

SAMSUNG

System Airconditioner

Fan Coil Unit

AG026/32MN1DEH/EU

AG042MN1DEH/EU

AG060/072/090/105MN4DKH/EU

AG060/072/090/105MN4PKH/EU

SERVICE ***Manual***

Fan Coil Unit



Contents

1. Precautions
2. Product Specifications
3. Disassembly and Reassembly
4. Troubleshooting
5. PCB Diagram and Parts List
6. Wiring Diagram
7. Reference Sheet

Contents

1. Precautions.....	1-1
1-1. Precautions for the Service.....	1-1
1-2. Precautions for the Static Electricity and PL.....	1-1
1-3. Precautions for the Safety.....	1-1
2. Product Specifications.....	2-1
2-1. Product Specifications.....	2-1
2-2. Specifications of optional items.....	2-4
2-2-1. Accessories.....	2-4
3. Disassembly and reassembly	3-1
Necessary tools.....	3-1
3-1. Fan Coil Unit	3-2
3-1-1. 1-Way Cassette Type	3-2
■ AG026/032MN1DEH/EU.....	3-2
■ AG042MN1DEH/EU	3-11
3-1-3. Circular Cassette Type.....	3-18
■ AG041/060/072/090/105MN4DKH/EU	3-18
3-1-3. Circular Cassette Type.....	3-24
■ AG060/072/090/105MN4PKH/EU	3-24
4. Troubleshooting.....	4-1
4-1. Set fan coil unit address and installation options	4-1
4-1-1. Option setting procedure and setting method (Normal remote controller)	4-1
4-1-2. Option setting procedure and setting method (360 cassette remote controller only).....	4-5
4-1-3. Fan Coil Unit Address (MAIN/RMC) Setting	4-10
4-1-4. Fan Coil Unit Installation Option Setting (setting option to suit installation site conditions)	4-11
4-1-5. Option code per model	4-14
4-2. What to check before diagnosis	4-15
4-2-1. Lamp combination expression method DISPLAY	4-15
4-2-2. Number expression method DISPLAY (fan coil unit, cable remote control, etc.).....	4-19
4-3. Appropriate Measures for Different Symptoms.....	4-20
4-3-1. Fan coil unit ROOM sensor error (OPEN/SHORT)	4-20
4-3-2. Fan coil unit EVAP IN sensor error (OPEN/SHORT)	4-21
4-3-3. Fan coil unit EVAP OUT sensor error (OPEN/SHORT).....	4-22
4-3-4. Water temperature increase prevention error	4-23
4-3-5. E153 : Floating Switch detection of fan coil unit Drain Pump	4-24
4-3-6. Fan coil unit Fan operation error	4-25
4-3-7. EEPROM error	4-26
4-3-8. Fan coil unit remote control option error	4-27
4-3-9. Error due to confusion between use of Fahrenheit and Celsius	4-28

Contents

5. PCB Diagram	5-1
5-1. Fan Coil Unit	5-1
5-1-1. Slim 1 way cassette type (Medium)	5-1
5-1-2. Slim 1 way cassette type (Large), 4way cassette type	5-4
5-1-3. Circular cassette type	5-7
5-1-4. FCU SUB PBA	5-9
5-1-5. Circular cassette type DISPLAY	5-10
5-1-6. Slim 1 way cassette type panel (Normal)	5-11
5-1-7. Slim 1 way cassette type panel (Interior type).....	5-12
5-1-8. Slim 1 way cassette type panel (Europe)	5-13
5-1-9. Small 4 way cassette type panel	5-14
6. Wiring Diagram	6-1
6-1. Fan Coil Unit	6-1
6-1-1. Slim 1 way cassette (Medium_JS F1)	6-1
6-1-2. Slim 1 way cassette (Small_Medium_JS F2), 4 way cassette (G4WAY)	6-2
6-1-3. Circular cassette type (360).....	6-3
7. Reference Sheet.....	7-1
7-1. Index for Model Name	7-1
7-1-1. Fan Coil Unit	7-1
7-1-2. Panel	7-2

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

1-2. Precautions for the Static Electricity and PL

- **Please carefully handle the PCB power terminal during repair and measurement when it is turned on since it is vulnerable to static electricity.**
 - Please wear insulation gloves before performing PCB repair and measurement.
- **Check if the place of installation is at least 2m away from electronic appliances such as TV, video players, and stereos.**
 - This can cause irregular noise or degrade the picture quality.
- **Please make sure the customer does not directly repair the product.**
 - Arbitrary dismantling may result in electric shock or fire.

1-3. Precautions for the Safety

- **Do not pull or touch the power plug or the subsidiary power switch with wet hands.**
 - This may result in electric shock or fire.
- **If the power line or the power plug is damaged, then it must be changed since this is a hazard.**
- **Do not bend the wire too much or position it so that it can be damaged by a heavy object on top.**
 - This may result in electric shock or fire.
- **The use of multiple electric outlets should be prohibited.**
 - This may result in electric shock or fire.
- **Ground the connection if it is necessary.**
 - The connection must be grounded if there is any risk of electrical short due to water or moisture.
- **Unplug the power or turn off the subsidiary power switch when changing or repairing electrical parts.**
 - Doing so will prevent electric shock.
- **Explain to workers that the battery for the remote control needs to be separated for storage purposes when the product will not be used for a long time.**
 - This can cause a problem for the remote control since battery fluid may trickle out.

2. Product Specifications

2-1. Product Specifications

Model (Slim 1 way cassette type)						
Type				1Way Cassette	1Way Cassette	1Way Cassette
Model				AG026MN1DEH/EU	AG032MN1DEH/EU	AG042MN1DEH/EU
Power Supply			Φ, #, V, Hz	1,2,220,60	1,2,220,60	1,2,220,60
Performance	Cooling Capacity	Cooling (Eurovent Condition)	T1 (kW)	2.60	3.00	4.15
			T1 (Btu/h)	-	-	-
			T3 (kW)	N/A	N/A	N/A
	Heating Capacity	Heating (Eurovent Condition)	T1 (kW)	2.90	3.35	5.00
			T1 (Btu/h)	-	-	-
			T3 (kW)	N/A	N/A	N/A
Power	Power Input (Nominal)	Cooling	T1 (W)	47.0	50.0	55.0
			T3 (W)	N/A	N/A	N/A
		Heating	T1 (W)	47.0	50.0	55.0
	Current Input (Nominal)	Cooling	T1 (A)	0.24	0.26	0.29
			T3 (A)	N/A	N/A	N/A
		Heating	T1 (A)	0.24	0.26	0.29
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Surface Treatment		-	Green water-friendly	Green water-friendly	Green water-friendly
Fan	Type		-	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Motor	Output x n	W	12.0	12.0	54.0
	Air Flow Rate	H/M/L (UL)	CMM	6.8/5.8/4.9	7.8/6.8/4.9	14.6/12.6/10.7
			l/s	-	-	-
	External Pressure	Min / Std / Max	mmAq	N/A	N/A	N/A
Pa			-	-	-	
Fan Motor	Type		-	AC	AC	DC
	Output x n		W	17 x 1	17 x 1	54 x 1
Water	Water Flow Rate (Cooling)	H/M/L (UL)	LPM	7.5	9.6	11.9
			l/s	-	-	-
	Water Flow Rate (Heating)	H/M/L (UL)	LPM	8.4	9.7	14.4
			l/s	-	-	-
	Loss of Head (Cooling)	H/M/L (UL)	kPa	23	34.5	45
				-	-	-
Loss of Head (Heating)	H/M/L (UL)	kPa	28	35.8	64.6	
			-	-	-	
Water Pipe	Inlet	Type	PF MALE	PF MALE	PF MALE	
		Φ, mm (inch)	20A (3/4")	20A (3/4")	20A (3/4")	
	Outlet	Type	PF MALE	PF MALE	PF MALE	
		Φ, mm (inch)	20A (3/4")	20A (3/4")	20A (3/4")	
	Insulation		-	Both inlet/outlet pipes	Both inlet/outlet pipes	Both inlet/otu tleipes
Drain Pipe		Φ,mm	VP20 (OD 26, ID 20)	VP20 (OD 26, ID 20)	VP25 (OD 32, ID 25)	
Wiring	Communication Cable	Min. thickness	mm2	0.75	0.75	0.75
		Remarks	-	F1, F2	F1, F2	F1, F2
Dimensions	Net Weight		kg	10.5	10.5	14
	Shipping Weight		kg	13.5	13.5	17.5
	Net Dimensions (WxHxD)		mm	970*135*410	970*135*410	1200*138*450
	Shipping Dimensions (WxHxD)		mm	1164*212*478	1164*212*478	1435*214*525
Case	Material		-	Plastic	Plastic	Plastic

Model (Small / Medium 4 Way Cassette type)							
TYPE				G4W/C-Small	G4W/C-Small	G4W/C-Mid	G4W/C-Mid
Model Name				AG060MN4DKH/EU	AG072MN4DKH/EU	AG090MN4DKH/EU	AG105MN4DKH/EU
Power Supply			Φ, #, V, Hz	1,220,60	1,220,60	1,220,60	1,220,60
Performance	Cooling Capacity	Cooling (Eurovent Condition)	T1 (kW)	6	7.2	9	10
			T1 (Btu/h)	-	-	-	-
			T3 (kW)	N/A	N/A	N/A	N/A
	Heating Capacity	Heating (Eurovent Condition)	T1 (kW)	7.3	8.5	10	10.7
			T1 (Btu/h)	-	-	-	-
			T3 (kW)	N/A	N/A	N/A	N/A
Power	Power Input (Nominal)	Cooling	T1 (W)	50	73	82	99
			T3 (W)	N/A	N/A	N/A	N/A
		Heating	T1 (W)	50	73	82	99
	Current Input (Nominal)	Cooling	T1 (A)	0.37	0.5	0.58	0.79
			T3 (A)	N/A	N/A	N/A	N/A
		Heating	T1 (A)	0.37	0.5	0.58	0.79
Fan	Type	Type	-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Motor	Output x n	W	65	65	65	65
	Air Flow Rate	H/M/L (UL)	CMM	18.9/16.5/13.6	21.3/18.2/13.6	23.3/21.3/19.4	30.1/26.2/19.4
			l/s	-	-	-	-
	External Pressure	Min / Std / Max	mmAq	N/A	N/A	N/A	N/A
			Pa	-	-	-	-
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
	Fin Surface Treatment		-	Green water-friendly	Green water-friendly	Green water-friendly	Green water-friendly
Water	Water Flow Rate (Cooling)	H/M/L (UL)	LPM	17.5	20.8	26	28.9
			l/s	-	-	-	-
	Water Flow Rate (Heating)	H/M/L (UL)	LPM	21.1	24.5	28.9	30.9
			l/s	-	-	-	-
	Loss of Head (Cooling)	H/M/L (UL)	kPa	27	36	46.8	56.3
			-	-	-	-	-
Loss of Head (Heating)	H/M/L (UL)	kPa	37.3	48.6	56.3	63.4	
		-	-	-	-	-	
Water Pipe	Inlet		Φ,mm	20A	20A	20A	20A
			Φ, inch	PF 3/4" Male	PF 3/4" Male	PF 3/4" Male	PF 3/4" Male
	Outlet		Φ,mm	20A	20A	20A	20A
			Φ, inch	PF 3/4" Male	PF 3/4" Male	PF 3/4" Male	PF 3/4" Male
	Drain		Φ,mm	VP25(OD32, ID25)	VP25(OD32, ID25)	VP25(OD32, ID25)	VP25(OD32, ID25)
Field	Power Wire		mm2	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
Wiring	Communication Cable		mm2	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50
Sound	Sound Pressure(Dev. SPEC.)		dB(A)	45	49	50	53
	Sound Pressure	High / Mid / Low	dB(A)	37/33/30	41/35/30	42/38/35	45/40/35
	Sound Power	Cooling		56	60	58	60
Dimensions	Net Weight		kg	15.5	15.5	18	18
	Shipping Weight		kg	19.5 → 19.0	19.5 → 19.0	22.0 → 19.0	22.0 → 19.0
	Net Dimensions (W×H×D)		mm	840*204*840	840*204*840	840*246*840	840*246*840
	Shipping Dimensions (W×H×D)		mm	898*275*898	898*275*898	898*316*898	898*316*898
Drain Pump	Drain Pump		- / Model name	Built In	Built In	Built In	Built In
	Max. Pump-up head / Distributed amount		mm / cc/min	1200 / 400	1200 / 400	1200 / 400	1200 / 400
Panel Size	Panel model		-	PC4NUSK1N PC4NUAK1N PC4NUSK5N	PC4NUSK1N PC4NUAK1N PC4NUSK5N	PC4NUSK1N PC4NUAK1N PC4NUSK5N	PC4NUSK1N PC4NUAK1N PC4NUSK5N
	Panel Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8.4	8.4	8.4	8.4
	Net Dimensions (W×H×D)		mm	950*45*950	950*45*950	950*45*950	950*45*950
	Shipping Dimensions (W×H×D)		mm	1013*101*1013	1013*101*1013	1013*101*1013	1013*101*1013

Model (Small / Large 360 Cassette type)							
TYPE				360CST-Small	360CST-Large	360CST-Large	360CST-Large
Model Name				AG060MN4PKH/EU	AG072MN4PKH/EU	AG090MN4PKH/EU	AG105MN4PKH/EU
Power Supply			Φ, #, V, Hz	1,220,60	1,220,60	1,220,60	1,220,60
Performance	Cooling Capacity	Cooling (Eurovent Condition)	T1 (kW)	6	7.2	9	10
			T1 (Btu/h)	-	-	-	-
			T3 (kW)	N/A	N/A	N/A	N/A
	Heating Capacity	"Heating (Eurovent Condition)"	T1 (kW)	7.3	8.5	10	10.7
			T1 (Btu/h)	-	-	-	-
			T3 (kW)	N/A	N/A	N/A	N/A
Power	Power Input(Nominal)	Cooling	T1 (W)	58	58	77	100
			T3 (W)	N/A	N/A	N/A	N/A
		Heating	T1 (W)	58	58	77	100
	Current Input (Nominal)	Cooling	T1 (A)	0.5	0.5	0.62	0.79
			T3 (A)	N/A	N/A	N/A	N/A
		Heating	T1 (A)	0.5	0.5	0.62	0.79
Fan	Type	Type	-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Motor	Output x n	W	65	97	97	97
	Air Flow Rate	H/M/L (UL)	CMM	21/17.5/15	25.5/22/19.8	29.5/24/19.8	31.5/22.5/19.8
			l/s	-	-	-	-
	External Pressure	Min / Std / Max	mmAq	N/A	N/A	N/A	N/A
			Pa	-	-	-	-
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
	Fin Surface Treatment		-	Green water-friendly	Green water-friendly	Green water-friendly	Green water-friendly
Water	Water Flow Rate (Cooling)	H/M/L (UL)	LPM	17.5	20.8	26	28.9
			l/s	-	-	-	-
	Water Flow Rate (Heating)	H/M/L (UL)	LPM	21.1	24.5	28.9	30.9
			l/s	-	-	-	-
	Loss of Head (Cooling)	H/M/L (UL)	kPa	27	26	38.5	47.4
			-	-	-	-	-
	Loss of Head (Heating)	H/M/L (UL)	kPa	37.6	35.6	47.4	53.2
			-	-	-	-	-
Water Pipe	Inlet		Φ,mm	20A	20A	20A	20A
			Φ, inch	PF 3/4" Male	PF 3/4" Male	PF 3/4" Male	PF 3/4" Male
	Outlet		Φ,mm	20A	20A	20A	20A
			Φ, inch	PF 3/4" Male	PF 3/4" Male	PF 3/4" Male	PF 3/4" Male
	Drain		Φ,mm	VP25(OD32, ID25)	VP25 (OD32, ID25)	VP25 (OD32, ID25)	VP25 (OD32, ID25)
Field	Power Wire		mm2	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
Wiring	Communication Cable		mm2	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50
Sound	Sound Pressure(Dev. SPEC.)		dB(A)	47	46	50	53
	Sound Pressure	High / Mid / Low	dB(A)	40/37/32	39/35/33	43/38/33	45/39/33
	Sound Power	Cooling		57	58	60	62
Dimensions	Net Weight		kg	21	25	25	25
	Shipping Weight		kg	25.5	29.5	29.5	29.5
	Net Dimensions (W×H×D)		mm	947*281*947	947*365*947 (TBD)	947*365*947	947*365*947
	Shipping Dimensions (W×H×D)		mm	990*330*990	990*414*990 (TBD)	990*414*990	990*414*990
Drain Pump	Drain Pump		- / Model name	Built In	Built In	Built In	Built In
	Max. Pump-up head / Distributed amount		mm / cc/ min	1200 / 400	1200 / 400	1200 / 400	1200 / 400
Panel Size	Panel model		-	PC4NUDK1N PC4NUNK1N	PC4NUDK1N PC4NUNK1N	PC4NUDK1N PC4NUNK1N	PC4NUDK1N PC4NUNK1N
	Panel Net Weight		kg	3.6	3.6	3.6	3.6
	Shipping Weight		kg	6	6	6	6
	Net Dimensions (W×H×D)		mm	1050*66*1050	1050*66*1050	1050*66*1050	1050*66*1050
	Shipping Dimensions (W×H×D)		mm	1093*85*1083	1093*85*1083	1093*85*1083	1093*85*1083

2-2. Specifications of optional items

2-2-1. Accessories

Item	Description		Code No.	Q'ty
	Front Panel	Slim 1 way cassette	PC1NWSK1N PC1NWAK1N	-
		Slim 1 way cassette	PC1BWSK1N PC1BWAK1N	-
	Front Panel (4 way cassette, General)		PC4NUSK1N PC4NBSK1N PC4NSSK1N PC4NUSK5N	-
	Front Panel (4 way cassette, Automatic lift)		PC4NUAK1N	-
	Buried Panel (Circular cassette)		PC4NUDK1N	-
	Exposed Panel (Circular cassette)		PC4NUNK1N (WHT) PC4NBNK1N (BLK)	-

Item	Description	Code No.	Q'ty	Remark
-	S-NET CLOUD	AST-EP01D AST-EP05D	-	Option
	DMS2.5	AIM-D01AN	-	Option
	BACnet G/W	AIM-B17BN	-	Option
	External Contact Interface Module	AIM-B14	-	Option
	ON/OFF Controller	ACM-A202DN	-	Option
	Touch Central Controller	ACM-A300N	-	Option
	FCU Interface Module	AIM-F10N	-	Option
	Power Monitoring Interface Module	AIM-B12N	-	Option
	SIM Interface Module	AIM-B16N	-	Option
	PIM Interface Module	AIM-B16N	-	Option
	Wireless Remote Controller	AR-EH00	-	Option
		AR-KH00	-	Option
	Wired Remote Controller	AWR-WE11N	-	Option
	S-NET Converter	AIM-C01A	-	Option
	WIFI-KIT	AIM-H03N	-	Option

3. Disassembly and reassembly

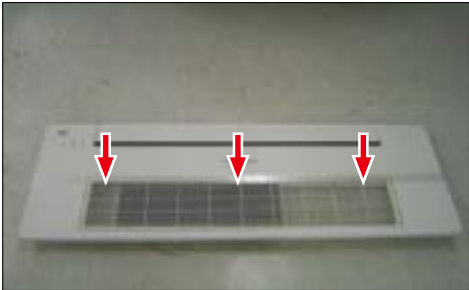
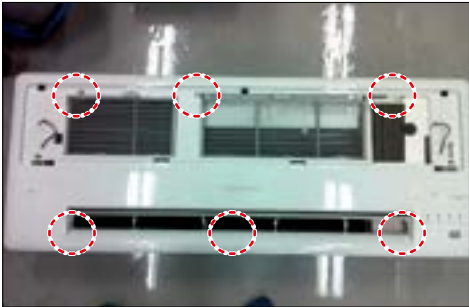
■ Necessary tools

Item	Remark
+SCREW DRIVER	
MONKEY SPANNER	
-SCREW DRIVER	
NIPPER	
Electric drill	

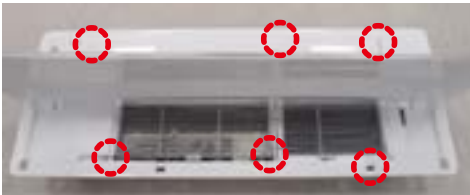
3-1. Fan Coil Unit

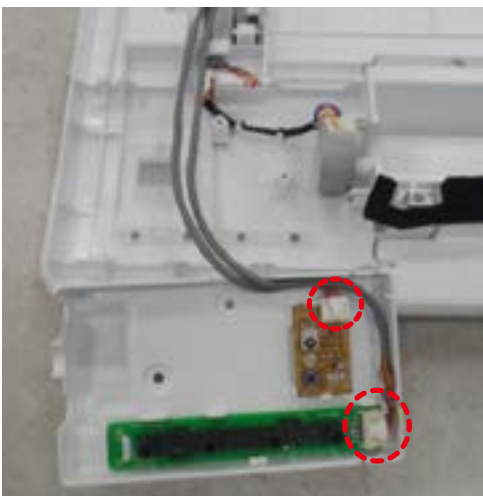
3-1-1. 1-Way Cassette Type

■ AG026/032MN1DEH/EU

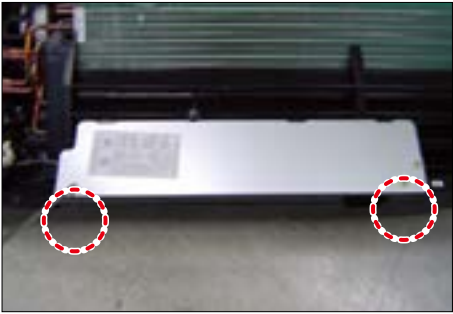
No	Parts	Procedure	Remark
1	PANEL and FILTER NORMAL type (PC1NWSK1N PC1NWAK1N)	1) Open by pressing the GRILLE's PUSH button. 2) Remove 1 clip from the PANEL and tilt the GRILLE 45 degrees to separate it from the PANEL. 3) Remove the FILTER from the PANEL. 4) Remove the 3 COVER SCREWS. 5) Remove the 6 screws in the PANEL and remove it from the fan coil unit (use +SCREWDRIVER)	    

No	Parts	Procedure	Remark
		2) Press the left and right hooks on the PANEL to remove it from the fan coil unit.	

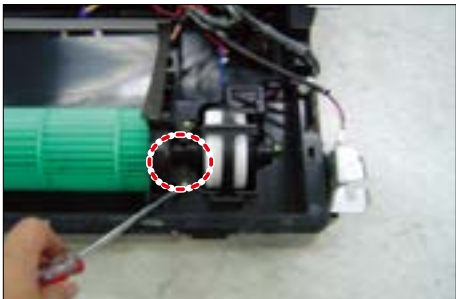
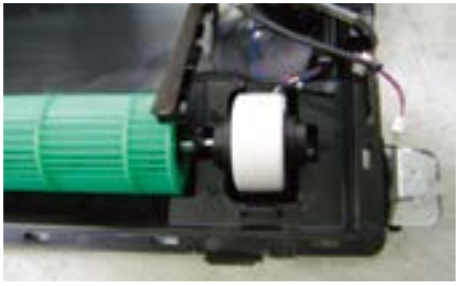
No	Parts	Procedure	Remark
1	Panel and FILTER Interior type (PC1NWSK1 PC1NWSK2 PC1BWXK1 PC1BWXK2)	1) Open the GRILLE as shown in the figure. 2) Remove the FILTER from the panel. 3) Remove the 2 COVER SCREWS. 4) Remove the 5 screws on the panel and remove it from the fan coil unit. (use +SCREWDRIVER) 5) Press the left and right hooks on the PANEL to remove it from the fan coil unit.	       

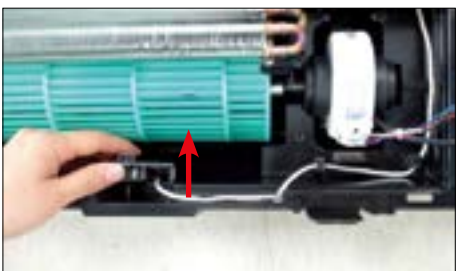
No	Parts	Procedure	Remark
	Panel and FILTER (continued)	6) Open the GRILLE and then raise the LINK LEVER switch (yellowish green) of both sides in the direction of the arrow and remove the LINK LEVER. 7) Remove the COVER DISPLAY screws with an electric drill and remove the COVER DISPLAY. 8) Remove the remote controller receiver PBA and display PBA connectors.	    

No	Parts	Procedure	Remark
	Panel and FILTER (continued)	9) Remove the STEP MOTOR screws and remove the MOTOR. 10) Remove BLADE H.	  

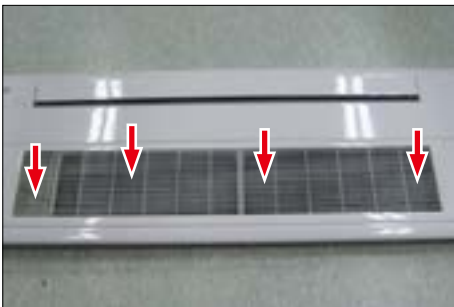
No	Parts	Procedure	Remark
2	DRAIN PAN	1) Remove the 5 screws of the DRAIN PAN (use +SCREWDRIVER). 2) Pull the DRAIN PAN and remove it from the pan coil unit. ⚠ When removing the PAN, be careful not to touch the heat exchanger pin with your bare hands.	 
3	Electronics	1) Remove the 3 screws of the electronics board and remove the cover. (use +screwdriver).	 

No	Parts	Procedure	Remark
		2) Remove the 8 connectors connected to the fan coil unit PCB. 3) Remove the electronics board from the fan coil unit.	  
4	DRAIN SUB	1) Press the DRAIN SUB's HOOK to remove it.	 

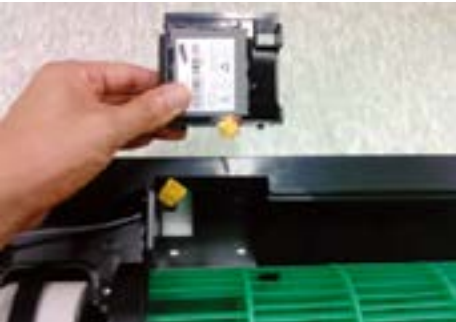
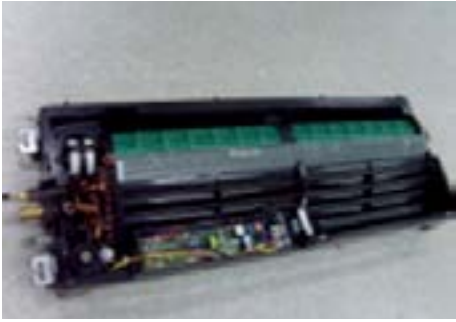
No	Parts	Procedure	Remark
5	Heat exchanger	1) Remove 1 screw from the heat exchanger. (use +SCREWDRIVER) 2) Remove the fan coil unit SENSOR from the heat exchanger. 3) Remove the heat exchanger from the fan coil unit. ⚠ When turning on the cold/hot water after replacing the heat exchanger, make sure to open the air release valve to sufficiently remove air from inside the coil and pipe by collecting the water using the tube before closing the valve. Failure to do so may result in decreased performance and noise generation.	   
6	CROSS FAN	1) Remove the 3 screws of the COVER FAN MOTOR. (use +SCREWDRIVER) 2) Remove the COVER FAN MOTOR from the fan coil unit.	 

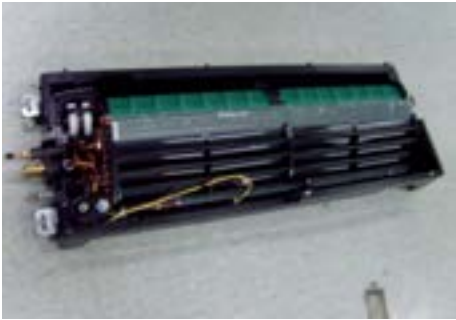
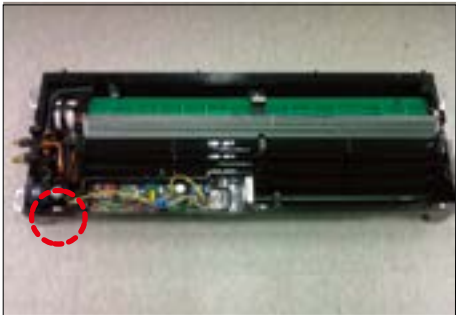
No	Parts	Procedure	Remark
		3) Remove the CROSS FAN from the fan coil unit.	
7	DRAIN PUMP	1) Remove 1 screw from the COVER DRAIN PUMP. (use +SCREWDRIVER) 2) Remove the DRAIN HOSE from the DRAIN Pump. 3) SSW remove the DRAIN PUMP from the fan coil unit.	  
8	SPI KIT	1) Remove the SPI KIT from CABI IN.	

■ AG042MN1DEH/EU

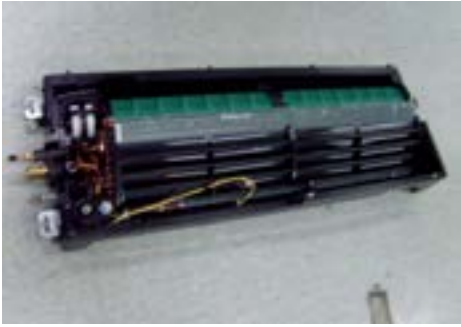
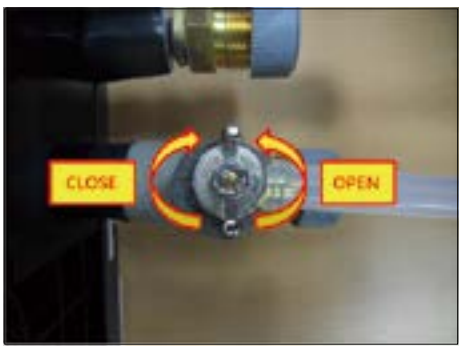
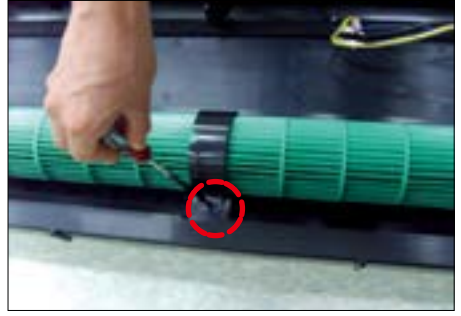
No	Parts	Procedure	Remark
1	PANEL and FILTER	1) Open by pressing the GRILLE's PUSH button. 2) Remove 1 clip from the PANEL and tilt the GRILLE 90 degrees to separate it from the PANEL. 3) Remove the FILTER from the PANEL. 4) Remove the 4 COVER SCREWS. \ 5) Remove the 6 screws in the PANEL and remove it from the fan coil unit. (use +SCREWDRIVER)	    

No	Parts	Procedure	Remark
		6) Press the left and right hooks on the PANEL to remove it from the indoor unit.	
2	DRAIN PUMP	1) Remove the 6 screws of the DRAIN PAN (use +SCREWDRIVER). 2) Remove the 2 hooks that fix the DRAIN PAN and remove it from the fan coil unit. ⚠ Be Careful not to touch heat exchanger panel when PAN is separated.	
3	SPI-KIT (Option)	1) Remove the SPI KIT from the fan coil unit as shown in the image.	

No	Parts	Procedure	Remark
			 
4	Electronics board	1) Remove the 3 screws of the electronics board and remove the cover (use +SCREWDRIVER). 2) Remove the 8 connectors connected to the fan coil unit PCB. ⚠ Make sure to turn the power OFF when coming into contact with the fan part. The sharp fan may cause injury.	  

No	Parts	Procedure	Remark
		1) Remove the electronics board from the fan coil unit.	 
5	DRAIN PUMP	1) Remove the 2 screws of the COVER DRAIN PUMP and remove it (use +SCREWDRIVER). 2) Loosen the BAND RING and remove the DRAIN HOSE from the DRAIN PUMP. 3) Remove the DRAIN PUMP from the fan coil unit.	  

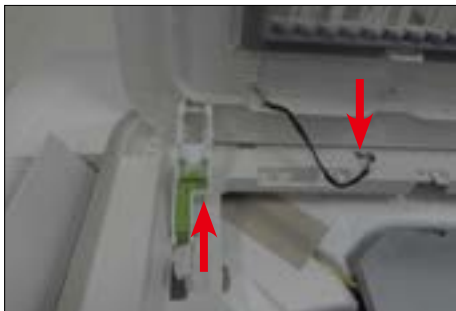
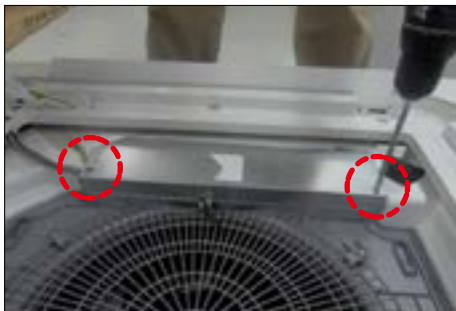
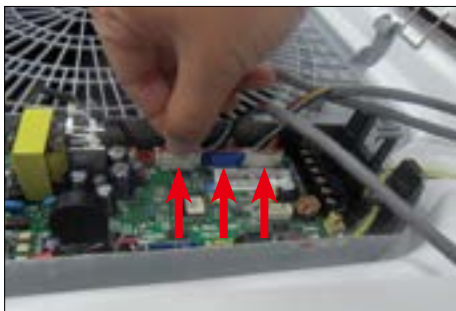
No	Parts	Procedure	Remark
6	DRAIN SUB	1) Remove the DRAIN SUB's screw (use +SCREWDRIVER). 2) Hold the DRAIN SUB HOOK and remove it.	 
7	Heat exchanger	1) Remove 1 screw of the heat exchanger (use +SCREWDRIVER). 2) Remove the fan coil unit SENSOR from the heat exchanger. 3) Remove the EEV connector from the PCB.	  

No	Parts	Procedure	Remark
		1) Remove the heat exchanger from the fan coil unit. ⚠ When turning on the cold/hot water after replacing the heat exchanger, make sure to open the air release valve to sufficiently remove air from inside the coil and pipe by collecting the water using the tube before closing the valve. Failure to do so may result in decreased performance and noise generation.	 
8	CROSS FAN	1) Remove the 3 screws of the COVER FAN MOTOR (use +SCREWDRIVER). 2) Remove the HOLDER FAN's screw (use +SCREWDRIVER). ⚠ When reassembling, make sure that the end of the HOLDER FAN coincides the face of ASS'Y CROSS FAN_L.	 

No	Parts	Procedure	Remark
		1) Remove the COVER FAN MOTOR from the fan coil unit.	
		2) Remove 1 screw of the CROSS FAN.	
		3) Remove the CROSS FAN from the fan coil unit.	

3-1-2. 4-Way Cassette Type

■ AG041/060/072/090/105MN4DKH/EU

No	Parts	Procedure	Remark
1	Panel	1) Press the handles on either side of the Samsung logo together and pull the grille to open it. 2) Push up the green switch in the direction of the Open mark and then remove the white link from the panel. Then remove the safety clip. 3) Loosen the 2 screws halfway and then push the electronics board cover towards the direction of the hole where the screw can fall in to remove it (use +SCREWDRIVER) 4) Remove the remote control receiver and the blade connector wire from the fan coil unit controller (3 spots) 5) Remove the panel by pressing its 4 corners downward.	    

No	Parts	Procedure	Remark
		6) Remove the 4 bolts on the panel corner connected to the fan coil unit (use +SCREWDRIVER) 7) Press inward the hanger on either side of the panel while turning it 90 degrees to remove it from the fan coil unit. Doing this will enable you to remove the panel from the fan coil unit.	 
2	Controller	1) Remove the connector wire that is connected to the fan coil unit controller. 2) Remove the 2 screws fixed on either side of the electronics board to remove the board from the fan coil unit (use +SCREWDRIVER)	  

No	Parts	Procedure	Remark
3	Intake	1) Remove 1 screw from the Bell-Mouth (use +SCREWDRIVER) 2) Remove the Bell-mouth by pushing it in the opposite direction of placing the electronics board.	 
4	Drain pan	1) Remove the screws located in the 4 corners of the fan coil unit (use +SCREWDRIVER) 2) Remove the Drain Pan from fan coil unit.	 

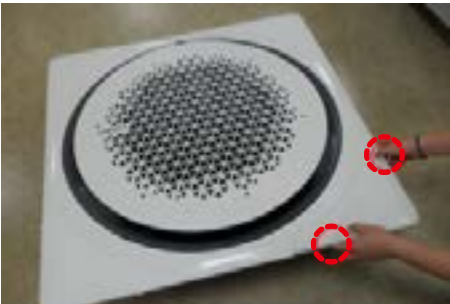
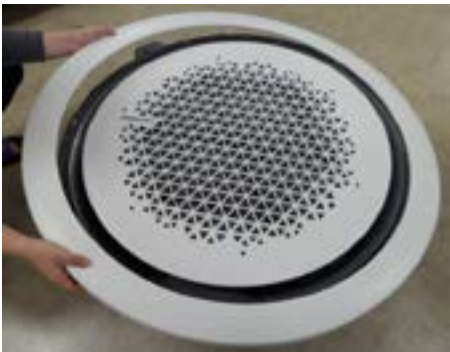
No	Parts	Procedure	Remark
5	Drain pump and hose	1) After removing the 2 screws, remove the white drain hose from the drain pump (use +SCREWDRIVER). 2) Remove the transparent drain hose fixed on the side of the fan coil unit by removing the 2 screws and the taking the drain hose out of the fan coil unit (use +SCREWDRIVER).	  
6	Evaporation temperature sensor	1) Detach the temperature sensor and fastening clip attached to the heat exchanger pipe.	

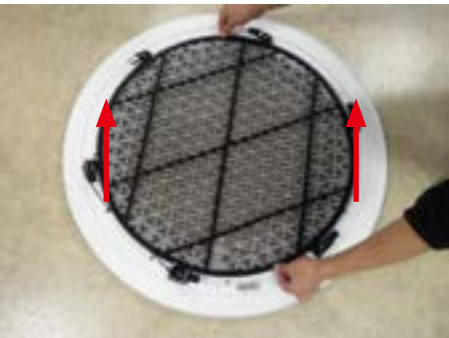
No	Parts	Procedure	Remark
7	Fan and motor	1) Turn the hexagonal nut on the top of the fan clockwise to remove it and then take the fan out of the motor (use MONKEY SPANNER). 2) Turn the 3 hexagonal nuts fastening the motor counter clockwise to remove them and then use your hand to take out the Motor Wire that is fastened in 3 spots to remove the motor (use MONKEY SPANNER, +SCREWDRIVER).	  
8	Evaporator	1) Remove the 2 screws to remove the Holder Evap that is fastening the heat exchanger (use +SCREWDRIVER). 2) Remove the Partition Evap screws (2 spots) where the heat exchanger In/Out Pipe is located (use +SCREWDRIVER).	 

No	Parts	Procedure	Remark
		3) Remove 1 screw from the Cover Pipe fastening the In/Out Pipe to remove it (use +SCREWDRIVER). 4) Remove the heat exchanger from the fan coil unit cabinet. ⚠ When turning on the cold/hot water after replacing the heat exchanger, make sure to open the air release valve to sufficiently remove air from inside the coil and pipe by collecting the water using the tube before closing the valve. Failure to do so may result in decreased performance and noise generation.	   

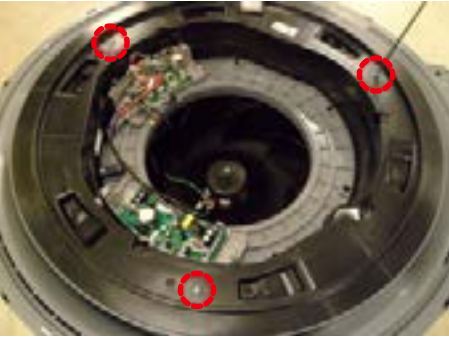
3-1-3. Circular Cassette Type

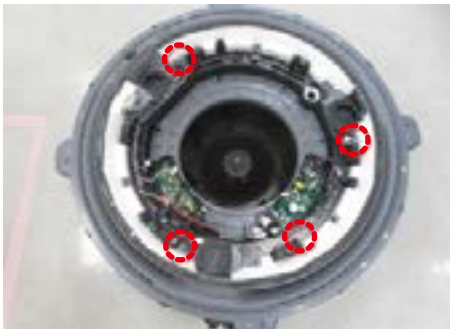
■ AG060/072/090/105MN4PKH/EU

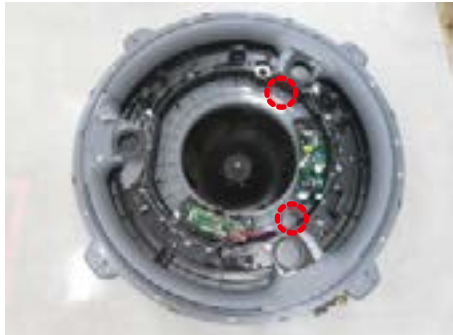
No	Parts	Procedure	Remark
1	Panel	► Embedded-type panel 1) Use some force pulling up the 4 corners of the panel to remove it. 2) Remove the 4 screws located on the 4 corners of the panel (use +SCREWDRIVER). 3) Pull the hanging structure used to fix the panel to remove it from the panel and fan coil unit.	  
		► Exposed type panel 1) Use some force to turn the outer panel counter clockwise to remove it.	 

No	Parts	Procedure	Remark
1	Panel	4) Use some force to push the grille counter clockwise 5) Take out the safety clip from inside the grille and completely separate the panel and fan coil unit. 6) Grab the filter with both hands and pull it upward to separate the grille and filter.	  

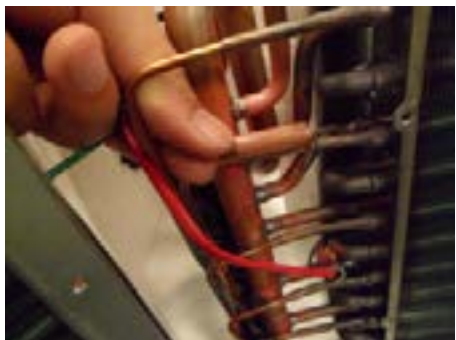
No	Parts	Procedure	Remark
2	Controller	1) Remove the screw connected to the top of the fan coil unit (use +SCREWDRIVER).... 2) 'Put your fingers inside the hole labeled 'PULL' and lift it lightly to remove the cover. 3) After removing the screw, open the controller cover while avoiding the hanging structure shown in the image.	    

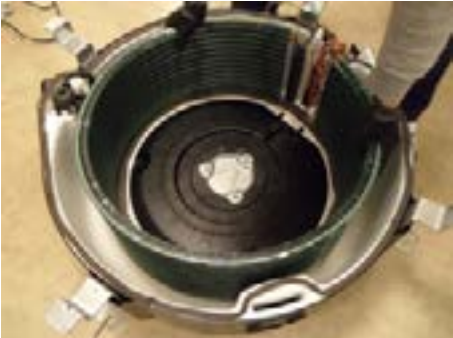
No	Parts	Procedure	Remark
2	Controller	4) Remove the connector connected to the controller. 5) Remove the ground screw (use +SCREWDRIVER).	 
3	Upper cover and drain pan	1) Remove the 3 screws (use +SCREWDRIVER). 2) Push the hanging structure to completely remove the cover. ⚠ Be careful not to damage the product when using sharp tools. 3) Remove the screw connecting the Booster fan (use +SCREWDRIVER).	  

No	Parts	Procedure	Remark
		4) After taking out the fastened Booster fan connector, remove the connecting piece.	 
		5) Remove the 4 screws (use +SCREWDRIVER).	 
		6) Push the hanging structure to completely remove the cover.	

No	Parts	Procedure	Remark
		7) Remove the screw to remove the display cover (use +SCREWDRIVER).	
		8) Remove the 2 screws (use +SCREWDRIVER).	
		9) Push the hanging structure to completely remove the cover.	
		10) Remove the 8 screws. (use +SCREWDRIVER).	
		11) Lift the top part of the fan coil unit to remove it from the main body.	

No	Parts	Procedure	Remark
		12) Remove the 3 screws (use +SCREWDRIVER). 13) Pull the hanging structure located on the side to completely remove the cover.	   
4	Drain pump and hose	1) Remove the drain hose from the drain pump..	

No	Parts	Procedure	Remark
		2) Remove the 2 screws to remove the drain hose fastened at the bottom of the side of the fan coil unit (use +SCREWDRIVER).	
5	Pan and motor	1) Remove the hexagonal nut at the top of the fan to separate the fan from the motor (use Monkey spanner). 2) Remove the 3 hexagonal nuts fastening the motor to separate the motor and the fan coil unit (use Monkey spanner).	 
6	Temperature sensor	1) Remove the 6 screws on the evaporator and remove the partition. 2) Remove the temperature sensor attached to the evaporator pipe along with the fastening clip.	 

No	Parts	Procedure	Remark
7	Evaporator	1) Remove the screw on the fan coil unit main body to remove the evaporator fastening structure (use +SCREWDRIVER). 2) Remove the screw on the fan coil unit main body and then pull the hanging structure to remove the pipe cover (use +SCREWDRIVER) ⚠ When assembling, be careful of the protruding pipe hanging structure. 3) Lift the evaporator and remove from the fan coil unit main body. ⚠ Make sure to wear gloves as removing the evaporator with bare hands may lead to injury.	    

No	Parts	Procedure	Remark
		⚠ When turning on the cold/hot water after replacing the heat exchanger, make sure to open the air release valve to sufficiently remove air from inside the coil and pipe by collecting the water using the tube before closing the valve. Failure to do so may result in decreased performance and noise generation.	

4. Troubleshooting

4-1. Set fan coil unit address and installation options

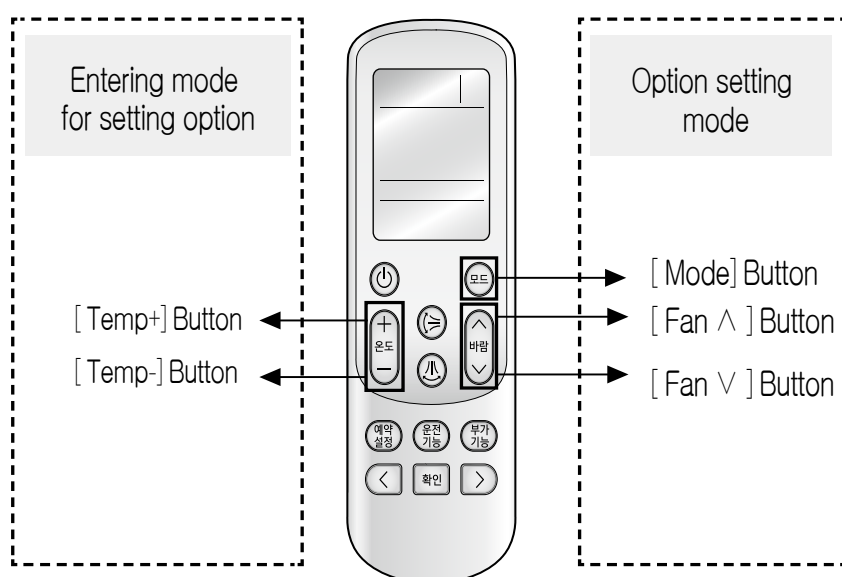
- Set the fan coil unit address and installation option with remote controller option.

Set the each option separately since you cannot set the ADDRESS setting and fan coil unit installation setting option at the same time.

You need to set twice when setting fan coil unit address and installation option.

4-1-1. Option setting procedure and setting method (Normal remote controller)

4-1-1-1. The procedure of setting option



Step 1 Entering mode for option setting

1. Remove batteries from the remote controller.
2. Insert the batteries while you press [Temp +] and [Temp -] button at the same time.
3. Make sure that you are entered to the  mode for setting the option.

Step 2 Option setting procedure

After entering the option setting status, select the option as listed below.

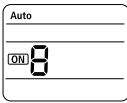
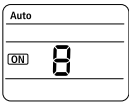
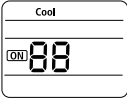
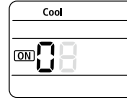
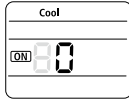
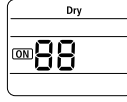
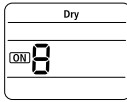
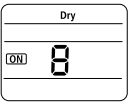
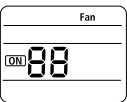
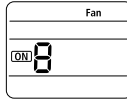
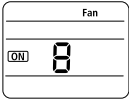
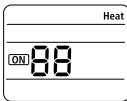
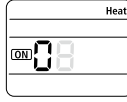
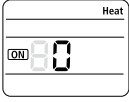
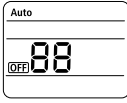


- Option setting is available from SEG1 to SEG 24.
- SEG1, SEG7, SEG13, SEG19 are not set as page option.
- Enter the 2 digits except sequential page option in relevant state. SEG2-->SEG4, SEG5-->SEG6, SEG8-->SEG9, SEG10-->SEG11, SEG12-->SEG14, SEG15-->SEG16, SEG17-->SEG18, SEG20-->SEG21, SEG22-->SEG23, SEG24

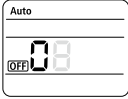
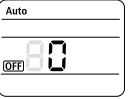
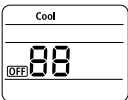
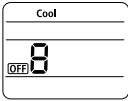
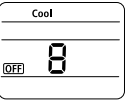
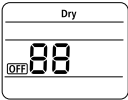
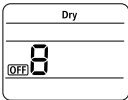
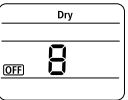
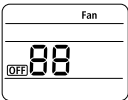
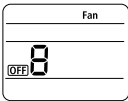
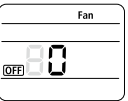
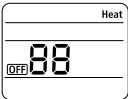
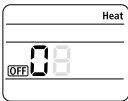
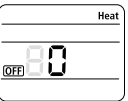
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
0	X	X	X	X	X	1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
2	X	X	X	X	X	3	X	X	X	X	X

On(SEG1-12)	Off(SEG13-24)
Auto	Auto
00	00

4-1-1-2. The procedure of setting option

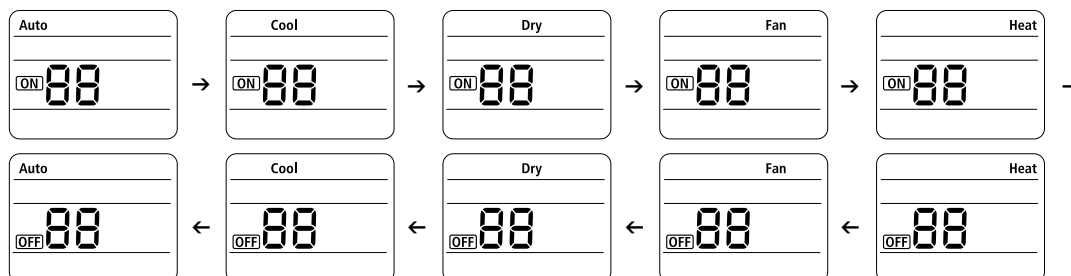
Option setting	Status
1. Setting SEG2, SEG3 option Press Low Fan button(^) to enter SEG2 value. Press High Fan button(^) to enter SEG3 value. Each time you press the button,  →  → ...  →  will be selected in rotation.	  SEG2 SEG3
2. Setting Cool mode  Press Mode button to be changed to Cool mode in the ON status.	
3. Setting SEG4, SEG5 option Press Low Fan button(^) to enter SEG4 value. Press High Fan button(^) to enter SEG5 value. Each time you press the button,  →  → ...  →  will be selected in rotation.	  SEG4 SEG5
4. Setting Dry mode  Press Mode button to be changed to DRY mode in the ON status.	
5. Setting SEG6, SEG8 option Press Low Fan button(^) to enter SEG6 value. Press High Fan button(^) to enter SEG8 value. Each time you press the button,  →  → ...  →  will be selected in rotation.	  SEG6 SEG8
6. Setting Fan mode  Press Mode button to be changed to FAN mode in the ON status.	
7. Setting SEG9, SEG10 option Press Low Fan button(^) to enter SEG9 value. Press High Fan button(^) to enter SEG10 value. Each time you press the button,  →  → ...  →  will be selected in rotation.	  SEG9 SEG10
8. Setting Heat mode  Press Mode button to be changed to HEAT mode in the ON status.	
9. Setting SEG11, SEG12 option Press Low Fan button(^) to enter SEG11 value. Press High Fan button(^) to enter SEG12 value. Each time you press the button,  →  → ...  →  will be selected in rotation.	  SEG11 SEG12
10. Setting Auto mode  Press Mode button to be changed to AUTO mode in the OFF status.	

■ The procedure of setting option (cont.)

Option setting	Status
11. Setting SEG14, SEG15 option Press Low Fan button(^) to enter SEG14 value. Press High Fan button(^) to enter SEG15 value. Each time you press the button,  →  → ...  →  will be selected in rotation.	  SEG14 SEG15
12. Setting Cool mode  Press Mode button to be changed to Cool mode in the ON status.	
13. Setting SEG16, SEG17 option Press Low Fan button(^) to enter SEG16 value. Press High Fan button(^) to enter SEG17 value. Each time you press the button,  →  → ...  →  will be selected in rotation.	  SEG16 SEG17
14. Setting Dry mode  Press Mode button to be changed to DRY mode in the ON status.	
15. Setting SEG18, SEG20 option Press Low Fan button(^) to enter SEG18 value. Press High Fan button(^) to enter SEG20 value. Each time you press the button,  →  → ...  →  will be selected in rotation.	  SEG18 SEG20
16. Setting Fan mode  Press Mode button to be changed to Fan mode in the ON status.	
17. Setting SEG21, SEG22 option Press Low Fan button(^) to enter SEG18 value. Press High Fan button(^) to enter SEG20 value. Each time you press the button,  →  → ...  →  will be selected in rotation.	  SEG21 SEG22
18. Setting Heat mode  Press Mode button to be changed to Heat mode in the ON status.	
19. Setting SEG23, SEG24 option Press Low Fan button(^) to enter SEG23 value. Press High Fan button(^) to enter SEG24 value. Each time you press the button,  →  → ...  →  will be selected in rotation.	  SEG23 SEG24

Step 3 Check the option you have set

After setting option, press  button to check whether the option code you input is correct or not.



Step 4 Input option

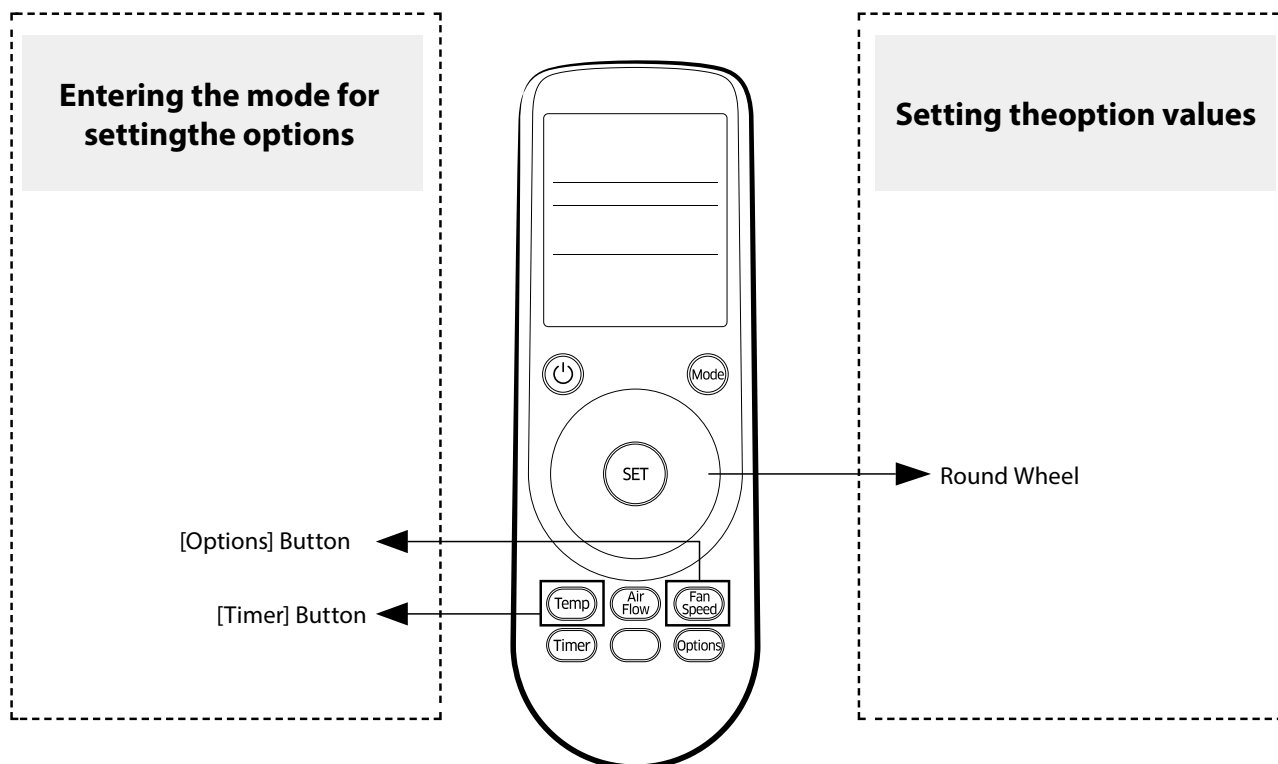
Press  operation button with the direction of remote control for set.
For the correct option setting, you must input the option twice.

Step 5 Check operation

1. Reset the indoor unit by pressing the RESET button of indoor unit or outdoor unit.
2. Take the batteries out of the remote controller and insert them again and then press  operation button.

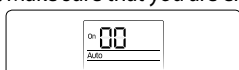
4-1-2. Option setting procedure and setting method (360 cassette remote controller only)

4-1-2-1. The procedure of setting option



Step 1 Enter the mode for setting the options

- Remove batteries from the remote control.
- While holding down the **Temp** (Temp) and **Timer** (Timer) buttons simultaneously, insert the batteries into the remote control.
- Make sure that you are entered to the mode for setting the options:

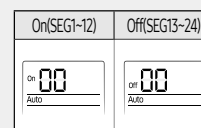


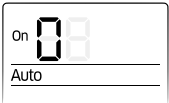
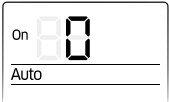
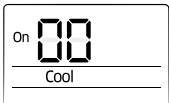
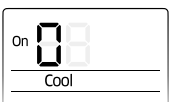
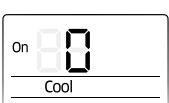
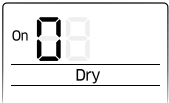
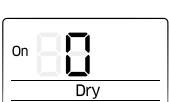
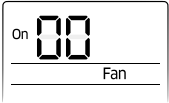
Step 2 Set the option values.

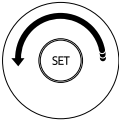
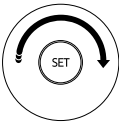
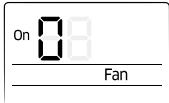
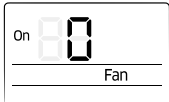
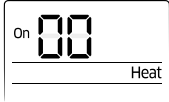
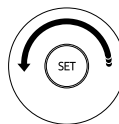
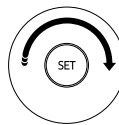
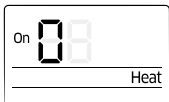
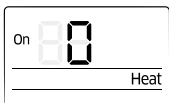
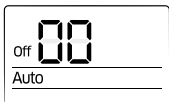
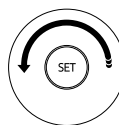
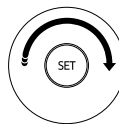
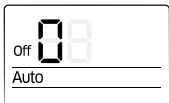
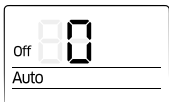
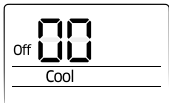


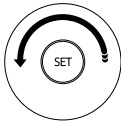
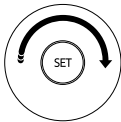
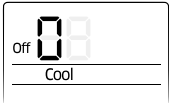
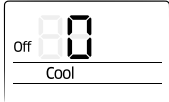
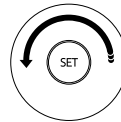
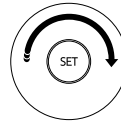
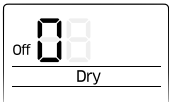
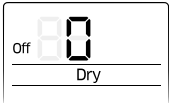
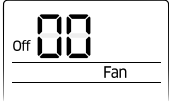
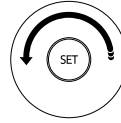
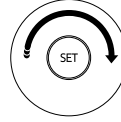
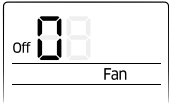
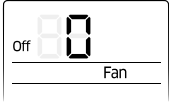
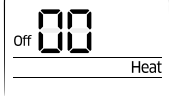
- The total number of available options are 24: SEG1 to SEG24.
- Because SEG1, SEG7, SEG13, and SEG19 are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: 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

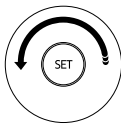
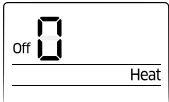
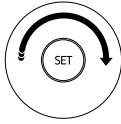
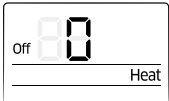
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
0	X	X	X	X	X	1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
2	X	X	X	X	X	3	X	X	X	X	X



Steps	Remote control display
1 Set the SEG2 and SEG3 values: a Set the SEG2 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. b Set the SEG3 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. When you rotate the Wheel, values appear in the following order:	 SEG2  SEG3
2 Press the  (Mode) button. Cool and On appear on the remote control display.	
3 Set the SEG4 and SEG5 values: a Set the SEG4 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. b Set the SEG5 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. When you rotate the Wheel, values appear in the following order:	 SEG4  SEG5
4 Press the  (Mode) button. Dry and On appear on the remote control display.	
5 Set the SEG6 and SEG8 values: a Set the SEG6 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. b Set the SEG8 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. When you rotate the Wheel, values appear in the following order:	 SEG6  SEG8
6 Press the  (Mode) button. Dry and On appear on the remote control display.	

Steps	Remote control display
7 Set the SEG9 and SEG10 values: a Set the SEG9 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.  b Set the SEG10 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.  When you rotate the Wheel, values appear in the following order: 0 → 1 → ... E → F	 SEG9  SEG10
8 Press the  (Mode) button. Heat and On appear on the remote control display.	
9 Set the SEG11 and SEG12 values: a Set the SEG11 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.  b Set the SEG12 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.  When you rotate the Wheel, values appear in the following order: 0 → 1 → ... E → F	 SEG11  SEG12
10 Press the  (Mode) button. Auto and On appear on the remote control display.	
11 Set the SEG14 and SEG15 values: a Set the SEG14 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.  b Set the SEG15 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.  When you rotate the Wheel, values appear in the following order: 0 → 1 → ... E → F	 SEG14  SEG15
12 Press the  (Mode) button. Cool and Off appear on the remote control display.	

Steps	Remote control display
13 Set the SEG16 and SEG17 values: a Set the SEG16 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.  b Set the SEG17 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.  When you rotate the Wheel, values appear in the following order: 0 → 1 → ... → E → F	 SEG16  SEG17
14 Press the  (Mode) button. Day and Off appear on the remote control display.	
15 Set the SEG18 and SEG20 values: a Set the SEG18 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.  b Set the SEG20 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.  When you rotate the Wheel, values appear in the following order: 0 → 1 → ... → E → F	 SEG18  SEG20
16 Press the  (Mode) button. Fan and off appear on the remote control display.	
17 Set the SEG21 and SEG22 values: a Set the SEG21 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.  b Set the SEG22 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.  When you rotate the Wheel, values appear in the following order: 0 → 1 → ... → E → F	 SEG21  SEG22
18 Press the  (Mode) button. Heat and off appear on the remote control display.	

Steps		Remote control display
19 Set the SEG23 and SEG24 values:		
a Set the SEG23 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.		
b Set the SEG24 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.		
When you rotate the Wheel, values appear in the following order:		0 → 1 → ... → E → F

4-1-3. Fan Coil Unit Address (MAIN/RMC) Setting

1. Check whether or not power is being supplied to the fan coil unit.

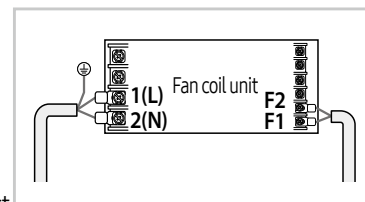
▶ If power is not being supplied, a separate power supply device will be required.

2. A panel or DISPLAY that can receive option inputs must be connected to the fan coil unit.

3. Depending on the air-con installation conditions, the addresses (MAIN/RMC) of each fan coil unit must be set.

4. Set the addresses (MAIN/RMC) of each fan coil unit using the remote controller.

▶ The initial setting value of the fan coil unit address (MAIN/RMC) is "0A0000-100000-200000-300000".



Option No. : 0AXXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	Page		Mode		MAIN address setting		MAIN address setting		Fan coil address tens digit		Fan coil address units digit	
Remote controller display												
Indication and details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		A		0	Do not set address	0~9	Hundreds digit	0~9	Tens digit	0~9	Units digit
					1	Address setting mode						
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	Page				RMC address setting				Group channel (*16)		Group address	
Remote controller display												
Indication and details	Indication	Details	No function		Indication	Details	No function		Indication	Details	Indication	Details
	1				0	Do not set address			RMC1	0~2	RMC2	0~F
					1	Address setting Mode						



caution

- If "A"~"F" is inputted in SEG5~SEG6, the fan coil MAIN address will not be changed.
- If "0" is inputted in SEG3, the fan coil will maintain the existing MAIN address even if an option value is inputted in SEG5~SEG6.
- If "0" is inputted in SEG9, the fan coil will maintain the existing RMC address even if an option value is inputted in SEG11~12.

4-1-4. Fan Coil Unit Installation Option Setting (setting option to suit installation site conditions)

1. Check whether or not power is being supplied to the fan coil unit.

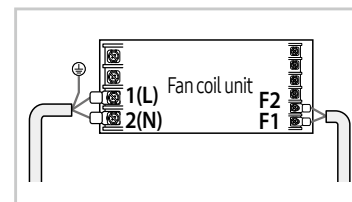
- ▶ If power is not being supplied, a separate power supply device will be required.

2. A panel or DISPLAY that can receive option inputs must be connected to the fan coil unit.

3. Depending on the air-con installation conditions, the fan coil unit installation options must be set.

- ▶ The initial setting value of the installation options of the fan coil unit is "020010-100000-200000-300000".
- ▶ The individual control setting (SEG20) of the fan coil unit is a setting to individually control the fan coil unit when more than 1 fan coil units are installed.

4. Set the fan coil unit options using the remote controller.



■ 02 series installation option

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	Robot cleaning	External temperature sensor	Central control	FAN RPM compensation
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Drain pump	Hot water heater	Electronic heater	-	Master / Slave
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	External control	External control output	S-Plasma ion	Buzzer	Filter usage time setting
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	Remote control individual control	Heating setting compensation	-	-	Human sensor

▶ 1 WAY/2WAY/4WAY/360 cassette model:

- It will be set as "Use + 3 minute delay" even if the drain pump (SEG8) setting value is set as "0".

- If the SEG18 setting value is designated a number other than 2 or 6, the filter usage time (SEG18) will automatically be set as 1000 hours.

- ▶ If set as a value other than the SEG setting, it will be set as the default "0".

▶ The SEG5 central control usage option is set to the default 2 (Use). Therefore, using the central control does not require a separate setting.

At this point, an error will not occur even if central control is not connected, and change it to 0 (Disuse) if the fan coil unit will be excluded.

- ▶ The output of the external Heater of SEG15 will be outputted through an AIM-B14 connection (please refer to AIM-B14 manual).

Option No. : 02XXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1		SEG2		SEG3		SEG4			SEG5		SEG6	
Explanation	Page		Mode		Use of robot cleaning		Use of external temperature sensor			Use of central control		FAN RPM compensation	
Indication and details	Indication	Details	Indication	Details	Indication	Details	Indication	Details		Indication	Details	Indication	Details
	0		2		0	Disuse	0	Use of external temperature sensor	Minimize Fan operation during Thermo Off	0	Disuse	0	Disuse
							1	Use	Disuse				
							2	Disuse	Use when heating (*1)				
							3	Use	Use when heating (*1)				
							4	Disuse	Use when heating (*1)				
							5	Use	Use when heating (*1)				
					1	Use	6	Disuse	Use when heating (*1)	1	Use	2	High ceiling KIT (only applies to 4-Way models)
							7	Use	Use(*1)				
							8	Disuse	Use(*1)				
							9	Use	Lowest speed when cooling(*1)				
							A	Disuse	Lowest speed when cooling/ Use when heating (*1)				
							B	Use	Lowest speed when cooling/ Use when heating (*1)				
					Option	SEG7		SEG8		SEG9		SEG10	
Explanation	Page		Use of drain pump		Use of hot water heater								
Indication and details	Indication	Details	Indication	Details	Indication	Details	-			-		-	
	1		0	Disuse	0	Disuse							
			1	Use	1	Use(*2)							
			2	Run Drain Pump for 3 minutes when indoor unit is stopped	2								
					3	Use(*2)							
Option	SEG13		SEG14		SEG15			SEG16		SEG17		SEG18	
Explanation	Page		Use of external control		External control output / External heater output / Cooling operation output / Outside air introduction cooling output			S-Plasma ion		Buzzer control		Filter usage time setting	
Indication and details	Indication	Details	Indication	Details	Indication	Details		Indication	Details	Indication	Details	Indication	Details
	2		0	Disuse	0	External control output (Thermo On)		0	Disuse	0	Use buzzer	2	100 hours
			1	ON/OFF control	1	External control output (Operation On)							
					2	External heater output (*3)							
			2	OFF control	3	External heater output (*3)							
					4	Cooling operation output (*4)							
			3	Window On/Off Control	5	Outside air introduction cooling output (cooling Thermo On) (*5)		1	Use	1	Disuse of buzzer	6	200 hours
					6	Outside air introduction cooling output (Cooling/Dehumidifying Thermo On) (*5)							

Option	SEG19		SEG20		SEG21			SEG22	SEG23		
Explanation	Page		Individual control with remote control		Heating installation compensation Offset / Removing condensate water in the Heat mode			Human control	Human control		
Indication and details	Indication	Details	Indication	Details	Indication	Details		-	Indication	Details	
						Heating installation compensation Offset	Removing condensate water in the Heat mode				
	3		0 or 1	Channel 1	0	Default (*6)	Disuse		0	Disuse	
					1	2 °C	Disuse		1	Turn OFF if absent for 30 minutes	
					2	5 °C	Disuse		2	Turn OFF if absent for 60 minutes	
			2	Channel 2	3	Default (*6)	Use (*7)		3	Turn OFF if absent for120 minutes	
									4	Turn OFF if absent for180 minutes	
			3	Channel 3	4	2 °C	Use (*7)		5	Turn OFF if absent for 30 minutes and advanced function (*1)	
									6	Turn OFF if absent for 60 minutes and advanced function (*1)	
			4	Channel 54	5	5 °C	Use (*7)		7	Turn OFF if absent for120 minutes and advanced function (*1)	
									8	Turn OFF if absent for180 minutes and advanced function (*1)	

(*1) Minimal Fan operation during Thermo Off

- Fan will run for 20 seconds every 5 minutes during heating Thermo off
- Fan will stop or run at ultra-low speed depending on settings during cooling Thermo off

(*2) 1: Fan will always be On if hot water heater is On

3: Fan will be Off if hot water heater in cooling-only indoor unit is On

[In order to use the applicable option function, a cooling and heating converter (ACM-C200) must be installed in the outdoor unit and fixed to cooling mode]

(*3) If 2, 3 is selected to use as external heater On/Off signal, the external contact point control Monitoring signal will not be outputted.

2: Fan will always be On when external heater is On

3: Fan will be Off when external heater is On in the cooling-only fan coil unit

[In order to use the applicable option function, a cooling and heating converter (ACM-C200) must be installed in the outdoor unit and fixed to cooling mode]

※ If set as SEG9=3 or SEG15=3 to set Fan Off regarding the cooling-only fan coil unit, the external sensor or cable remote control sensor must be used to accurately detect indoor temperature.

(*4) Output will be generated when running cooling or dehumidifying mode

(*5) An Economizer control is required to set outside air introduction cooling

(*6) Initial setting value

- 4-Way cassette, compact 4-Way cassette: 5 °C
- Other fan coil units: 2 °C

(*7) This function only applies to the 4-Way cassette and compact 4-Way cassette. If the outdoor unit switches to heating operation right after cooling is finished, the condensate water remaining in the Drain Pan will evaporate due to the heat of the fan coil unit heat exchanger. This may then condense on the surface of the product and drip into the living space. If using the applicable option, after the outdoor unit switches from cooling to heating, run the Fan (for maximum 20 minutes) even if the relevant fan coil unit is turned off so that the steam will be discharged outside the unit.

■ 05 series installation option

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	5	-	-	-	-
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	-	-	-	-	-
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	Light wind speed setting	Water valve control type	Valve opening control during Thermo Off	Water pipe Valve installation Y/N	Control variable when using hot water/external heater
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	FCU exclusive installation setting	Water temperature rise prevention error detection Skip Y/N	-	Cooling/heating operation wind speed forced setting	-

4-1-5. Option code per model

Item	Model	SEG																								Static Pressure
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Slim 1-Way cassette type	AG026MN1DBH1	0	1	7	0	4	4	1	1	5	4	0	8	2	0	1	A	1	A	3	3	0	0	1	0	
	AG032MN1DBH1	0	1	7	0	4	4	1	1	5	4	5	D	2	0	2	0	2	0	3	3	0	0	1	0	
	AG042MN1DBH1	0	1	8	0	4	4	1	9	5	4	3	C	2	0	2	A	2	A	3	3	0	0	1	0	
	AG047MN1DBH1	0	1	8	0	4	4	1	9	5	4	7	F	2	0	2	F	2	F	3	3	0	0	1	0	
2-Way cassette type	AG040MN2DBH1	0	1	2	0	4	4	1	1	5	5	6	1	2	0	2	8	2	8	3	3	0	0	1	0	
	AG045MN2DBH1	0	1	2	0	4	4	1	1	5	5	7	1	2	0	2	D	2	D	3	3	0	0	1	0	

Item	Model	SEG																											Static Pressure
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
Compact 4-Way cassette type	AG041MNNDBH1	0	1	6	0	5	7	1	2	5	A	F	1	2	0	2	9	2	9	3	3	0	0	1	0	0	1	0	
4-Way cassette type	AG060MN4DBH1	0	1	4	0	4	F	1	9	5	0	E	7	2	0	3	C	3	C	3	3	0	0	0	0	0	0	0	
	AG072MN4DBH1	0	1	4	0	4	F	1	9	5	4	1	9	2	0	4	8	4	8	3	3	0	0	0	0	0	0	0	
	AG090MN4DBH1	0	1	4	0	4	F	1	9	5	4	1	B	2	0	5	A	5	A	3	3	0	0	1	0	0	1	0	
	AG105MN4DBH1	0	1	4	0	4	F	1	9	5	4	4	F	2	0	6	9	6	9	3	3	0	0	1	0	0	1	0	
Circular type cassette type	AG060MN4PBH1	0	1	0	0	4	F	1	9	5	4	1	B	2	0	3	C	3	C	3	3	0	0	0	0	0	0	0	
	AG072MN4PBH1	0	1	0	0	4	F	1	9	5	4	2	D	2	0	4	8	4	8	3	3	0	0	2	0	0	2	0	
	AG090MN4PBH1	0	1	0	0	4	F	1	9	5	5	6	1	2	0	5	A	5	A	3	3	0	0	2	0	0	2	0	
	AG105MN4PBH1	0	1	0	0	4	F	1	9	5	5	9	1	2	0	6	9	6	9	3	3	0	0	2	0	0	2	0	

4-2. What to check before diagnosis

4-2-1. Lamp combination expression method DISPLAY

■ Slim 1-Way & 2-Way cassette type

▶ Error detection and restart

- 1. If an error occurs during operation, it will be indicated by a flickering LED and all operations excluding the LED will stop.
- 2. When restarting with the remote control or switch, the error mode will be determined after normal operation.

▶ LED lamp display during error detection

Abnormal condition	Error code	LED Display				
						
		Green	Red			
Indoor temperature Sensor error (Open/Short)	E121	×	×		×	×
1. Eva-In Sensor error (Open/short) 2. Eva-out Sensor error (Open/short)	E122 E123		×		×	×
Indoor Fan error	E123		×	×		×
1. If there is no communication between FCU ↔ repeater for 2 minutes 2. Communication Error received from repeater 3. Repeater Tracking 3 minute Error 4. Communication error after Tracking due to unmatching number of installed units 5. Error due to duplicated communication address 6. Communicated address unconfirmed, communication error for outdoor units excluding the ones above	E101 E102 E202 E201 E108 E109	×	×			×
Self-diagnosis error display 1. Water temperature increase prevention error (product will stop at high water temperatures of more than 65°C) 2. Thermal Fuse Open Error	E128 E198	×	×			
Floating S/W secondary detection	E153	×	×	×		
EEPROM error	E162					
EEPROM option error	E163					

 Flickering × Off

※ All displays will be turned off if operation is stopped during error display.

※ If restarting, the error will be re-determined after initial normal operations and error will be displayed again.

※ If error E108 occurs, reset the address and then reset the system.

Ex) If both #1 and #2 fan coil units are set as 5, #1 will change to #5 and E108, A002 will be displayed on #2

■ 4-Way & compact 4-Way cassette type

► Error detection and restart

- 1. If an error occurs during operation, it will be indicated by a flickering LED and all operations excluding the LED will stop
- 2. When restarting with the remote control or switch, the error mode will be determined after normal operation.

► LED lamp display during error detection

Abnormal operation	Error code	LED display			
		Operation	Defrost	Timer	Filter
Indoor temperature Sensor error (Open/Short)	E121	X	●	X	X
1. Eva-In Sensor error (Open/short) 2. Eva-out Sensor error (Open/short)	E122 E123	●	●	X	X
Indoor Fan error	E154	X	X	●	X
1. Outside temperature Sensor error	E221	●	X	●	X
1. If there is no communication between FCU ↔ repeater for 2 minutes 2. Communication Error received from repeater 3. Repeater Tracking 3 minute Error 4. Communication error after Tracking due to unmatching number of installed units 5. Error due to duplicated communication address 6. Communicated address unconfirmed, communication error for outdoor units excluding the ones above	E101 E102 E202 E201 E108 E109	X	●	●	X
Self-diagnosis error display Water temperature increase prevention error (product will stop at high water temperatures of more than 65°C)	E128	X	●	●	●
Floating s/w secondary detection	E153	×	×	●	●
EEPROM error	E162	●	●	●	●
EEPROM OPTION error	E163	●	●	●	●

● On ● Flicker × Off

※ All displays will be turned off if operation is stopped during error display.

※ If restarting, the error will be re-determined after initial normal operations and error will be displayed again.

※ If error E108 occurs, reset the address and then reset the system.

Ex) If both #1 and #2 fan coil units are set as 5, #1 will change to #5 and E108, A002 will be displayed on #2

■ Circular type cassette type

► LED lamp display during error detection

Abnormal operation	Error code	LED display			
		Ice blue	Yellow green	Blue	Red
Power RESET (flickering every 2 seconds)	-	●	×	×	×
Indoor temperature Sensor Error (Open/short)	E121	×	×	×	●
Eva-In Sensor Error (Open/short) Eva-out Sensor Error (Open/short)	E122 E123	×	●	×	●
Indoor Fan Error	E154	×	×	●	●
Water temperature increase prevention error (product will stop at high water temperatures of more than 65°C)	E128				
Self-diagnosis error		×	×	●	×
If there is no communication between FCU ↔ repeater for 2 minutes Communication Error received from repeater Repeater Tracking 3 minute Error Communication error after Tracking due to unmatching number of installed units Error due to duplicated communication address (NASA Only) Communicated address unconfirmed (NASA Only) Communication error excluding ones above	E101 E102 E202 E201 E108 E109	×	●	×	×
Floating s/w secondary detection	E153	×	●	●	×
EEPROM ERROR	E162	●	●	×	●
EEPROM OPTION ERROR	E163				
Fan coil unit incompatibility Error	E164	●	×	×	●
Thermal Fuse Open Error	E198	●	×	●	×

● On ○ Flickering × Off

※ Display interval will be alternate flickering every 2 [SEC] for 2 colors
(Ex 1[S]=yellow green on, 1[S]=red on)

※ Display interval will be alternate flickering every 3 [SEC] for 3 colors
(Ex 1[S]=red on, 1[S]=ice blue on, 1[S]=yellow green on)



Ice blue	Yellow green
Blue	Red

4-2-2. Number expression method DISPLAY (fan coil unit, cable remote control, etc.)

■ Combined ERROR code display method

▶ Meaning of Error number/first alphabet character

DISPLAY	Alphabet explanation
<i>E</i>	101~700 error display
<i>P</i>	701~800 error display
<i>A</i>	Fan coil unit address display Ex) A000: fan coil unit address 0, A001: fan coil unit address 1, A002: fan coil unit address 2

▶ Error display order

No	Error display method	Display example
Display method of error occurring in fan coil unit	Error number → fan coil unit address → Error number , repeat display	E471 → A002 → E471 → A002

■ Diagnosis and adjustment (Error Code)

► Fan coil unit related Error Code

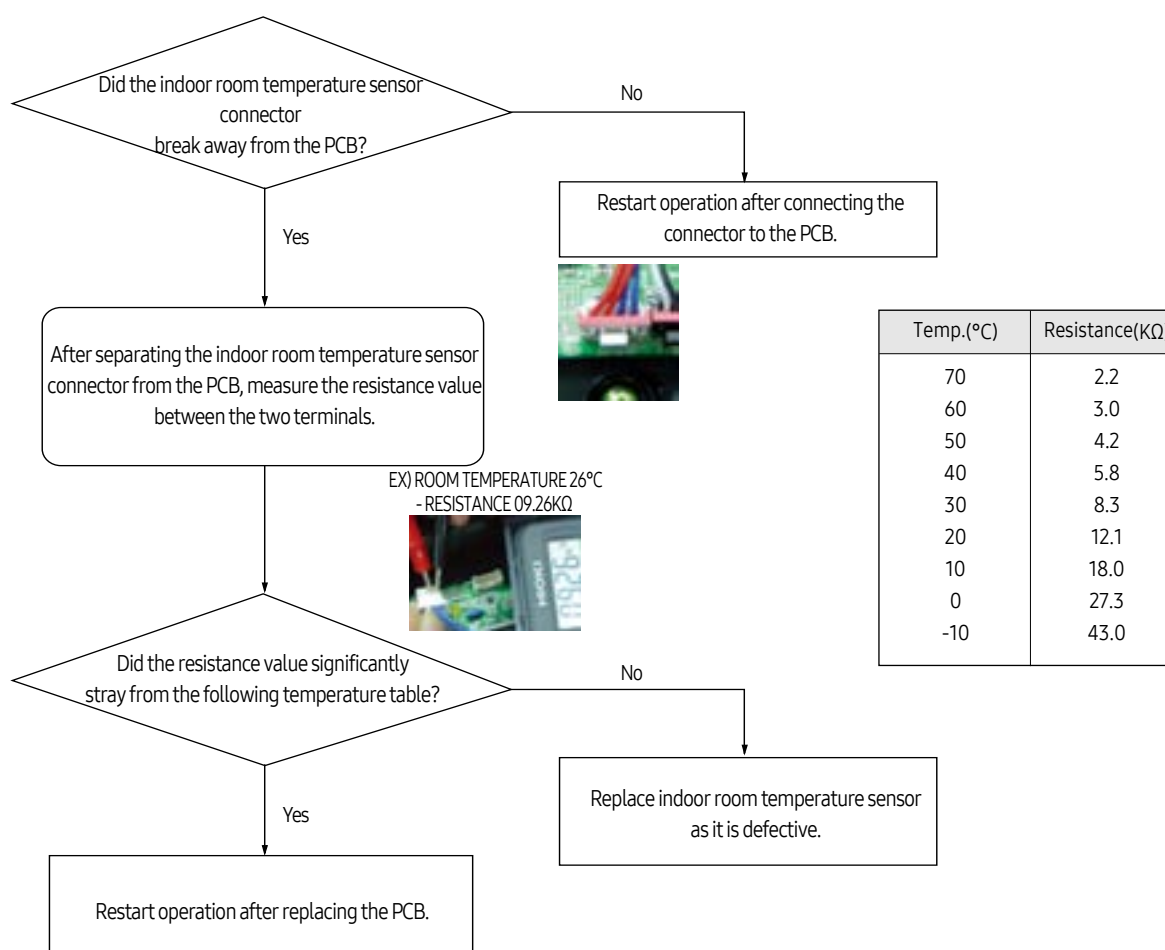
Error mode	Cause	Explanation
1	E-108	Error due to repeated address setting (When 2 or more devices have same address within the network)
2	E-121	Indoor temperature sensor of fan coil unit (Open or Short)
3	E-122	Eva in temperature sensor of fan coil unit (Open or Short)
4	E-123	Eva out temperature sensor of fan coil unit (Open or Short)
5	E-128	Water temperature increase prevention error (product will stop at high water temperatures of more than 65°C)
6	E-153	Floating switch error of fan coil unit (during secondary detection)
7	E-154	Fan coil unit Fan operation error
8	E-161	Mixed operation mode error of fan coil unit; When outdoor unit is getting ready to operate in cooling (or heating) and some of the fan coil units are trying to operate in heating (or cooling) mode
9	E-162	EEPROM error of MICOM (physical problem of parts/circuit)
10	E-163	Indoor unit option error (unentered option or incorrect entry)
11	E-170	Error due to confused use of Fahrenheit and Celsius
12	E-627	Error due to excessive number of cable remote control installations (2 installations)
13	E-633	Error due to model installation mix-up
14	E-653	Short circuit or malfunction of temperature sensor inside remote control
15	E-654	Remote control Data error (Memory Read/Write Error)
16	E-702	Error due to closed EEV of fan coil unit (during primary detection)

4-3. Appropriate Measures for Different Symptoms

4-3-1. Fan coil unit ROOM sensor error (OPEN/SHORT)

Error number	E 121																	
Fan coil unit display	Duct, cassette (1-Way/2-Way/Mini 4-Way)				4-Way cassette type				Wall mount type				Circular cassette type					
	LED Indication																	
						run / stop	Defrost	Timer	Clean Filter									
	1-Way																	
	blue	Yellow green																
	2-Way																	
	Green	Red																
Criteria	· Refer to the judgment method below																	
Cause of problem	· Faulty OPEN/SHORT of number xxx fan coil unit indoor temperature sensor																	

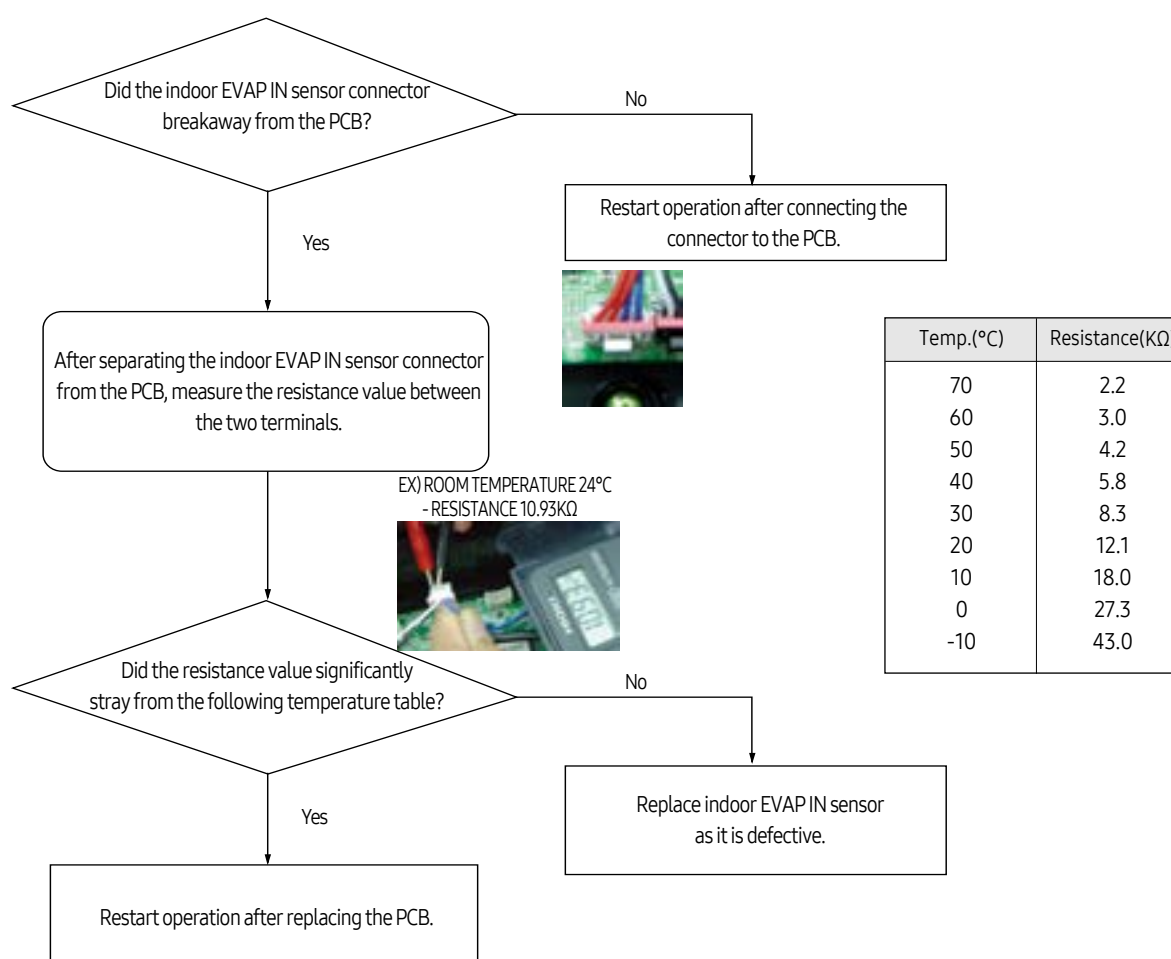
1. How to check



4-3-2. Fan coil unit EVAP IN sensor error (OPEN/SHORT)

Error number	E 122																	
Fan coil unit display	Duct, cassette (1-Way/2-Way/Mini 4-Way)				4-Way cassette type				Wall mount type				Circular cassette type					
	LED Indication																	
				 or 	 or 	run / stop	Defrost	Timer	Clean Filter									
	1-Way																	
	blue	Yellow green																
	2-Way																	
	Green	Red																
	×		×	×			×	×		×		×	×	×		×		
Criteria	· Refer to the judgment method below																	
Cause of problem	· Faulty OPEN/SHORT of number xxx fan coil unit indoor temperature sensor																	

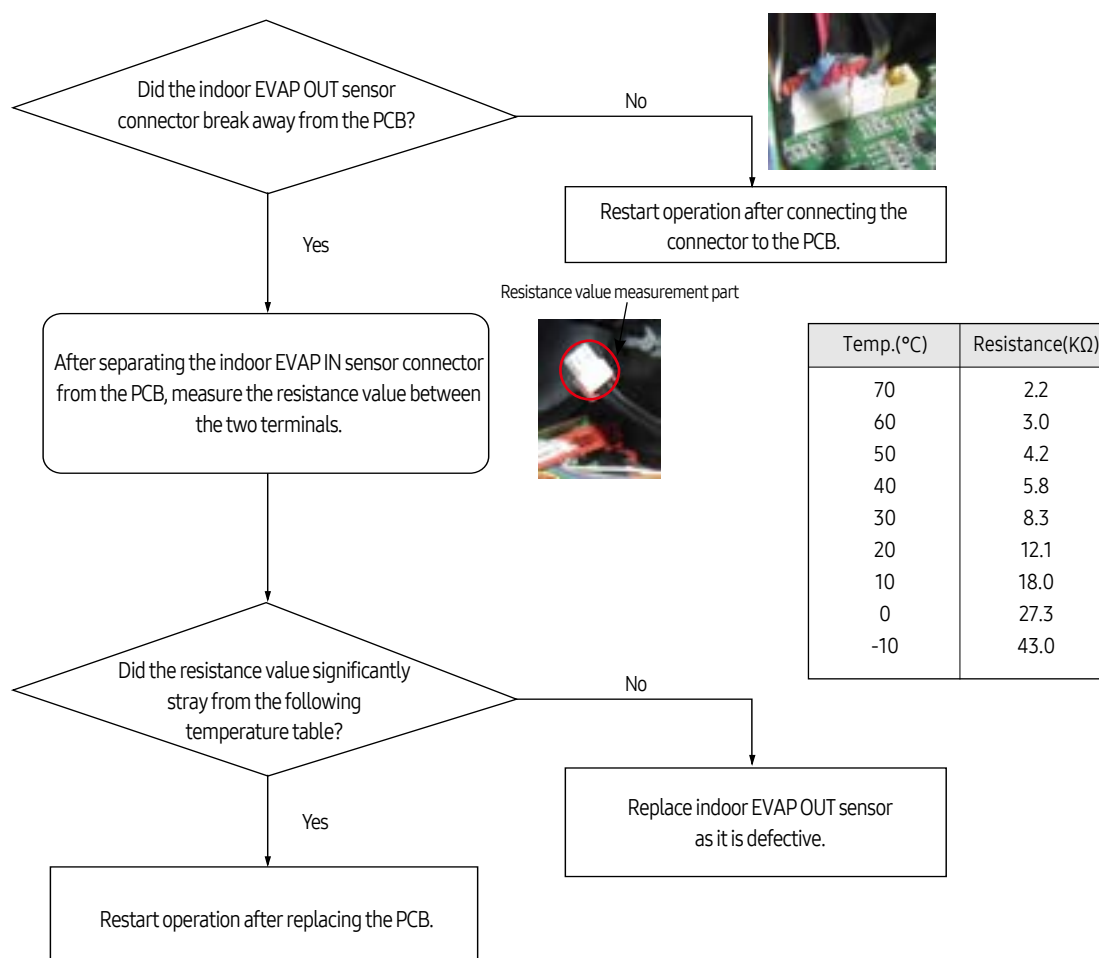
1. How to check



4-3-3. Fan coil unit EVAP OUT sensor error (OPEN/SHORT)

Error number	E 123																	
Fan coil unit display	Duct, cassette (1-Way/2-Way/Mini 4-Way)				4-Way cassette type				Wall mount type				Circular cassette type					
	LED Indication																	
					run / stop	Defrost	Timer	Clean Filter										
	1-Way																	
	blue																	
	2-Way																	
	Green				Red													
Criteria	· Refer to the judgment method below																	
Cause of problem	· Faulty OPEN/SHORT of number xxx fan coil unit indoor temperature sensor																	

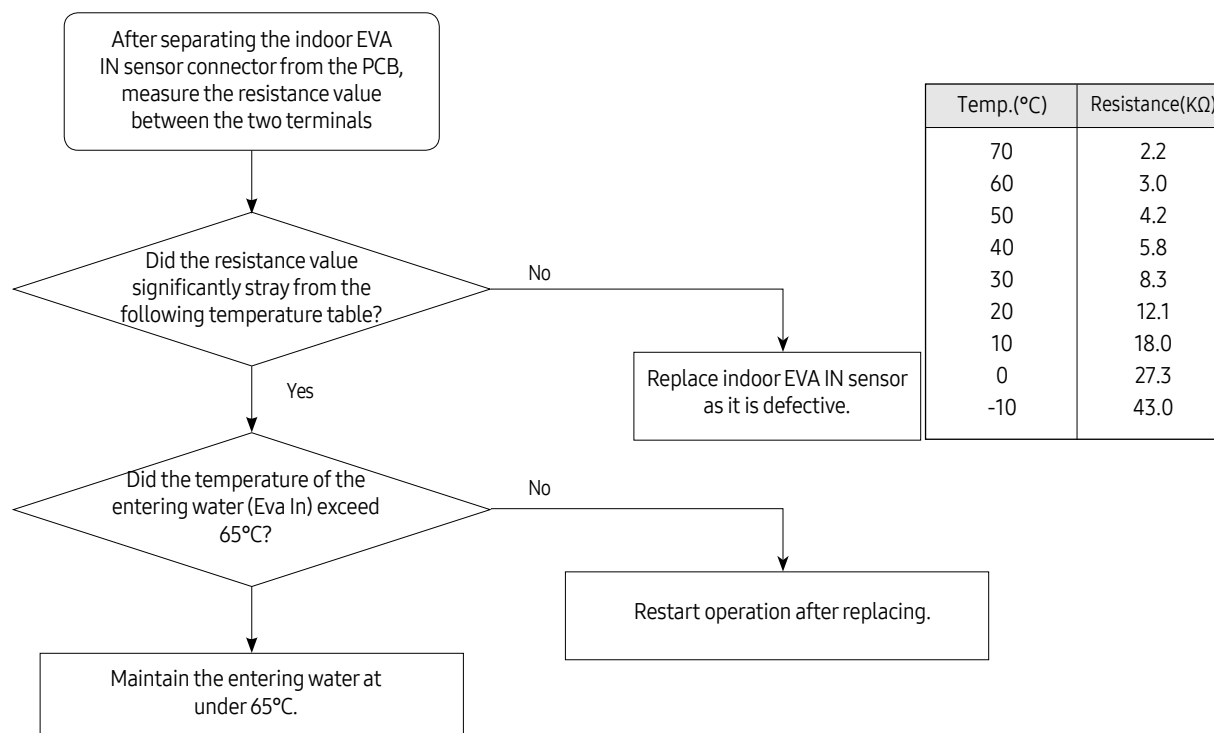
1. How to check



4-3-4. Water temperature increase prevention error

Error number	E 128																	
Fan coil unit display	Duct, cassette (1-Way/2-Way/Mini 4-Way)				4-Way cassette type				Wall mount type				Circular cassette type					
	LED Indication																	
				 or 	 or 	run / stop	Defrost	Timer	Clean Filter									
	1-Way																	
	blue	Yellow green																
	2-Way																	
	Green	Red																
Criteria	· Refer to the judgment method below																	
Cause of problem	· Introduction of high water temperature of more than 65℃																	

- How to judge
 - Maintain for 1 hour as average temperature of Eva In and Eva Out is 65°C
- How to check



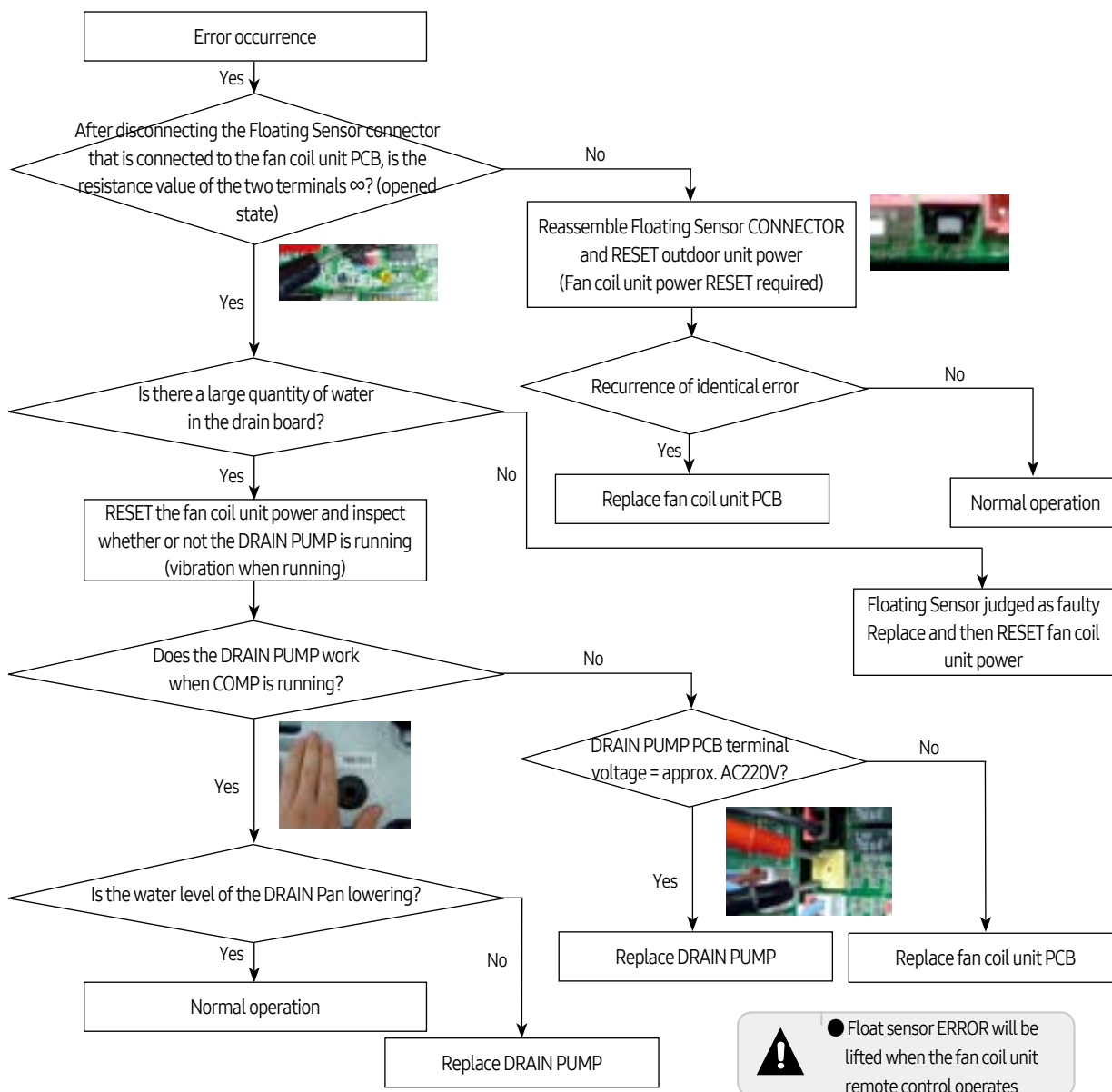
4-3-5. E 153 : Floating Switch detection of fan coil unit Drain Pump

Error number	E 153												
Fan coil unit display	Duct, cassette (1-Way/2-Way/Mini 4-Way)					4-Way cassette type			Circular cassette type				
	LED Indication												
				 or 	 or 	run/stop	Defrost	Timer	Clean Filter	Ice Blue	Yellow Green	Blue	Red
	1-Way												
	blue	Yellow green											
	2-Way												
	Green	Red											
	×	×											

Criteria	· Refer to the judgment method below
Cause of problem	· Rise in drain board water level or faulty sensor due to malfunction of fan coil unit drain pump

※ Error E153 can only be lifted by resetting the fan coil unit power.

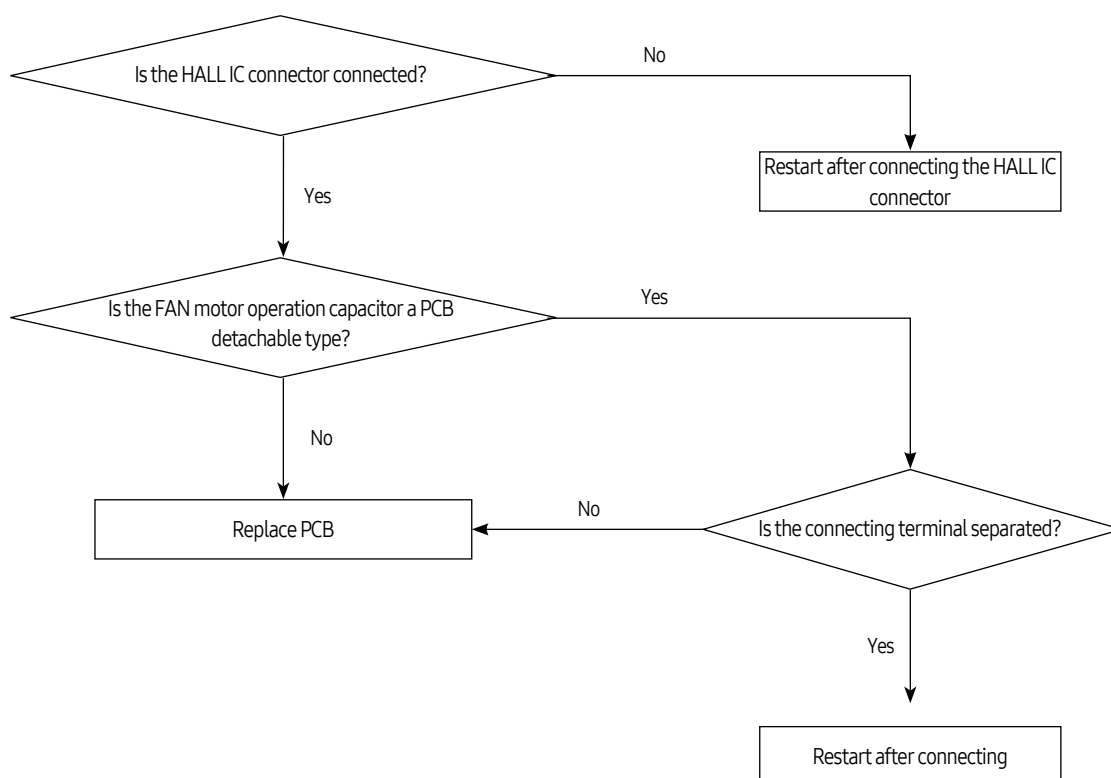
1. How to check



4-3-6. Fan coil unit Fan operation error

Error number	E 154																	
Fan coil unit display	Duct, cassette (1-Way/2-Way/Mini 4-Way)				4-Way cassette type				Wall mount type				Circular cassette type					
	LED Indication																	
						run / stop	Defrost	Timer	Clean Filter									
	1-Way																	
	blue	Yellow green																
	2-Way																	
	Green	Red																
Criteria	· Refer to the judgment method below																	
Cause of problem	· Number -x x x fan coil unit fan motor operation error																	

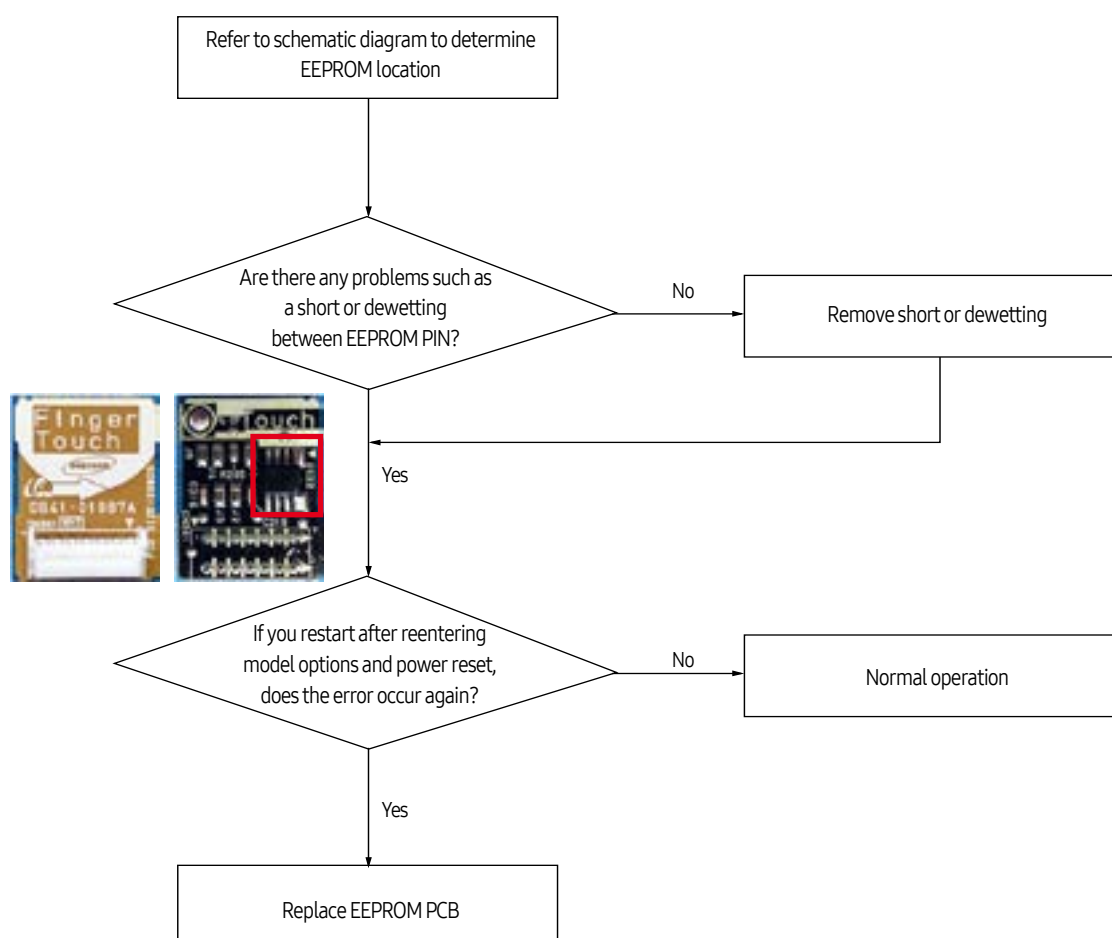
- How to judge
 - This occurs when the RPM value in the pan motor of the PID control method does not FEEDBACK to MICOM
- How to check



4-3-7. EEPROM error

Error number	E 162																	
Fan coil unit display	Duct, cassette (1-Way/2-Way/Mini 4-Way)				4-Way cassette type				Wall mount type				Circular cassette type					
	LED Indication																	
				 or 	 or 	run / stop	Defrost	Timer	Clean Filter									
	1-Way																	
	blue	Yellow green																
	2-Way																	
	Green	Red																
Criteria	· Disable communication between EEPROM and MICOM																	
Cause of problem	· Replace PCB due to faulty EEPROM																	

1. How to check



4-3-8. Fan coil unit remote control option error

Error number	E 163																	
Fan coil unit display	Duct, cassette (1-Way/2-Way/Mini 4-Way)				4-Way cassette type				Wall mount type				Circular cassette type					
	LED Indication																	
						run / stop	Defrost	Timer	Clean Filter									
	1-Way																	
	blue	Yellow green																
	2-Way																	
	Green	Red																
Criteria																		
Cause of problem																		

- Check relevant remote controller options for each model then enter correct options

4-3-9. Error due to confusion between use of Fahrenheit and Celsius

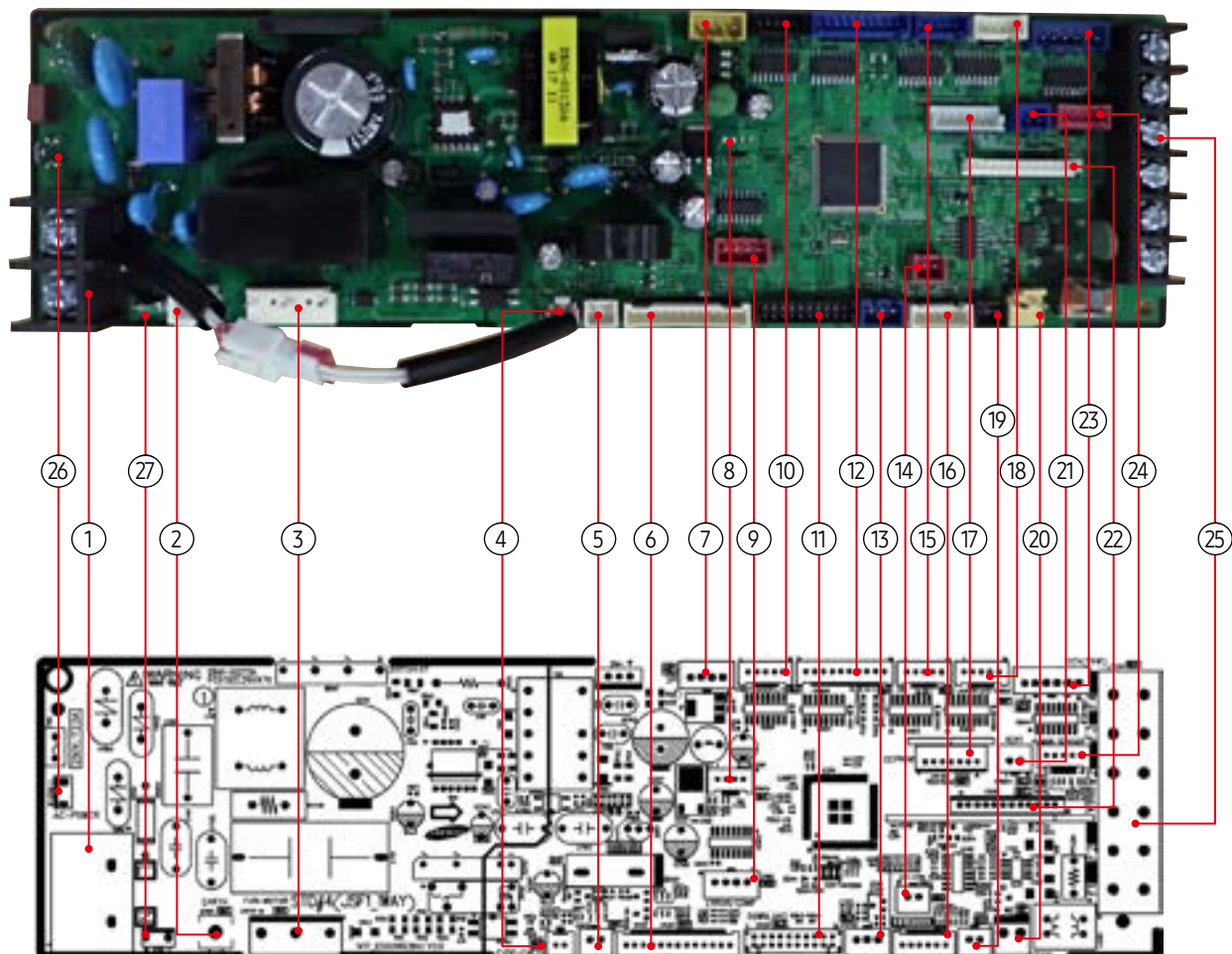
Error number	<i>E 170</i>
Fan coil unit display	× (Operation) ● (Time) ● (Fan) ● (Filter) × (Defrost)
Criteria	· Fan coil unit DISPLAY number method – E163 occurs, Lamp method – all lamps flash · Occurs in fan coil unit with Celsius setting
Cause of problem	· Missed or incorrect input of remote controller options

- Check relevant remote controller options for each model and then enter correct options
- As this happens only in the Celsius setting model, it is necessary to reenter option codes for error-free models in regions where Celsius is used.

5. PCB Diagram

5-1. Fan Coil Unit

5-1-1. Slim 1 way cassette type (Medium)



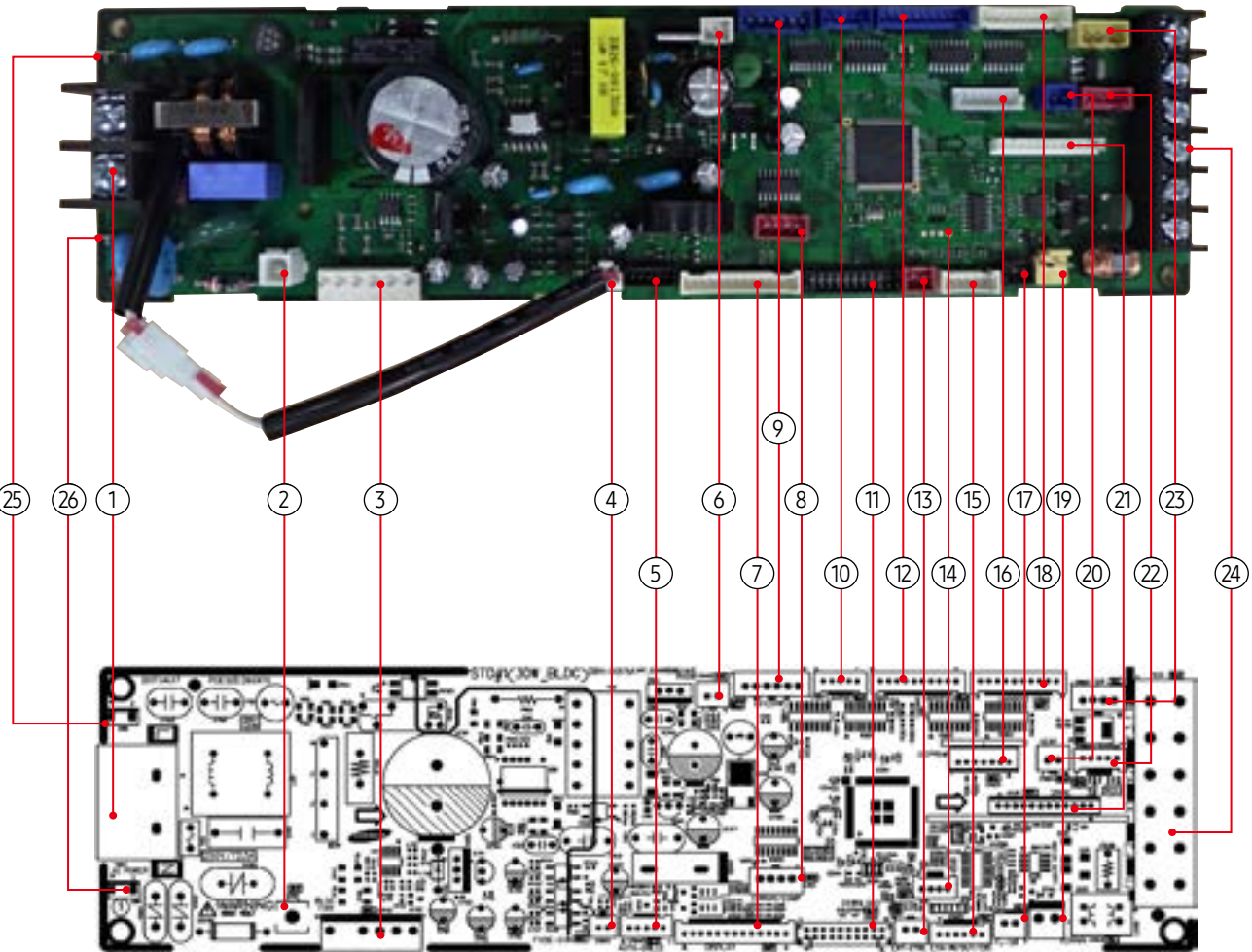
Slim 1 way cassette type (Medium) (cont.)

① TB101-AC POWER #1: POWER(L) #2: POWER(N)	② CN101-EARTH #1: EARTH	③ CN701-FAN MOTOR #1: POWER(N) #3: SSR MOTOR POWER(L) #5: POWER(N)	④ CN140-FUSE CHECK #1: FUSE CHECK SIGNAL #2: GND
⑤ CN412-ROOM THERMISTOR #1: ROOM THERMISTOR #2: GND	⑥ CN501-DISPLAY #1: DC12V #2: LED_0 #3: LED_1 #4: LED_2 #5: LED_3 #6: LED_4 #7: LED_5 #8: REMOCON OUTPUT SIGNAL #9: AUTO SWITCH #10: REMOCON INPUT SIGNAL #11: GND #12: DC5V #13: GND	⑦ CN801-SPI #1: GND #2: GND #3: SPI POWER OUTPUT(DC12V)	⑧ CN414-HUMIDITY SENSOR(UNPLUGED) #1: DC5V #2: GND #3: TEMP. SENSOR #4: HUMIDITY SENSOR
⑨ CN81-ERROR/COMP CHECK #1: DC12V #2: ERROR ERROR SIGNAL OUTPUT(GND) #3: DC12V #4: COMP/OPER. ERROR SIGNAL OUTPUT(GND)	⑩ CN807-LOUVER L/R #1: DC12V #2~#5: LOUVER SIGNAL OUTPUT	⑪ CN301- DOWNLOAD	⑫ CN807-LOUVER5 #1: DC12V #2~#5: LOUVER SIGNAL OUTPUT #6: DC12V #7~#10: LOUVER SIGNAL OUTPUT
⑬ CN702-HALL IC #1: DC5V #2: GND #3: MOTOR FEEDBACK SIGNAL	⑭ CN83-EXTERNAL CONTACT CONTROL #1: GND #2: EXTERNAL CONTACT CONTROL SIGNAL	⑮ CN806-LOUVER3/4 #1: DC12V #2~#5: LOUVER SIGNAL OUTPUT	⑯ CN413:THERMISTOR #1: EVA-IN TEMP SENSOR #2: GND #3: EVA-OUT TEMP SENSOR #4: GND #5: DISCHARGE TEMP SENSOR #6: GND
⑰ CN201-EEPROM #1: GND #3: DC5V #4: EEPROM_SELECT #5: EEPROM_SO #6: EEPROM_SI #7: EEPROM_CLK	⑱ CN805-LOUVER1/2 #1: DC12V #2~#5: LOUVER SIGNAL OUTPUT	⑲ CN411-FLOAT SWITCH #1: F/S SIGNAL #2: GND	⑳ CN103-DRAIN PUMP #1: D/P POWER (DC12V) #2: GND

Slim 1 way cassette type (Medium) (cont.)

㉑ CN804-VENTILATOR #1: DC12V #2: VENT SIGNAL OUTPUT(GND)	㉒ CN311-2 WIRE REMOT CONTROL	㉓ CN808-EEV(DVM) #1: WATER_VALVE1 #2: WATER_VALVE2 #3: NC #4: NC #5~#6: DC12V	㉔ CN401-HUMAN SENSING #1: DC12V #2: HUMAN SENSOR COMM(TXD) #3: HUMAN SENSOR COMM(RXD) #4: GND
㉕ TE04-COMMUNICATION #1: COM1(F1) #2: COM1(F2) #3: V1(DC12V) #4: V2(GND) #5: COM2(F3) #6: COM2(F4)	㉖ CN110-AC POWER #1: POWER(L)	㉗ CN111-AC POWER #1: POWER(N)	

5-1-2. Slim 1 way cassette type (Large), 4way casette type



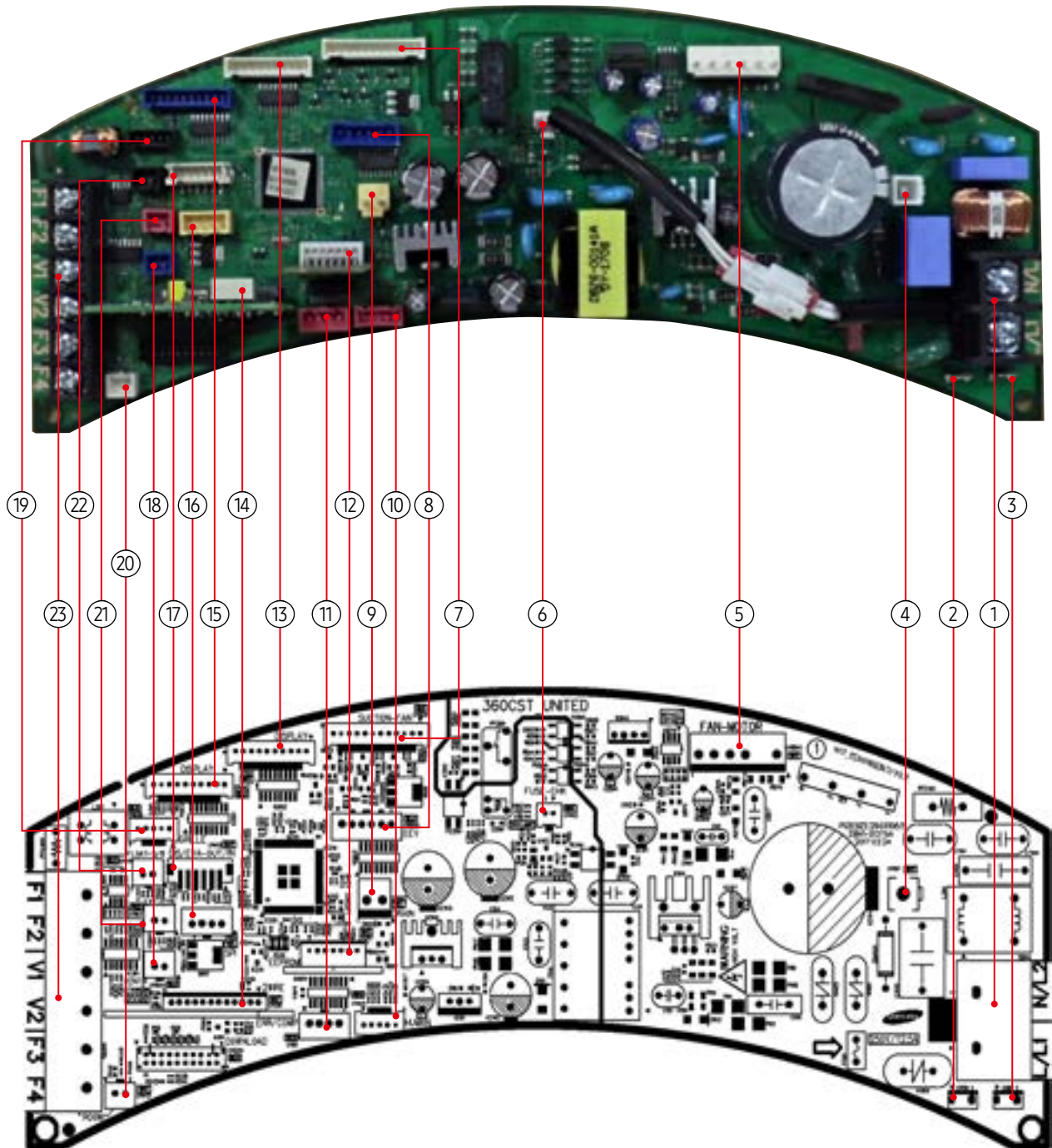
Slim 1 way cassette type (Large), 4way casette type (cont.)

① TB101-AC POWER #1: POWER(L) #2: POWER(N)	② CN101-EARTH #1: EARTH	③ CN701-FAN MOTOR #1: DC310V #3: GND #4: DC15V #5: FAN RPM #6: RPM FEEDBACK	④ CN140-FUSE CHECK #1: FUSE CHECK SIGNAL #2: GND
⑤ CN809-AUTO LIFT GRILL #1: DC12V #4: REMOT CONTROL SIGNAL #5: GND	⑥ CN412-ROOM THERMISTOR #1: ROOM THERMISTOR #2: GND	⑦ CN501-DISPLAY #1: DC12V #2: LED_0 #3: LED_1 #4: LED_2 #5: LED_3 #6: LED_4 #7: LED_5 #8: REMOCON OUTPUT SIGNAL #9: AUTO SWITCH #10: REMOCON INPUT SIGNAL #11: GND #12: DC5V #13: GND	⑧ CN81-ERROR/COMP CHECK #1: DC12V #2: ERROR SIGNAL OUTPUT(GND) #3: DC12V #4: COMP/OPER. SIGNAL OUTPUT(GND)
⑨ CN808-EEV(DVM) #1: WATER_VALVE1 #2: WATER_VALVE2 #3: NC #4: NC #5~#6: DC12V	⑩ CN807-LOUVER5 #1: DC12V #2~#5: LOUVER SIGNAL OUT- PUT	⑪ CN301-DOWNLOAD	⑫ CN806-LOUVER3/4 #1: DC12V #2~#5: LOUVER SIGNAL OUTPUT #6: DC12V #7~#10: LOUVER SIGNAL OUT- PUT
⑬ CN83-EXTERNAL CONTACT CONTROL #1: GND #2: EXTERNAL CONTACT CONTROL SIGNAL	⑭ CN414-HUMIDITY SENSOR(UNPLUGED) #1: DC5V #2: GND #3: TEMP SENSOR #4: HUMIDITY SENSOR	⑮ CN413-THERMISTOR #1: EVA-IN TEMP SENSOR #2: GND #3: EVA-OUT TEMP SENSOR #4: GND #5: DISCHARGE TEMP SENSOR #6: GND	⑯ CN201-EEPROM #1: GND #3: DC5V #4: EEPROM_SELECT #5: EEPROM_SO #6: EEPROM_SI #7: EEPROM_CLK
⑰ CN411-FLOAT SWITCH #1: F/S SIGNAL #2: GND	⑱ CN805-LOUVER1/2 #1: DC12V #2~#5: LOUVER SIGNAL OUT- PUT	⑲ CN103-DRAIN PUMP #1: D/P POWER(DC12V) #2: GND	⑳ CN804-VENTILATOR #1: DC12V #2: VENT SIGNAL OUTPUT(GND)

Slim 1 way cassette type (Large), 4way casette type (cont.)

㉑ CN311-2 WIRE REMOT CONTROL	㉒ CN401-HUMAN SENSING #1: DC12V #2: HUMAN SENSOR COMM(TXD) #3: HUMAN SENSOR COMM(RXD) #4: GND	㉓ CN801-SPI #1: GND #2: GND #3: SPI POWER OUTPUT(DC12V)	㉔ TE04-COMMUNICATION #1: COM1(F1) #2: COM1(F2) #3: V1(DC12V) #4: V2(GND) #5: COM2(F3) #6: COM2(F4)
㉕ CN110-AC #1: POWER(L)	㉖ CN111-AC #1: POWER(N)		

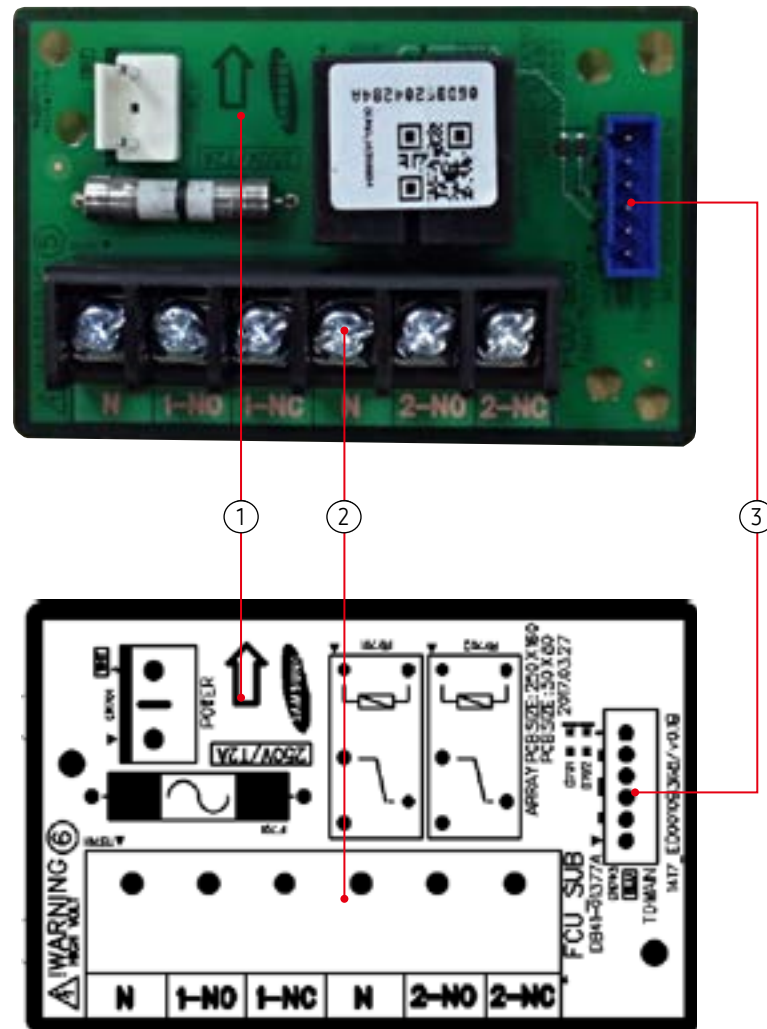
5-1-3. Circular cassette type



Circular cassette type (cont.)

① TB100-AC POWER #1: POWER(L) #2: POWER(N)	② CN110-AC POWER #1: POWER(L)	③ CN111-AC POWER #1: POWER(N)	④ CN101-EARTH #1: GND
⑤ CN900-BLDC MOTOR #1: DC310V #3: GND #4: DC15V #5: FAN RPM #6: RPM FEEDBACK	⑥ CN102-FUSE CHECK #1: FUSE CHECK SIGNAL #2: GND	⑦ CN950-SUCTION FAN #1 #5 #9: DC12V #2 #6 #10: FAN FEEDBACK #3 #7 #11: GND #4 #8 #12: FAN CTRL	⑧ CN808-EEV(DVM) #1: WATER_VALVE1 #2: WATER_VALVE2 #3: NC #4: NC #5~#6: DC12V
⑨ CN802-DRAIN PUMP #1: D/P SIGNAL(DC12V) #2: GND	⑩ CN401- HUMAN SENSING #1: DC12V #2: HUMAN SENSOR COMM(TXD) #3: HUMAN SENSOR COMM(RXD) #4: GND	⑪ CN81-ERROR/COMP CHECK #1: DC12V #2: ERROR SIGNAL OUTPUT(GND) #3: DC12V #4: COMP/OPER. SIGNAL OUTPUT(GND)	⑫ CN201-EEPROM #1: GND #3: DC5V #4: EEPROM_SELECT #5: EEPROM_SO #6: EEPROM_SI #7: EEPROM_CLK
⑬ CN501-DISPLAY #1: BUZZER1 #2: BUZZER2 #3: LED1 #4: LED2 #5: LED3 #6: LED4 #7: LED5 #8: LED6 #9: LED7 #10: LED8	⑭ CN310-2 WIRE REMOT CONTROL	⑮ CN502-DISPLAY #1: DC12V #2: LED9 #3: LED10 #4: LED11 #5: LED12 #6: LED13 #7: REMOCON OUTPUT SIGNAL #8: REMOCON INPUT SIGNAL #9: GND #10: DC5V	⑯ CN810-SPI #1: GND #2: GND #3: SPI POWER OUTPUT(DC12V)
⑰ CN413-THERMISTOR #1: EVA-IN TEMP SENSOR #2: GND #3: EVA-OUT TEMP SENSOR #4: GND #5: DISCHARGE TEMP SENSOR #6: GND	⑱ CN804-VENTILATOR #1: DC12V #2: VENT SIGNAL OUTPUT(GND)	⑲ CN809-AUTO LIFT GRILL #1: DC12V #4: REMOT CONTROL SIGNAL #5: GND	⑳ CN412-ROOM THERMISTOR #1: ROOM THERMISTOR#2 : GND
㉑ CN83-EXTERNAL CONTACT CONTROL #1: GND #2: EXTERNAL CONTACT CONTROL SIGNAL	㉒ CN411-FLOAT SWITCH #1: F/S SIGNAL #2: GND	㉓ TB300-COMMUNICATION #1: COM1(F1) #2: COM1(F2) #3: V1(DC12V) #4: V2(GND) #5: COM2(F3) #6: COM2(F4)	

5-1-4. FCU SUB PBA



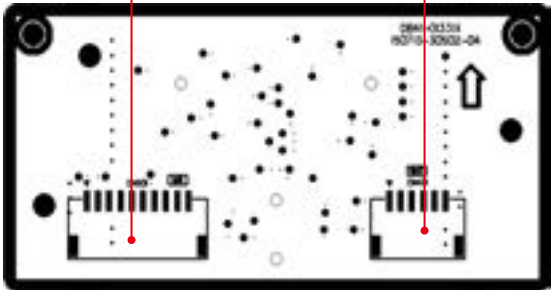
① CN701-POWER #1: AC POWER L OR N #2: AC POWER N OR L	② TB701-AC POWER OUTPUT #1: COMMON #2: NORMAL OPEN_VALVE1 #3: NORMAL CLOSE_VALVE1 #4: COMMON #5: NORMAL OPEN_VALVE2 #6: NORMAL CLOSE_VALVE2 #6: LED_13	③ CN703-TO MAIN(VALVE CONTROL) #1: WATER_VALVE1 #2: WATER_VALVE2 #3: NC #4: NC #5~#6: DC12V
--	---	--

5-1-5. Circular cassette type DISPLAY
Model: PC4NUSK1N, PC4NUAK1N, PC4NUSK5N

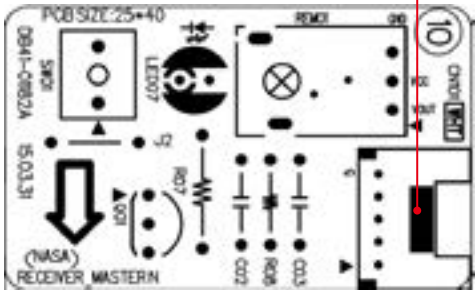


①

②



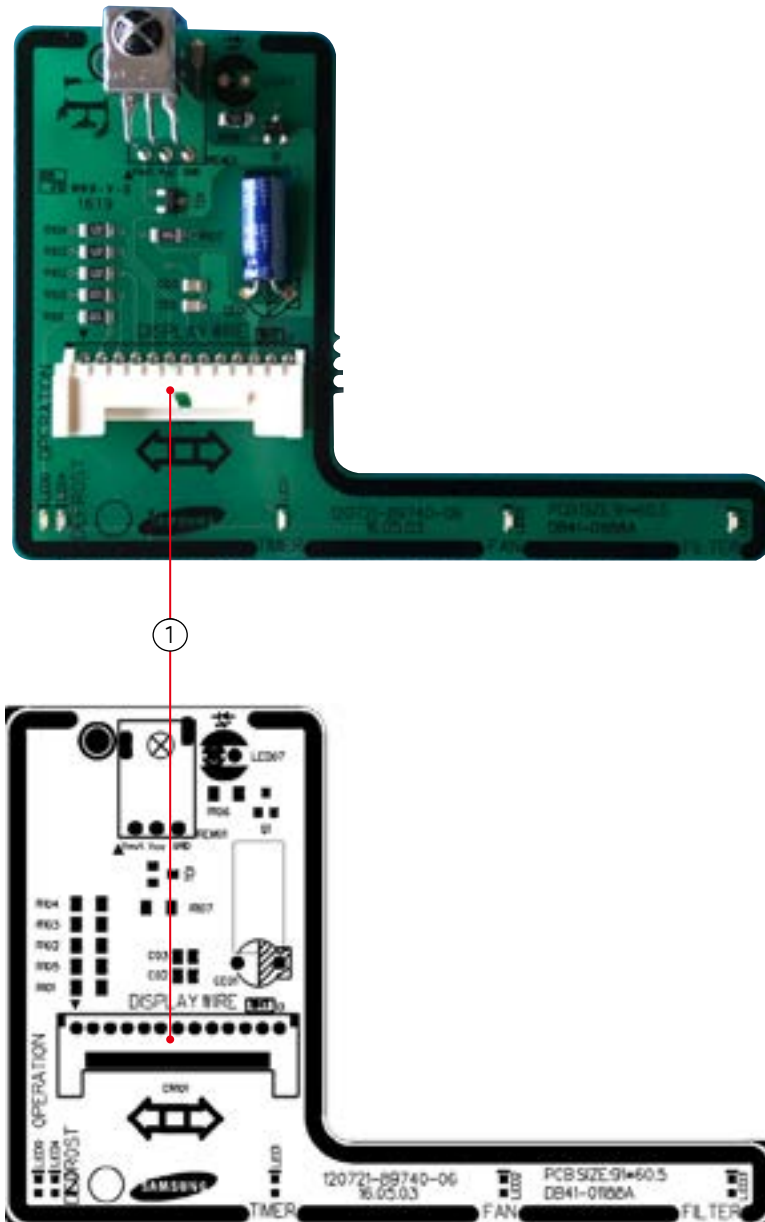
③



① CN501-DISPLAY #1: BUZZER1 #2: BUZZER2 #3: LED_1 #4: LED_2 #5: LED_3 #6: LED_4 #7: LED_5 #8: LED_6 #9: LED_7 #10: LED_8	② CN401-RECEIVER #1: DC12V #2: LED_9 #3: LED_10 #4: LED_11 #5: LED_12 #6: LED_13	③ CN101-RECEIVER #1: REMOCON OUTPUT SIGNAL #2: AUTO S/W #3: REMOCON INPUT SIGNAL #4: GND #5: DC5V
---	---	--

5-1-6. Slim 1 way cassette type panel (Normal)

Model: PC1NWSK1N, PC1NWAK1N, PC1BWSK1N, PC1BWAK1N (Korea)
PC1NUPMAN (Europe)



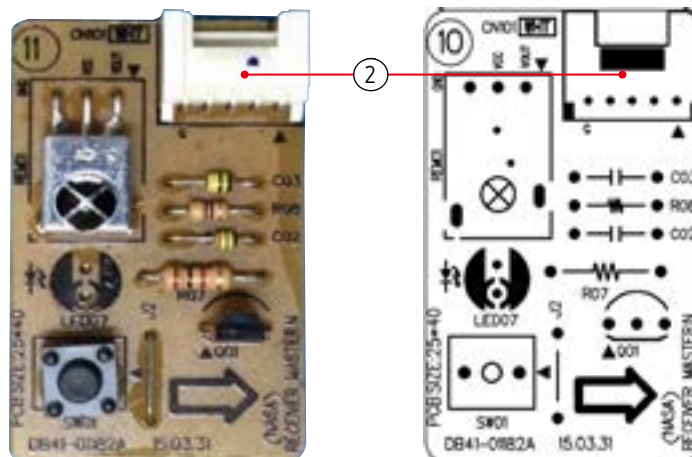
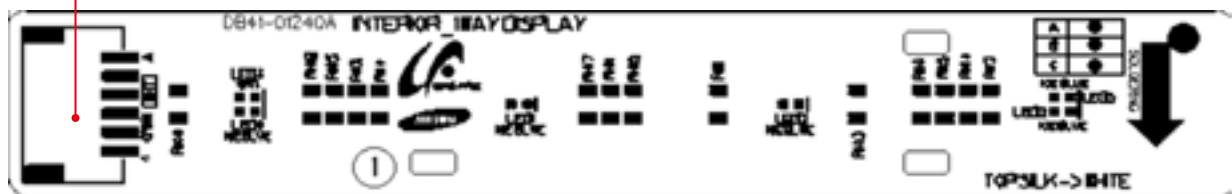
① CN101-DISPLAY

- | | |
|-----------|---------------------------|
| #1: DC12V | #8: REMOCON OUTPUT SIGNAL |
| #2: LED_0 | #9: PANEL SELECTION |
| #3: LED_1 | #10: REMOCON INPUT SIGNAL |
| #4: LED_2 | #11: GND |
| #5: LED_3 | #12: DC5V |
| #6: LED_4 | #13: - |
| #7: - | |

5-1-7. Slim 1 way cassette type panel (Interior type)

Model: PC1NWSK2N, PC1BWSK2N (Korea)

PC1BWSK2N, PC1BWSMAN (Europe)



① CN101-DISPLAY

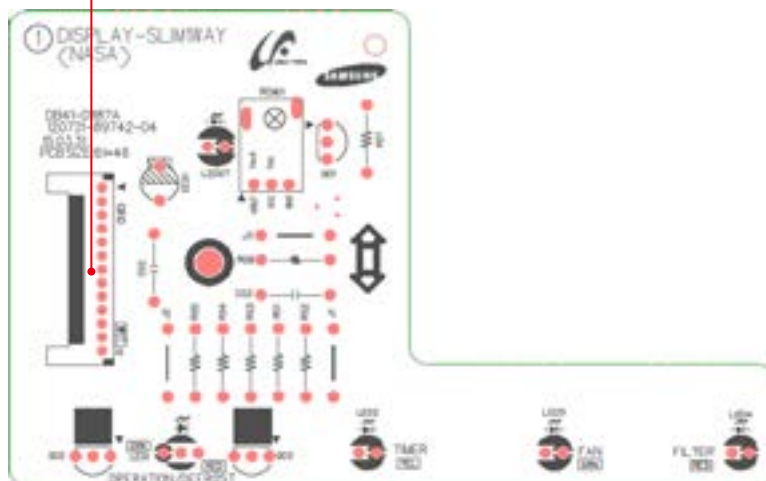
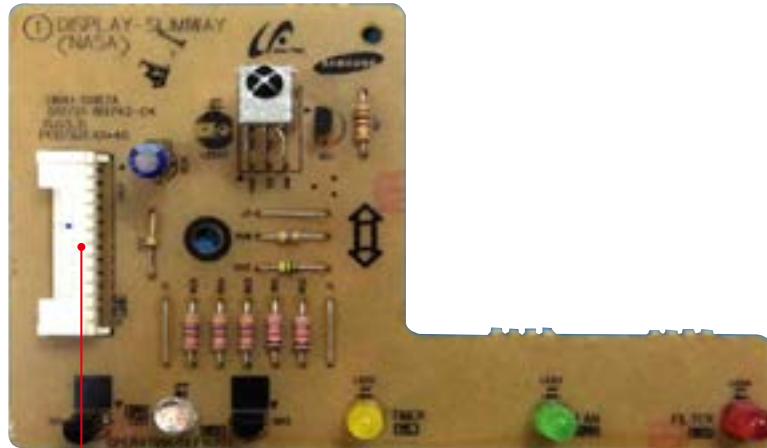
- #1: DC12V
- #2: LED_0
- #3: LED_1
- #4: LED_2
- #5: LED_3
- #6: LED_4

② CN101-RECEIVER

- #1: REMOCON OUTPUT SIGNAL
- #2: AUTO S/W
- #3: REMOCON INPUT SIGNAL
- #4: GND
- #5: DC5V

5-1-8. Slim 1 way cassette type panel (Europe)

Model: PC1NUSMAN (Europe)



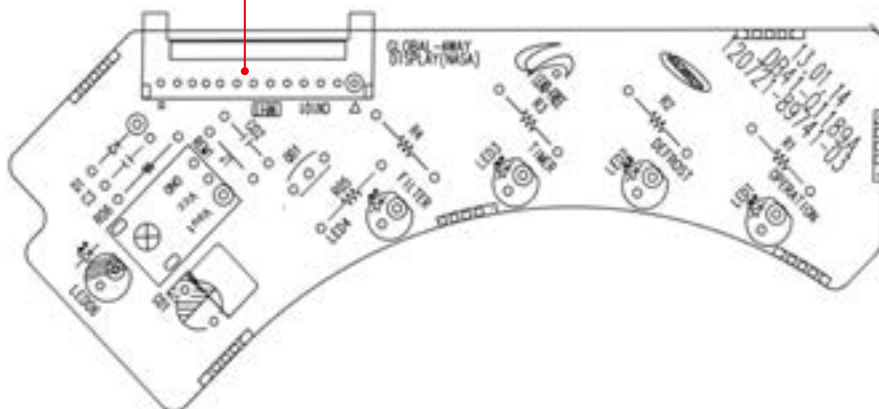
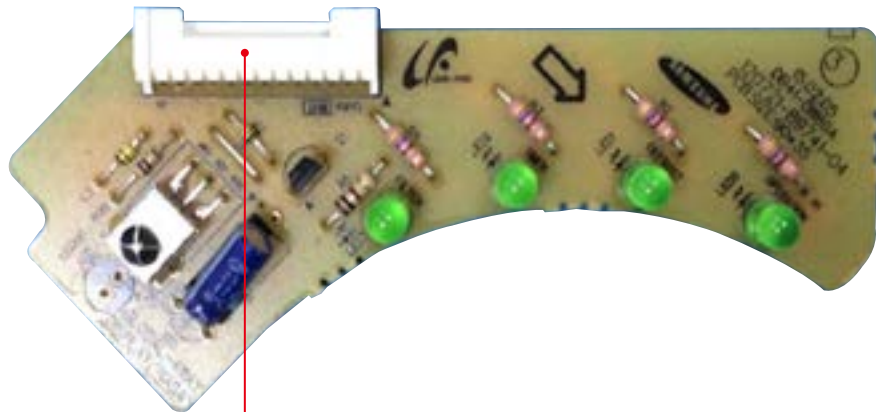
① CN101-DISPLAY

- | | |
|-----------|---------------------------|
| #1: DC12V | #8: REMOCON OUTPUT SIGNAL |
| #2: LED_0 | #9: PANEL SELECTION |
| #3: LED_1 | #10: REMOCON INPUT SIGNAL |
| #4: LED_2 | #11: GND |
| #5: LED_3 | #12: DC5V |
| #6: LED_4 | #13: - |
| #7: LED_5 | |

5-1-9. Small 4 way cassette type panel

Model: PC4NUSK1N, PC4NUAK1N, PC4NUSK5N (Korea)

PC4NUSKAN, PC4NUSKEN, PC4NBSKAN (Europe)



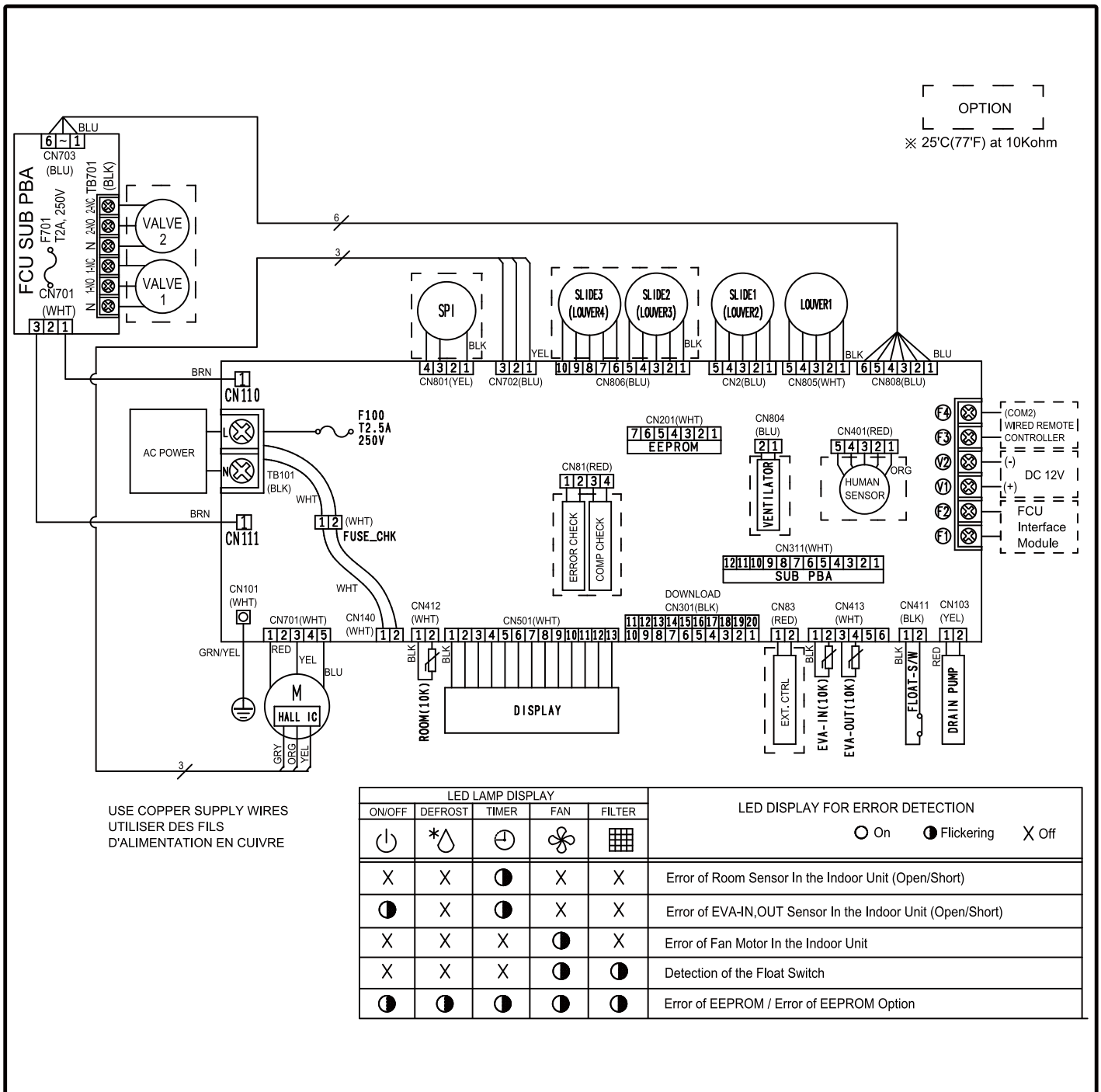
① CN101-DISPLAY

#1: DC12V	#8: REMOCON OUTPUT SIGNAL
#2: LED_0	#9 : PANEL SELECTION
#3: LED_1	#10: REMOCON INPUT SIGNAL
#4: LED_2	#11: GND
#5: LED_3	#12: DC5V
#6: LED_4	#13: -
#7: LED_5	

6. Wiring Diagram

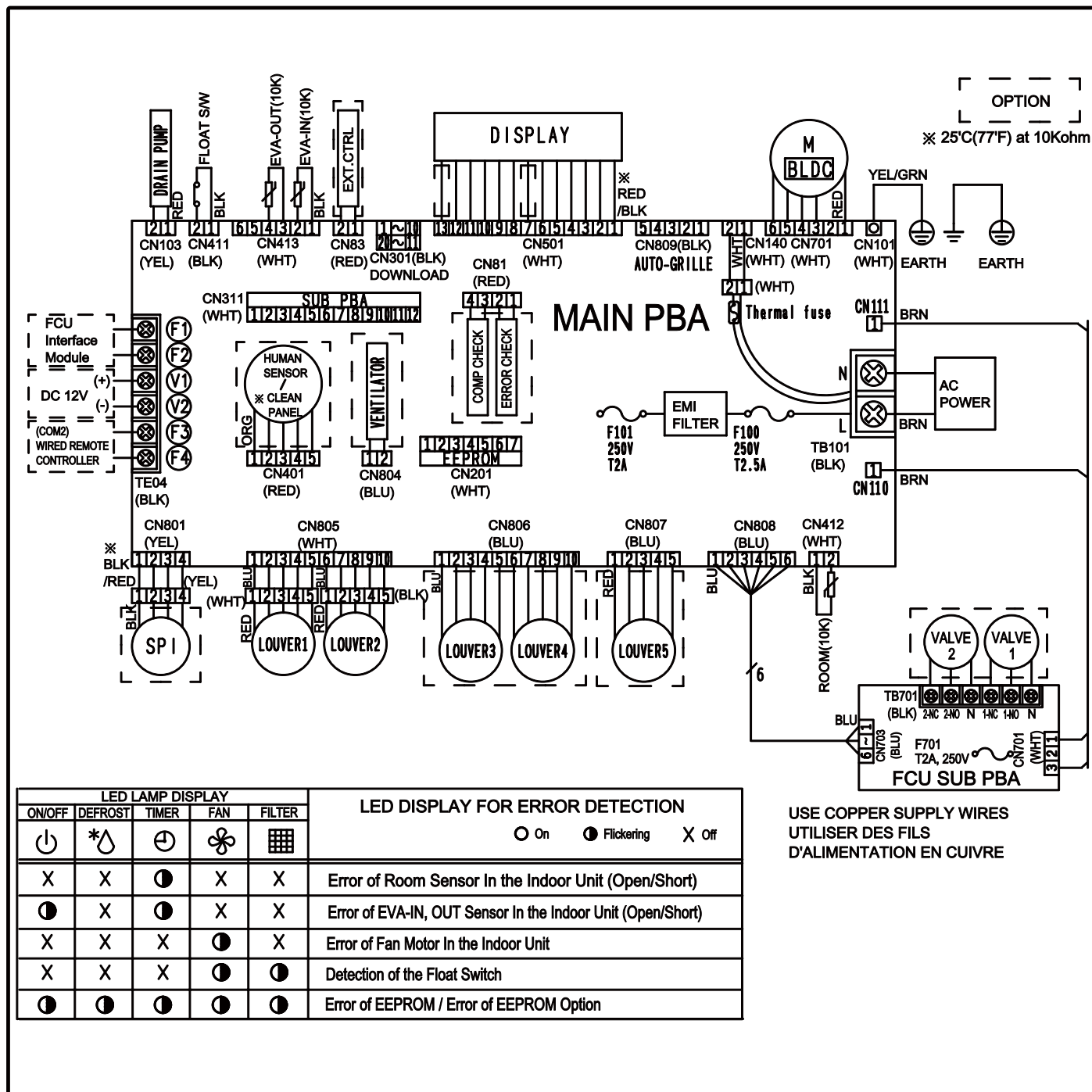
6-1. Fan Coil Unit

6-1-1. Slim 1 way cassette (Medium_JSF1)

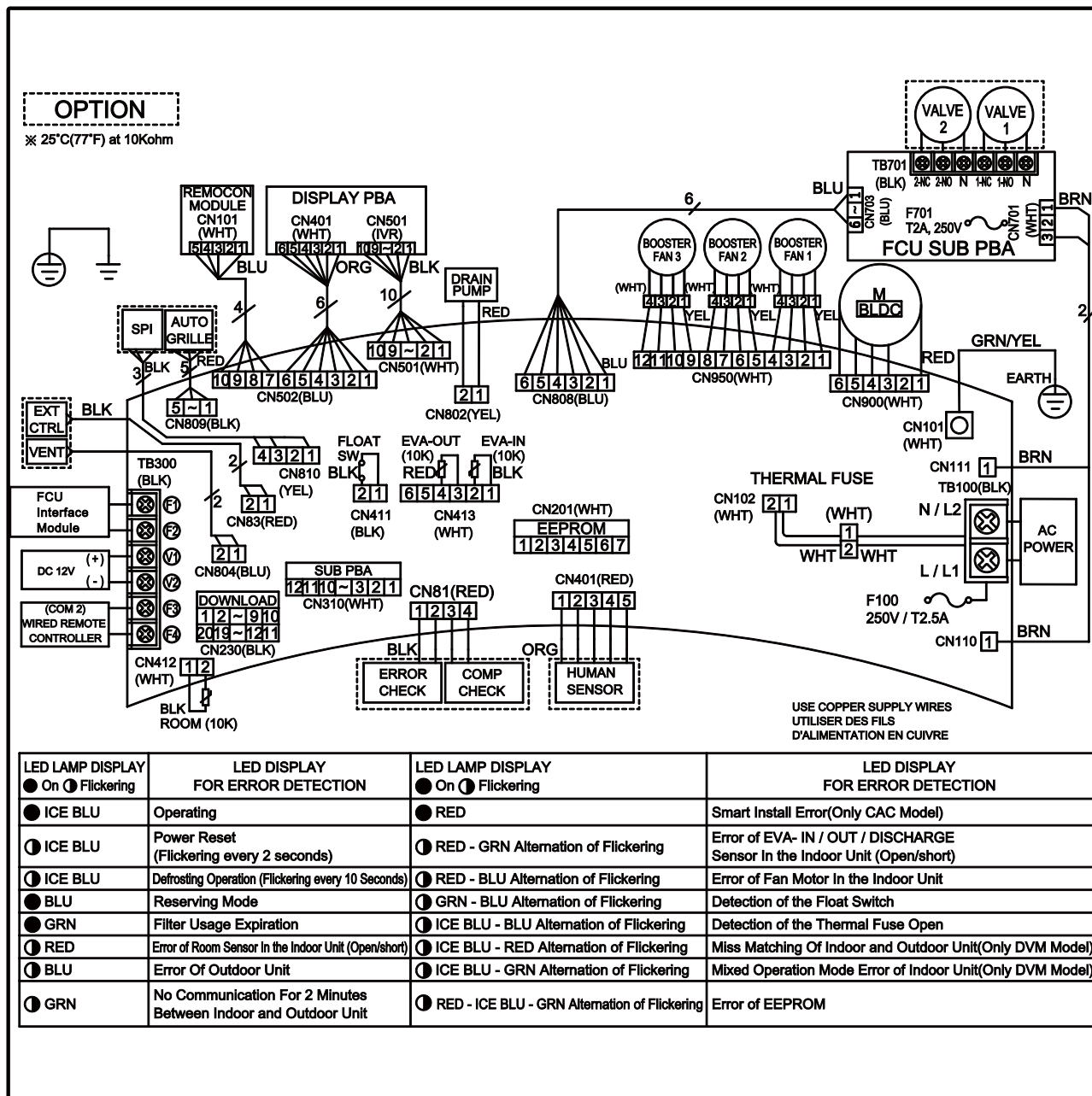


This Document can not be used without Samsung's authorization.

6-1-2. Slim 1 way cassette (Small_Medium_JS2), 4 way cassette (G4WAY)



6-1-3. Circular cassette type(360)



7. Reference Sheet

7-1. Index for Model Name

7-1-1. Fan Coil Unit

Model Code

AG	026	M	N	1	D	B	H	1
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

(1) Product Classification

AG	Chiller / FAN COIL UNIT
----	-------------------------

(2) Capacity

x 1/10 kW (3 digits)

(3) Year

F	2013
H	2014
J	2015
K	2016
M	2017

(4) Product Type

X	Outdoor Unit (New communication)
N	Fan Coil Unit (New communication)

(5) Feature

1	1Way Cassette
2	2Way Cassette
N	4Way Cassette Interior type
4	4Way Cassette / 360 Cassette

(6) Detailed Classification

F	Flagship
P	Premium
D	Deluxe
S	Standard

(7) Power Specifications

B	1Ø, #2, 220V, 60Hz
H	3Ø, #4, 380V, 60Hz

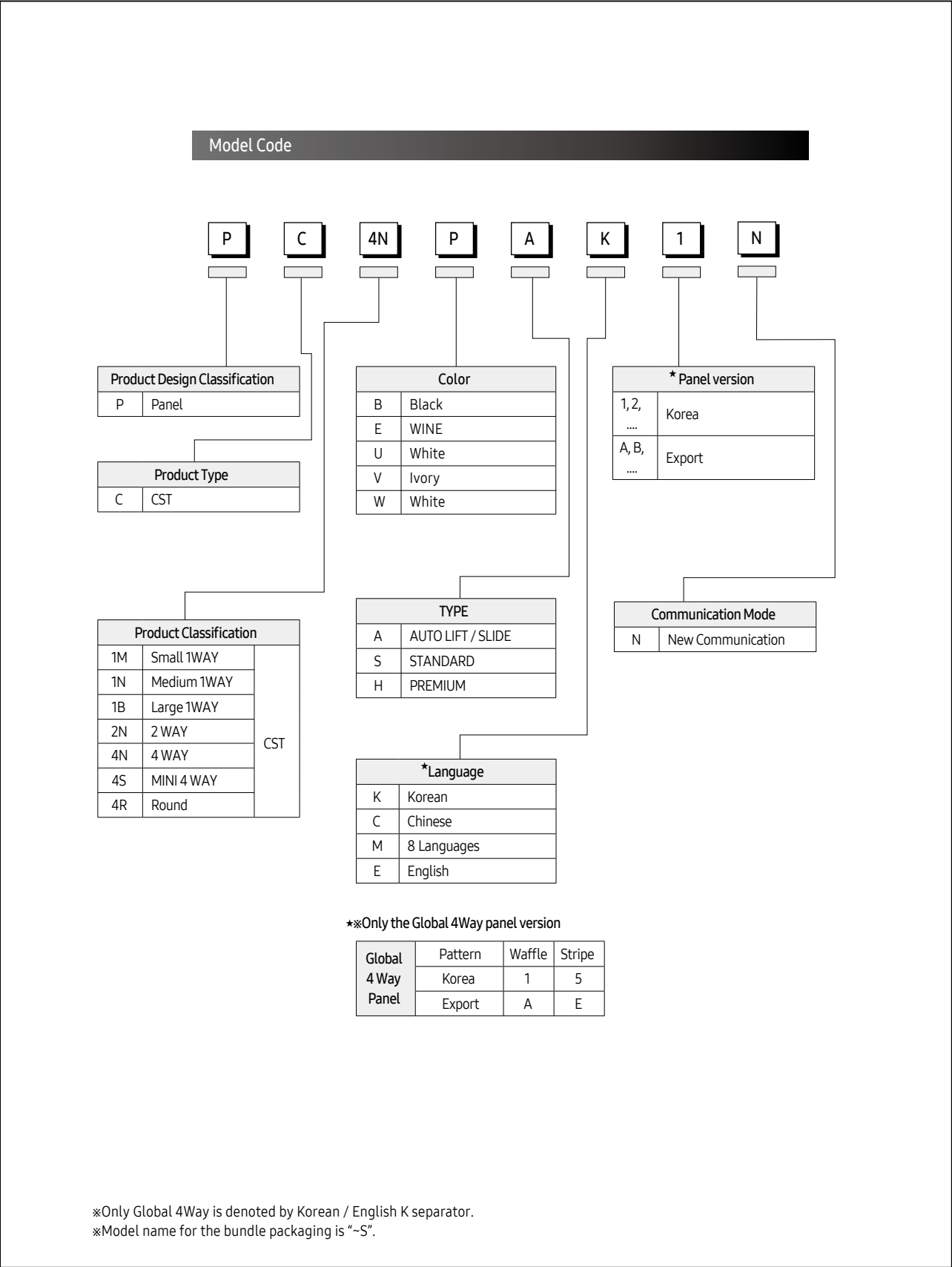
(8) Mode

H	Heat Pump
R	Heat Recovery

(9) Version

1	Version 1
---	-----------

7-1-2. Panel





GSPN (GLOBAL SERVICE PARTNER NETWORK)

Area	Web Site
Europe, CIS, Mideast & Africa	gspn1.samsungcsportal.com
Asia	gspn2.samsungcsportal.com
North & Latin America	gspn3.samsungcsportal.com
China	china.samsungportal.com

This Service Manual is a property of Samsung Electronics Co., Ltd.
Any unauthorized use of Manual can be punished under
applicable International and/or domestic law.

© Samsung Electronics Co., Ltd. July. 2017.
Printed in Korea.
Code No. AC-00195E_1