-01697A	COVER-DISPLAY PCB	HIPS,2.5,117,154,BLK	1	SNA
9	DB64-00237A	PANEL-DISPLAY LED	AKM-2800,PC	1	SA
10	DB64-01759A	PANEL FRONT-SLIM 1WAY	ABS,40,465,1180,DA White	1	SNA
11	DB64-01760A	WINDOW-DISPLAY PCB	PC,1.5,40,40,-,MILKY WHT	1	SNA
12	DB64-01762A	GRILLE-AIR INLET	ABS,2.0,213,859,WHT	1	SA
13	DB65-00023A	CLIP-WIRE-ASS'Y	NYLON,AG-240E	1	SNA
14	DB66-01187A	BLADE-G	ABS,5,11.6,WHT	1	SNA
15	DB93-05321A	ASS'Y PCB SUB	FR-1,LEAD FREE	1	SNA
16	DB63-01696A	COVER-SCREW	ABS,2.5,19,34,WHT	1	SNA



Panel (cont.)

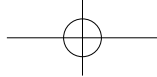
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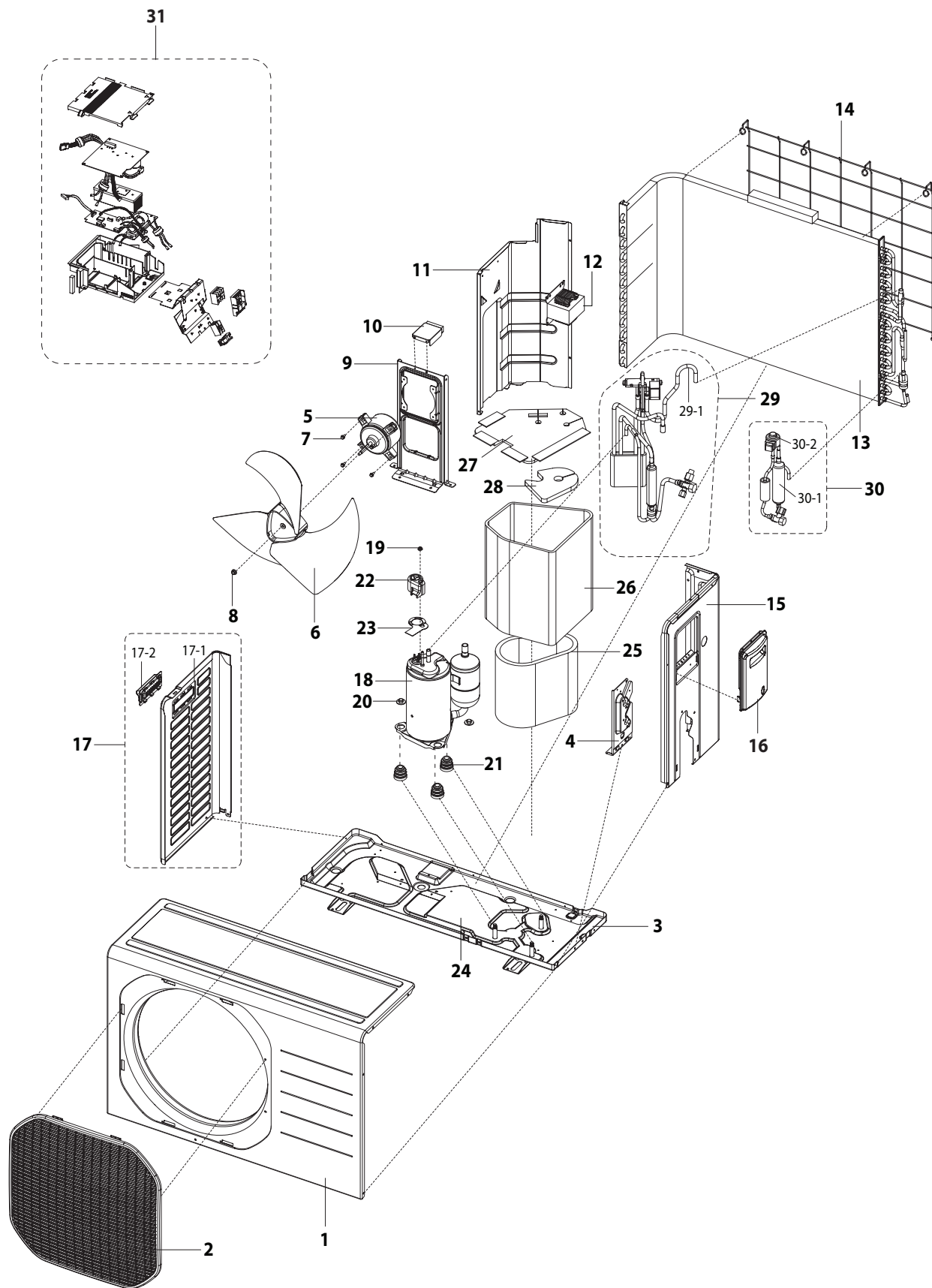


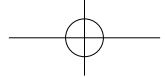
■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB92-01133A	ASS'Y PANEL INLET	-,-,-,PEAR-WHITE,-,-,-,-,AGSP1181W,SLIDE-PANEL	1	SA
2	DB92-01137A	ASS'Y PANEL FRONT	-,-,HAUZEN,PEAR WHITE,-,-,-,-,AGSP1181W,SLIDE PANEL	1	SA
3	DB31-00195A	MOTOR STEP	50BYJ46-1,GLOBAL3-PJT,-,-,-,-,60,-,220,-,-,12VDC,40Ω	3	SC
4	DB31-00370A	MOTOR STEP	35BYJ46,-,-,-,-,DC12V,-,-,-,-,DC12V,800gf.cm, SMH250-05L(WHT),100mm	1	SA
5	DB61-02894A	HOLDER-PUSH LATCH	HP-C180VC,POM,PC+PE,11.9,12.9,21,BLACK,CRYSTAL-PJT	2	SA
6	DB61-03158A	BRACKET-STEPPING MOTOR	AG4S0951G,SGCC-M,T1.0,31.5,53,WHT,STAR	1	SNA
7	DB61-03266A	GUIDE-AIR OUTLET S	AGSP1181,ABS,2.5,32,760,-,SLIM1WAY	1	SA
8	DB61-03267A	GUIDE-CUSHION AIR OUT S LF	AGSP1181,ABS,12,32,448,-,SLIM1WAY	1	SA
9	DB61-03268A	GUIDE-CUSHION AIR OUT S RH	AGSP1181,ABS,12,32,435,-,SLIM1WAY	1	SA
10	DB61-03366A	GUIDE-FILTER L	AGSP1181G,ABS,2,55,438,-,SLIDE PANEL	1	SA
11	DB61-03367A	GUIDE-FILTER S	AGSP1181G,ABS,2,55,278,-,SLIDE PANEL	1	SA
12	DB63-01785A	FILTER-AIR INLET S	AGSP1181,ABS,2,180,280,BLK,SLIM1WAY	1	SA
13	DB63-01858A	FILTER-AIR INLET L	AGSP1181G,ABS,3,178,430,BLK,SLIDE PANEL	1	SA
14	DB63-01786A	COVER-GEAR	AGSP1181,ABS,2.5,68,164,-,-,SLIM1WAY	2	SA
15	DB64-01835A	PANEL-BASE SLIDE	AGSP1181,ABS,2,460,1181,-,-,SLIM1WAY	1	SA
16	DB66-01219A	BLADE-SLIDE	AGSP1181,ABS,2,-,-,SLIM1WAY	1	SA
17	DB66-01239A	GEAR RACK	AGSP1181,ABS,2,17,2.5,WHT,-,SLIM1WAY,-	5	SA
18	DB93-05321A	ASS'Y PCB SUB	SLIM 1WAY DISPLAY PCB,PANEL, FR-1, LEAD FREE, AIXCSH040B1, AIXCSH032B1, AIXCSH023B1	1	SA
19	DB66-00422A	GEAR-PINION B	AS-SA680,POM,1,18,24,WHITE,20,P.C.D18,	1	SA
20	DB66-00423A	GEAR-PINION A	AS-SA680,POM,1,18,26.5,WHITE,20,P.C.D18,	1	SA
21	DB70-00320B	BAR-HEXA	AGSP1181,STS304,5,85,-,-,SLIDE PANEL	1	SNA
22	DB63-01696B	COVER-SCREW S	AGSP1181W,ABS,2.5,-,-,-,-,Neo Victory Gray, Spray-Color:EMPIRE SILVER	1	SNA



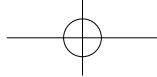
5-3 Outdoor Unit



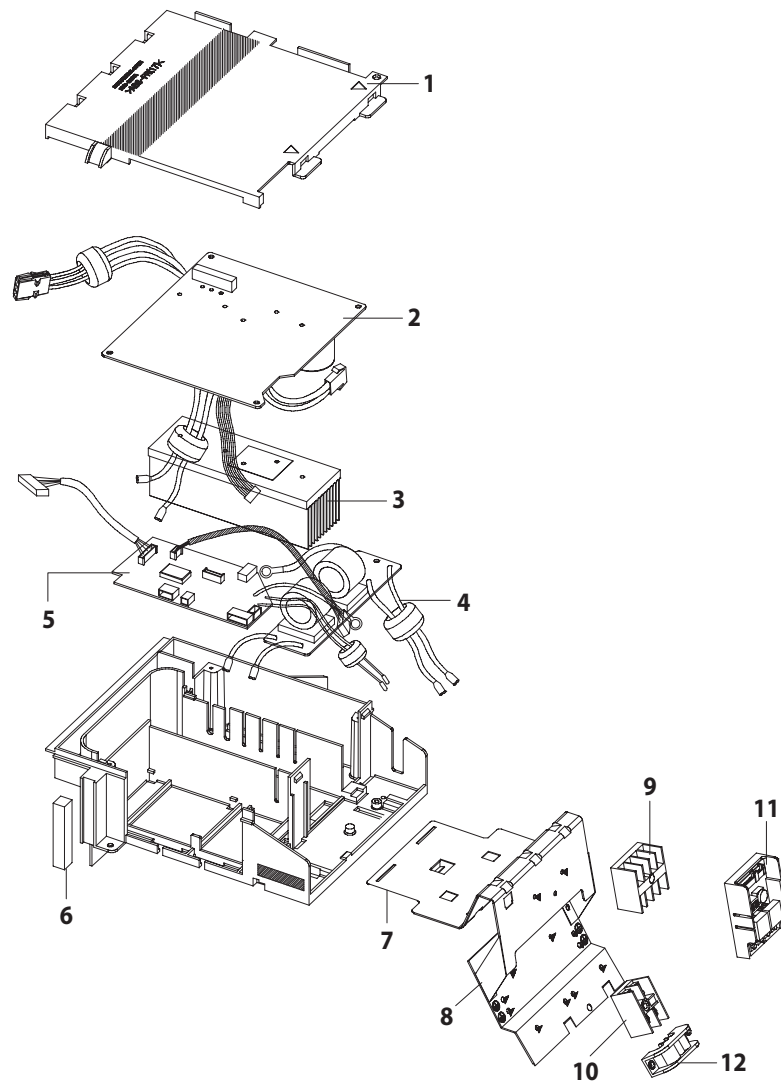


■ Parts List

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				UH026EAV1	UH035EAV1	
1	DB90-01711F	ASS'Y CABI FRONT	ASS'Y	1	1	SA
2	DB63-00847A	GUARD FAN	PP	1	1	SA
3	DB90-01681E	ASS'Y BASE OUT	ASS'Y	1	1	SA
4	DB61-02068B	BRACKET-VALVE	PSECC-P,T1.6	1	1	SA
5	DB31-00431A	MOTOR FAN-BLDC	BLDC,8P,25W,710RPM,E CLASS	1	1	SA
6	DB67-00397A	FAN-PROPELLER	AS+GF20%,Ø400	1	1	SA
7	DB60-00150A	SCREW SPECIAL	M4,L26	4	4	SA
8	DB60-30004A	SCREW-MACHINE	M6,ZPC(WHT)	1	1	SA
9	DB61-01644A	BRACKET MOTOR	SGCC-M	1	1	SA
10	DB97-02225D	ASS'Y-SUPPORT PLATE B/M	ASS'Y	1	1	SA
11	DB94-01327A	ASS'Y-PARTITION	ASS'Y	1	1	SA
12	DB27-00041A	COIL CHOKE-REACTOR	5mH,10%,-,120mOHM,10A	1	1	SA
13	DB96-08373A	ASS'Y COND	ASS'Y	1	1	SA
14	DB64-02028A	SCREEN-COND BAR	HSWR	1	1	SA
15	DB90-04025A	ASS'Y CABINET-SIDE RH	ASS'Y	1	1	SA
16	DB90-03653A	ASS'Y COVER CONTROL	ASS'Y	1	1	SA
17	DB90-01713A	ASS'Y-CABI SIDE LF	ASS'Y	1	1	SA
17-1	DB64-00982A	CABINET-SIDE LF	SECC-P	1	1	SA
17-2	DB64-00992A	HANDLE-LF	PP	1	1	SA
18	G4C090LUDER	COMPRESSOR	ROTARY	1	1	SA
19	6021-001142	NUT-HEXAGON FLANGE	M5,ZPC(YEL)	1	1	SA
20	DB60-30028A	SCREW-HEX	M8,ZPC(WHT)	3	3	SA
21	DB99-00987A	ASS'Y GROMMET	ASS'Y	3	3	SA
22	DB63-00816A	COVER TERMINAL	NORYL	1	1	SA
23	DB63-00817A	GASKET	EPDM RUBBER	1	1	SA
24	DB63-01958A	FELT-COMP BOTTOM	FELT+PVC	1	1	SA
25	DB63-01647A	FELT-COMP SIDE	FELT+PVC	1	1	SA
26	DB63-01934A	FELT-COMP SIDE OUT	FELT+PVC	1	1	SA
27	DB63-02034A	FELT-COMP UPPER	FELT+PVC	1	1	SA
28	DB63-01710B	FELT-COMP UPPER	FELT+PVC	1	1	SA
29	DB96-08389A	ASS'Y-VALVE 4WAY	ASS'Y	1	1	SA
29-1	DB33-00002C	SOLENOID-ASS'Y	ASS'Y	1	1	SA
30	DB96-08390A	ASS'Y-VALVE EEV	ASS'Y	1	1	SA
30-1	DB62-03916A	VALVE-EXPANSION BODY	FUJIKOKI,Ø1.4	1	1	SNA
30-2	DB62-03964A	VALVE EXPAN-COIL	FUJIKOKI,Ø1.4	1	1	SNA
31	DB93-05837B	ASS'Y CONTROL OUT	ASS'Y,UH026EAV1	1	-	SA
	DB93-05837A	ASS'Y CONTROL OUT	ASS'Y,UH026EAV1	-	1	SA

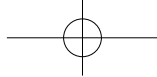


5-4 Ass'y Control Out

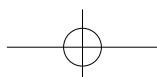
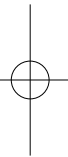
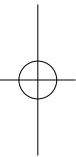


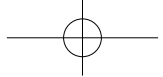
■ Parts List

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				UH026EAV1	UH035EAV1	
1	DB61-02249A	CASE CONTROL-COVER	ABSV0,2.0	1	1	SA
2	DB93-05834A	ASS'Y PCB MAIN-INVERTER	ASS'Y, UH035EAV1	-	1	SA
	DB93-05834B	ASS'Y PCB MAIN-INVERTER	ASS'Y, UH026EAV1	1	-	SA
3	DB62-03155A	HEAT SINK	KFR-35(25)GW/GPI,AL,2,50,140	1	1	SA
4	DB93-05836A	ASS'Y PCB SUB-EMI	ASS'Y	1	1	SA
5	DB93-06291B	ASS'Y PCB MAIN-OUT	ASS'Y	1	1	SA
6	DB61-02250A	CASE CONTROL-BASE	ABSV0,2.0	1	1	SA
7	DB70-00728A	PLATE-CONTROL OUT UPPER	SGCC-M,T0.6,W140,L130	1	1	SA
8	DB70-00727A	PLATE-CONTROL OUT MAIN	SGCC-M,T0.6,W52.4,L131.4	1	1	SA
9	DB95-01101H	ASS'Y-TERMINAL BLOCK	300V, 25A, 4P	1	1	SA
10	DB95-01180A	ASS'Y-TERMINAL BLOCK	250V,25A,2P	1	1	SA
11	DB93-05955A	ASS'Y PCB SUB-DISPLAY	ASS'Y	1	1	SA
12	DB61-01097A	HOLDER-WIRE CLAMP	ABS,BLK	2	2	SA



MEMO



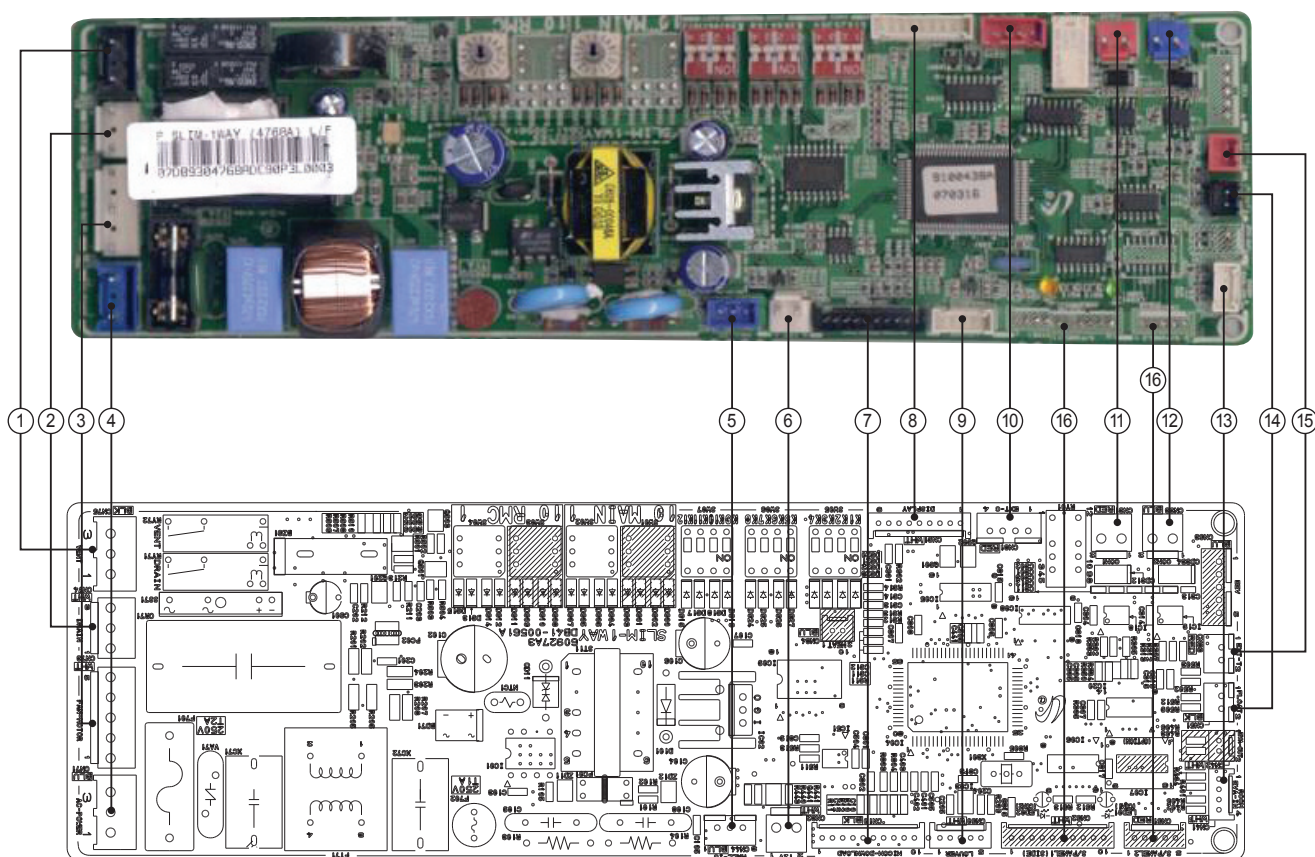


6. PCB Diagram and Parts List

6-1 PCB Diagram

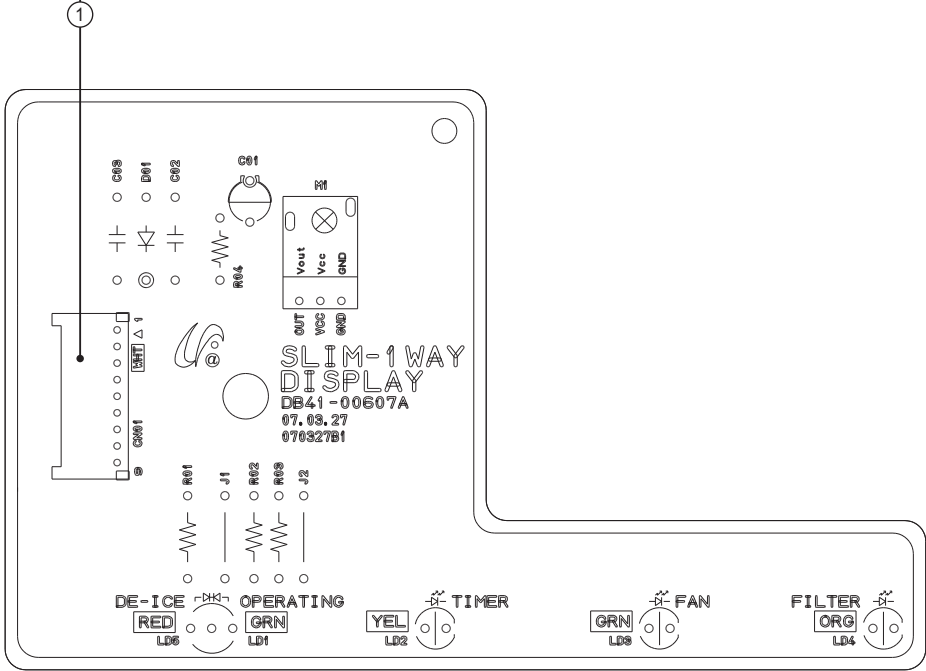
6-1-1 Indoor Unit

■ MAIN PCB



AC connection Connector	① CN75 : Ventilator Output	② CN74 : Drain Motor Output	③ CN73 : Fan Motor Output #1 : Capacitor output #2 : SSR output #3 : Common	④ CN71 : AC Power Input
	⑤ CN44 : RPM Feedback #1 : VCC(DC5V) #2 : GND #3 : RPM Feedback	⑥ CN32 : DC12V Output #1 : DC125V #2 : GND	⑦ CN10 : Micom Down Not applicable in the installation site → For developer	⑧ CN91 : Panel Display Receiver #1~5 : Control display LED #6 : Not used #7 : Receive signal form a wireless remote controller #8 : GND #9 : VCC(DC5V)
	⑨ CN60 : Fan Direction Louver Output #1 : DC12V #2~5 : Output louver control signal	⑩ CN81 : External Contract Point Control Check #1 : DC12V #2 : Error signal output #3 : DC12V #4 : Comp signal output	⑪ CN31 : COM1 Communication (between indoor-outdoor units) #1 : Comm. Signal F1 #2 : Comm. Signal F2	⑫ CN32 : COM2 communication (between indoor-wired remote controller) #1 : Comm. Signal F3 #2 : Comm. Signal F4
DC connection Connector	⑬ CN41 : Indoor Unit Temperature Sensor #1 : ROOM temp. sensor #2 : GND #3 : EVA - In temp. sensor #4 : GND	⑭ CN51 : Float Sensor #1 : Float S/W sensor #2 : GND	⑮ CN83 : External Contact Point Control(ON/OFF Timer) #1 : On/Off contact point signal input #2 : GND	⑯ CN61, CN62 : Slide Panel #1, 6 : DC12V Stepping motor output #2~5 : Motor control signa output #7~10 : Not Used

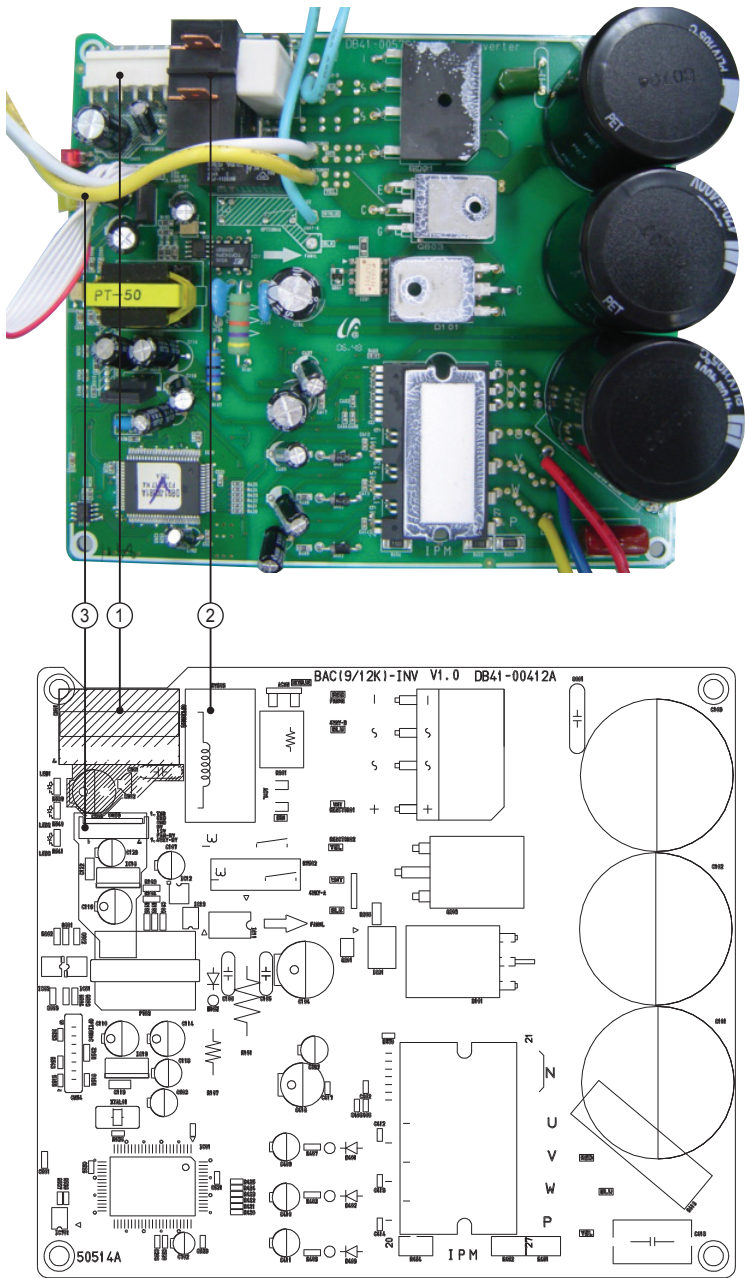
6-1-2 Panel



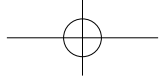
DC connecting connector	① CN01 : Connect the Main PBA of the Indoor Unit
	#1~5 : Control Display LED #6 : Not used #7 : Receive signals from wireless remote controller #8 : GND #9 : VCC (DC5V)

6-1-3 Outdoor Unit

■ INVERTER PCB

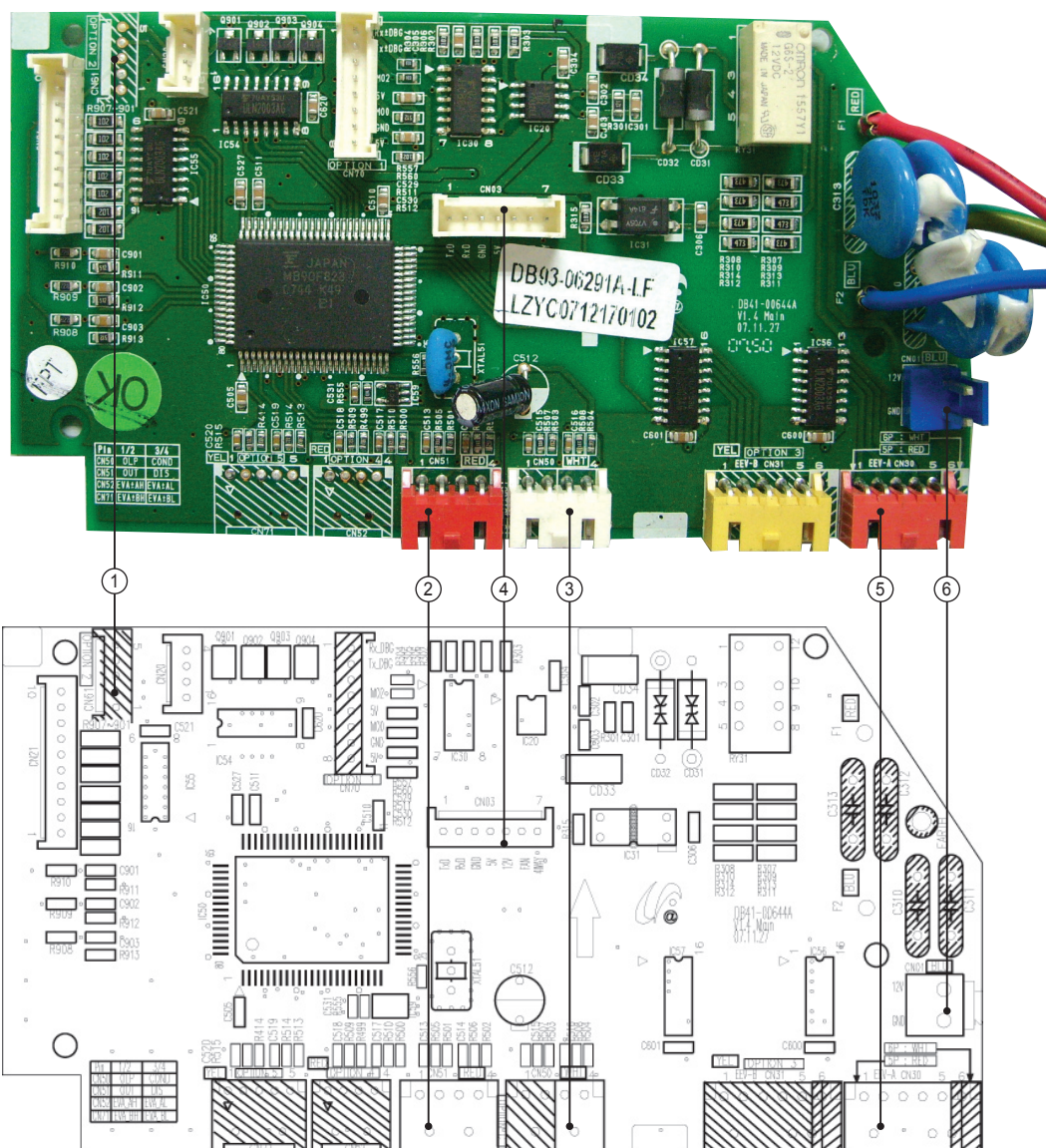


① CN01 (7PIN/WHT) : BLDC Fan #1 : DC link voltage #2 : Not used #3 : GND #4 : 16V #5 : Detect FAN RPM #6 : FAN FG #7 : Detect fan counter rotation	② RY503 : Power Relay # Upper Pin : Power Input # Lower pin : Send power to the circuit	③ CN55(7PIN/WHT) : Main PCB #1 : TXD_Main #2 : RXD_Main #3 : GND #4 : DC5V #5 : 12V #6 : Fan relay #7 : 4 way relay
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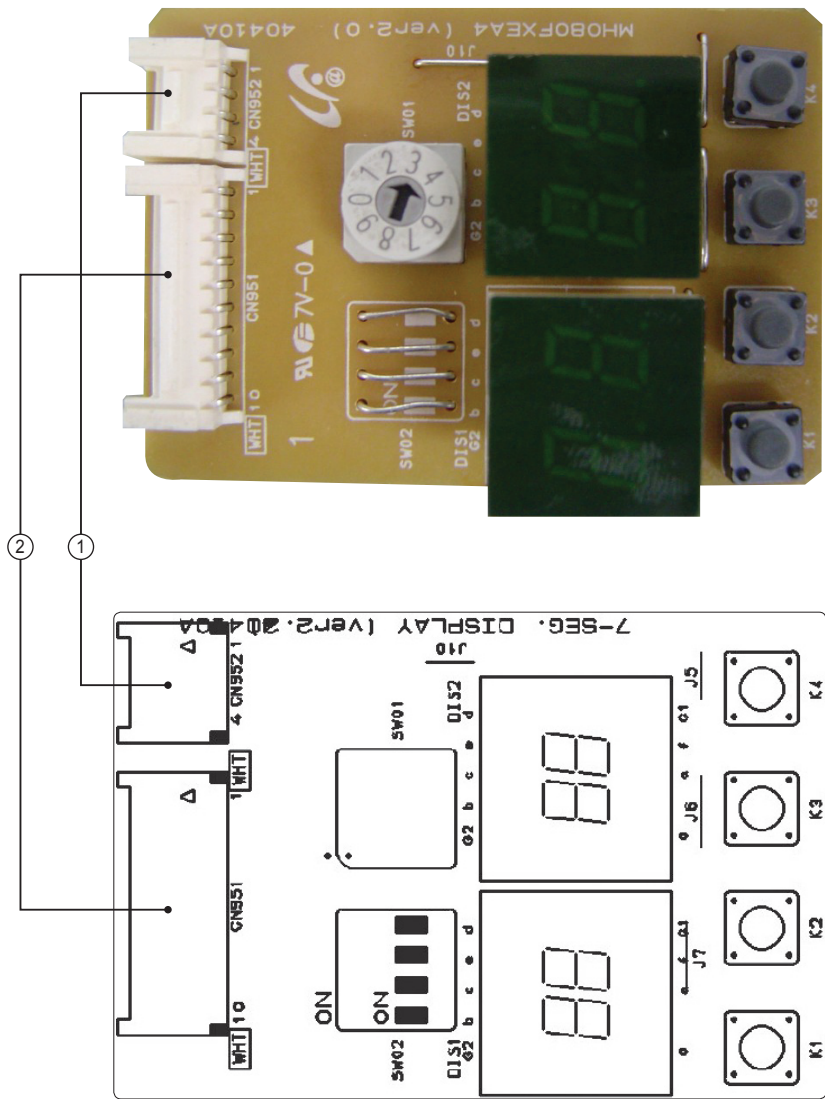
Outdoor Unit (cont.)

■ MAIN PCB

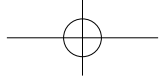


① CN61(5PIN/WHT) : Display #1~2 : Display the operation status on LED #3 : Transmit the S/W inputs to MAIN #4~5 : Transmit signals to the display	② CN51(4PIN/RED) : Temperature Sensor #1 : Transmit detected temperature outside #3 : Transmit detected discharge temperature #2, 4 : GND	③ CN50(4PIN/WHT) : Temperature Sensor #1~2 : Not used #3 : Transmit detected COND temperature #4 : GND
④ CN03(7PIN/WHT) : Inverter PCB #1 : TXD_MAIN #2 : RXD_MAIN #3 : GND #4 : DC5V #5 : 12V #6 : Fan relay #7 : 4 way relay	⑤ CN30(6PIN/WHT) : EEV #1~4 : Teceive EEV motion signal #5~6 : 12V	⑥ CN01(2PIN/BLU) : Transmitter #1 : 12V #2 : GND

6-1-4 Display



① CN952(4PIN/WHT) : Display #1~4 : Receive signals from the Main	② CN951(10PIN/WHT) : Display #1~7 : 7-SEGMENT signal #8~10 : Receive KEY operation signals from the Main
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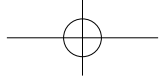


6-2 Parts List

6-2-1 Indoor Unit

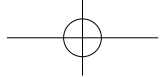
■ MAIN PCB : DB93-04768C

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
IC04	DB91-00641A	ASS'Y MIC MICOM	STM-0821-OS,MB90F823	1	SNA	
IC04	DB09-00338A	IC MICOM	MB90F823,-,80 P,5 V,24 mHz,Flash Memory,-,24, 16,QFP,QFP,14x20 mm,16,-40 ~ 85	1	SNA	
BD71	0402-001298	DIODE-BRIDGE	DF06S,600V,1A,SMD-4,TP	1	SNA	
BZ61	3002-001129	BUZZER-PIEZO	85DB,-,2KHz,-	1	SNA	
C10	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C102	2401-003895	C-AL	15uF,20%,450V,GP,TP,12.5x20mm,5	1	SNA	
C103	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C104	2401-000151	C-AL	1000uF,20%,25V,GP,TP,10x20,5	1	SNA	
C105	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C106	2401-001363	C-AL	470uF,20%,16V,GP,TP,10x12.5,5	1	SNA	
C107	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C108	2201-000007	C-CERAMIC,DISC	4.7nF,20%,400V,Y5P,BK,16X7mm,7.5	1	SNA	
C109	2201-000007	C-CERAMIC,DISC	4.7nF,20%,400V,Y5P,BK,16X7mm,7.5	1	SNA	
C12	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C201	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C202	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C203	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C204	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C205	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C301	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	SNA	
C302	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	SNA	
C303	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	SNA	
C304	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C305	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C306	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C307	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C311	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	SNA	
C312	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	SNA	
C313	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	1	SNA	
C314	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C315	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C316	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C401	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C402	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C403	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C441	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C504	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C505	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	



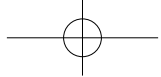
■ MAIN PCB : DB93-04768C (cont.)

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
C506	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C601	2401-002300	C-AL	47?F,20%,50V,GP,TP,6.3x11,5mm	1	SNA	
C801	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C802	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C806	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C807	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C808	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C813	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C815	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C816	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C818	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C819	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C901	2203-000444	C-CER,CHIP	1nF,10%,50V,X7R,2012	1	SNA	
C911	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C912	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C913	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C914	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
CD11	0406-001086	DIODE-TVS	ST02D-200,185/200/215V,200W,DO-214	1	SNA	
CD312	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4/-/7.07V,600W,SMB	1	SNA	
CD334	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4/-/7.07V,600W,SMB	1	SNA	
CN10	3711-005716	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,STRAIGHT,SN,BLK	1	SNA	
CN31	3711-000177	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96mm,STRAIGHT,SN,RED	1	SNA	
CN32	3711-000178	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96mm,STRAIGHT,SN,WHT	1	SNA	
CN33	3711-000176	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96mm,STRAIGHT,SN,BLU	1	SNA	
CN41	3711-004379	HEADER-BOARD TO CABLE	BOX,4P,1R,2mm,STRAIGHT,SN,NTR	1	SNA	
CN44	3711-000879	HEADER-BOARD TO CABLE	BOX,3P,1R,2.5mm,STRAIGHT,SN,BLU	1	SNA	
CN51	3711-000794	HEADER-BOARD TO CABLE	BOX,2P,1R,2.5mm,STRAIGHT,SN	1	SNA	
CN60	3711-004484	HEADER-BOARD TO CABLE	BOX,5P,1R,2mm,STRAIGHT,SN,NTR	1	SNA	
CN71	3711-006053	HEADER-BOARD TO BOARD	BOX,2P,1R,7.92mm,STRAIGHT,SN,BLU	1	SNA	
CN73	3711-000262	HEADER-BOARD TO CABLE	1WALL,3P,1R,7.92mm,STRAIGHT,SN,WHT	1	SNA	
CN74	3711-000203	HEADER-BOARD TO CABLE	1WALL,2P/3P,1R,7.92mm,STRAIGHT,SN,WHT	1	SNA	
CN75	3711-006056	HEADER-BOARD TO BOARD	BOX,2P,1R,7.92mm,STRAIGHT,SN,BLK	1	SNA	
CN81	3711-000939	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5mm,STRAIGHT,SN	1	SNA	
CN83	3711-000796	HEADER-BOARD TO CABLE	BOX,2P,1R,2.5mm,STRAIGHT,SN,RED	1	SNA	
CN91	3711-004712	HEADER-BOARD TO CABLE	BOX,9P,1R,2mm,STRAIGHT,SN,WHT	1	SNA	
CR71	2301-001094	C-FILM,LEAD-PPF	1.5uF,10%,450V,BK,38x18x30,33m	1	SNA	
D101	0402-001194	DIODE-RECTIFIER	UG2D,200V,2A,-,TP	1	SNA	
D904	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D905	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D906	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	



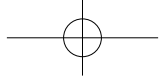
■ MAIN PCB : DB93-04768C (cont.)

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
D907	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D912	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D913	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D914	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D915	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D916	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D917	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D918	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D919	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D920	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D921	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D922	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D923	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D924	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D925	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D926	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D927	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
F701	3602-001012	FUSE-BLOCK	500V,-,100M	1	SNA	
F702	3601-001209	FUSE-RADIAL LEAD	250V,1A,TIME-LAG,-,8.5x8mm	1	SNA	
FT71	DB27-00051A	COIL CHOKE	-,AIXCSH040B1, AIXCSH032B1, AIXCSH023B1, 30mH MIN at 1KHz/1V,-,-,2.0A mAX,26x20x28, -,-,-,120°C,PB-FREE, JSF-PJT	1	SNA	
FUSE	3601-000248	FUSE-CARTRIDGE	250V,2A,TIME-LAG,GLASS,5x20mm	1	SNA	
HEAT-SINK	DB62-03581A	HEAT SINK	DPM,A6063,1.3,15,15,WHT,-,HEIGHT : 25.5	1	SNA	
IC01	1203-002710	IC-PWM CONTROLLER	TNY267P,DIP,8P,9.65X6.35mm,PLASTIC,700V, 19W,-40TO+150C,481mA,-,ST	1	SNA	
IC02	1203-000274	IC-POS1.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	SNA	
IC03	1203-003334	IC-RESET	S-801,SOT-23,5P,2.9x1.6mm,PLASTIC, 3.716/4.284V,256mW,-,2.5mA,-,TP	1	SNA	
IC04	DB91-00438A	ASS'Y-MIC	JSF(Slim 1way),MB90F823, 80P, ROM 128K bytes	1	SNA	
IC05	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC06	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC08	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC09	1003-001462	IC-SOURCE DRIVER	TD62783AFW,SOL,18P,-,8,-500mA,TP,PLASTIC, 50V,-40TO85C,1.47,50V,-	1	SNA	
IC18	1006-001325	IC-BUS TRANSCEIVER	1487,SO,8P,4.9x3.8 mm,SINGLE,ST,PLASTIC,5V, -40to+85CC,520mW,1,1,1.5/5.25V,-	1	SNA	
IC19	1006-001325	IC-BUS TRANSCEIVER	1487,SO,8P,4.9x3.8 mm,SINGLE,ST,PLASTIC,5V, -40to+85CC,520mW,1,1,1.5/5.25V,-	1	SNA	
IC20	0801-000393	IC-CMOS LOGIC	74HC86,OR GATE,SOP,14P,150MIL,QUAD,ST,-, 2.0/6.0V,0.26V,-40to+85C,180mW,4.2V,1uA	1	SNA	



■ MAIN PCB : DB93-04768C (cont.)

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
IC51	1103-001175	IC-EEPROM	93LC56,128x16,SOP,8P,5x4mm,2.5/6.0V,-40to+85C	1	SNA	
LED01	0601-001375	LED	ROUND,GRN,3mm,570nm,3.8x5.3mm	1	SNA	
LED02	0601-001377	LED	ROUND,YEL,3mm,585nm,3.8x5.3mm	1	SNA	
NTC1	1404-001274	THERMISTOR-NTC	22ohm,1.4A,3100K,9.5mW/C,-,7.0,-	1	SNA	
PC01	0604-001038	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	1	SNA	
PC02	0604-001148	PHOTO-COUPLER	TR,50-600%,200mW,SMD-4,TP	1	SNA	
PCB	DB41-00561A	PCB-SLIM 1WAY MAIN	SLIM-1WAY,FR-4,2,00,1.6,230x70,SLIM-1WAY, 2,mAIN,LEAD FREE	1	SNA	
Q201	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180-390	1	SNA	
Q441	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180-390	1	SNA	
Q601	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180-390	1	SNA	
Q602	0501-002296	TR-SMALL SIGNAL	MMST2907A,PNP,200mW,SMT3,TP,100-300	1	SNA	
Q603	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180-390	1	SNA	
Q901	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q902	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
R10	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SNA	
R101	2007-000290	R-CHIP	100ohm,5%,1/8W,TP,2012	1	SNA	
R102	2007-000493	R-CHIP	2.2Kohm,5%,1/8W,TP,2012	1	SNA	
R103	2002-001104	R-COMPOSITION	12Mohm,5%,1/2W,AA,TP,3.4x9mm	1	SNA	
R104	2002-001104	R-COMPOSITION	12Mohm,5%,1/2W,AA,TP,3.4x9mm	1	SNA	
R105	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	1	SNA	
R11	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SNA	
R12	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SNA	
R201	2007-001041	R-CHIP	56Kohm,5%,1/4W,TP,3216	1	SNA	
R202	2007-001041	R-CHIP	56Kohm,5%,1/4W,TP,3216	1	SNA	
R203	2007-001041	R-CHIP	56Kohm,5%,1/4W,TP,3216	1	SNA	
R204	2007-001041	R-CHIP	56Kohm,5%,1/4W,TP,3216	1	SNA	
R205	2007-001041	R-CHIP	56Kohm,5%,1/4W,TP,3216	1	SNA	
R206	2007-001041	R-CHIP	56Kohm,5%,1/4W,TP,3216	1	SNA	
R207	2007-001041	R-CHIP	56Kohm,5%,1/4W,TP,3216	1	SNA	
R208	2007-001041	R-CHIP	56Kohm,5%,1/4W,TP,3216	1	SNA	
R209	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R211	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R212	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R213	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R302	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R303	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R304	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R305	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R306	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	



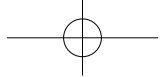
■ MAIN PCB : DB93-04768C (cont.)

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
R307	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R312	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R313	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R350	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R401	2007-001067	R-CHIP	6.8Kohm,1%,1/8W,TP,2012	1	SNA	
R402	2007-001067	R-CHIP	6.8Kohm,1%,1/8W,TP,2012	1	SNA	
R404	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R405	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R440	2007-001071	R-CHIP	6.8Kohm,5%,1/8W,TP,2012	1	SNA	
R441	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R443	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R502	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R503	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R509	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R511	2007-000938	R-CHIP	47Kohm,1%,1/8W,TP,2012	1	SNA	
R512	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R513	2007-000938	R-CHIP	47Kohm,1%,1/8W,TP,2012	1	SNA	
R601	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R602	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R603	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R604	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R605	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R606	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	1	SNA	
R607	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	1	SNA	
R608	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	1	SNA	
R609	2007-000030	R-CHIP	560ohm,5%,1/8W,TP,2012	1	SNA	
R610	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R612	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	1	SNA	
R613	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	1	SNA	
R803	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R804	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R805	2007-000477	R-CHIP	1Mohm,5%,1/8W,TP,2012	1	SNA	
R902	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R911	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R912	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R913	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R914	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
RY01	3501-001248	RELAY-MINIATURE	12V,-,11.7mA,DPDT,4mS,4mS	1	SNA	
RY71	3501-001154	RELAY-MINIATURE	12Vdc,200mW,3000mA,1FORmA,10mS,10mS	1	SNA	
RY72	3501-001154	RELAY-MINIATURE	12Vdc,200mW,3000mA,1FORmA,10mS,10mS	1	SNA	



■ MAIN PCB : DB93-04768C (cont.)

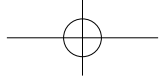
Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
SCREW	6002-000630	SCREW-TAPPING	PH,+,-,2S,M3,L8,ZPC(WHT),SWRCH18A,-	1	SNA	
SS71	3502-000115	SSR	12Vdc,-,2A,1mS,1mS	1	SNA	
ST11	DB26-00046A	TRANS SWITCHING	EI2218,TINY-PJT,-,110~240V (FREE VOLT),-,-, EI2218,50HZ/60HZ,-,1.4mH,-,-,-,-,S/W	1	SNA	
SW02	3406-001108	SWITCH-ROTARY	24Vdc,15mA,16,L14mm	1	SNA	
SW04	3406-001108	SWITCH-ROTARY	24Vdc,15mA,16,L14mm	1	SNA	
SW05	3407-000121	SWITCH-DIP	24V,300mA,SLIDE,STANDARD	1	SNA	
SW06	3407-000121	SWITCH-DIP	24V,300mA,SLIDE,STANDARD	1	SNA	
SW07	3407-000121	SWITCH-DIP	24V,300mA,SLIDE,STANDARD	1	SNA	
VA71	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA	
X301	2802-001179	RESONATOR-CERAMIC	4mHZ,0.5%,BK,8X3X5.5mm	1	SNA	
XC71	2301-001730	C-FILM,MPEF	470nF,10%,275V,BK,L11XW18XH18.5,-	1	SNA	
XC72	2301-001730	C-FILM,MPEF	470nF,10%,275V,BK,L11XW18XH18.5,-	1	SNA	
ZD11	0403-000252	DIODE-ZENER	BZX84C3V6,3.4-3.8V,350mW,SOT-23,TP	1	SNA	
ZD12	0403-001285	DIODE-ZENER	BZX84-C11,10.4-11.6V,350mW,SOT-23,TP	1	SNA	



6-2-2 Panel

■ DISPLAY : DB93-05321A

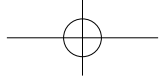
Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
C01	2401-003107	C-AL	47uF,20%,16V,GP,TP,5x7,5	1	SNA	
C02	2202-000173	C-CERAMIC,MLC-AXIAL	1nF,10%,50V,Y5P,-,1.9x3.5mm,-	1	SNA	
C03	2202-000780	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,-,3.5x19mm,-	1	SNA	
CN01	3711-004742	HEADER-BOARD TO CABLE	BOX,9P,1R,2mm,ANGLE,SN,IVR	1	SNA	
D01	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,TP	1	SNA	
J1	3812-000219	WIRE-NO SHEATH CU	TCWA,300V,52mm(TAPING),1/0.6mm	1	SNA	
J2	3812-000219	WIRE-NO SHEATH CU	TCWA,300V,52mm(TAPING),1/0.6mm	1	SNA	
LD1	0601-001096	LED	ROUND,RED/Y-GRN,5mm,630/570nm	1	SNA	
LD2	0601-001059	LED	ROUND,YEL,5mm,585nm	1	SNA	
LD3	0601-000465	LED	ROUND,GRN,5mm,565	1	SNA	
LD4	0601-001196	LED	TR,LED,1PCS,130-260%	1	SNA	
M1	0609-001201	Module Remocon	HORIZONTAL,16.4mm,TR	1	SNA	
PCB	DB41-00607A	PCB-SUB DISPLAY	AIXCSH040B1, AIXCSH032B1, AIXCSH023B1, FR-1,1,00,T-1.6,-,PANEL,4,PANEL, SLIM 1WAY DISPLAY PCB	1	SNA	
R01	2001-000109	R-CARBON(S)	470ohm,5%,1/2W,AA,TP,2.4x6.4mm	1	SNA	
R02	2001-000109	R-CARBON(S)	470ohm,5%,1/2W,AA,TP,2.4x6.4mm	1	SNA	
R03	2001-000109	R-CARBON(S)	470ohm,5%,1/2W,AA,TP,2.4x6.4mm	1	SNA	
R04	2001-000793	R-CARBON	47ohm,5%,1/8W,AA,TP,1.8x3.2mm	1	SNA	



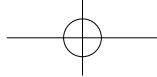
6-2-3 Outdoor Unit

■ INVERTER PCB : DB93-05834B(UH026EAV1), DB93-05834A(UH035EAV1)

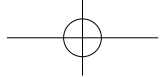
Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
AC_L	3712-001139	CONNECTOR-TERMINAL	TAB,MALE,-,6.35x0.8mm	1	SNA	
AC_N	3712-001139	CONNECTOR-TERMINAL	TAB,MALE,-,6.35x0.8mm	1	SNA	
BD01	DB98-16586A	ASS'Y-DIODE	-----	1	SNA	
C001	2301-000141	C-FILM,LEAD-PEF	10nF,10%,630V,TP,16x11x7.5mm,5	1	SNA	
C101	DB98-21655A	ASS'Y-CAP	KFR-35(25)GW,KMH400VS470	1	SNA	
C102	DB98-21655A	ASS'Y-CAP	KFR-35(25)GW,KMH400VS470	1	SNA	
C103	DB98-21655A	ASS'Y-CAP	KFR-35(25)GW,KMH400VS470	1	SNA	
C104	2401-000470	C-AL	10uF,20%,450V,GP,TP,13x20mm,5m	1	SNA	
C105	2201-000322	C-CERAMIC,DISC	2.2nF,10%,2kV,Y5P,TP,13x5mm,10	1	SNA	
C106	2201-000322	C-CERAMIC,DISC	2.2nF,10%,2kV,Y5P,TP,13x5mm,10	1	SNA	
C107	2401-001552	C-AL	47uF,20%,35V,GP,TP,6.3x11,2.5	1	SNA	
C108	2203-001414	C-CER,CHIP	330nF,10%,50V,X7R,2012	1	SNA	
C109	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C110	2401-000832	C-AL	220uF,20%,25V,GP,TP,8x11.5,5	1	SNA	
C112	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C113	2203-005261	C-CER,CHIP	1000nF,10%,25V,X7R,3216	1	SNA	
C114	2401-000832	C-AL	220uF,20%,25V,GP,TP,8x11.5,5	1	SNA	
C116	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C118	2401-002300	C-AL	47μF,20%,50V,GP,TP,6.3x11,5mm	1	SNA	
C119	2401-000832	C-AL	220uF,20%,25V,GP,TP,8x11.5,5	1	SNA	
C121	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C122	2203-000477	C-CER,CHIP	1000nF,+80-20%,16V,Y5V,TP,2012	1	SNA	
C123	2401-000303	C-AL	100uF,20%,25V,GP,TP,6.3x11,5	1	SNA	
C201	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C202	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C203	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C204	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C205	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C206	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C301	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608,-	1	SNA	
C318	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608,-	1	SNA	
C319	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608,-	1	SNA	
C320	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608,-	1	SNA	
C321	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608,-	1	SNA	
C401	2203-000236	C-CER,CHIP	0.1nF,5%,50V,COG,1608	1	SNA	
C402	2203-000236	C-CER,CHIP	0.1nF,5%,50V,COG,1608	1	SNA	
C403	2203-000236	C-CER,CHIP	0.1nF,5%,50V,COG,1608	1	SNA	
C404	2203-000236	C-CER,CHIP	0.1nF,5%,50V,COG,1608	1	SNA	
C405	2203-000236	C-CER,CHIP	0.1nF,5%,50V,COG,1608	1	SNA	
C406	2203-000236	C-CER,CHIP	0.1nF,5%,50V,COG,1608	1	SNA	

**Outdoor Unit (cont.)****■ INVERTER PCB : DB93-05834B(UH026EAV1), DB93-05834A(UH035EAV1) (cont.)**

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
C407	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,1608	1	SNA	
C408	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C409	2401-002300	C-AL	47μF,20%,50V,GP,TP,6.3x11,5mm	1	SNA	
C410	2401-002300	C-AL	47μF,20%,50V,GP,TP,6.3x11,5mm	1	SNA	
C411	2401-002300	C-AL	47μF,20%,50V,GP,TP,6.3x11,5mm	1	SNA	
C412	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C413	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C414	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C415	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C416	2401-002598	C-AL	220uF,20%,50V,GP,TP,10x16,5	1	SNA	
C417	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C418	2306-000123	C-FILM,LEAD-PPF	100nF,5%,630V,BK,26x16.5x8.5,2	1	SNA	
C419	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C421	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,1608	1	SNA	
C451	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C452	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C453	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C454	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C501	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C552	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C553	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C554	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C555	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C556	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C559	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C560	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C561	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C562	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C563	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C564	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C565	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C567	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C568	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C569	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C570	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C574	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C575	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C576	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA	
C577	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C602	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	

**Outdoor Unit (cont.)****■ INVERTER PCB : DB93-05834B(UH026EAV1), DB93-05834A(UH035EAV1) (cont.)**

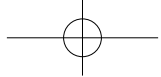
Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
C603	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C604	2203-000444	C-CER,CHIP	1nF,10%,50V,X7R,2012	1	SNA	
C802	2203-000609	C-CER,CHIP	22nF,10%,50V,X7R,TP,2012	1	SNA	
C803	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C806	2203-000444	C-CER,CHIP	1nF,10%,50V,X7R,2012	1	SNA	
C900	2203-006104	C-CER,CHIP	1000nF,10%,50V,X7R,3225	1	SNA	
C901	2201-000322	C-CERAMIC,DISC	2.2nF,10%,2kV,Y5P,TP,13x5mm,10	1	SNA	
C902	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA	
C905	2401-002598	C-AL	220uF,20%,50V,GP,TP,10x16,5	1	SNA	
C906	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C907	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
CN01	3711-005654	HEADER-BOARD TO CABLE	1WALL,7P,1R,3.96mm,ANGLE,SN,WHT	1	SNA	
CN15	3711-003843	HEADER-BOARD TO CABLE	BOX,8P,1R,2mm,STRAIGHT,SN,WHT	1	SNA	
CN34	3711-004182	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,STRAIGHT,SN,NTR	1	SNA	
D101	DB98-16591A	ASS'Y-DIODE RECTIFIER	-----	1	SNA	
D102	0402-000351	DIODE-RECTIFIER	1N4937,600V,1A,DO-41,TP	1	SNA	
D103	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA	
D104	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA	
D105	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA	
D106	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA	
D201	0407-000123	DIODE-ARRAY	DAN202K,80V,100mA,CA2-3,SOT-23,TP	1	SNA	
D401	0402-000351	DIODE-RECTIFIER	1N4937,600V,1A,DO-41,TP	1	SNA	
D402	0402-000351	DIODE-RECTIFIER	1N4937,600V,1A,DO-41,TP	1	SNA	
D403	0402-000351	DIODE-RECTIFIER	1N4937,600V,1A,DO-41,TP	1	SNA	
D451	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D452	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D453	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D454	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
IC01	DB91-00532A	ASS'Y-MIC	Montblanc1 OUTDOOR Inv Micom,MN103SFA7K, 80P, ROM Size: 256K bytes	1	SNA	
IC01	DB09-00517A	IC MICOM	MN103FA7K,-,80P,+5V,10 MHz,Flash Memory, ROM Size: 256K bytes,32 Bit,32 Bit,QFP,QFP,14x14 mm, 32 Bit,-40~+85	1	SNA	
IC11	1203-003527	IC-PWM CONTROLLER	TOP243,DIP,7P,9.83x6.6mm,PLASTIC,-0.3/700V, 25W,-40to+150C,1.44A,-,-	1	SNA	
IC12	0604-001172	PHOTO-COUPLER	TR,100-300,200mW,SOP,TP	1	SA	
IC13	1203-002948	IC-POS1.ADJUST REG.	TL431ACD,SOP,8P,4.9X3.9MM,PLASTIC,36V,1.5W, 0TO+70C,150mA,2.44/2.55V,TP	1	SNA	
IC16	1203-000274	IC-POS1.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	SNA	
IC19	1203-000274	IC-POS1.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	SNA	



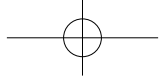
Outdoor Unit (cont.)

■ INVERTER PCB : DB93-05834B(UH026EAV1), DB93-05834A(UH035EAV1) (cont.)

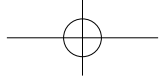
Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
IC21	1202-000104	IC-VOLTAGE COMP.	393,SOP,8P,150MIL,DUAL,36V,CMOS,PLASTIC, 18V,780mW,0to+70C,18V,5mV,250nA,50NA,30	1	SNA	
IC451	DB32-00173A	SENSOR MAG-CT SENSOR	ACS712,5HP INVERTER,-,40~150,-,30A,8V,Sinusoidal	1	SNA	
IC452	DB32-00173A	SENSOR MAG-CT SENSOR	ACS712,5HP INVERTER,-,40~150,-,30A,8V,Sinusoidal	1	SNA	
IC55	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC61	0604-001172	PHOTO-COUPLER	TR,100-300,200mW,SOP,TP	1	SA	
IC62	0604-001172	PHOTO-COUPLER	TR,100-300,200mW,SOP,TP	1	SA	
IC701	DB91-00562A	ASS'Y-EEPROM	UH035EAV1,93LC66, SSEC	1	SNA	
IC701	DB91-00562B	ASS'Y-EEPROM	UH035EAV1,93LC66, SSEC	1	SNA	
IC701	1103-001038	IC-EEPROM	93LC66,4KBIT,256X16BIT,SOP,8P,5x4mm,-,2.5/5.5V, -,40TO+85C,1uA,TP	1	SNA	
IC81	DB98-20678A	ASS'Y-PHOTOCOUPLER	KFR-35(25)GW/GPI,TLP351	1	SNA	
IPM	DB95-00599A	ASS'Y-IPM	KFR-35GW/GPI,INVERTER	1	SNA	
LED1	DB98-16601A	ASS'Y-LED RED	-----	1	SNA	
LED2	DB98-16600A	ASS'Y-LED GREEN	-----	1	SNA	
LED3	DB98-16602A	ASS'Y-LED YEL	-----	1	SNA	
PCB	DB41-00652A	PCB MAIN-INV	MH040FXCA2A,CEM-3,2,V0.1,T1.6,16mmx14mm, -,1,PE50,-,SSEC	1	SNA	
PT02	DB26-00075A	TRANS SWITCHING	PT-50,AQV18FA,-,90~275V,FERRITE,-,EI2218,50/60Hz, UL,0.7mH,-,15V, 12V, 7.8V,-	1	SNA	
Q801	0504-000127	TR-DIGITAL	FJV3102RMTF,NPN,200mW,10K/10K,SOT-23,TP	1	SNA	
Q803	0508-001132	TR-IGBT	-,600V,40A,2.6V,1200UJ,160W,TO-3P	1	SNA	
Q901	DB13-00003A	IC DRIVER GATE	-,SOT-23,-,1P,1P,0.2mm,2.93x1.3mm	1	SNA	
Q902	0504-000127	TR-DIGITAL	FJV3102RMTF,NPN,200mW,10K/10K,SOT-23,TP	1	SNA	
R001	2006-001080	R-CEMENT(S)	200ohm,5%,5W,CB,BK,13x9x25.5mm	1	SNA	
R101	2003-000855	R-METAL OXIDE(S)	47Kohm,5%,3W,AA,TP,6x16mm	1	SNA	
R102	2007-001074	R-CHIP	6.8ohm,5%,1/8W,TP,2012	1	SNA	
R103	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R104	2007-000686	R-CHIP	3.3Kohm,5%,1/8W,TP,2012	1	SNA	
R105	2007-001222	R-CHIP	9.09Kohm,1%,1/8W,TP,2012	1	SNA	
R106	2007-000263	R-CHIP	1.82Kohm,1%,1/8W,TP,2012	1	SNA	
R107	2003-000708	R-METAL OXIDE(S)	47ohm,5%,1W,AA,TP,3.3x9mm	1	SNA	
R110	2007-008023	R-CHIP	100Kohm,5%,1W,TP,6432	1	SNA	
R111	2007-008023	R-CHIP	100Kohm,5%,1W,TP,6432	1	SNA	
R112	2007-008023	R-CHIP	100Kohm,5%,1W,TP,6432	1	SNA	
R113	2007-000924	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	SNA	
R114	2007-000924	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	SNA	
R115	2007-000924	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	SNA	
R116	2007-000385	R-CHIP	14.3Kohm,1%,1/4W,TP,3216	1	SNA	
R201	2007-002667	R-CHIP	90.9Kohm,1%,1/4W,TP,3216	1	SNA	

**Outdoor Unit (cont.)****■ INVERTER PCB : DB93-05834B(UH026EAV1), DB93-05834A(UH035EAV1) (cont.)**

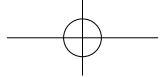
Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
R202	2007-002667	R-CHIP	90.9Kohm,1%,1/4W,TP,3216	1	SNA	
R203	2007-002667	R-CHIP	90.9Kohm,1%,1/4W,TP,3216	1	SNA	
R204	2007-002667	R-CHIP	90.9Kohm,1%,1/4W,TP,3216	1	SNA	
R205	2007-000263	R-CHIP	1.82Kohm,1%,1/8W,TP,2012	1	SNA	
R206	2007-000263	R-CHIP	1.82Kohm,1%,1/8W,TP,2012	1	SNA	
R207	2007-000080	R-CHIP	2Kohm,5%,1/10W,TP,1608	1	SNA	
R208	2007-000080	R-CHIP	2Kohm,5%,1/10W,TP,1608	1	SNA	
R209	2007-000080	R-CHIP	2Kohm,5%,1/10W,TP,1608	1	SNA	
R315	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA	
R323	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	1	SNA	
R324	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA	
R325	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA	
R327	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA	
R328	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA	
R342	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	1	SNA	
R407	2007-000781	R-CHIP	33ohm,5%,1/8W,TP,2012	1	SNA	
R408	2007-000781	R-CHIP	33ohm,5%,1/8W,TP,2012	1	SNA	
R409	2007-000781	R-CHIP	33ohm,5%,1/8W,TP,2012	1	SNA	
R413	2007-000082	R-CHIP	3.3Kohm,5%,1/10W,TP,1608	1	SNA	
R415	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA	
R418	2006-001013	R-CEMENT	0.02ohm,5%,7W,CA,BK,35x9.5x9.5mm	1	SNA	
R419	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R420	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R421	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R422	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R423	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R424	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R425	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA	
R462	2007-000986	R-CHIP	5.6ohm,5%,1/8W,TP,2012	1	SNA	
R463	2007-000986	R-CHIP	5.6ohm,5%,1/8W,TP,2012	1	SNA	
R464	2007-000986	R-CHIP	5.6ohm,5%,1/8W,TP,2012	1	SNA	
R539	2007-000493	R-CHIP	2.2Kohm,5%,1/8W,TP,2012	1	SNA	
R540	2007-000493	R-CHIP	2.2Kohm,5%,1/8W,TP,2012	1	SNA	
R541	2007-000493	R-CHIP	2.2Kohm,5%,1/8W,TP,2012	1	SNA	
R552	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R553	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA	
R554	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R555	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R556	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	

**Outdoor Unit (cont.)****■ INVERTER PCB : DB93-05834B(UH026EAV1), DB93-05834A(UH035EAV1) (cont.)**

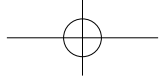
Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
R558	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R560	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R561	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R562	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R563	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R566	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R567	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R573	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R574	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R601	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R602	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R603	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R604	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R605	2007-000586	R-CHIP	22Kohm,5%,1/8W,TP,2012	1	SNA	
R606	2007-000586	R-CHIP	22Kohm,5%,1/8W,TP,2012	1	SNA	
R805	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R806	2007-000950	R-CHIP	47ohm,5%,1/4W,TP,3216	1	SNA	
R807	2007-000553	R-CHIP	20ohm,5%,1/4W,TP,3216	1	SNA	
R808	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	1	SNA	
R901	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R902	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R906	2007-001071	R-CHIP	6.8Kohm,5%,1/8W,TP,2012	1	SNA	
R908	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
RY501	3501-001154	RELAY-MINIATURE	12Vdc,200mW,3000mA,1FormA,10mS,10mS	1	SNA	
RY503	3501-001272	RELAY-POWER	12VDC-,25000mA,1FormA,20mS,10mS	1	SNA	
XTAL	2802-001198	RESONATOR-CERAMIC	10MHz,0.5%,BK,8x3x5.5mm	1	SNA	
ZD200	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA	
ZD201	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA	
ZD451	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA	
ZD452	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA	
ZD501	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA	
ZD502	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA	
-	DB93-04334A	ASS'Y CONNECTOR WIRE	AQV24JAKCV,24K	1	SNA	
-	DB93-04336A	ASS'Y CONNECTOR WIRE	AQV12JAKCV,12K	1	SNA	
-	DB93-04349A	ASS'Y CONNECTOR WIRE-4WAY	AQV12JAKCV,12K_Out	1	SNA	
-	DB93-04350A	ASS'Y CONNECTOR WIRE	AQV12JAKCV,12K_OUT	1	SNA	

**Outdoor Unit (cont.)****■ MAIN PCB : DB93-06291B**

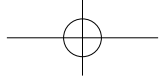
Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
C301	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C302	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C303	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C304	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C305	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C306	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C310	2201-000154	C-CERAMIC,DISC	10nF,+80-20%,2kV,Y5P,TP,20x5mm,7.5	1	SNA	
C311	2201-000154	C-CERAMIC,DISC	10nF,+80-20%,2kV,Y5P,TP,20x5mm,7.5	1	SNA	
C312	2201-000154	C-CERAMIC,DISC	10nF,+80-20%,2kV,Y5P,TP,20x5mm,7.5	1	SNA	
C313	2201-000154	C-CERAMIC,DISC	10nF,+80-20%,2kV,Y5P,TP,20x5mm,7.5	1	SNA	
C505	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C510	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C511	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C512	2401-000287	C-AL	100uF,20%,16V,WT,TP,6.3x11,5	1	SNA	
C513	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C514	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C515	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C516	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C517	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C518	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C519	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C520	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C521	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C527	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C529	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C530	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C531	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C600	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C601	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C620	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C901	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C902	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C903	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
CD31	0406-001109	DIODE-TVS	SAC5.0,7.6/-/-V,500W,DO-15	1	SNA	
CD32	0406-001109	DIODE-TVS	SAC5.0,7.6/-/-V,500W,DO-15	1	SNA	
CD33	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4/-/-7.07V,600W,SMB	1	SNA	
CD34	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4/-/-7.07V,600W,SMB	1	SNA	
CN01	3711-000176	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96mm,STRAIGHT,SN,BLU	1	SNA	
CN03	3711-003873	HEADER-BOARD TO CABLE	BOX,7P,1R,2mm,STRAIGHT,SN,NTR	1	SNA	
CN20	3711-004379	HEADER-BOARD TO CABLE	BOX,4P,1R,2mm,STRAIGHT,SN,NTR	1	SNA	

**Outdoor Unit (cont.)****■ MAIN PCB : DB93-06291B (cont.)**

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
CN21	3711-004182	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,STRAIGHT,SN,NTR	1	SNA	
CN30	DB98-24921A	ASS'Y-HOOK WHT	UH035EAV,SMAW250A-06 WHT	1	SNA	
CN50	DB98-22299A	ASS'Y-HOOK WHT	INVERTER,SMAW250A-04 WHT	1	SNA	
CN51	DB98-22298A	ASS'Y-HOOK RED	INVERTER,SMAW250A-04 RED	1	SNA	
CN70	3711-003843	HEADER-BOARD TO CABLE	BOX,8P,1R,2mm,STRAIGHT,SN,WHT	1	SNA	
IC20	1006-001371	IC-LINE TRANSCEIVER	ISL3175EIBZ,SOIC,8P6.2x5.0x1.75,1,REEL,PLASTIC, 3.3V,-40 to 85°C,0.5W,1,1,0.3/7V,-	1	SNA	
IC30	0801-000393	IC-CMOS LOGIC	74HC86,OR GATE,SOP,14P,150MIL,QUAD,ST,-, 2.0/6.0V,0.26V,-40to+85C,180mW,4.2V,1uA	1	SNA	
IC31	0604-001003	PHOTO-COUPLER	TR,50-150%,200mW,DIP-4,ST	1	SNA	
IC50	DB91-00583A	ASS'Y-MIC	GAUDI INVETER OUT MAIN MICOM,STM-0761-OS, MB90F823 ,80QFP, ROM 128K bytes	1	SNA	
IC54	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC55	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC56	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC57	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
IC59	1203-003334	IC-RESET	S-801,SOT-23,5P,2.9x1.6mm,PLASTIC,3.716/4.284V, 256mW,-,2.5mA,-,TP	1	SNA	
PCB	DB41-00644A	PCB MAIN-OUT	MH040FXCA2A,CEM-3,2,V0.1,T1.6,16mmx14mm, -,1,PE50,-,SSEC	1	SNA	
Q901	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q902	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q903	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q904	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
R301	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SNA	
R302	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R303	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R304	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R306	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R307	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R308	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R309	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R310	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R311	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R312	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R313	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R314	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA	
R315	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R414	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA	
R499	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA	

**Outdoor Unit (cont.)****■ MAIN PCB : DB93-06291B (cont.)**

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
R500	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA	
R501	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA	
R502	2007-000614	R-CHIP	24Kohm,1%,1/10W,TP,1608	1	SNA	
R503	2007-000614	R-CHIP	24Kohm,1%,1/10W,TP,1608	1	SNA	
R504	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA	
R505	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA	
R506	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA	
R507	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA	
R508	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA	
R509	2007-000763	R-CHIP	330ohm,1%,1/10W,TP,1608	1	SNA	
R510	2007-000763	R-CHIP	330ohm,1%,1/10W,TP,1608	1	SNA	
R511	2007-000964	R-CHIP	5.1Kohm,5%,1/8W,TP,2012	1	SNA	
R512	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R513	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA	
R514	2007-000763	R-CHIP	330ohm,1%,1/10W,TP,1608	1	SNA	
R515	2007-000763	R-CHIP	330ohm,1%,1/10W,TP,1608	1	SNA	
R555	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R556	2007-000109	R-CHIP	1Mohm,5%,1/10W,TP,1608	1	SNA	
R557	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R560	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA	
R901	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R902	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R903	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R904	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R905	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R906	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R907	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA	
R908	2007-001177	R-CHIP	8.2Kohm,5%,1/8W,TP,2012	1	SNA	
R909	2007-001177	R-CHIP	8.2Kohm,5%,1/8W,TP,2012	1	SNA	
R910	2007-001177	R-CHIP	8.2Kohm,5%,1/8W,TP,2012	1	SNA	
R911	2007-000964	R-CHIP	5.1Kohm,5%,1/8W,TP,2012	1	SNA	
R912	2007-000964	R-CHIP	5.1Kohm,5%,1/8W,TP,2012	1	SNA	
R913	2007-000964	R-CHIP	5.1Kohm,5%,1/8W,TP,2012	1	SNA	
RY31	3501-001248	RELAY-MINIATURE	12V,-,11.7mA,DPDT,4mS,4mS	1	SNA	
XTAL51	2802-001179	RESONATOR-CERAMIC	4MHz,0.5%,BK,8x3x5.5mm	1	SNA	
-	DB39-00514F	CBF LEAD WIRE-EARTH	-,KFR-35(25)GW/GPI,-,200,-,-,-,GRN/YEL,-,-,-	1	SNA	
-	DB09-00338A	IC MICOM	MB90F823,-,80 P,5 V,24 MHz,Flash Memory,-,24, 16,QFP,QFP,14x20 mm,16,-40 ~ 85	1	SNA	
-	DB93-06571A	ASS'Y CONNECTOR WIRE-COMMUNICATION	UH035EAV1,SSEC,UL1007,AWG22,100÷10,RED, YH396-02VR,175024-1	1	SNA	

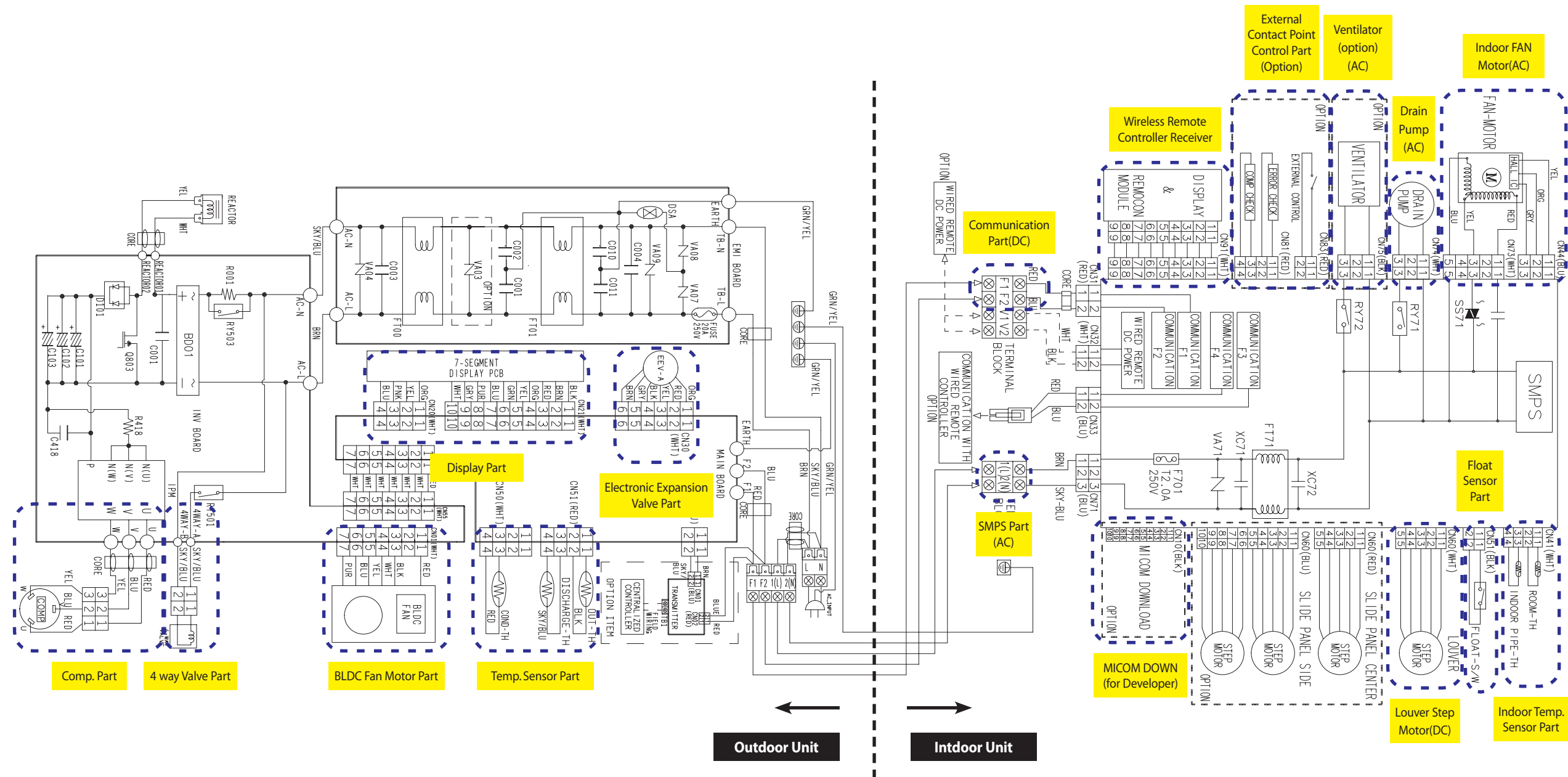


Outdoor Unit (cont.)

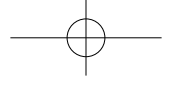
■ EMI PCB : DB93-05836A

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
C001	2201-000540	C-CERAMIC,DISC	4.7nF,20%,2kV,Y5U,BK,12x5mm,10	1	SNA	
C002	2201-000540	C-CERAMIC,DISC	4.7nF,20%,2kV,Y5U,BK,12x5mm,10	1	SNA	
C003	2301-001285	C-FILM,LEAD-PPF	680nF,10%,275V,BK,31x11x21mm,27.5	1	SNA	
C004	2301-001285	C-FILM,LEAD-PPF	680nF,10%,275V,BK,31x11x21mm,27.5	1	SNA	
C010	2201-000540	C-CERAMIC,DISC	4.7nF,20%,2kV,Y5U,BK,12x5mm,10	1	SNA	
C011	2201-000540	C-CERAMIC,DISC	4.7nF,20%,2kV,Y5U,BK,12x5mm,10	1	SNA	
DSA	DB47-00016A	POSISTOR	DSA-332mA,2pF MAX,100Mohm,ASM-3500	1	SNA	
FT00	DB98-17990A	ASS'Y-EMI FILTER	SH12BWH,LS615044	1	SNA	
FT01	DB98-17990A	ASS'Y-EMI FILTER	SH12BWH,LS615044	1	SNA	
FUSE	3601-001159	FUSE-CARTRIDGE	250V,20A,SLOW-BLOW,CERAMIC,31.8x6.35mm	1	SNA	
PCB	DB41-00589A	PCB-EMI	MH040FXEA2A,FR-1,1,-,T1.6,-,-,-,SSEC	1	SNA	
VA04	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA	
VA07	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA	
VA08	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA	
VA09	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA	
-	3602-001038	FUSE-CLIP	250V,30A,10mohm	2	SNA	
-	6042-001009	EYELET	ID1.8,OD2.2,L3,-,BRASS	8	SNA	
-	6042-001012	EYELET	ID3,OD5,L4.3,YEL,Cu	4	SNA	
-	DB39-00514F	CBF LEAD WIRE-EARTH	-,KFR-35(25)GW/GPI,-,200,-,-,-,GRN/YEL,-,-,-	1	SNA	
-	DB39-00961T	CBF LEAD WIRE	-,SH12BWH,-,120,10A,230V/50Hz,-,BRW,-,-,INVERTER	1	SNA	
-	DB39-00961U	CBF LEAD WIRE	-,SH12BWH,-,120,10A,230V/50Hz,-,BLU,-,-,INVERTER	1	SNA	
-	DB93-04908A	ASS'Y CONNECTOR WIRE-POWER	MH040FXEA4A, FJM1,AWG14,UL1015,4,270/290, 270/290,YEL / WHT,16,ST730620-3,SIN-41T-2.4S, -,-,-,270/290,270/290,AWG14,UL10	1	SNA	

7. Wiring Diagram



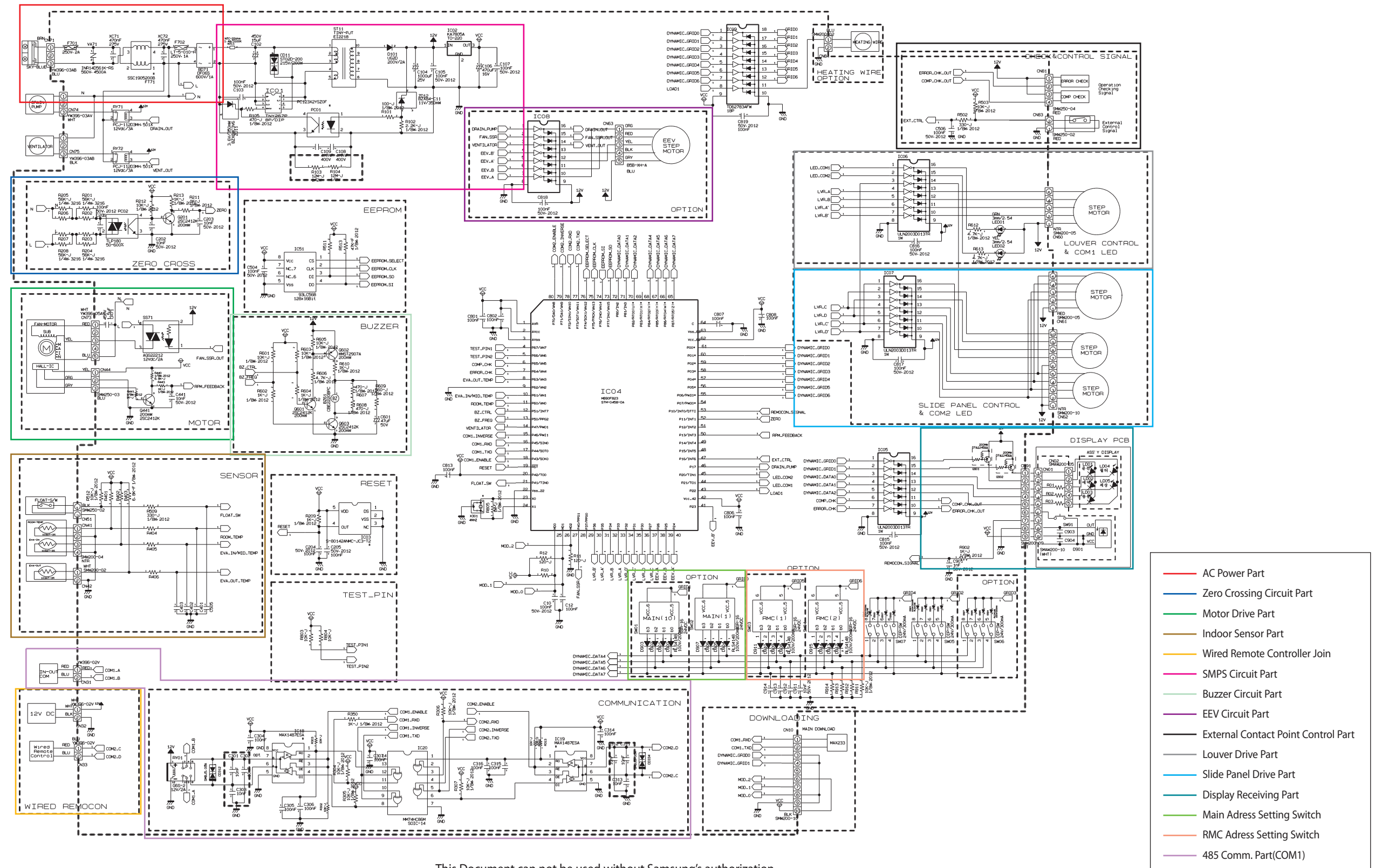
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8. Schematic Diagram

8-1 Indoor Unit

8-1-1 MAIN PCB



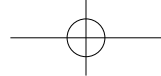
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Schematic Diagram

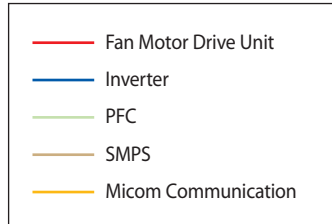
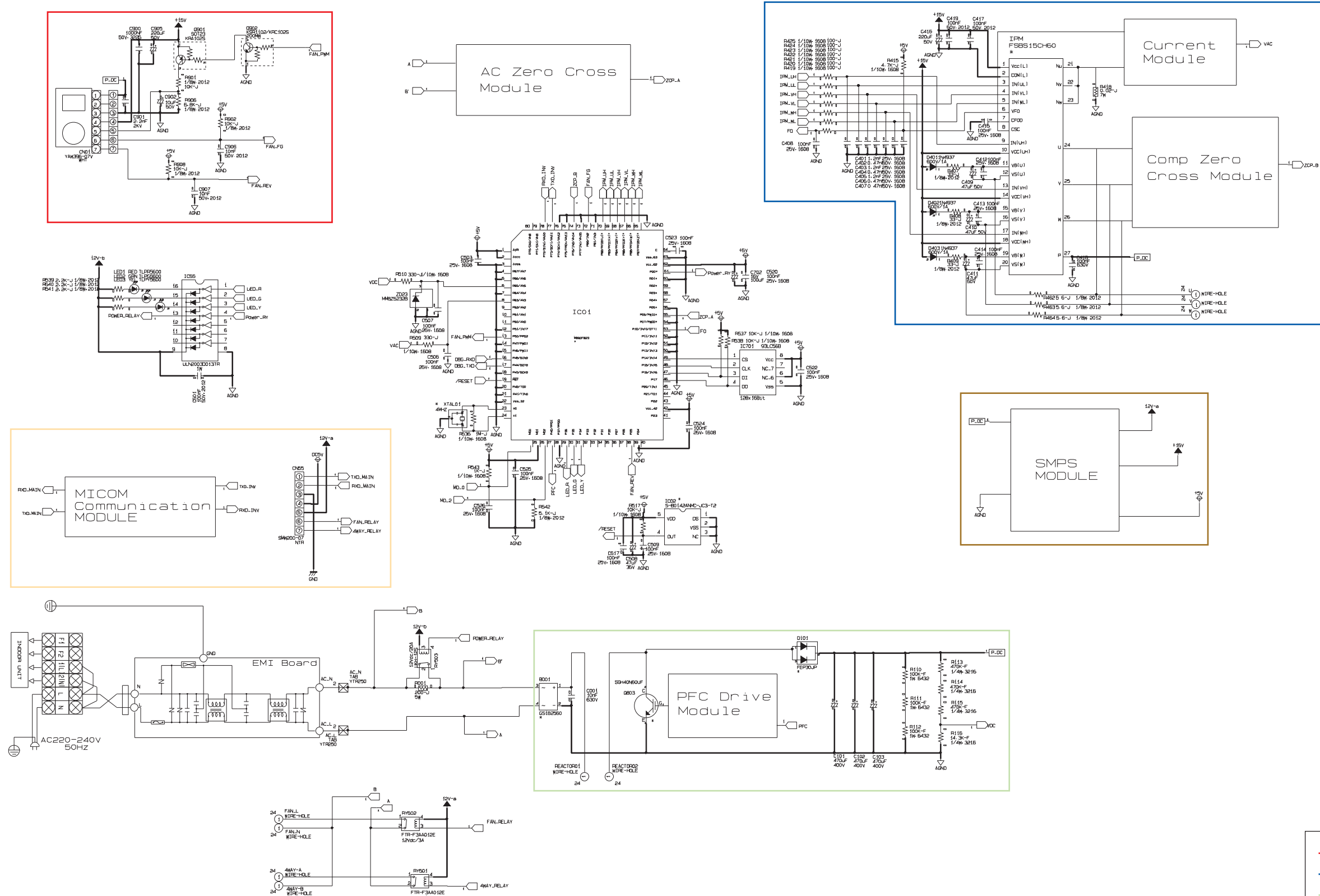
— Display LED Part
— Remocon Signal Receiving Module

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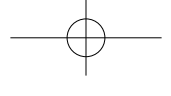


8-2 Outdoor Unit

■ INVERTER



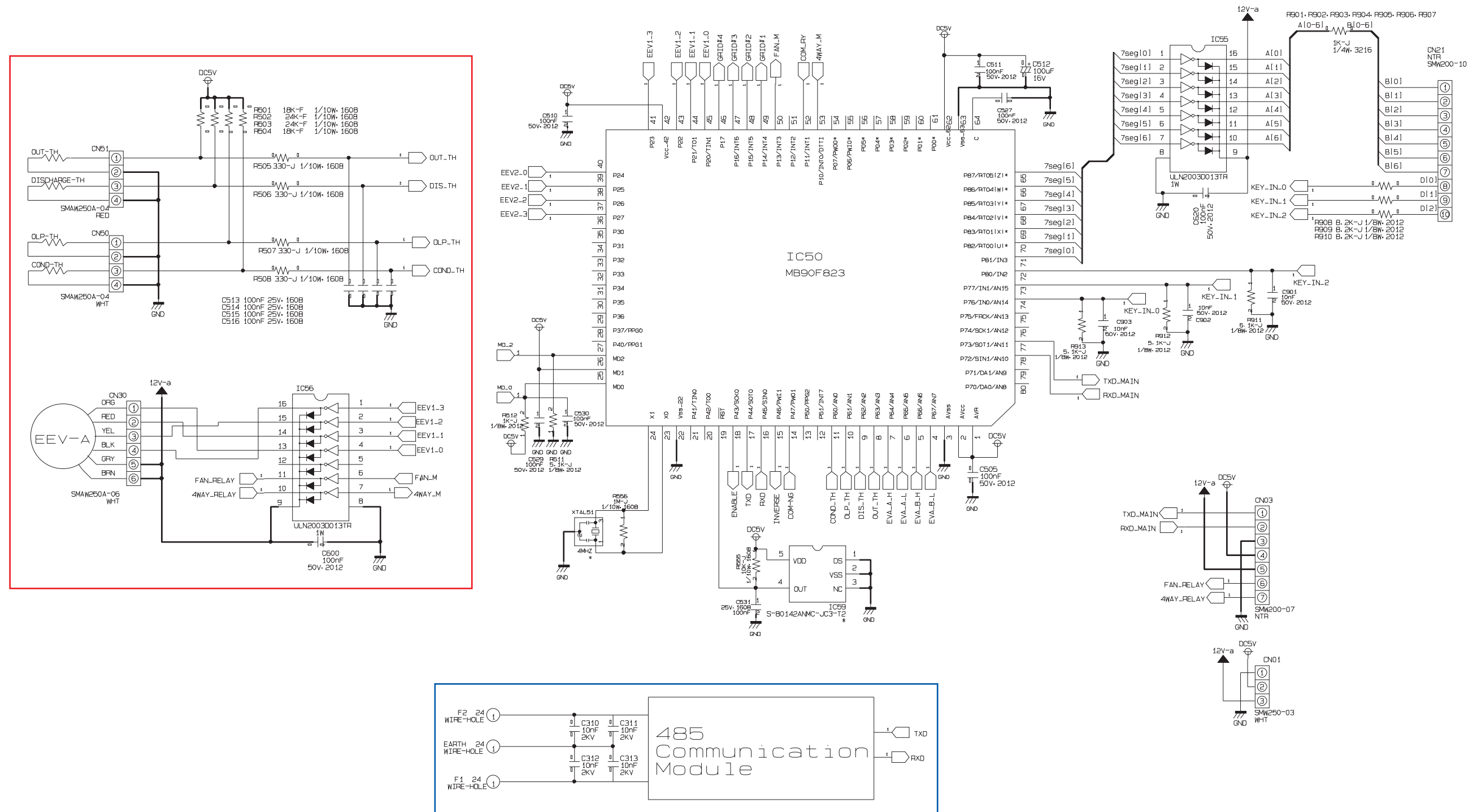
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Schematic Diagram

Schematic Diagram

■ INVERTER (cont.)



— Temp. Sensor Part & EEV part
— 485 Communication Circuit Part

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9. Reference Sheet

9-1 Index for Model Name

* Project model code for New Built-in Product.

Model Code

S H 0 3 5 E A V 1 / Buyer code

Product Type(I)			
Indoor Unit & Outdoor Unit	Cassette	1 way	K
		Slim 1 way	S
		2 way	G
		4 way	C
		Mini 4 way	T
	Duct	Silhouette	D
		HSP	H
		LSP	L
		Built-in	B
	Ceiling	-	F
Universal Outdoor Unit(DPM)	Console	-	N
	PAC	-	P
	Split	-	W

Capacity	
BTU	kwx10
9K	26
12K	35
14K	40
18K	52
21K	60
24K	70
28K	82
32K	94
36K	105
44K	128
48K	140
60K	175
72K	210
80K	230
96K	280

Product Type(II)		
Normal	Indoor	A
	Outdoor	X
Universal (DPM)	Indoor	M
	Outdoor	M
Inverter		V

Plant	
SEC	None
SSEC	C
TSE	T

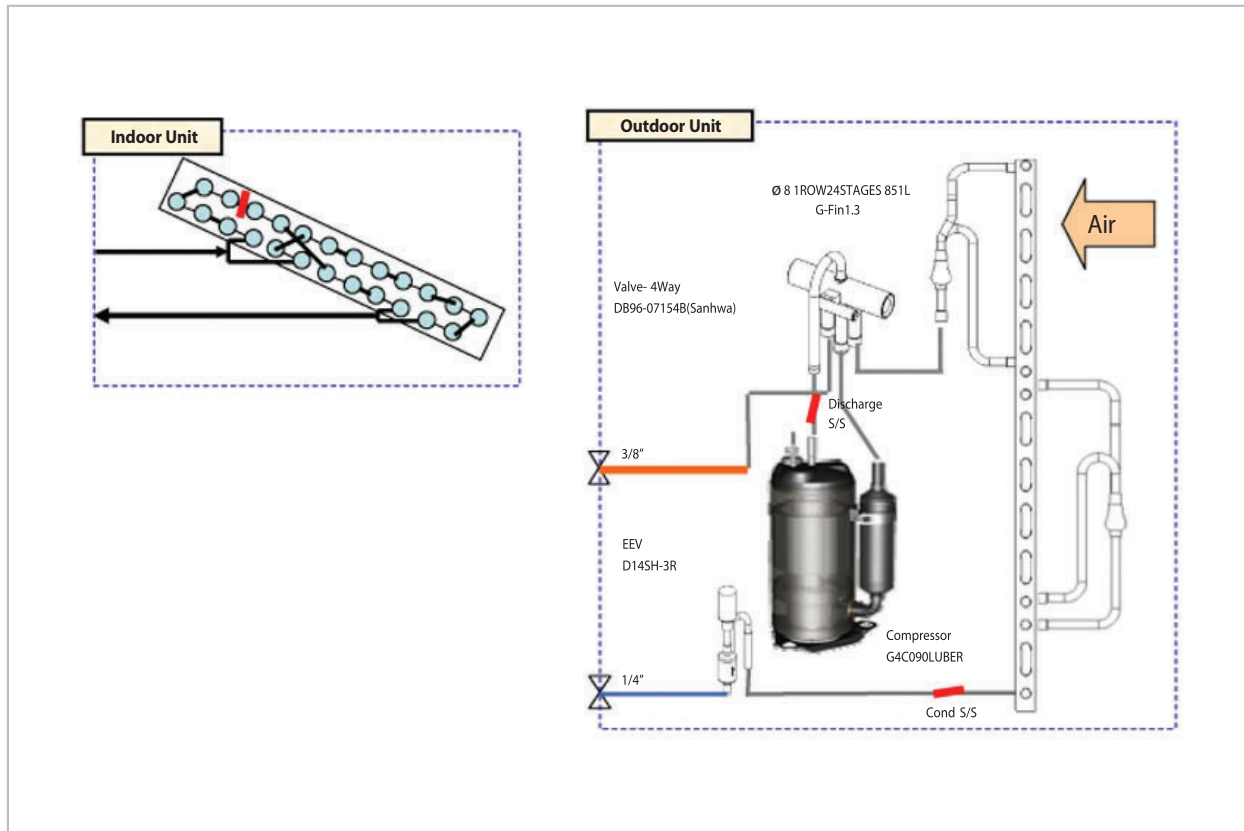
Refrigerant	
R-22	Z
R407C	C
R410A	A

Power Supply		
Normal	N	H
115V,60Hz	A	-
220V,60Hz	B	TB
208~230V,60Hz	C	-
200~220V,50Hz	D	-
220~240V,50Hz	E	TE
220V,60Hz,3ø	F	TF
380~415V,50Hz,3ø	G	TG
127V, 50Hz	H	-
220~240V,50/60Hz,1ø	M	-
380V,60Hz,3ø	H	-
Inverter 1ø	V	
Inverter 3ø	W	

Mode	
C/O	C
H/P	H
H/P+Heater	E
C/O+Heater	G
C/O+Hydronic	N

Version

9-2 Refrigerating Cycle Diagram



● Condenser

Gas refrigerant discharged from the compressor is cooled down in the condenser of the outdoor unit by means of thermal emission and turned into a liquid refrigerant before being sent to the evaporator.

● Compressor

It compresses the low-temperature, low-pressure refrigerant to let it flow to the Cycle.

● Evaporator

As the liquid refrigerant that has been absorbed via capillary tubes evaporates (from liquid to gas), it absorbs heat from the surroundings, thereby cooling the indoor area.

● Service Valve

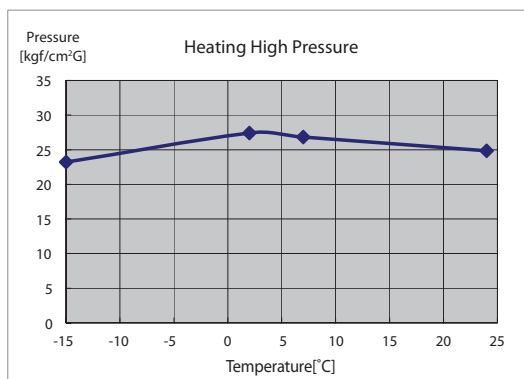
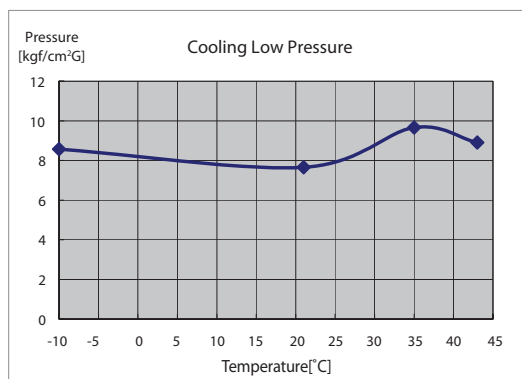
Using a hex wrench, turn the needle valve counterclockwise to open the valve. It is used for vacuuming, gas drain, refrigerant injection, refrigerant purge, and indoor-outdoor units connection.

● Accumulator

It prevents liquid refrigerant from flowing into the compressor.
(If liquid refrigerant enters the compressor, it becomes overloaded)

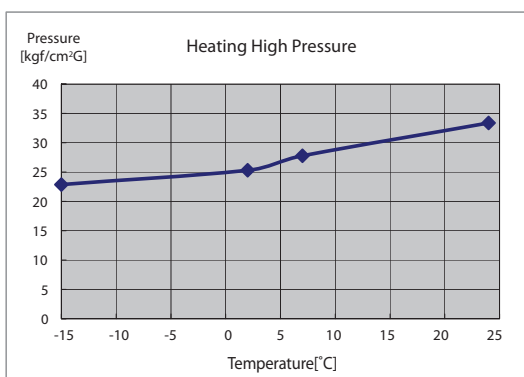
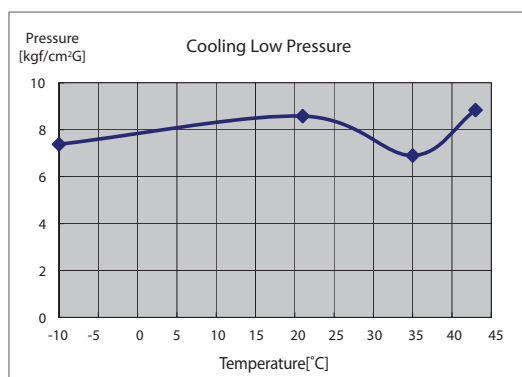
9-3 Pressure Graph

■ SH026EAV1

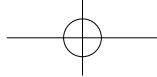


	Cooling			
Temperature	-10	21	35	43
Low pressure	8.57	7.65	9.66	8.9
	Heating			
Temperature	-15	2	7	24
High pressure	23.2	27.4	26.84	24.85

■ SH035EAV1



	Cooling			
Temperature	-10	21	35	43
Low pressure	7.38	8.58	6.9	8.84
	Heating			
Temperature	-15	2	7	24
High pressure	22.86	25.3	27.78	33.37



GSPN(Global Service Partner Network)

Area	Web Site
North America	http://service.samsungportal.com
Latin America	http://latin.samsungportal.com
CIS	http://cis.samsungportal.com
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China	http://china.samsungportal.com
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