

SYSTEM AIR CONDITIONER

OUTDOOR UNIT

Model: AC026MNADKH/EU AC035MNADKH/EU AC052MNADKH/EU AC071MNADKH/EU AC026MXADKH/EU AC035MXADKH/EU AC052MXADKH/EU AC071MXADKH/EU

SERVICE Manual





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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.

When repairing the equipment, connection of the harness parts must be firm and solid.

- A loose connection may cause noise or other malfunction.

- When assembling and disassembling the equipment while it is laid down, lay it on soft cloth.
 Otherwise it may scratch the back of the exterior of the product.
- Remove dust or dirt completely from the housing block, wiring block and service parts during repair.
 This helps prevent the danger of fire caused by tracking or short circuit.

+Fasten the valve caps of service valves and charging valves of outdoor unit as much as possible using adjustable wrenches.

- ♦Check the status of the components' assembly after repair service.
 - The status must be the same as before the repair service.

1-2 Precautions related to static electricity and PL

- The PCB power supply block is susceptible to static electricity. Therefore, care must be taken during repair or measuring while the power is on.
 - Wear insulation gloves for PCB repair or measuring.
- Check whether the installation location is at least two meters away from other electronic products such as TV, video, or audio.
 - Otherwise, the video quality might be degraded or noise might be generated.
- Do not let end users repair the products themselves.

- Unauthorized disassembly might cause electric shock or fire.

1-3 Precautions related to product safety

- Do not pull the power cord and do not touch the power plug or aux power switch with wet hands.
 It might cause electric shock or fire.
- A damaged power line or power plug must be replaced to prevent danger.
- Do not bend the power cable with excessive force, and do not place a heavy weight on the case as it might damage the cable.

- It might cause electric shock or fire.

- Do not use multiple electric outlets.
 This might cause electric shock or fire.
- Connect the ground terminal when necessary.
 You must connect the ground terminal if you determine that there is a danger of electric leakage due to moisture or water.
- Unplug the power cable or turn off the auxiliary power switch for electric part replacement and repair service.
 Otherwise it might cause electric shock.
- Instruct end users to separate the batteries from the remote controllers and store them separately when the product is not used for long time.
 - Otherwise leakage from the dry cell may cause problems with the remote controller.

1-4 Other precautions

- The pipes should have no leaks during installation, and the compressor must be stopped before removing connecting pipes for pump down work. Operating the compressor while the service valve is open and coolant pipe is not properly connected may cause explosion or injury due to abnormal high pressure created inside the coolant cycle as the air can be absorbed through the pipe.
- Pump Down work procedure (When uninstalling the product)
 - Turn on the air conditioner, select cooling operation, and run the compressor for more than three minutes.
 - Release the high pressure and low pressure valve caps.
 - Close the high pressure valve completely using an L-wrench
 - After about two minutes, close the low pressure valve completely.
 - Stop running the air conditioner.
 - Separate the connecting pipe.

2. Product Specifications

2-1 The Feature of Product

♦ Built-in Cassette Type

After installed, the air conditioner can be harmonized with a room interior.

• High Performance & Energy Saving

With the advanced BLDC inverter technology, it makes a room cool with highly energy saving and arises the efficiency of air conditioner.

Long Ambient Operation(In Low Temperature)

It can arise the reliability and the capacity of the air conditioner, especially operated in low temperature.

- Eco-friendly Product(Lead-Free, ROHS, WEEE)
- Easy installation of ultra-lightweight indoor unit

2-2 Product Specifications

		ITEM		AC026MNADKH AC026MXADKH	AC035MNADKH AC035JXSCEH/EU
	Indoor Unit Outdoor Unit				
IMAGE					
		Remote Controller			
Power		Product		1Ф, 220~240V, 50Hz	1Ф, 220~240V, 50Hz
Indoor		LxHxD	mm	750*246*249	750*246*249
Outdoor		LxHxD	mm	790*285*548	790*285*548
Indoor		Product	kg(Net)	7.9	7.9
Outdoor		Product	kg(Net)	36.2	36.2
	Cooling(STD)		W	2,600	3,500
Capacity	Heating(STD)		W	3,300	4,000
Power	Cooling(STD)		W	740	1,100
Consumption	Heating(STD)		W	1,000	1,600
Operation	Cc	oling(STD)	А	4.1	5.6
current	He	ating(STD)	А	5	7.1
Noise (Cooling/	Indoor unit	In case of strongest air blow	dBA	43/43	43/43
Heating)	Outdoor unit	In case of strongest air blow	dBA	51/51	53/53
	Refrigerant (R4		g	1,050	1,050
C	ting Dire	Liquid	mm	6.35	6.35
Connecting Pipe Gas			mm	9.52	9.52
Additional Refrigerant (R410A)			g/m	Chargeless	Chargeless
Standard			m	5	5
Extension length(Total)			m	20	20
Extension length(Elevation)			m	15	15
Option Code			Product Option	01007F-191448-271A21-371100	01007F-19548C-272328-371100
Option Code			Installation Option	020000-100000-200000-300000	020000-100000-200000-300000

		ITEM		AC052MNADKH AC052MXADKH	AC071MNADKH AC071JXSCEH/EU
	Indoor Unit Outdoor Unit			Arman Arman	
IMAGE					
	Remote Controller				
Power		Product		1Ф, 220~240V, 50Hz	1Ф, 220~240V, 50Hz
Indoor		LxHxD	mm	896*261*261	1065*294*301
Outdoor		LxHxD	mm	880*310*638	880*310*798
Indoor		Product	kg(Net)	10.6	14.5
Outdoor		Product	kg(Net)	44.5	55
Conscitu	Cooling(STD)		W	5,000	7,100
Capacity	Heating(STD)		W	6,000	8,000
Power	Cooling(STD)		W	2,200	2,520
Consumption	Heating(STD)		W	1,900	2,550
Operation	Cooling(STD)		А	9.7	11.2
current	He	eating(STD)	А	8.4	11.3
Noise (Cooling/	Indoor unit	In case of strongest air blow	dBA	48/48	51/51
Heating)	Outdoor unit	In case of strongest air blow	dBA	58/58	60/60
	Refrigerant (R4	410A)	g	1,300	1,500
Connect	ina Pipe	Liquid	mm	6.35	6.35
Connecting Pipe Gas			mm	12.7	15.88
Additional Refrigerant (R410A)			g/m	10	20
Standard			m	5	5
Extension length(Total)			m	30	50
Extension length(Elevation)			m	20	30
Option Code			Product Option	019077-19548E-27343C-371710	01027C-19547F-274750-371700
			Installation Option	020000-100000-200000-300000	020000-100000-200100-300000

2-3 Accessories

ltem	Description	Code No.	Q'ty	Remark
	Remote Control	DB93-15882F	1	
	Batteries for Remote Control	4301-000121	2	
	USER MANUAL INSTALLATION MANUAL	DB68-06495A DB68-06496A	1/1	
	Remote Control Holder	DB61-06087A	1	Essential Offer (Indoor Unit)
<uuuu)< td=""><td>M4 x 16 Tapped Screws</td><td>6002-000234</td><td>2</td><td></td></uuuu)<>	M4 x 16 Tapped Screws	6002-000234	2	
	Cap Screws	DB67-01404B	3	
	CARD WARRNATY	DB68-02596B	1	
	Drain Plug	DB67-20011A	1	
	Rubber Leg	DB67-01533A	4	Essential Offer (Outdoor Unit)
	INSTALLATION MANUAL	DB68-06488A	1	

3. Disassembly and Reassembly

♦ Necessary Tools

ltem	Remarks
+SCREW DRIVER	
Adjustable Wrench (8mm, 10mm, 13mm)	
M6, M8 Hex Wrench	

3-1 Indoor unit

No	Parts	Procedure	Remark
1	PANEL-FRONT	1) Stop the driving of air conditioner and shut off main power supply.	
		2) Detach FILTER PRE from the PANEL FRONT.	
		3) Cover Panel is assembled on bottom of indoor unit as shown in the figure. Remove the Cap Screw as shown on the right side and then remove the screw and separate the Cover Panel.	

AC026MNADKH / AC035MNADKH / AC052MNADKH / AC071MNADKH

No	Parts	Procedure	Remark	
		4) Cover Panel is fixed to body by Hook in center area and side area.	Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"boot colspan="2"Colspan="2">Colspan="2" <th colspan<="" td=""></th>	
		5) Separate the hook after pushing both end of Cover Panel as shown in the figure. (Watch out for the damage of the hook)		
		6) Raise front part upward obliquely as shown in the figure and then remove the hooks.		

No	Parts	Procedure	Remark
		 Caution: Assembly of Cover Panel after service end. Reassembly is in the reverse order of the removal. Piping and drain hose must be careful not to damage and Progress must be done with both hands. 	
			Hook (Side)
			Hook (Center)
			Screw
			Cap Screw

No	Parts	Procedure	Remark
		7) To detach the PANEL-FRONT from the main frame, unfasten 2 screws at the bottom. (use + Screw Driver)	
		 8) To detach the COVER-PANEL from the main frame, loosen 4 HOOK Structures. When separate the hook : Use the (-) screw Driver. (-) Screw Driver Insert the hook and then pull the hook as shown on the right side. 	
		(Watch out for the damage of the hook)	

No	Parts	Procedure	Remark
		9) Remove the Panel Frame from the Main Frame as shown on the right side.	

No	Parts	Procedure	Remark
2	CONTORL IN	 Lossen Sub PBA Wire. Caution: When you separate the connector, pull pressing the locking button. 	
		 2) Lossen Stepping Motor, EEV, Display, Sensor, SPI, Fuse Wire. Caution: When you separate the connector, pull pressing the locking button. 	
		 3) Lossen Motor, Terminal Wire. Caution: When you separate the connector, pull pressing the locking button. 	
		4) Loosen Earth Wire.	

No	Parts	Procedure	Remark
5	EVAPORATOR	 9) Take off the CASE-CONTROL from the main frame after loosen the remaining connector. Caution: When you separate the connector, pull pressing the locking button. 	
3	TRAY DRAIN	1) To detach TRAY-DRAIN from the main frame, pull the bottom of the TRAY-DRAIN towards you.	

No	Parts	Procedure	Remark
4	Evaporator	1) Detach the HOLDER PIPE.	
		2) Unfasten the screw at the left side. (use + Screw Driver)	
		3) Unfasten the screw at the right side. (use + Screw Driver)	
		4) To detach Evaporator from the main frame, pull the bottom of the Evaporator towards you.	

No	Parts	Procedure	Remark
5	FAN MOTOR & CROSS FAN	1) Unfasten the screw. (use + Screw Driver)	
		2) Detach the FAN Motor case.	
		3) Unfasten the screw a little. (use + Screw Driver)	
		4) Pull the CROSS-FAN to the left side.	

3-2 Outdoor unit

AC026MXADKH / AC035MXADKH

No	Parts	Procedure	Remark
1	common work	You must turn off the Power before disassembly. 1) loosen 1 pcs screw of cover control,and detach it.	
		2) loosen 5 pcs screws on both right and left cabniet side edges and to detach the cover-top	
		3) Loosen 7 screwsfixed to disassemble cabi-front , and detach it.	<image/>

No	Parts	Procedure	Remark
	common work		
		4) loosen 2 screws to disassemble steel-bar.	
		5) Loosen 2 screws to disassemble the cabi left and detach it.	

No	Parts	Procedure	Remark
	common work	6) Loosen 7 screws to disassemble the cabi right and detach it.	
2	fan&motor	1) loosen 1 screw as indication and detached the fan.	
		 2) loosen 4 pcs motor screws and disconnect the wire betwwen assy control out and motor. 3) loosen 2 pcs bracket-motor screw and 	
		detach it.	

No	Parts	Procedure	Remark
3	assy control out	1) lossen fixing 1 screw from cover -control 2) detach several connections from assy con- trol out, take out assy control out.	<image/>
4	Heat exchanger	 Release the refrigerant at first Looosen fixing screw on both side. disaessembly the pipes in both inlet and outlet with welding torch. detach the heat exchanger. 	<image/> <image/>

No	Parts	Procedure	Remark
5	compressor	 disconnect the compressor lead wire . disconnect the compressor lead wire . disconnect the felt comp sound. 	
		loosen the 3 bolts at the bottom .	

AC052MXADKH

No	Parts	Procedure	Remark
1	common work	You must turn off the Power before disassembly. 1) Loosen 1 pcs screw of cover control	
		2) Loosen 8 pcs screw of the cabi top cover.	
		3) Loosen 4 pcs screw of the bar steel.	
		4) Loosen 10 pcs screw of the cabi side front.	

No	Parts	Procedure	Remark
1	common work		
2	Fan& motor	1) Loosen the fan screw according the indication and detach the fab propeller	
		2)Disconnect the wire between assy control out and motor.	

No	Parts	Procedure	Remark
2		3) Loosen 4 pcs motor screw.	
		4) Loosen 2 pcs screw of bracket motor.	
3	Assy control out	1)Loosen the screws that connected partition and case control then get the control out.	
		2) Loosen the screw of the cover termimal	

No	Parts	Procedure	Remark
3		3) Loosen 2 screws , disassemble the Coil Harmonic.	
		4) Loosen the screw of the cover terminal.	

No	Parts	Procedure	Remark
4	Heat exchanger	 Release the refrigerant at first Loosen fixing screw on both side Disassemble the pipes in both inlet and outlet with welding torch. Detach the heat exchanger. When removing the compressor, Heat Exchanger, and Pipe, purge the Coolant inside the Compressor complete- ly and remove the pipe with a welding flame.	
5	Compressor	1)Loosen the 3 bolts at the bottom of compressor.	

AC071MXADKH

No	Parts	Procedure	Remark
1	common work	1) loosen 1 pcs screw of cover control 2) loosen 8 pcs screw of the cabi top cover.	
		3) loosen 12 pcs screw of the cabi front	
		4) loosen 7 pcs screw of the cabi side right.	

Parts	Procedure	Remark
	5)loosen 3pcs screw of the cabi side left.	<image/>
Fan & Motor	 loosen the fan screw according the indication and detach the fab propeller 2)Cut the cable-tie 	
	3)disconnect the wire betwwen assy control out and motor.	<image/>
		Fan & Motor 1) loosen the fan screw according the indication and detach the fab propeller 2)Cut the cable-tie 3)disconnect the wire betwwen assy control

No	Parts	Procedure	Remark
		4) loosen 4 pcs motor screw. 5) loosen 4 pcs screw of bracket motor	<image/>
3	assy control out	1) lossen the screw of the cover termimal	
		2)lossen the screws that connected partition and case control then pull up the control out.	

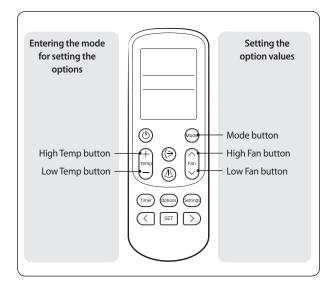
No	Parts	Procedure	Remark
4	Heat exchanger	 Release the refrigerant at first Looosen fixing screw on both side. disaessembly the pipes in both inlet and outlet with welding torch. detach the heat exchanger. 	
5	Compressor	1)loosen the 3 bolts at the bottom of compressor.	

4. Troubleshooting

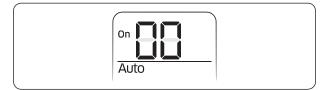
You cannot set both of the indoor unit addresses and the installation options in a batch: set both of them respectively.

4-1-1 Common steps for setting the addresses and options

MR-EC00 and MR-EH00 remote controls



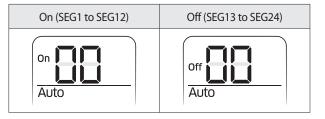
- The remote control display and buttons may vary depending on the model.
- 1 Enter the mode for setting the options:
 - a Remove the batteries from the remote control, and then insert them again.
 - b While holding down the + (High Temp) and + (Low Temp) buttons simultaneously, insert the batteries into the remote control.
 - c Make sure that you are entered to the mode for setting the options:



2 Set the option values.

- The total number of available options are 24: SEG1 to SEG24.
- Because SEG1, SEG7, SEG13, and SEG19 are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: SEG2 and SEG3 SEG4 and SEG5 SEG6 and SEG8 SEG9 and SEG10 SEG11 and SEG12 SEG14 and SEG15 SEG16 and SEG17 SEG18 and SEG20 SEG21 and SEG22 SEG23 and SEG24

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	Х	Х	Х	Х	Х
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Х	Х	Х	Х	Х
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	Х	Х	Х	Х	Х
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	Х	Х	Х	Х	Х



Take the steps presented in the following table:

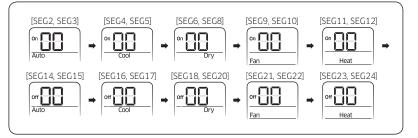
Steps	Remote control display
 Set the SEG2 and SEG3 values: a Set the SEG2 value by pressing the integration (Low Fan) butto 	
value you want to set appears on the remote control di	splay. Auto
b Set the SEG3 value by pressing the $\widehat{f_{an}}$ (High Fan) buttor value you want to set appears on the remote control di	splay.
When you press the \bigcup_{ran}^{ran} (Low Fan) or \bigcap_{ran} (High Fan) button, following order: $\Box \Rightarrow \Box \Rightarrow \cdots \equiv \Xi$	values appear in the SEG3
2 Press the (Mode) button. Cool and On appear on the re	on Cool
3 Set the SEG4 and SEG5 values:	
a Set the SEG4 value by pressing the 🔛 (Low Fan) butto value you want to set appears on the remote control di	splay.
b Set the SEG5 value by pressing the $\widehat{f_{an}}$ (High Fan) buttor value you want to set appears on the remote control di	
When you press the \bigcup_{ran}^{ran} (Low Fan) or \bigcap_{ran} (High Fan) button, following order: $\square \Rightarrow \square \Rightarrow \dots \boxdot \Rightarrow \boxdot$	
4 Press the (Mode) button. Dry and On appear on the ren	note control display.
5 Set the SEG6 and SEG8 values:	
a Set the SEG6 value by pressing the 🔄 (Low Fan) butto value you want to set appears on the remote control di	splay.
b Set the SEG8 value by pressing the 🍙 (High Fan) butto value you want to set appears on the remote control di	
When you press the \bigcup_{ran}^{ran} (Low Fan) or \bigcap_{ran} (High Fan) button, following order: $\square \Rightarrow \square \Rightarrow \dots \boxdot \Rightarrow \square$	values appear in the SEG8

	Steps	Remote control display
6 P	ress the 🐵 (Mode) button. Fan and On appear on the remote control display.	on
	et the SEG9 and SEG10 values:	
;	a Set the SEG9 value by pressing the 🐯 (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	On Fan
	b Set the SEG10 value by pressing the \bigcap_{Ran} (High Fan) button repeatedly until the value you want to set appears on the remote control display.	On
	Vhen you press the $\bigcup_{n=0}^{log}$ (Low Fan) or $\bigcap_{n=0}^{log}$ (High Fan) button, values appear in the ollowing order: $\square \Rightarrow \square \Rightarrow \dots \boxdot \Rightarrow \blacksquare$	Fan SEG10
8 P	ress the (Mode) button. Heat and On appear on the remote control display.	On Heat
9 S	et the SEG11 and SEG12 values:	
	a Set the SEG11 value by pressing the 🔛 (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	On Heat
	b Set the SEG12 value by pressing the $\widehat{F_{an}}$ (High Fan) button repeatedly until the value you want to set appears on the remote control display.	On
	Vhen you press the 🔄 (Low Fan) or 🍙 (High Fan) button, values appear in the ollowing order: 🖁 → 🗄 → … E → 🗄	Heat SEG12
10 P	ress the (Mode) button. Auto and Off appear on the remote control display.	off Auto
11 S	et the SEG14 and SEG15 values:	
;	a Set the SEG14 value by pressing the 💮 (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	Off Auto
		SEG14

Steps	Remote control display
b Set the SEG15 value by pressing the $\widehat{F_{an}}$ (High Fan) button repeatedly until the value you want to set appears on the remote control display.	off Auto
When you press the $\bigcup_{n \to \infty}^{lm}$ (Low Fan) or \bigcap_{ran} (High Fan) button, values appear in the following order: $\mathbb{B} \Rightarrow \mathbb{H} \Rightarrow \cdots \mathbb{E} \Rightarrow \mathbb{E}$	SEG15
1 Press the (Mode) button. Cool and Off appear on the remote control display.	Off Cool
2 Set the SEG16 and SEG17 values:	
a Set the SEG16 value by pressing the 🔛 (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	Off Cool
	SEG16
b Set the SEG17 value by pressing the 🖳 (High Fan) button repeatedly until the value you want to set appears on the remote control display.	
When you press the \bigcup_{ran}^{ran} (Low Fan) or \bigcap_{ran} (High Fan) button, values appear in the following order: $\square \Rightarrow \square \Rightarrow \dots \blacksquare \Rightarrow \blacksquare$	SEG17
3 Press the (Mode) button. Dry and Off appear on the remote control display.	Off Dry
4 Set the SEG18 and SEG20 values:	
a Set the SEG18 value by pressing the 🔛 (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	Off Dry
	SEG18
b Set the SEG20 value by pressing the (Righ Fan) button repeatedly until the value you want to set appears on the remote control display.	
When you press the $\bigcup_{n \to \infty}^{\text{Fan}}$ (Low Fan) or \bigcap_{Fan} (High Fan) button, values appear in the following order: $\square \Rightarrow \square \Rightarrow \dots \blacksquare \Rightarrow \square$	SEG20
5 Press the (Mode) button. Fan and Off appear on the remote control display.	off Fan

	Steps	Remote control display
6	Set the SEG21 and SEG22 values: a Set the SEG21 value by pressing the Second Control Control display. Set the SEG21 value by pressing the Second Control display.	off Fan
	b Set the SEG22 value by pressing the $\widehat{f_{Fan}}$ (High Fan) button repeatedly until the value you want to set appears on the remote control display.	SEG21
	When you press the 🔄 (Low Fan) or 🍙 (High Fan) button, values appear in the following order: 🛾 → 🗄 → … 🗄 → Բ	SEG22
7	Press the 🞯 (Mode) button. Heat and Off appear on the remote control display.	off Heat
8	 Set the SEG23 and SEG24 values: a Set the SEG23 value by pressing the (Interpretent of the Value you want to set appears on the remote control display. 	Off Heat SEG23
	b Set the SEG24 value by pressing the $\widehat{f_{ran}}$ (High Fan) button repeatedly until the value you want to set appears on the remote control display.	
	When you press the $\bigcup_{i=1}^{l}$ (Low Fan) or \bigcap_{real} (High Fan) button, values appear in the following order: $\square \Rightarrow \square \Rightarrow \cdots \square \Rightarrow \square$	Heat SEG24

3 Check whether the option values that you have set are correct by pressing the 😡 (Mode) button repeatedly



4 Save the option values into the indoor unit:

Point the remote control to the remote control sensor on the indoor unit and then press the () (Power) button on the remote control twice. Make sure that this command is received by the indoor unit. When it is successfully received, you can hear a short sound from the indoor unit. If the command is not received, press the () (Power) button again.

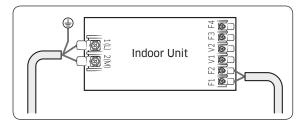
- 1 Check whether the air conditioner operates in accordance with the option values you have set:
 - a Reset the indoor or outdoor unit.
 - Indoor unit : Press the SET (Set) and 🔄 (Low Fan) buttons on the remote control simultaneously for 4 seconds.
 - Outdoor unit : Press the K3 button.
 - b Remove the batteries from the remote control, insert them again, and then press the 🕲 (Power) button on the remote control.

4-1-2 Setting the indoor unit addresses

Option No. for an indoor unit address: 0AXXXX-1XXXXX-2XXXXX-3XXXXX

Before installing an indoor unit, be sure to set an address for the indoor unit by taking the following steps:

1 Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.



- 2 Set an address for each indoor unit using the remote control, according to your air conditioning system plan, by referring to the following table and by following the steps in **Common steps for setting the addresses and options** on page <?>.
 - The indoor unit addresses (main and RMC addresses) are set to 0A0000-100000-200000-300000 by default.
 - If indoor units and outdoor units match 1:1, you don't need to set the main address because it is automatically set by the outdoor unit.
 - If you are using on or off controller, set RMC address.

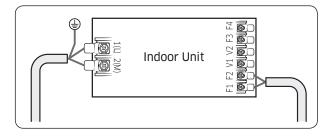
Option	SEG	G1	SEC	G2	S	EG3	SEG4	SEG	5	SEG6			
Function	Pa	ge	Мо	de	Setting n	nain address				Indoor numb			
	Indication	Details	Indication	Details	Indication	Details						Indication	Details
Indication and details		.				No main address	Reserved	Reserved		0 to 9	Units		
	0		A		1	Main address setting mode				0109	digit		
Option	SEG	G7	SEC	SEG8 S		EG9	SEG10	SEG11		SEG12			
Function	Pa	ge		Settin		Setting RMC address		Group channel (x16)		Group address			
	Indication	Details			Indication	Details		Indication	Details	Indication	Details		
Indication and details	1			Reserved		No RMC address	Reserved		0 to 2	DMC2	0 to F		
	1				1	RMC address setting mode		RMC1	0102	RMC2			

- The main address must be set to a value in the range 0 to 14. If you set other values, communication error will occur.
- If any of SEG5 and SEG6 is set to a value in the range A to F, the main address of the indoor unit does not change.
- If SEG3 is set to 0, the indoor unit maintains the existing main address even if SEG6 is set to a new value.
- If SEG9 is set 0, the indoor unit maintains the existing RMC address even if SEG11 and SET12 are set to new values.

4-1-3 Setting the installation options in a batch

Option No. for an indoor unit address: 02XXXX-1XXXXX-2XXXXX-3XXXXX

1 Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.



- 2 Set the installation options of indoor units, by referring to the following table and by following the steps in **Common** steps for setting the addresses and options on page <?>.
 - The installation options of indoor units are set to 020000-100000-200000-300000 by default.
 - The SEG20 option, Individual control with remote control, allows you to control multiple indoor units individually by using the remote control.

Option	SEC	51		SEG2	SEG3	SE	G4	SE	G5		SEG6	
Function	Page		I	Mode		temp	external erature nsor		central itrol		sation of the n RPM	
	Indication	Details	Indication	Details		Indication	Details	Indication	Details	Indication	Details	
					-	Reserved	0	Disuse	e O	Disuse	0	Disuse (recessed installation)
Indication and details	0	0 2	1	High-ceiling mode (recessed installation)								
								4	Disuse (exposed installation)			
				1	Use		1	Use	5	High-ceiling mode (exposed installation)		

Option	SEG7		SEG8		SE	G9	SEG	10	SEC	511	SEG	SEG12	
Function	Page	Use c	of drain pu	ump									
	Indication Details	Indication	Det	ails									
		0	Disi	use									
Indication		1	Us	ie i	Rese	rved	Reser	ved	Reserved		Reserved		
and details	1	2	Use w minute										
Option	SEG13		SEG14		SEC	515	SEG	16	SEC	517	SEG	G18	
Function	Page	Use of e	external c	ontrol	Settin outp external	ut of	S-Plasn	na ion	Buzzer	control		um filter e time	
	Indication Details	Indication	Det	ails	Indication	Details	Indication	Details	Indication	Details	Indication	Details	
		0	Disuse					Disuse					
	2	1	On/Off control	Slave		Thermo on			0		2	1000 hours	
		2	Off control	(disable Level control*)	0		0			Use of buzzer			
Indication and details		3	Window on/off control										
		4	Disuse	Master (enable Level control*)									
		5	On/Off control		1	Operation on	1		1	Disuse of buzzer	6	2000 hours	
		6	Off control					Use					
		7	Window on/off control										
Option	SEG19		SEG20		SEC	521	SEG	22	SEC	523	SEG	G24	
Function	Page		ual contro note contr		Heating compe							time of ing	
	Indication Details	Indication	Det	ails	Indication	Details					Indication	Details	
		0 or 1	Indo	or 1	0	Default	Reser	ved	Reserved		0	34 seconds (default)	
Indication and details	3	2	Indo	or 2	1	1 2°C		1				30 seconds	
		3	Indo	or 3	n	5°C					- -	38	
		4	Indo	or 4	2	50					2	seconds	

- Even if you set the Use of drain pump (SEG8) option to 0, it is automatically set to 2 (the drain pump is used with 3 minute delay).
- If you set the Maximum filter usage time (SEG18) option to a value other than 2 and 6, it is automatically set to 2 (1000 hours).
- If you set the Individual control with remote control (SEG20) option to a value other than 0 to 4, it is automatically set to 0 (Indoor 1).
- Default value of Heating setting compensation (SEG21) is 5°C for 360 cassette model.
- * Level control: The centralized controller can limit the functions and inputs of connected products with this function enabled. (Example: Operation mode limit (Cooling only/Heating only/No limitation), Heating temperature upper limit, Cooling temperature lower limit) To enable 'Level control' when applying the DPM with the centralized controller, appoint the master (Set 'Use of external control [SEG14] option to 4 or higher).

Example: When installing DPM (1 Outdoor unit with 4 indoor units)

Conditi	on		SEG14		Docult	
External control	Level control	Indoor 1	Indoor 2	Indoor 3	Indoor 4	Result
Defau	lt		Not s	Slave (All)		
Disuse	Use	4	Not set (0)	Not set (0)	Not set (0)	Master (Indoor 1), Slave (Indoor 2,3,4)
Use (Indoor 3)	Disuse	Not set (0)	Not set (0)	1~3	Not set (0)	Slave (All)
Use (Indoor 4)	Use	Not set (0)	Not set (0)	Not set (0)	5~7	Master (Indoor 4), Slave (Indoor 1,2,3)

4-1-4 Changing the addresses and options individually

When you want to change the value of a specific option, refer to the following table and follow the steps in **Common** steps for setting the addresses and options on page <?>.

Option	SEG1		SEG	52	SEG	i3	SEC	54	SEG	5	SEC	36
Function	Page		Мос	Mode Option mode to change		Tens position of the option number		Units position of the option number		New value		
	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
Indication and details	0		D		Option type	0 to F	Tens position value	0 to 9	Units position value	0 to 9	New value	0 to F

Example: Changing the Buzzer control (SEG17) option of the installation options to 1 disuse.

Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Function	Page	Mode	Option mode to change	Tens position of the option number	Units position of the option number	New value
Indication	0	D	2	1	7	1

Detection of errors

- If an error occurs during the operation, an LED flickers and the operation is stopped except the LED.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.
- If you turn off the air conditioner when the LED is flickering, the LED is also turned off.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.
- When E108 error occurs, change the address and reset the system.Ex.) When address of the indoor unit #1 and #2 are set as 5, address of the indoor unit #1 will become 5 and indoor unit #2 will display E108, A002.

• On • Flickering × Off

		ļ	LED Displa	Y
Abnormal condition	Error code			TURBO
Error on indoor temperature sensor (Short or Open)	E121	×	•	X
 Error on Eva-in sensor (Short or Open) Error on Eva-out sensor (Short or Open) Discharge sensor error (Short or Open) 	E122 E123 E126	•	•	×
Indoor fan error	E154	\times	×	•
 Error on outdoor temperature sensor (Short or Open) Error on cond sensor Error on discharge sensor Other outdoor unit sensor error that is not on the above list 	E221 E237 E251	•	×	٩
 When there is no communication between the indoor •outdoor units for 2 minutes Communication error received from the outdoor unit 3 miniute tracking error on outdoor unit Communication error after tracking due to unmatching number of installed units Error due to repeated communication address Communication address not confirmed Other outdoor unit communication error that is not on the above list 	E101 E102 E202 E201 E108 E109	×	•	•
 Self diagnosis error display 1. Error due to opened EEV (2nd detection) 2. Error due to closed EEV (2nd detection) 3. Eva in sensor is detached 4. Eva out sensor is detached 5. Thermal fuse error (Open) 	E151 E152 E128 E129 E198	•	٩	٦
 COND mid sensor is detached Refrigerant leakage (2nd detection) Abnomally high temperature on Cond (2nd detection) Low pressure s/w (2nd detection) Abnomally high temperature on discharged air on outdoor unit (2nd detection) Abnomally high temperature on discharged air on outdoor unit Indoor operation stop due to unconfirmed error on outdoor unit Error due to reverse phase detection Comp stop due to freeze detection (6th detection) High pressure sensor is detached Low pressure sensor is detached Outdoor unit copression ration error Outdoor sump down_1 prevetion control Compressor down due to low pressure sensor prevention control_1 Simultaneous opening of cooling/heating MCU SOL valve (1st detection) Simultaneous opening of cooling/heating MCU SOL valve (2nd detection) Other outdoor unit self-diagnosis error that is not on the above list 	E241 E554 E450 E451 E416 E559 E425 E403 E301 E306 E428 E413 E410 E180 E181	•	•	•
EEPROM error	E162	•	•	•
EEPROM option error	E163	•	•	•

4-2 Troubleshooting for outdoor unit

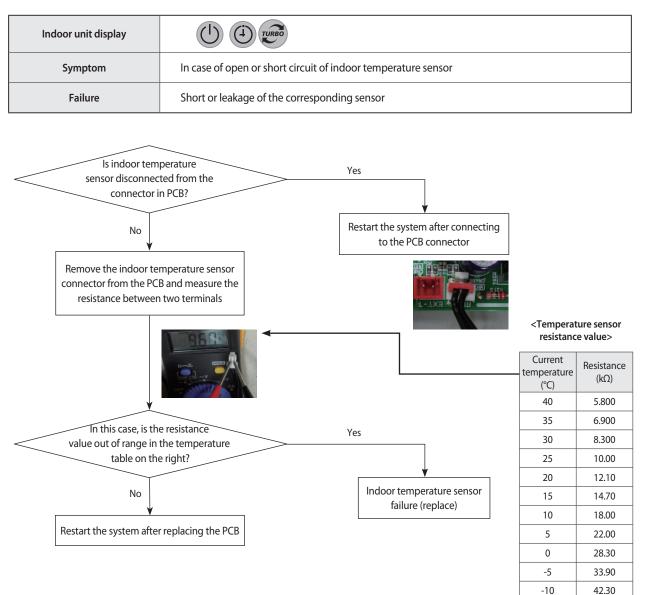
The table below list the self-diagnostic routines. For some of error codes, you must contact an authorized service centre. If an error occurs during the operation, it is displayed on the outdoor unit PCB LED, both MAIN PCB and INVERTER PCB.

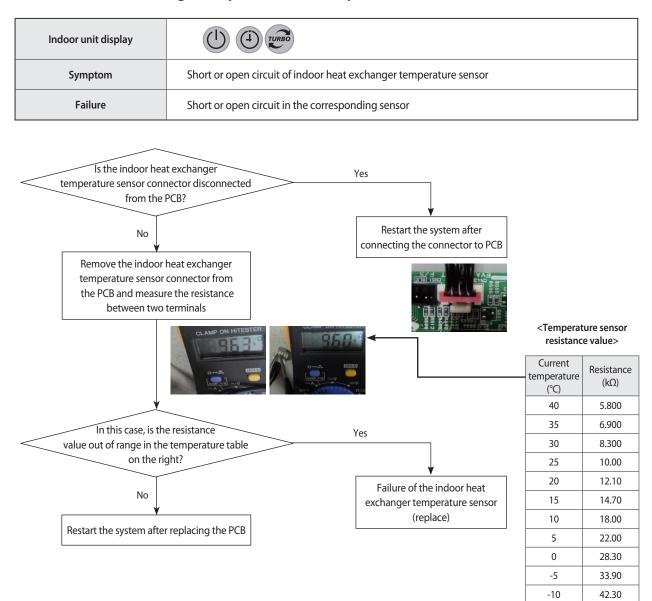
No.	Error Code	Meaning	Remarks
1	E108	Error due to duplicated communication address	Check on repeated indoor unit main address
2	E121	Error on room temperature sensor of indoor unit (Short or Open)	Indoor unit Room Thermistor Open/Short
3	E122	Error on EVA IN sensor of indoor unit (Short or Open)	Indoor unit EVA_IN Thermistor Open/Short
4	E123	Error on EVA OUT sensor of indoor unit (Short or Open)	Indoor unit EVA_OUT Thermistor Open/Short
5	E153	Error on float switch (2nd detection)	Indoor unit Float Switch Open/Short Drain Pump operation Check
6	E154	Indoor fan error	Check on indoor unit indoor Fan operation
7	E198	Error on thermal fuse of indoor unit (Open)	Thermal Fuse Open Check of indoor unit Terminal Block
8	E201	Communication error between the indoor unit and outdoor unit (Pre-tracking failure or when the actual number of indoor units are different from the indoor unit quantity setting on the outdoor unit) Error due to communication tracking failure after initial power is supplied (The error occurs regardless of the number of units.)	Check indoor quantity setting in outdoor
9	E202	Communication error between indoor unit and outdoor unit (When there is no response from indoor units after tracking is completed)	Check electrical connection and setting between indoor unit and outdoor unit
10	E203	Communication error between the outdoor unit and main micom (For PF #4 to #6 controllers, error will be determined from the time when the compressor is turned on.)	Check electrical connection and setting between indoor unit MAIN PBA - INVERTER PBA
11	E221	Error on outdoor temperature sensor (Short or Open)	Check Outdoor sensor Open / Short
12	E231	Error on outdoor COND OUT sensor (Short or Open)	Check Cond-Out sensor Open / Short
13	E251	Error on discharge temperature sensor of compressor 1 (Short or Open)	Check Discharge sensor Open / Short
14	E320	Error on OLP sensor (Short or Open)	Check OLP sensor Open / Short
15	E403	Compressor down due to freeze protection control	Check Outdoor Cond.
16	E404	System stop due to overload protection control	Check Comp. when it starts
17	E416	System stop due to discharge temperature	-
18	E422	Blockage detected on high pressure pipe	 Check if the service valve is open Check for refrigerant leakage (pipe connections, heat exchanger) and charge refrigerant if necessary Check if there's any blockage on the refrigerant cycle (indoor unit/outdoor unit) Check if additional refrigerant has been added after pipe extension
19	E425	Reverse phase or open phase	Check whether 3 phase is reversed or opened.
20	E440	Heating operation restricted at outdoor temperature over Theat_high value	HEATING
21	E441	Cooling operation restricted at outdoor temperature below Tcool_low value	COOLING
22	E458	Fan speed error	FAN1 ERROR

No.	Error Code	Meaning	Remarks
23	E461	Error due to operation failure of inverter compressor	-
24	E462	System stop due to full current control	-
25	E463	Over current trip / PFC over current error	Check OLP sensor
26	E464	IPM Over Current(O.C)	IPM
27	E465	Comp. Over load error	-
28	E466	DC-Link voltage under/over error	Check AC Power and DC Link Voltage
29	E467	Error due to abnormal rotation of the compressor or unconnected wire of compressor	Check Comp wire
30	E468	Error on current sensor (Short or Open)	Check Outdoor Inverter PBA.
31	E469	Error on DC-Link voltage sensor (Short or Open)	-
32	E470	Outdoor unit EEPROM Read/Write error (Option)	Check Outdoor EEPROM Data
33	E471	Outdoor unit EEPROM Read/Write error (H/W)	Check Outdoor EEPROM PBA
34	E472	AC Line Zero Cross Signal out	-
35	E473	Comp Lock error	-
36	E474	Error on IPM Heat Sink sensor of inverter 1 (Short or Open)	Check Outdoor Inverter PBA.
37	E475	Error on inverter fan 2	FAN2 ERROR
38	E484	PFC Overload (Over current) Error	Check Outdoor Inverter PBA.
39	E485	Error on input current sensor of inverter 1 (Short or Open)	Check Outdoor EEPROM PBA
40	E500	IPM over heat error on inverter 1	Check Outdoor Inverter PBA.
41	E508	Smart install is not installed	-
42	E554	Gas leak detected	Check the refrigerant
43	E556	Error due to mismatching capacity of indoor and outdoor unit	Check the indoor and outdoor unit capacity
45	E590	Inverter EEPROM Checksum error	-
46	E660	Inverter Boot Code error	-

4-3 Troubleshooting by symptoms

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

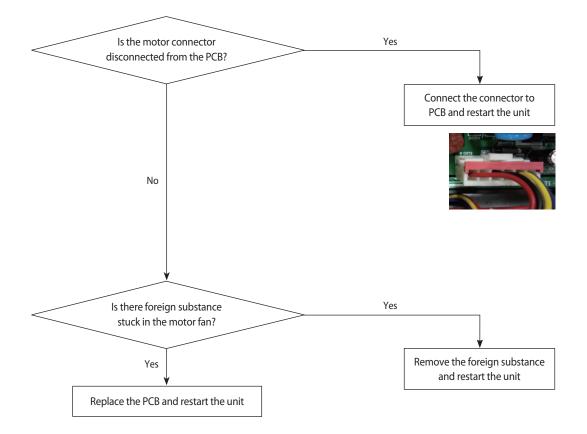




4-3-2 Indoor heat exchanger temperature sensor (open/short)

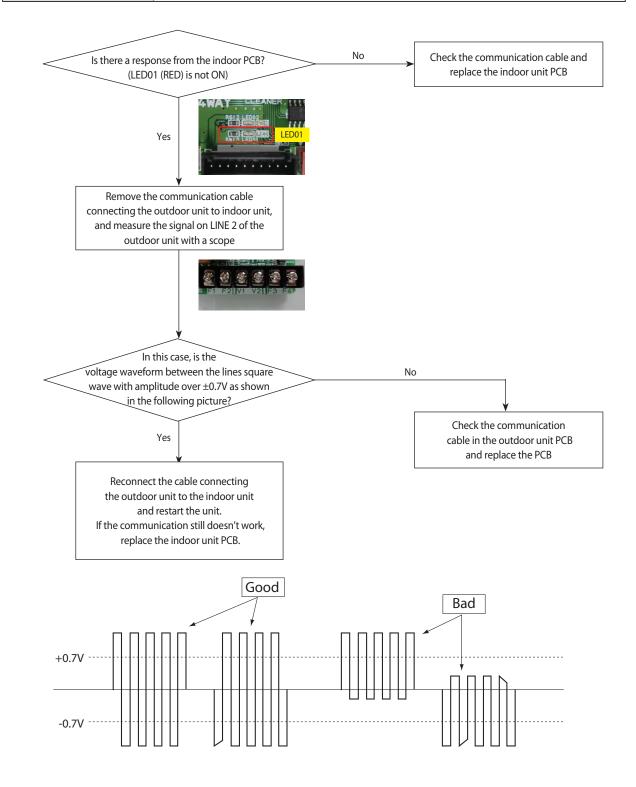
4-3-3 Indoor FAN error

Indoor unit display	(1) (1) LINEO
Symptom	Indoor unit fan does not run /Runs at excessive high speed and stops
Failure	Check if the motor connector is disconnected/ check the motor fan assembly status

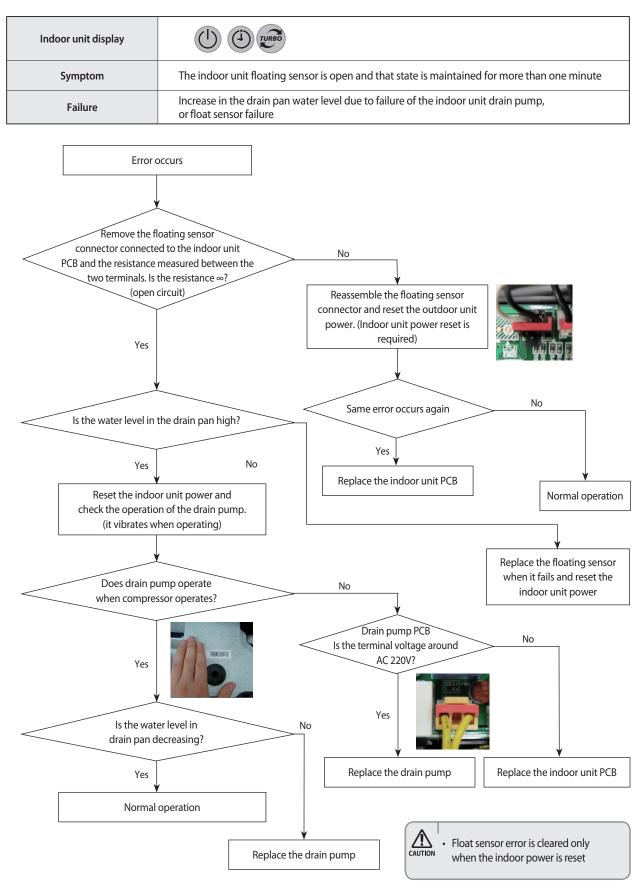


4-3-4 Communication error after finishing Tracking

Indoor unit display	U I TURBO
Symptom	Communication error between the indoor and outdoor unit for two minutes
Failure	Communication error between the indoor unit and outdoor unit

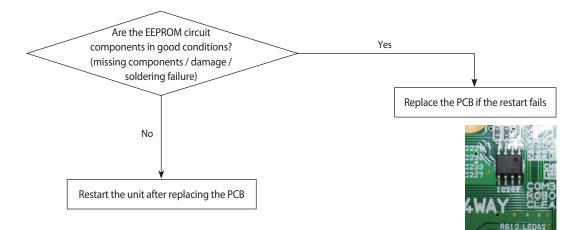


4-3-5 Indoor unit float sensor error



4-3-6 EEPROM circuit failure

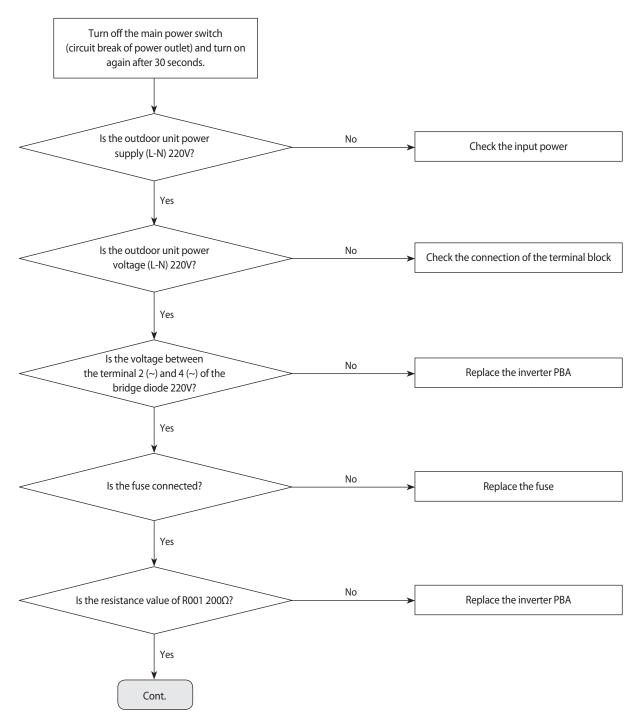
Indoor unit display	
Symptom	EEPROM circuit failure
Failure	EEPROM component failure, EEPROM circuit parts missing/damaged/soldering failure



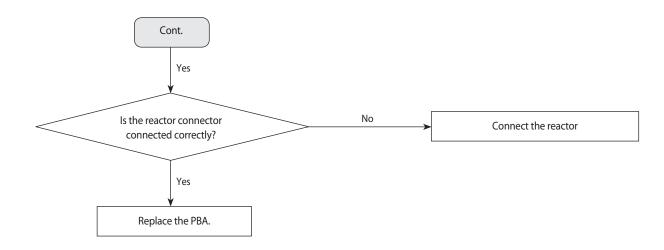
4-3-7 Outdoor unit is not powered on – Initial diagnosis

1. Check items

- 1) Is the power supply voltage 220V?
- 2) Is the AC power connected correctly?
- 3) Are the LEDs in the main PCB and inverter PCB of the outdoor unit ON?
- 4) Is the input power voltage of the indoor unit 220V?
- 5) Is the wired remote controller connected correctly?
- 2. Check procedure



Outdoor unit is not powered on – Initial diagnosis (cont.)

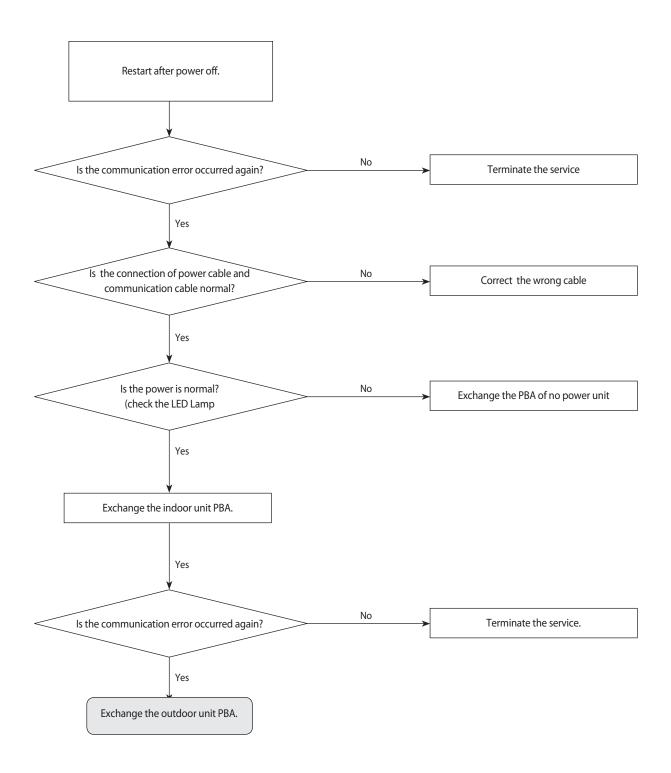


4-4-1 Communication error

1. 1.Checklist :

1) Is the cable between the indoor unit and outdoor unit connected correctly?

- 2) Isn't the power cable and communication cable cross?
- 2. Troubleshooting procedure

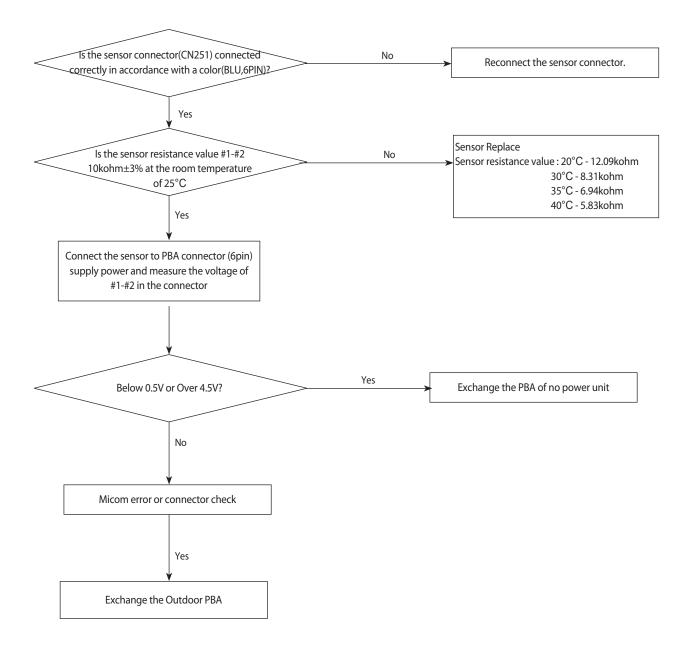


4-4-2 Outdoor temperature sensor error

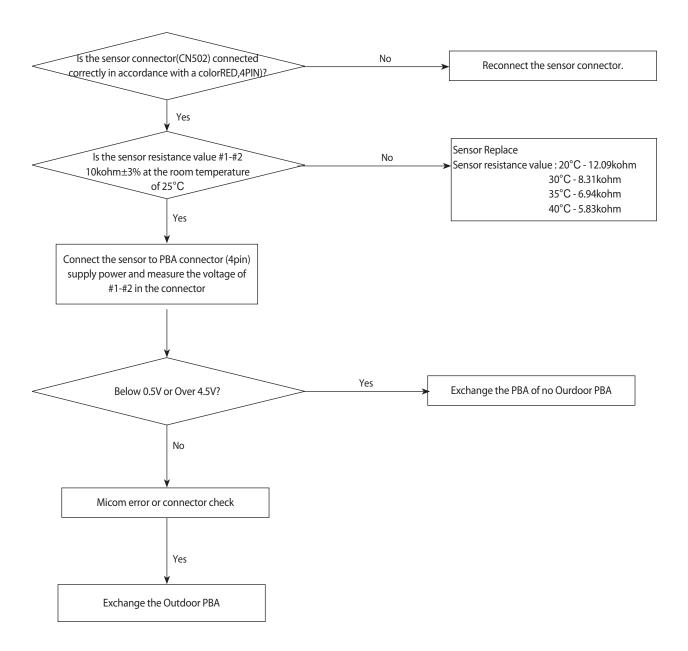
1. 1.Checklist :

- 1) Is the cable between the indoor unit and outdoor unit connected correctly?
- 2) Is the sensor placed correctly?
- 3) Does the both terminal of sensor satisfy the resistance value in accordance with temperature?
- 4) Is the resistance value of sensor connection pull-up correct?

4-4-2-1. Troubleshooting procedure (PF2)



4-4-2-2. Troubleshooting procedure (PF3)



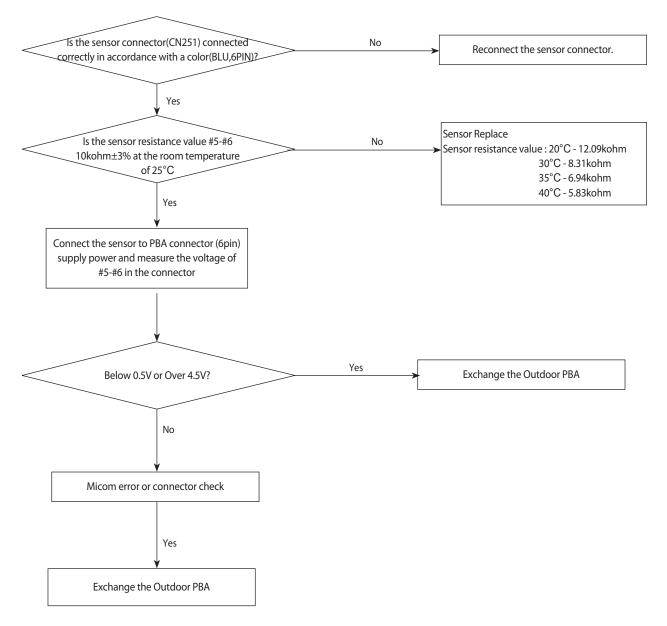
4-4-3 Outdoor Coil temperature sensor error

1.Checklist :

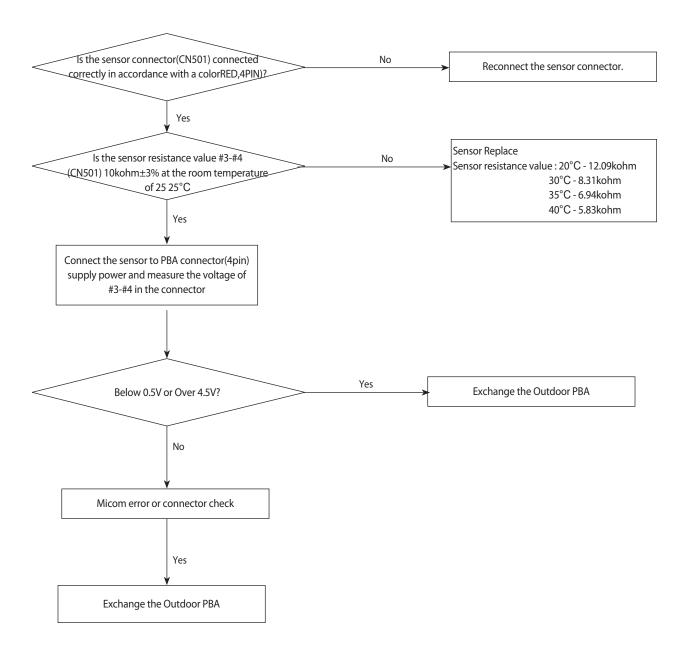
1) Is the sensor connected correctly?

- 2) Is the sensor placed correctly?
- 3) Does the both terminal of sensor satisfy the resistance value in accordance with temperature?
- 4) Is the resistance value of sensor connection pull-up correct?

4-4-3-1. Troubleshooting procedure (PF2)



4-4-3-2. Troubleshooting procedure (PF3)



4-4-4 Outdoor Discharge temperature sensor error

1.Checklist :

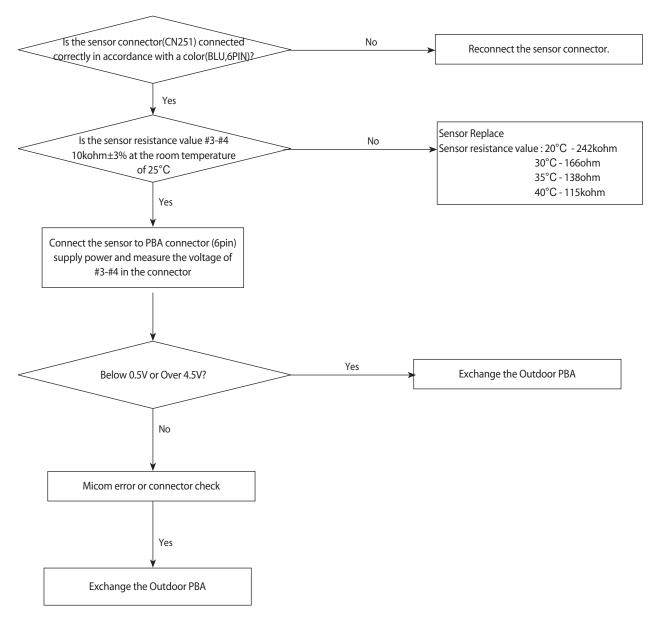
1) Is the sensor connected correctly?

2) Is the sensor placed correctly?

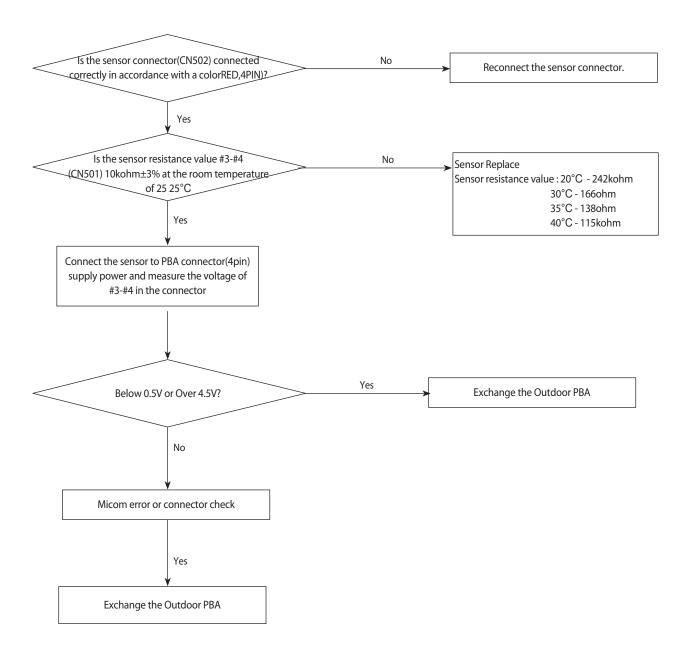
3) Does the both terminal of sensor satisfy the resistance value in accordance with temperature?

4) Is the resistance value of sensor connection pull-up correct?

4-4-4.1. Troubleshooting procedure (PF2)



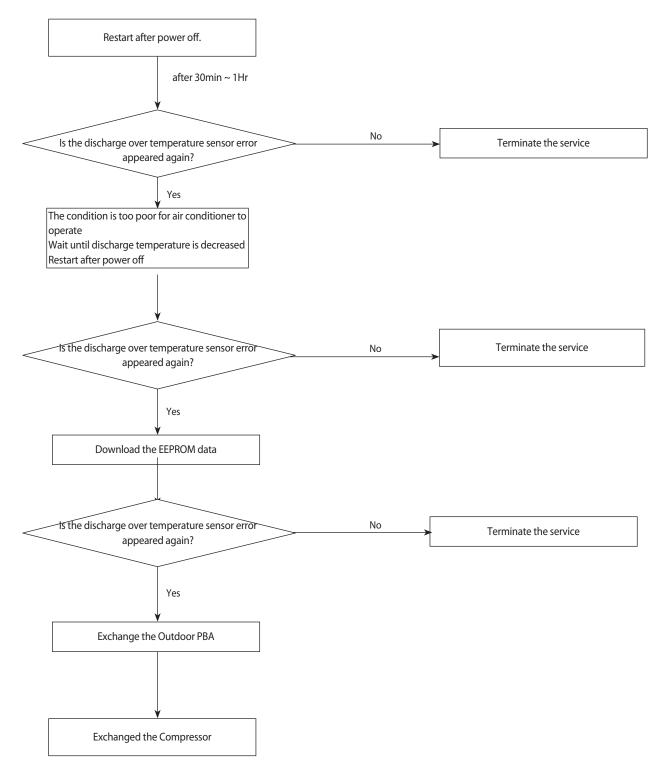
4-4-4-2. Troubleshooting procedure (PF3)



4-4-5 Outdoor Discharge over temperature error

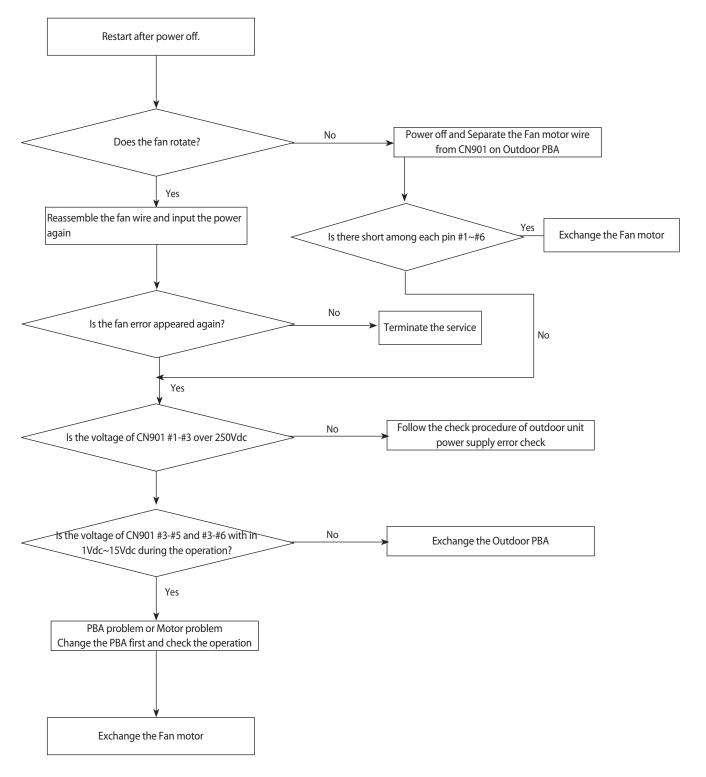
1.Checklist :

- 1) Check the discharge temperature in the outdoor unit
- 2) Check the compressor locking or gas leak
- 3) 3) Download the EEPROM data



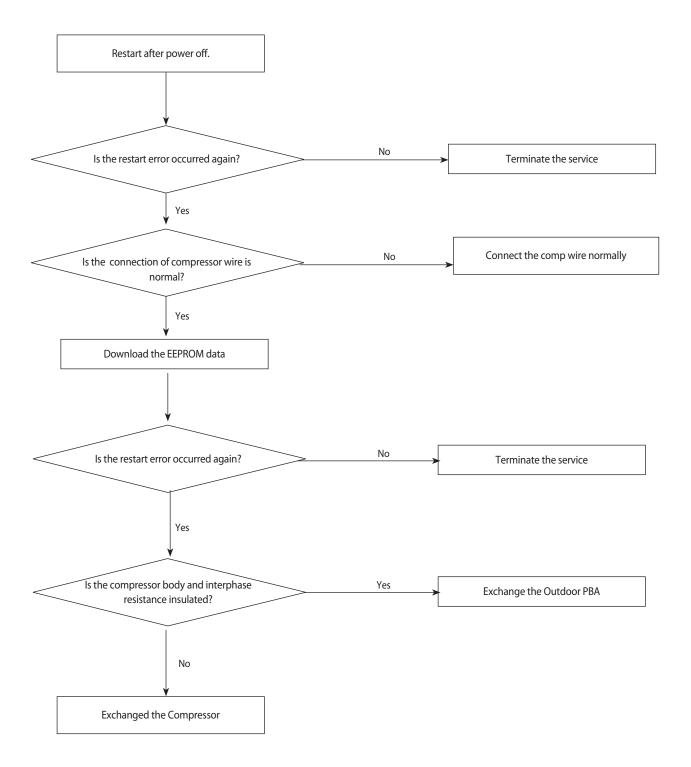
4-4-6 Outdoor Fan motor error

- 1) Are the input power voltage and the power connection correct?
- 2) Is the motor wire connected to the outdoor PBA correctly?
- 3) Is there no assembly error or none-assembly in the terminal of motor wire connector?
- 4) Is there no obstacle at the surrounding of motor and propeller?
- 2. Troubleshooting procedure



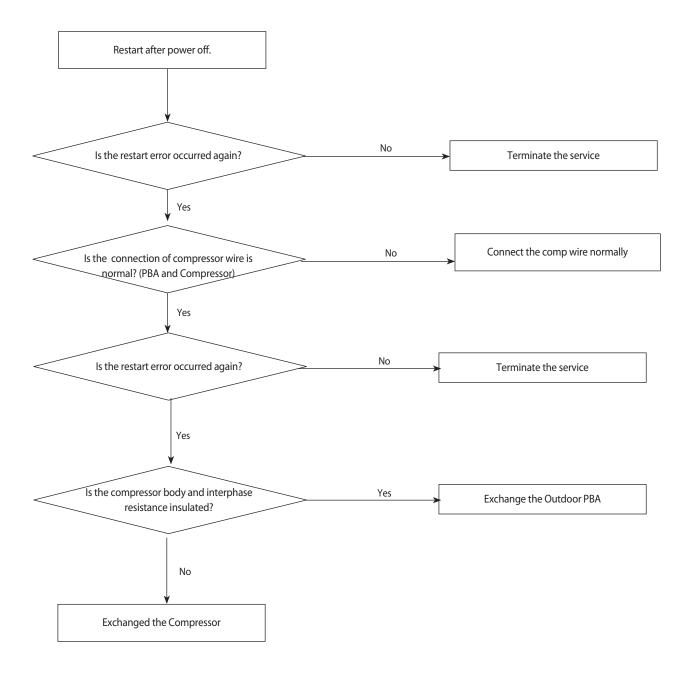
4-4-7 Compressor starting error

- 1) Is the connection of cable for the compressor?
- 2) Is the compressor wire is connected clockwise? U(RED)-V(BLU)-W(YEL)
- 3) Is the interphase resistance of compressor normal?
- 2. Troubleshooting procedure



4-4-8 Compressor wire missing error/rotation error

- 1) Is the connection of cable for the compressor?
- 2) Is the compressor wire is connected clockwise? U(RED)-V(BLU)-W(YEL)
- 3) Is the interphase resistance of compressor normal?
- 2. Troubleshooting procedure



4-4-9 O.C(Over Current) error

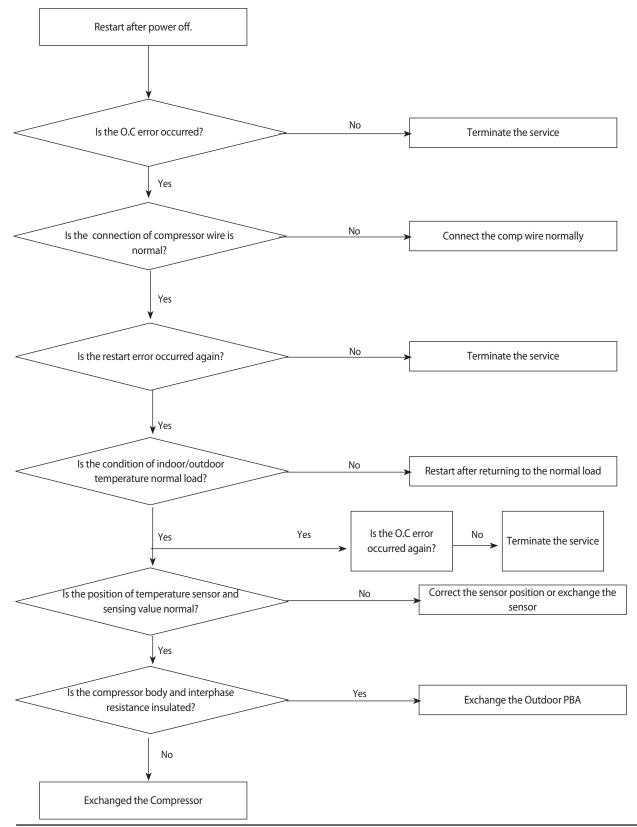
1.Checklist :

1) Is the IPM Shunt(PF2:R451,R452,R453,PF3:R413,R414,R415) resistance value correct? Check the resistor is opened

2) Is the condition of surrounding temperature abnormal overload?

3) Is there any problem as like the temperature sensor separation or measurement value error?

4) Is the interphase resistance of compressor normal?



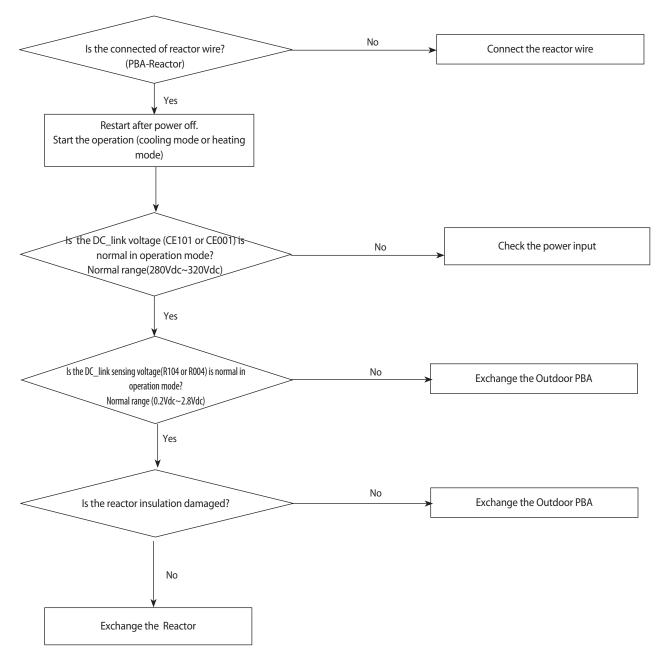
4-4-10 DC_link voltage sensor error

1.Checklist :

- 1) Is the input voltage of outdoor terminal block is normal?
- 2) Is the reactor wire connected?

3) Is the DC_link capacitor(PF2:CE101,CE102,CE103,PF3:CE001,CE002,CE003,CE004)) assembled in accordance the specification? (Outdoor PBA)

4) Is the DC_link resistor(PF2:R104,R106,R107,R108,PF3:R004,R005,R006,R007) value is normal? (Outdoor PBA)



4-4-11 DC_link voltage under/over error, Over voltage protection error/PFC over load

1.Checklist :

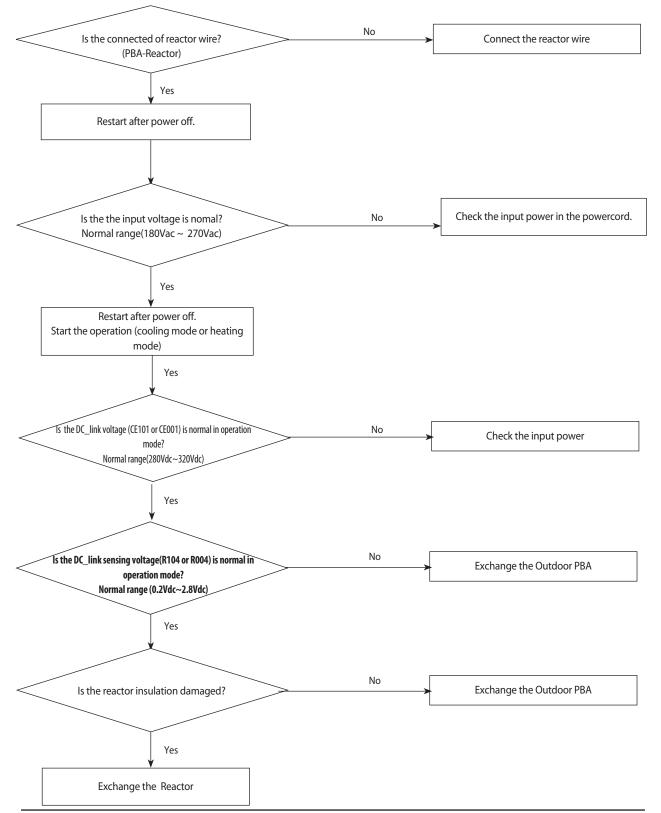
1) Is the input voltage of outdoor terminal block is normal?

2) Is the reactor wire connected?

3) Is the reactor wire connected?

4) Is the DC_link capacitor(PF2:CE101,CE102,CE103,PF3:CE001,CE002,CE003,CE004)) assembled in accordance the specification? (Outdoor PBA)

5) Is the DC_link resistor(PF2:R104,R106,R107,R108,PF3:R004,R005,R006,R007) value is normal? (Outdoor PBA)



4-4-12 DC_link voltage sensor error

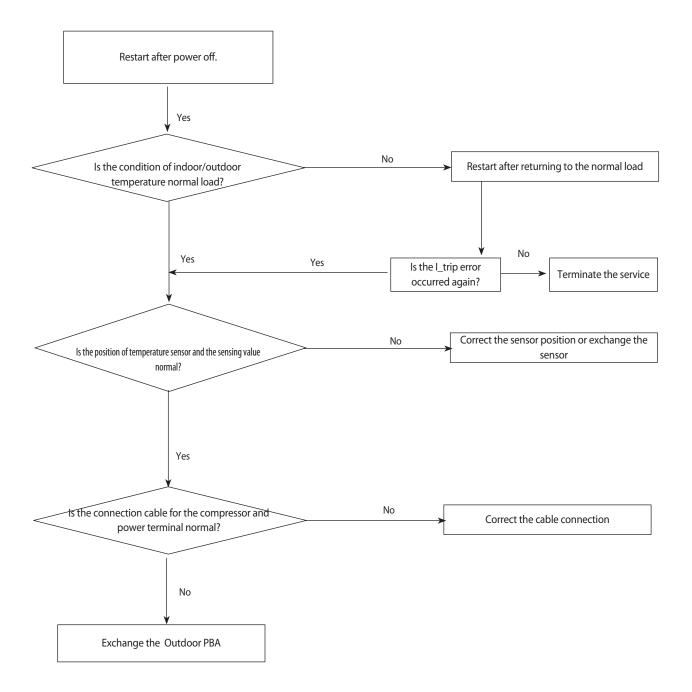
1.Checklist :

1) Is the PFC Shunt(PF2:R062,R063,PF3:R807,R808,R809) resistance value correct? Check the resistor is opened

2) Is the condition of surrounding temperature abnormal overload?

3) Is there any problem as like the temperature sensor separation or measurement value error?

- 4) Is the interphase resistance of compressor normal?
- 2. Troubleshooting procedure



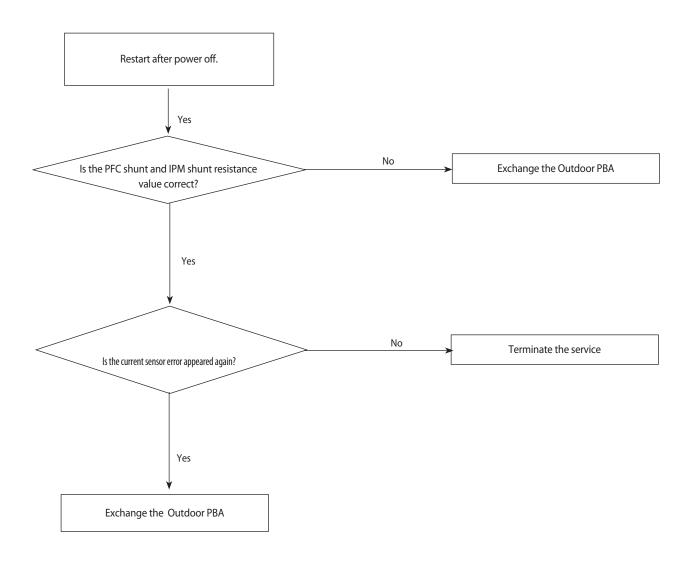
4-4-13 Current sensor error/Input current sensor error

1.Checklist :

1) Is the PFC Shunt(PF2:R062,R063,PF3:R807,R808,R809) resistance value correct? Check the resistor is opened

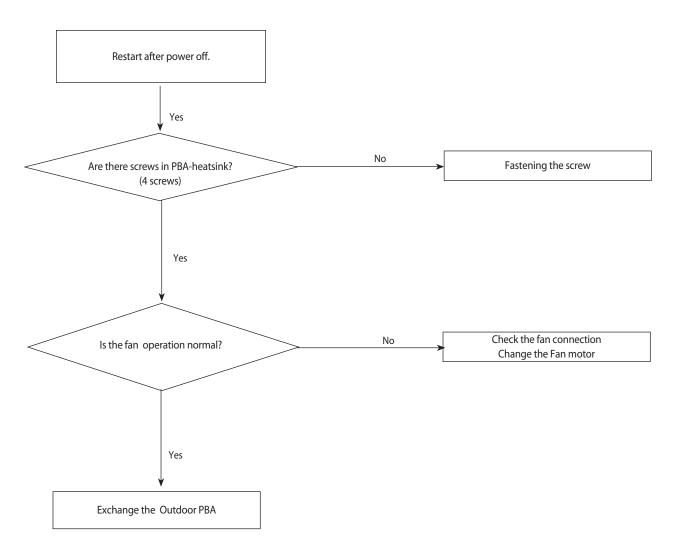
2) Is the IPM Shunt(PF2:R451,R452,R453,PF23:R413,R414,R415) resistance value correct? Check the resistor is opened

- 3) Is there no short or open around IC451(PF2) or IC451,IC452(PF3)?
- 2. Troubleshooting procedure



4-4-14 Heatsink sensor error/Heatsink over heat

- 1) Are there screws assembly in PBA-heatsink?
- 2) Is the gap PBA-heatsink
- 3) Is the fan operation normal?
- 4) Is the cover assembly in control-box normal?
- 2. Troubleshooting procedure



4-4-15 Comp Vlimit error/Comp current limit error

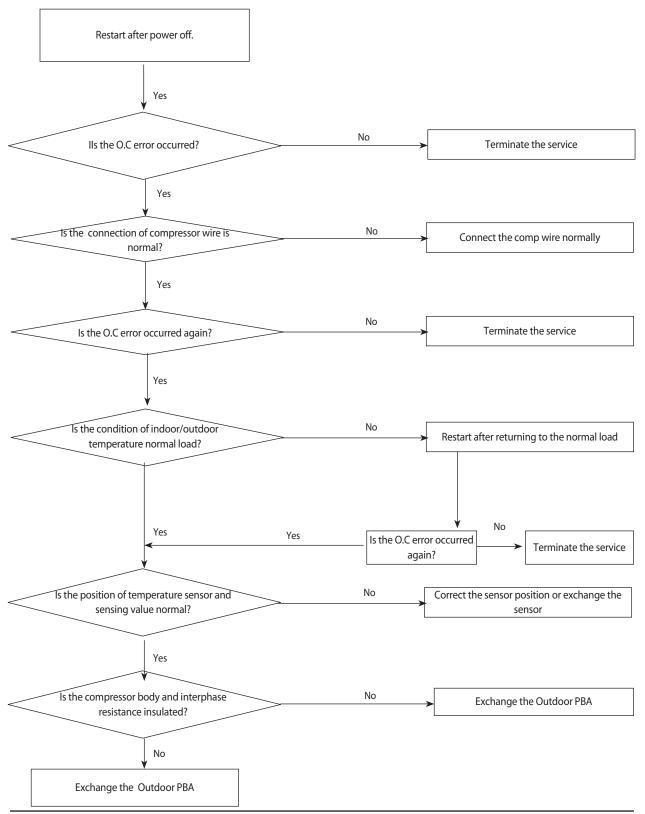
1.Checklist :

1) Is the PFC Shunt(PF2:R062,R063,PF3:R807,R808,R809) resistance value correct? Check the resistor is opened

2) Is the condition of surrounding temperature abnormal overload?

3) Is there any problem as like the temperature sensor separation or measurement value error?

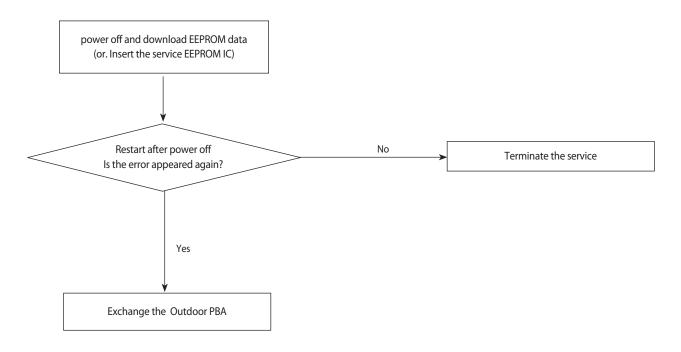
- 4) Is the interphase resistance of compressor normal?
- 2. Troubleshooting procedure



4-4-16 EEPROM error/OTP error

1.Checklist :

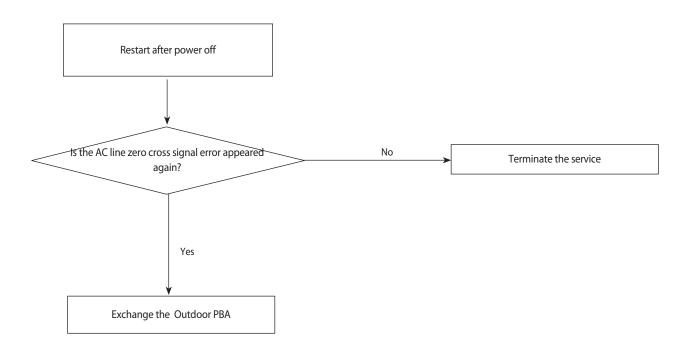
- 1) Is there a short around micom?
- 2) Is there a short around IC202(PF2) or IC701(PF3)?
- 3) Did you download or insert EEPROM IC, after changing outdoor PBA?



4-4-17 AC zero cross signal error

1.Checklist :

- 1) Check the power condition at customer's house (Is there any power noise?)
- 2) Have been there power failure?
- 2. Troubleshooting procedure

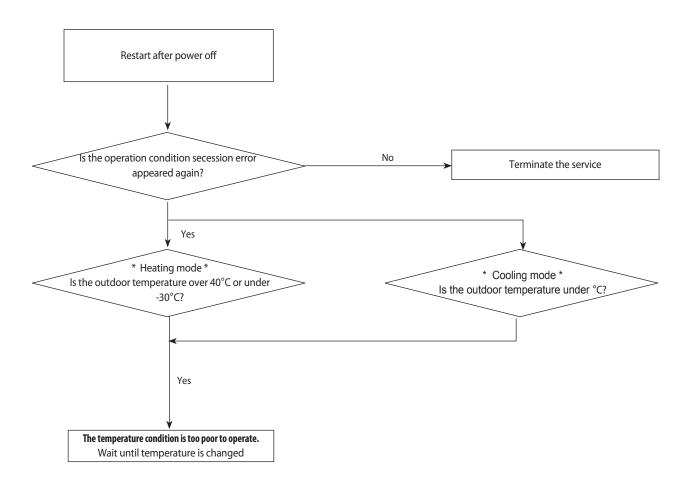


4-4-18 Operation condition secession error

1.Checklist :

1) Check the temperature around the outdoor unit.

2. Troubleshooting procedure



4-4-19 Capacity miss match error

1.Checklist :

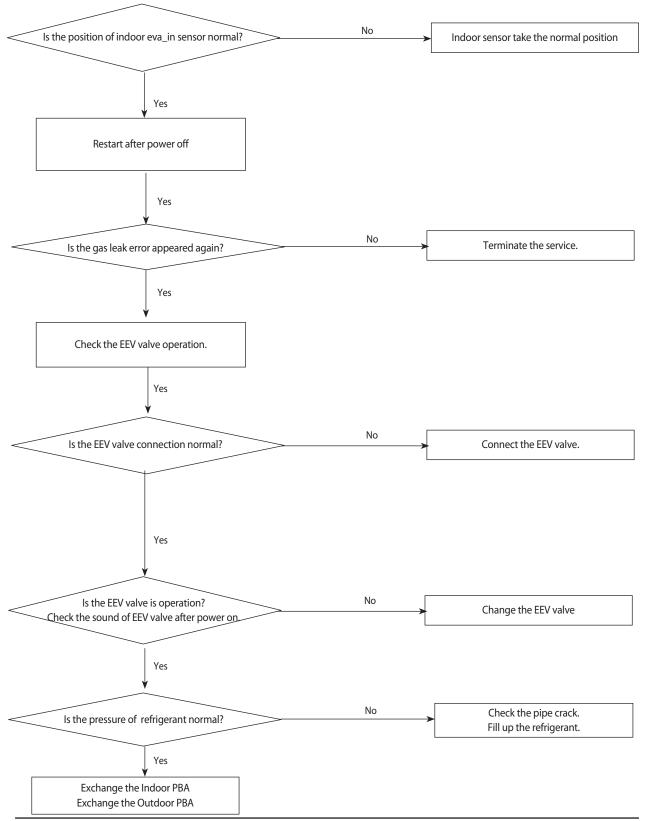
- 1) Check the Btu between indoor and outdoor unit
- 2) Check the indoor unit option and outdoor unit EEPROM data
- 2. Troubleshooting procedure



4-4-20 Gas leak error

1.Checklist :

- 1) Is the position of indoor Eva_in sensor normal?
- 2) Check the pipe crack
- 3) Check the EEV valve connection in Outdoor unit
- 4) Check the refrigerant was charged
- 2. Troubleshooting procedure

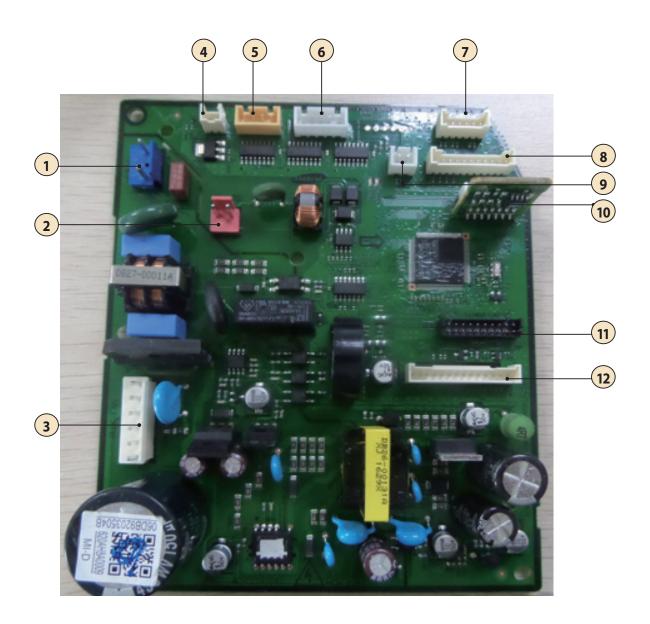


5. PCB Diagram

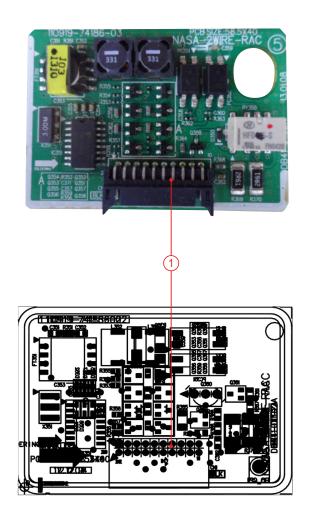
5-1 Indoor Unit

MAIN PCB

AC026MNADKH / AC035MNADKH / AC052MNADKH / AC071MNADKH



① CNP101-POWER #1 : L #2 : NOT USED #3 : N	 CN303-COM1 #1~2 : COMMUNICATION SIGNAL 	 (3) CN701-BLDC FAN #1 : DC 310V #2 : NOT USED #3 : GND #4 : PWM SIGNAL #5 : FEEDBACK SIGNAL 	 CN140-FUSE CHECK #1 : THERMAL FUSE SIGNAL #2 : GND
 (5) CN805-SPI #1~2 : GND #3 : SPI CONTROL SIGNAL #4 : NOT USED 	 CN802-STEP UP/DOWN #1 : DC 12V #2~5 : LOUVER SIGNAL 	 CN403-EVA IN/OUT/DIS #1: EVA IN TEMPERATURE SENSOR SIGNAL #2: GND #3: EVA OUT TEMPERATURE SENSOR SIGNAL #4: GND #5: DISCHARGE TEMPERATURE SENSOR SIGNAL #6: GND 	 (8) CN501-DISPLAY #1~3: LED SIGNAL #4: REMOCON SIGNAL #5: GND #6: DC 5V #7~8: REMOCON SIGNAL #9~11: NOT USED
 CN401-ROOM #1: OOM TEMPERATURE SENSOR SIGNAL #2: GND 	10 CN201-EEPROM #1 : GND #2 : NOT USED #3 : DC 5V #4~7 : EEPROM SIGNAL	 (1) CN302-DOWNLOAD #1~8: DOWNLOAD SIGNAL #9: GND #10~11: DC 5V #12~16: DOWNLOAD SIGNAL #17: GND #18~20: DOWNLOAD SIGNAL 	 CN301-to 2WIRE SUB #1~2: COMMUNICATION SIGNAL #3~4: SUB PBA SIGNAL #5: EXTERNAL CONTROL SIGNAL #6: COMP CHECK SIGNAL #7: ERROR CHECK SIGNAL #8: DC 5V #9: GND #10: DC 12V #11~14: COMMUNICATION SIGNAL

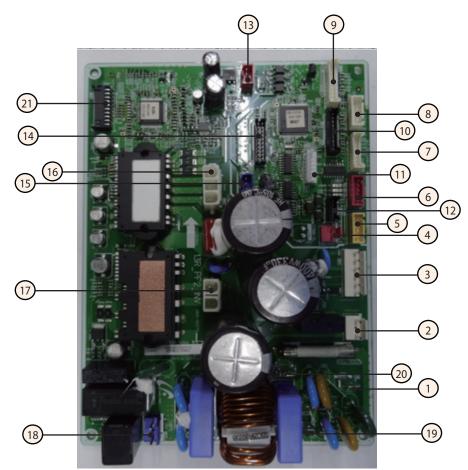


1 CN1-2WIRES COMM.

() CN122WIRES COMM. #1,#2,#19,#20:COMM. SIGNAL #3,#18:EXTERNAL CONTROL #4,#17:COMP CHECK #5,#16:ERROR CHECK #6:VCC(DC5V) #7,#14:GND #8,#13,#15:DC12V #9~#12:COMM. SIGNAL

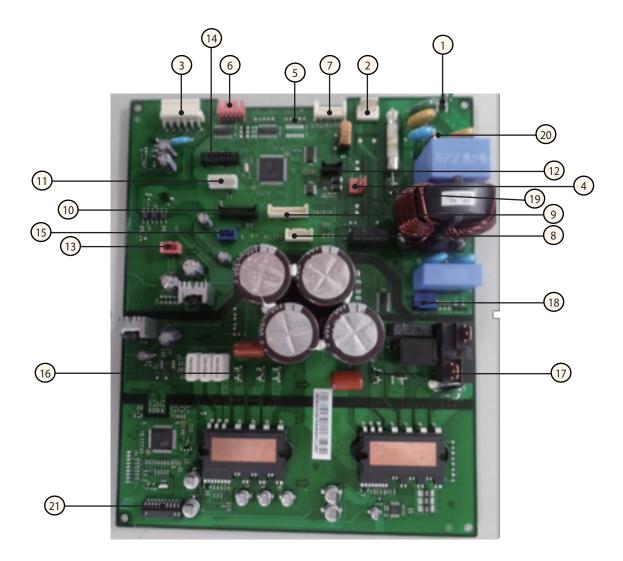
5-2-1 MAIN PBA

AC026MXADKH / AC035MXADKH



No.	Function	No.	Function
1	MAIN POWER (N)	12	Sub display PCB connection (DC5V,12V,com1,com2)
2	4Way Valve		SMPS PCB connection (DC15V)
3	FAN MOTOR connection		Download Main
4	Indoor communication connection	15	SMPS PCB connection (DC5V,12V)
5	EEV-B	16	Compressor connection (U,V,W)
6	EEV-A	17	Reactor
7	Out/Discharge/Cond./OLP temp. sensor	18	SMPS PCB connection (AC220V)
8	DRED PBA connection (* DRED : Demand Response Enabling Device)	19	EARTH
9	Sub display PCB connection (Key, 7-segment signal)	20	MAIN POWER (L)
10	Sub display PCB connection (Key, solution communication signal)	21	Download INV
11	EEPROM connection		

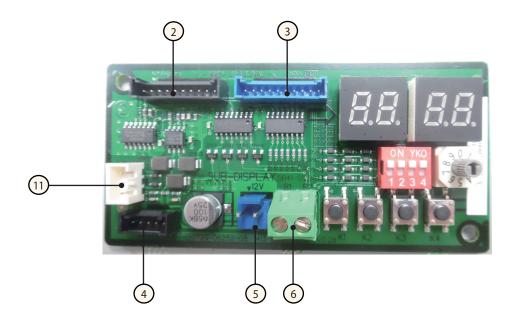
AC052MXADKH / AC071MXADKH



No.	Function	No.	Function
1	MAIN POWER (N)		Sub display PCB connection (DC5V,12V,com1,com2)
2	4Way Valve		SMPS PCB connection (DC15V)
3	FAN MOTOR connection		Download Main
4	Indoor communication connection		SMPS PCB connection (DC5V,12V)
5	N/A	16	Compressor connection (U,V,W)
6	EEV control	17	Reactor
7	Out/Discharge/Cond./OLP temp. sensor	18	SMPS PCB connection (AC220V)
8	DRED PBA connection (※ DRED : Demand Response Enabling Device)		MAIN POWER (L)
9	Sub display PCB connection (Key, 7-segment signal)	20	EARTH
10	Sub display PCB connection (Key, solution communication signal)	21	Download INV
11	EEPROM connection		

5-2-2 Display PBA

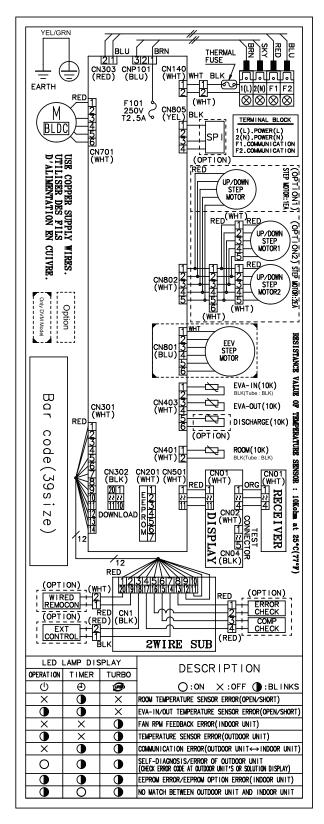
AC026MXADKH / AC035MXADKH / AC052MXADKH / AC071MXADKH



No.	Function
1	MODE SELECTOR
2	MAIN PCB connection (Key, Switch signal)
3	MAIN PCB connection (Key, 7-segment signal)
4	MAIN PCB connection (DC 5V,12V)
5	DC 12V
6	Solution communication

6. Wiring Diagram

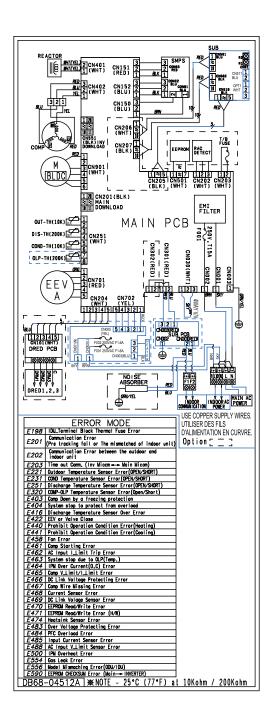
6-1 Indoor Unit



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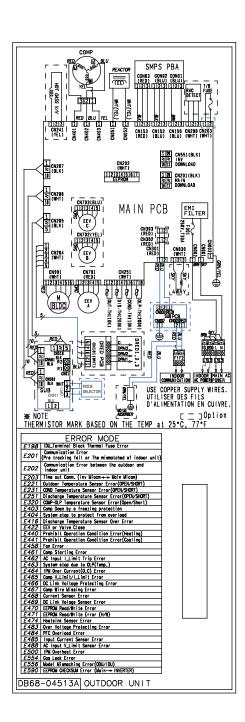
6-2 Outdoor Unit

AC026MXADKH / AC035MXADKH



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■ AC052MXADKH / AC071MXADKH



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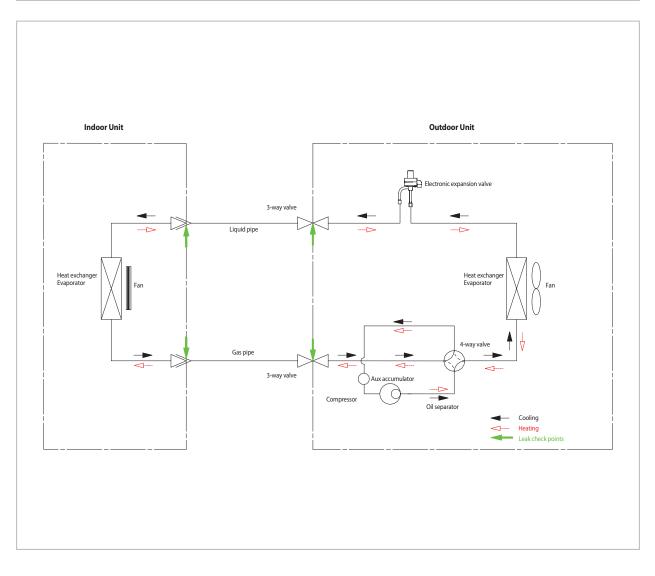
7. Preference Sheet

7-1 Index of Model Name



Samsung Electronics

7-2 Refrigerating Cycle Diagram



CONDENSER

High temperature and high pressure gas state coolant discharged from the compressor is converted to a liquid state as it is cooled down by the heat emission in the outdoor condenser unit, and sent to the evaporator.

COMPRESSOR

Low temperature and low pressure coolant is compressed and sent to the cycling system

EVAPORATOR

Liquid coolant sucked in through the capillary tubes cools down the room by absorbing the surrounding heat as it evaporates (converting from liquid to gas). (Absorbing heat required for evaporation)

SERVICE VALVE

You can open the valve by turning the need valve counterclockwise using hex wrench, and it is used for vacuum, gas purging, coolant injection, coolant purging, and indoor-outdoor unit connection.

ACCUMULATOR

Accumulator prevents the flow of liquid-state coolant into the compressor. (Liquid-state coolant flowing into the compressor will overload the compressor.)



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