



SAMSUNG

SYSTEM AIR CONDITIONER

	Indoor Unit	Outdoor Unit
Basic Model :	DC42GTVA	UH105GAMC
	DC48GTVA	UH140GAMC
Model Name :	DH105EAMC	UH105GAMC
	DH105EAMC	UH105EAMC
	DH140EAMC	UH140GAMC
Model Code :	DH105EAMC	UH105GAMC
	DH105EAMC	UH105EAMC
	DH140EAMC	UH140GAMC

SERVICE Manual

AIR CONDITIONER



THE FEATURE OF PRODUCT

- **Easier Installation**
: Slim Size
- **Easier Tuning**
: Using Phase Control Motor
- **Various useful Functions**
- **Convenient Control Functions**

For more information, Please access to our service web site (<http://itself.sec.samsung.co.kr>)

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1. Precautions

1-1 Installing the air conditioner

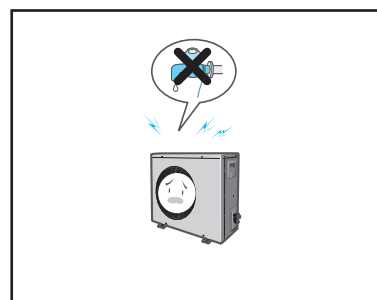
- Users should not install the air conditioner by themselves.
Ask the dealer or authorized company to install the air conditioner except the window-type air conditioner in U.S.A and Canada.
- If you don't install the air conditioner properly, it may cause a fire, a water leakage or an electric shock.
- You must install the air conditioner according to the national wiring regulations and safety regulations.
- Install the indoor unit higher than 2.5m from the floor to avoid the injury caused by the operation of the fan.
(except the window-type air conditioner)
- The manufacturer is not responsible for any accidents or injury caused by an incorrect installation.
- When installing the built-in type air conditioner, keep all electric cables such as the power cable and the connection cord in pipes, ducts, or cable channels to protect them from the danger of impact or any other incidents.

1-2 Power supply and circuit breaker

- If the power cord of the air conditioner is damaged, it must be replaced by the manufacturer or a qualified person in order to avoid a hazard.
- The air conditioner must be plugged into an independent circuit if applicable or connect the power cable to the auxiliary circuit breaker.
An all pole disconnection from the power supply must be incorporated in the fixed wiring with a contact opening of >3mm.
- Do not extend an electric cord to the air conditioner.
- The air conditioner must be plugged in after you complete the installation.

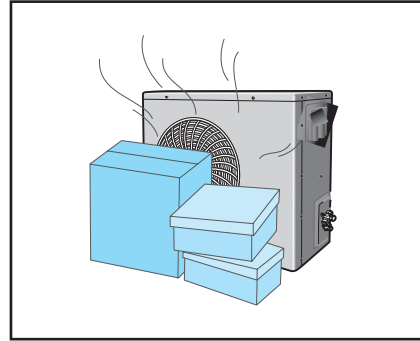
1-3 During operation

- Do not repair the air conditioner at your discretion.
It is recommended to contact a service center directly.
- Never spill any kind of liquid on the air conditioner.
If this happens, turn off the air conditioner and contact an authorized service center.
- Do not spray any kind of liquid into the indoor unit. If this happens, turn off the air conditioner and contact a service center.

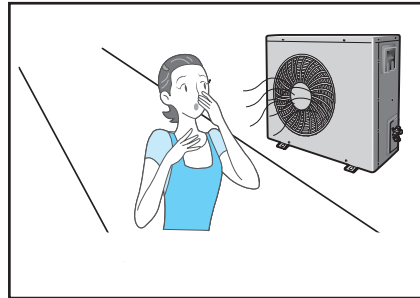


1-3 During operation(cont.)

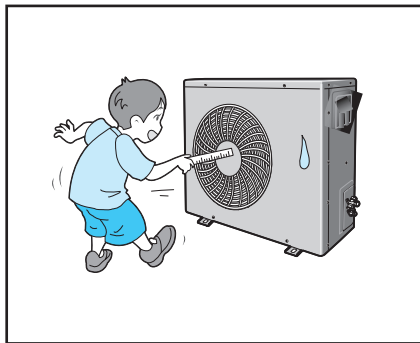
- Do not place any obstacles in front of the air conditioner.



- Make sure that the air conditioner is well ventilated at all times:
Do not place a cloth or other materials over it.



- Do not insert anything between the airflow blades to prevent damage of the inner fan and consequent injury.
Keep children away from the air conditioner.
- Remove the batteries if you don't use the remote control for a long time. (If applicable)
- Use the remote control within 7 meters from the indoor unit. (If applicable)



1-4 Disposing of the unit

- Before throwing out the air conditioner, remove the batteries from the remote control.
- When you dispose of the air conditioner, consult your dealer. If pipes are removed incorrectly, refrigerant may blow out and cause air pollution. When it contacts with your skin, it can cause skin injury.
- The package of the air conditioner should be recycled or disposed of properly for environmental reasons.

1-5 Others

- Never store or load the air conditioner upside down or sideways to prevent the damage to the compressor.
- Young children or infirm persons should be always supervised when they use the air conditioner.
- Max current is measured according to IEC standard for safety.
- Current is measured according to ISO standard for energy efficiency.

2. Product Specifications

2-1 The Feature of Product

■ Easier Installation

- Slim height and light weight

■ Easier Tuning

- Using phase control motor, Installers are able to optimize duct work & keep capacity and sound level as desired.

■ Various useful Functions

- Built in Drain Pump(Optional)
- Long piping
 - Maximum length : 50m
 - Maximum height : 30m

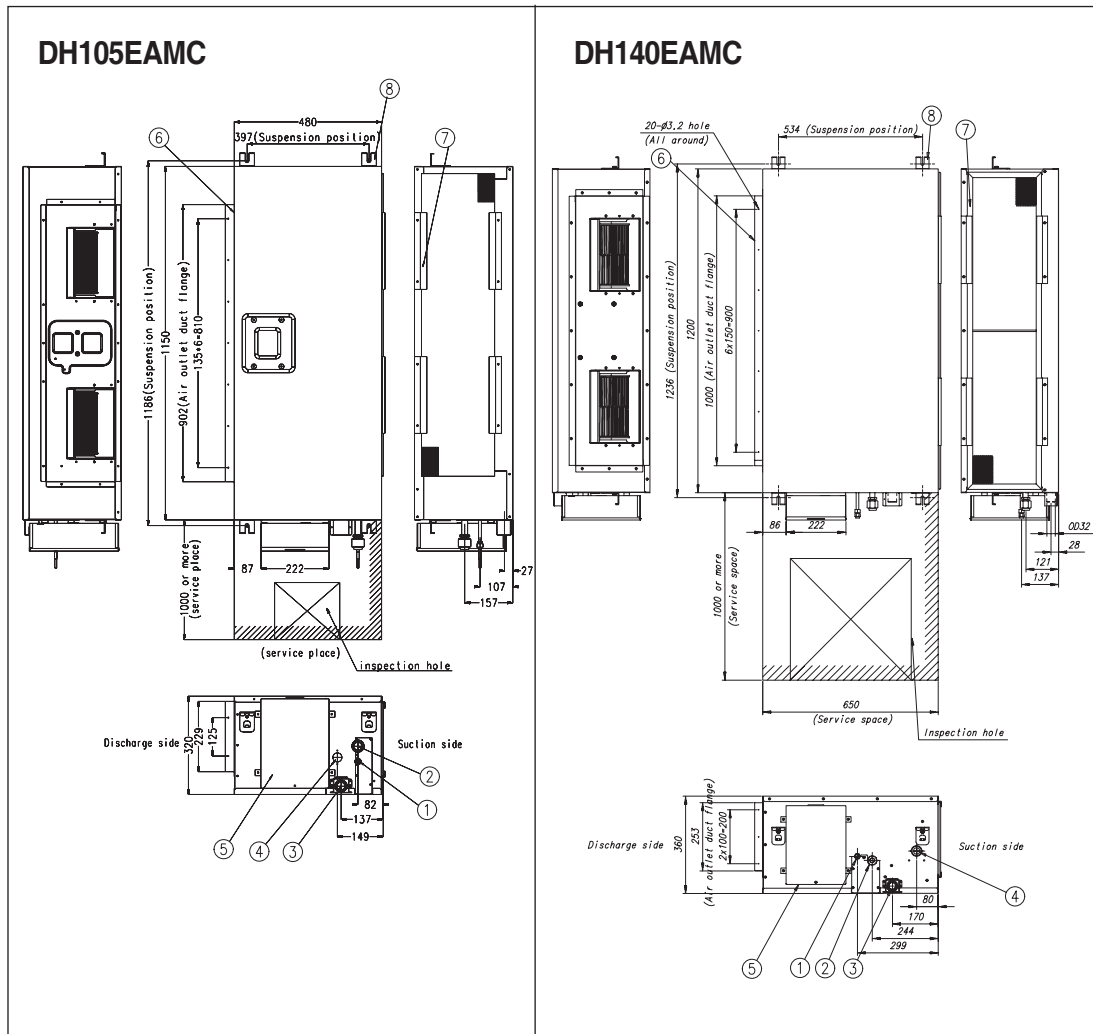
■ Convenient Control Functions

- Auto Change Over
- Central Controller(Optional) : Can Control up to 16 units individually
- Group Control
- Weekly program(Optional)

2-2 Name of Each Part

2-2-1 Indoor Unit

(Unit : mm)

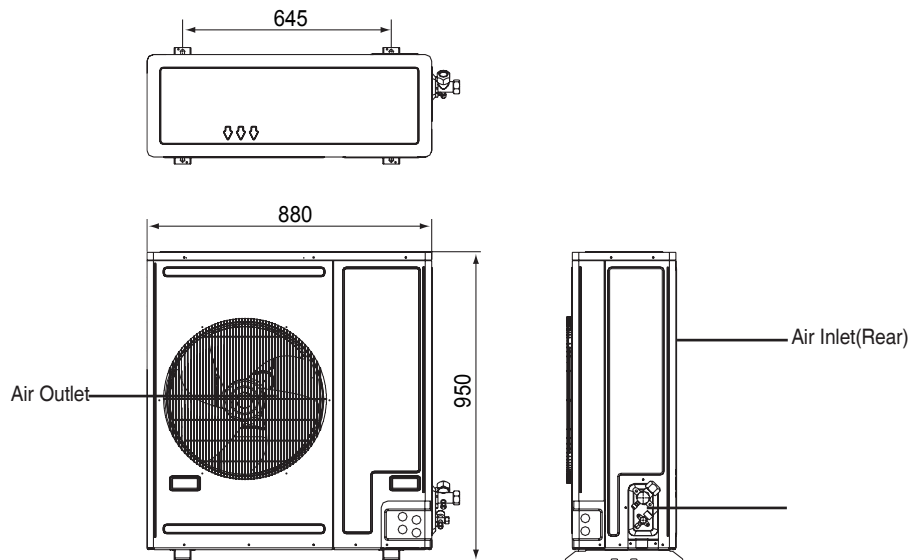


Number	Name	Description
1	Liquid pipe connection	ø9.52 Flare
2	Gas pipe connection	ø19.05 Flare
3	Drain pipe connection	OD32 ID26
4	Drain pipe connection	Using drain pump (Optional)
5	Power supply connection	
6	Air discharge flange	
7	Air filter	
8	Hook	For M8~M10

2-2-2 Outdoor Unit

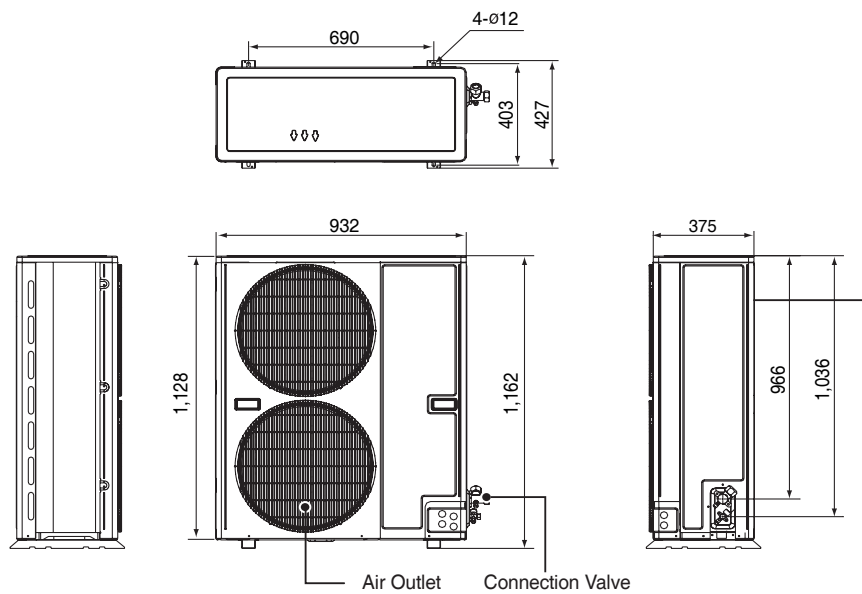
(1) UH105EAMC/UH105GAMC

(Unit : mm)



(2) UH140GAMC

(Unit : mm)



2-3. Product Specifications

Table

MODEL	INDOOR UNIT			DH105EAMC	DH140EAMC	DH105EAMC
	OUTDOOR UNIT			UH105GAMC	UH140GAMC	UH105EAMC
Capacity	Cooling	W		10,000	14,700	10,000
	Heating	W		10,700	16,000	11,000
EER	Cooling	W/W		2.70	2.67	2.58
	Heating	W/W		2.82	2.81	2.86
Indoor Unit	Power Supply			220-240V~, 50Hz		
	Power Input	Cooling	kW	0.13	0.22	0.13
		Heating	kW	0.13	0.22	0.13
	Running Current	Cooling	A	0.70	1.40	0.70
		Heating	A	0.70	1.40	0.70
	Fan Speed	Hi	r.p.m	1180±50	950±50	1180±50
		Mid	r.p.m	1080±50	900±50	1080±50
		Low	r.p.m	950±50	820±50	950±50
		Ultra Low	r.p.m	---	---	---
	Air Circulation	Hi	m³/min	30	38	30
		Mid	m³/min	27	34	27
		Low	m³/min	24	30	24
		Ultra Low	m³/min	---	---	---
	Noise Level (Sound Pressure)	Hi	dB(A)	48	51	48
		Mid	dB(A)	47	49	47
		Low	dB(A)	45	47	45
		Ultra Low	dB(A)	---	---	---
	Heat Exchanger	Type		Slit Fin Coil		
		Row x Stages x Fin Pitch		3x14x1.3	3x16x1.3	3x14x1.3
	Fan	Type		Sirocco		
		Motor Output	kW	0.13	0.22	0.13
	Dimensions	H	mm	320	360	320
		W	mm	480	650	480
		D	mm	1150	1200	1150
	Weight	kg	Net / Gross	39 / 46	52 / 60	39 / 46
Outdoor Unit	Power Supply			3ø, 380V~, 50Hz		
	Power Input	Cooling	kW	3.7	5.5	3.87
		Heating	kW	3.8	5.7	3.85

Table(cont.)

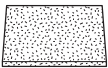
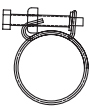
MODEL	INDOOR UNIT			DH105EAMC	DH140EAMC	DH105EAMC
	OUTDOOR UNIT			UH105GAMC	UH140GAMC	UH105EAMC
Outdoor Unit	Running Current	Cooling	A	6.4	9.5	17.5
		Heating	A	6.5	10.2	17.5
	Fan Speed	Hi	r.p.m.	1080/1060±50	1020/990±50	1080/1060±50
		Low	r.p.m.	780/750±50	600/550±50	780/750±50
	Sound Pressure Level		dB(A)	66	67	65
	Fan	Type		Propeller		
		Motor Output	W	82	82	82
	Compressor	Type		Scroll		
		Model		AN42YBFMT	BN62YFAMT	AN42VBFMT
		Protection		Internal		
	Heat Exchanger	Type		Slit fin coil		
		Row x Stages x Fin Pitch		2 x 42 x 1.3	2 x 52x 1.5	2 x42 x 1.3
	Refrigerant	Control		EEV		
		(R22)Charge	g	2,750	3,300	2,600
	Dimensions	(H x W x D)	mm	880×931×320	932×1128×375	880×931×320
	Weight	kg	Net / Gross	87 / 92	121 / 136	87 / 92
Piping	Pipe O.D.	Liquid	mm(inch)	9.52(3/8")	9.52(3/8")	9.52(3/8")
	Size	Gas	mm(inch)	19.05(3/4")	19.05(3/4")	19.05(3/4")
	Connection Method			Flare		
	Between	Height	mm	30	30	30
		Pipe Length	mm	50	50	50

2-4 The Comparative Specifications of Product

Design	Indoor Unit	DH105EAMC	DH140EAMC
			
	Outdoor Unit	UH105GAMC/UH105EAMC	UH140GAMC
			
Net Weight	Indoor Unit	57.0kg	52.0kg
	Outdoor Unit	115.0kg	136.0kg
Outer Dimension	Indoor Unit	320 x 460 x 1150mm	360 x 650 x 1200mm
	Outdoor Unit	880 x 931 x 320mm	932 x 1128 x 375mm
Noise	Indoor Unit	48dB↓	51dB↓
	Outdoor Unit	66/65dB↓	67dB↓

2-5 Accessory and Option Specifications

2-5-1 Accessories

Item	Descriptions	Code-No.	Q'TY	Remark
	Wired remote controller	DB97-01904G	1	Indoor Unit
	Owner's Manual	DB98-26846A	1	
	Installation Manual	DB98-26845A	1	
	Insulation	DB72-00143E	1	
		DB62-01959A	1	
	Insulation Drain In	DB62-03440H	1	
	Insulation Install Inlet	DB72-00143G	1	
		DB72-00143E	1	
	Ass'y Holder Drain Pipe	DB90-02064A	1	Indoor Unit
	Ass'y Drain Hose Joint	DB96-10453B	1	

3. Alignment and Adjustments

3-1 E. S. P(External Static Pressure) Setting for Phase Control Motor

With its phase control motor, you can adjust the indoor unit fan speed depending on the installation condition. If the external static pressure is high so that the duct becomes longer or if the external static pressure is low so that the duct becomes shorter, adjust the fan speed by referring the following table. Refer to the page 3-1 to set the option code.

Static Pressure(mmAq)			0	2	4	6	8	10	15
Model	Step	CMM (CFM)	Option Code for Indoor Unit						
DH140EAMC	Hi	38(1341)	015813 -13018E	015814 -1300A0	015814 -1300C2	015814 -1300E5	015814 -130217	015814 -130249	015814 -1303E1
	Mid	34(1200)							
	Low	29.5(1041)							
DH105EAMC	Hi	29.5(1041)	015814 -100091	015814 -1000A2	015814 -1000C3	015814 -1000E5	015814 -100247	015814 -1002FC	-
	Mid	27(953)							
	Low	24(847)							

Note : •  represents E. S. P(External Static Pressure) range of factory setting.

You don't have to adjust the fan speed separately if the external static pressure of the installation place is in .

When it is out of , input the appropriate option code.

- If you input the inappropriate option code, error may occur or the air conditioner is out of order. The option code must be inputted correctly by the installation specialist or service agent.

Option items

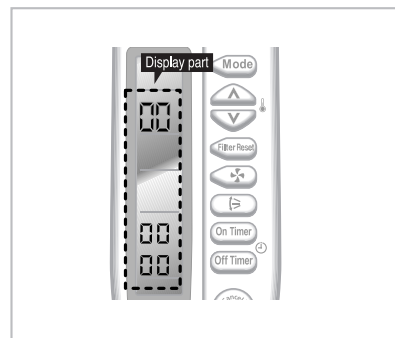
Remote Control Model	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
DH140EAMC	0	1	5	8	1	4	1	3	0	2	1	7
DH105EAMC	0	1	5	8	1	4	1	0	0	2	4	7

3-2 Setting Option Setup Method

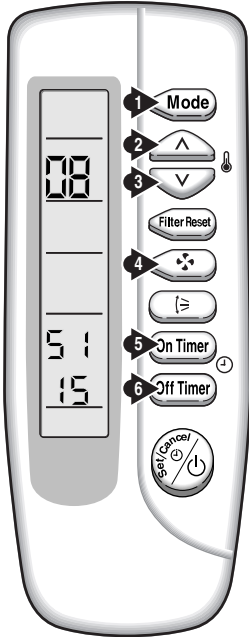
ex) Option No. : 085 115- 1d2340

Step 1 : Enter the Option Setup mode.

- 1st Take out the batteries of remote control.
- 2nd Press the temp.  button simultaneously and insert the battery again.
- 3rd Make sure the remote control display shown as .



Step 2 : Enter the Option Setup mode and select your option according to the following procedure.



- 1
The default value is  .
Otherwise, push the  button to  .
Every time you push the button, the display panel reads 1 or 0 repeatedly.
- 2
Push the  button to set the display panel to 8 .
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.
- 3
Push the  button to set the display panel to 5 .
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.
- 4
Push the  button to set the display panel to 1 .
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.
- 5
Push the  button to set the display panel to 1 .
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.
- 6
Push the  button to set the display panel to 5 .
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.

* Setting is not required if you must  a value which has a  default.



7 Press **Mode** button, then the default value is $\begin{smallmatrix} 1d \\ 00 \\ 00 \end{smallmatrix}$.

8 Push the **▲** button to set the display panel to **d**.
Every time you push the button, the display panel reads $\begin{smallmatrix} 0 \\ 1 \\ 2 \end{smallmatrix} \rightarrow 3 \rightarrow \dots 9 \rightarrow A \rightarrow b \rightarrow c \rightarrow d \rightarrow E \rightarrow F$ repeatedly.

9 Push the **▼** button to set the display panel to **2**.
Every time you push the button, the display panel reads $\begin{smallmatrix} 0 \\ 1 \\ 2 \end{smallmatrix} \rightarrow 3 \rightarrow \dots 9 \rightarrow A \rightarrow b \rightarrow c \rightarrow d \rightarrow E \rightarrow F$ repeatedly.

10 Push the **Filter Reset** button to set the display panel to **3**.
Every time you push the button, the display panel reads $\begin{smallmatrix} 0 \\ 1 \\ 2 \end{smallmatrix} \rightarrow 3 \rightarrow \dots 9 \rightarrow A \rightarrow b \rightarrow c \rightarrow d \rightarrow E \rightarrow F$ repeatedly.

11 Push the **On Timer** button to set the display panel to **4**.
Every time you push the button, the display panel reads $\begin{smallmatrix} 0 \\ 1 \\ 2 \end{smallmatrix} \rightarrow 3 \rightarrow \dots 9 \rightarrow A \rightarrow b \rightarrow c \rightarrow d \rightarrow E \rightarrow F$ repeatedly.

12 Push the **Off Timer** button to set the display panel to **0**.
Every time you push the button, the display panel reads $\begin{smallmatrix} 0 \\ 1 \\ 2 \end{smallmatrix} \rightarrow 3 \rightarrow \dots 9 \rightarrow A \rightarrow b \rightarrow c \rightarrow d \rightarrow E \rightarrow F$ repeatedly.

* Setting is not required if you must $\begin{smallmatrix} 0 \\ 1 \\ 2 \end{smallmatrix}$ a value which has a $\begin{smallmatrix} 0 \\ 1 \\ 2 \end{smallmatrix}$ default.

Step 3 : Upon completion of the selection, check you made right selections.

Press the Mode Selection key, **Mode** to set the display part to $\begin{smallmatrix} 00 \\ 51 \\ 15 \end{smallmatrix}$ and check the display part.

→ The display part shows $\begin{smallmatrix} 00 \\ 51 \\ 15 \end{smallmatrix}$.

Press the Mode Selection key, **Mode** to set the display part to $\begin{smallmatrix} 1d \\ 23 \\ 40 \end{smallmatrix}$ and check the display part.

→ The display part shows $\begin{smallmatrix} 1d \\ 23 \\ 40 \end{smallmatrix}$.

Step 4 : Pressing the ON/OFF button ()

When pressing the operation ON/OFF key with the direction of remote control for unit, the sound "Ding" or "Diriring" is heard and the OPERATION ICON() lamp of the display is flickering at the same time, then the input of option is completed. (If the diriring sound isn't heard, try again pressing the ON/OFF button.)

Step 5 : Unit operation test-run

First, Remove the battery from the remote control.

Second, Re-insert the battery into the remote control.

Third, Press ON/OFF button() with the direction of remote control for set.

• Error Mode

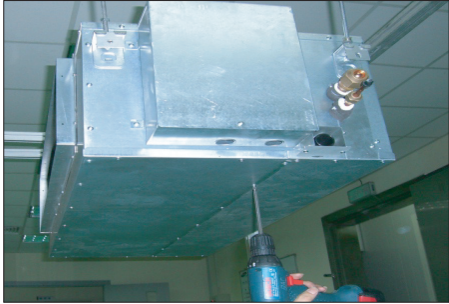
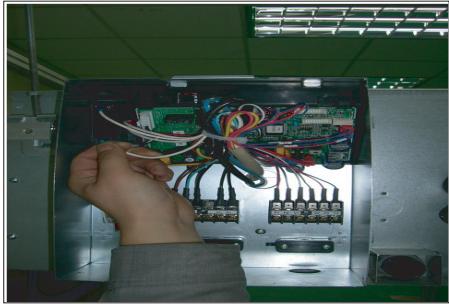
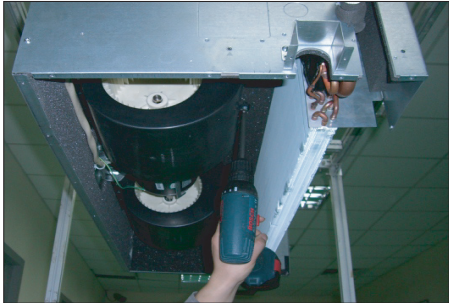
1st If all lamps of indoor unit are flickering, Plug out, plug in power plug again and press ON/OFF key to retry.

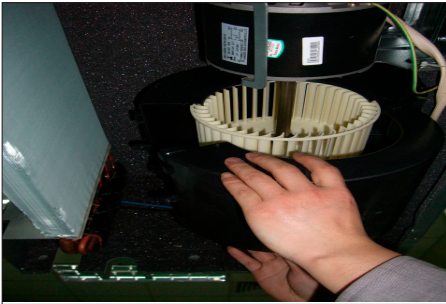
2nd If the unit is not working properly or all lamps are continuously flickering after setting the option code, see if the correct option code is set up for its model.

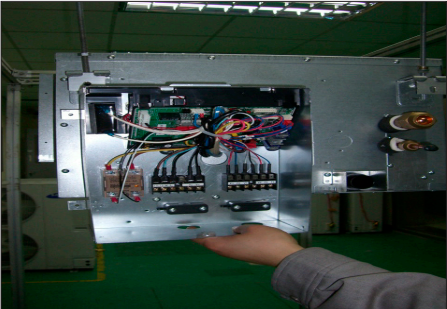
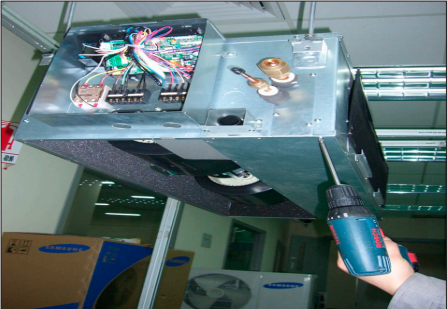
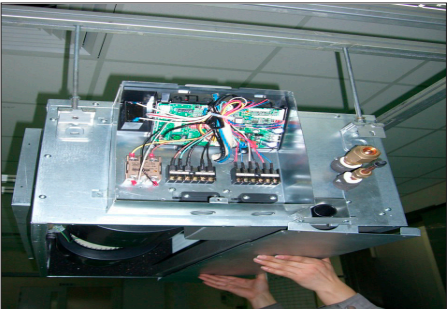
4. Disassembly and Reassembly

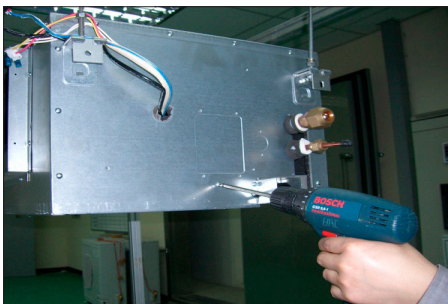
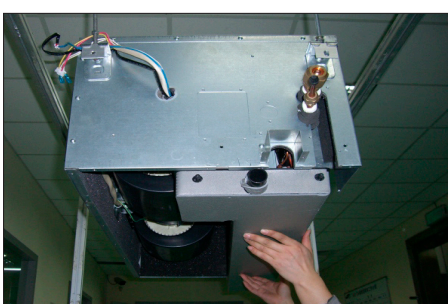
Stop operation of the air conditioner and remove the power cord before repairing the unit.

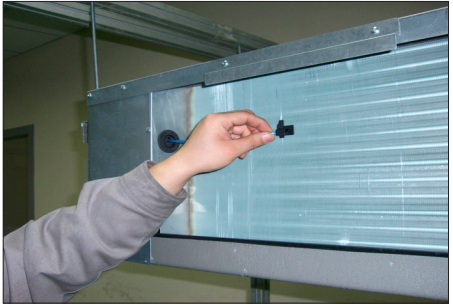
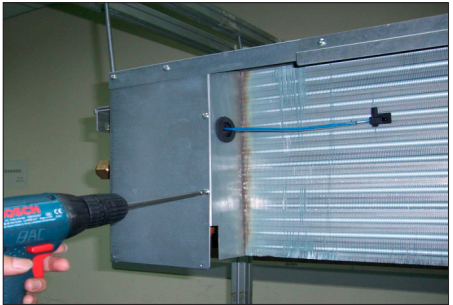
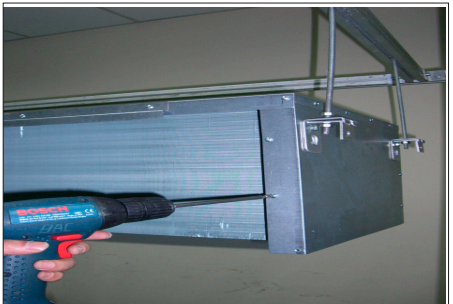
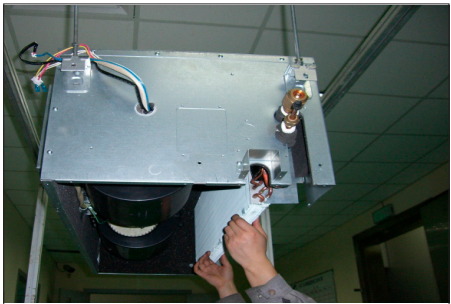
4-1 Indoor Unit (DH105EAMC)

No	Parts	Procedure	Remark
1	Blower & Motor	1) After disassembling 16 places indicating screws, detach Ass'y Cabi Bottom Blower. 2) Detach from Ass'y Control In the capacitor connection wire between the Motor Fan and housing connector. 3) After disassembling 2 places indicating screws, detach the 2 Fan Case.	   

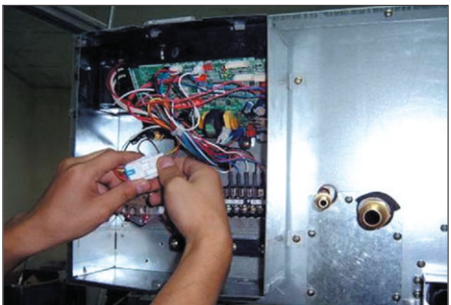
No	Parts	Procedure	Remark
		4) After disassembling 2 places indicating screws, detach Fan Motor and Blower from the set.	
2	Control In	1) After disassembling 1 Indicating screw, detach the Cover control. 2) Detach the Motor-Fan and Sensor Connector from the PCB.	  

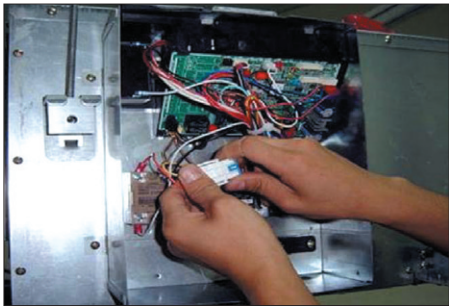
No	Parts	Procedure	Remark
		3) Disassemble 4 indicating screws and detach Control In from the set.	 
3	Drain Pan	Work is possible when Disassembling the Ass'y Cabi Bottom Blower. 1) Disassemble 7 indicating screws and detach Ass'y Cabi Bottom Drain.	 

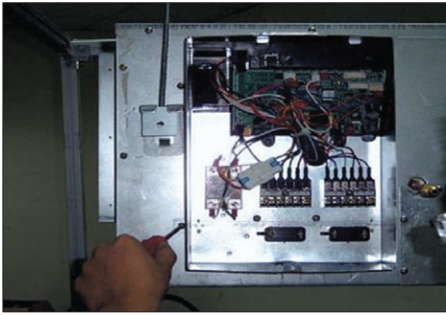
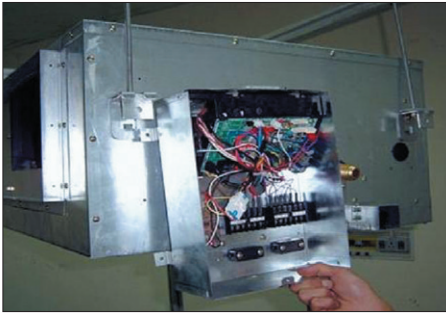
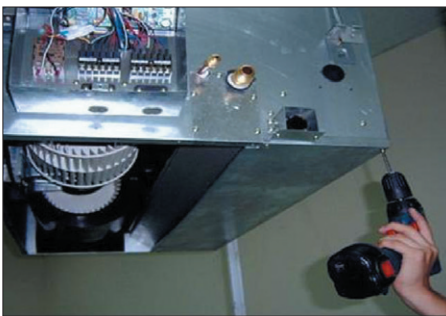
No	Parts	Procedure	Remark
		2) Disassemble 2 indicating screws and detach Holder Pipe. 3) Disassemble 4 indicating screws and detach the Drain Pan. (2 screws each at left and right side)	   
4	Evap	Work is possible when Disassembling the Ass'y Drain Pan. 1) Disassemble 5 indicating screws to detach Cover Pipe.	

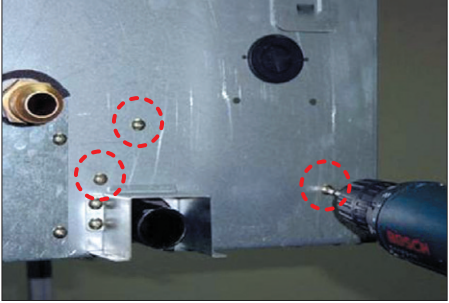
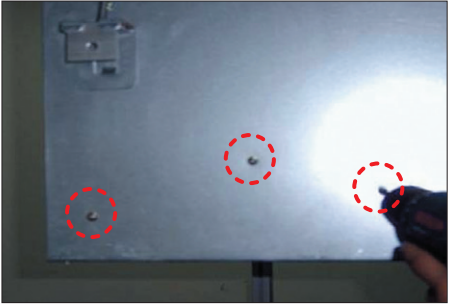
No	Parts	Procedure	Remark
		2) Disassemble Sensor on the Evap. 3) Disassemble 4 indicating screws which are in the near of Hanger Plate to detach the Evap. (2 screws each at left and right side) ⚠ It needs 2 peoples.	   

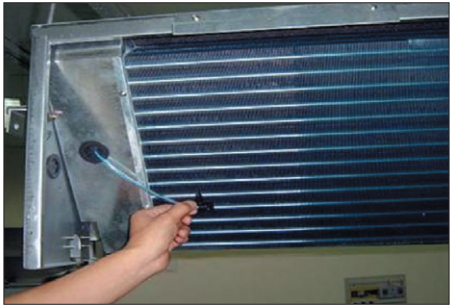
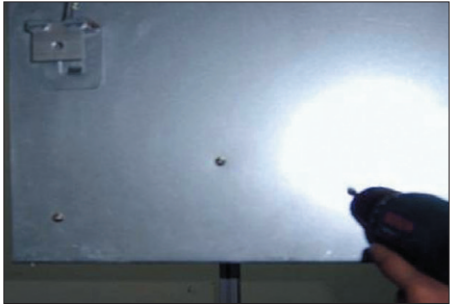
Indoor Unit (DH140EAMC)

No	Parts	Procedure	Remark
1	Blower & Motor	1) After disassembling 15 places indicating screws, detach Ass'y Cabi Bottom Blower. 2) Detach from Ass'y Control In the capacitor connection wire between the Motor Fan and housing connector. 3) After disassembling 4 places indicating screws, detach the 2 Fan Case.	   

No	Parts	Procedure	Remark
		4) After disassembling 2 places indicating screws, detach Fan Motor and Blower from the set.	
2	Control In	1) After disassembling 1 Indicating screw, detach the Cover control. 2) Detach the Motor-Fan and Sensor Connector from the PCB.	  

No	Parts	Procedure	Remark
		3) Disassemble 4 indicating screws and detach Control In from the set.	 
3	Drain Pan	* Work is possible when Disassembling the Ass'y Cabi Bottom Blower. 1) Disassemble 6 indicating screws and detach Ass'y Cabi Bottom Drain.	 

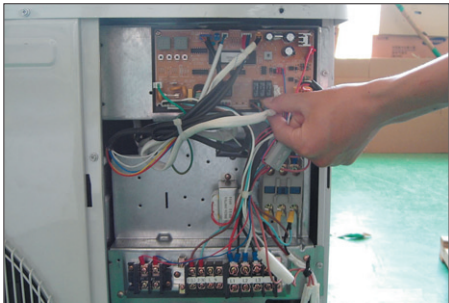
No	Parts	Procedure	Remark
		2) Disassemble 2 indicating screws and detach Holder Pipe. 3) Disassemble 6 indicating screws and detach the Drain Pan. (3 screws each at left and right side)	   
4	Evap	* Work is possible when Disassembling the Ass'y Drain Pan. 1) Disassemble 5 indicating screws to detach Cover Pipe.	

No	Parts	Procedure	Remark
		2) Disassemble Sensor on the Evap. 3) Disassemble 2 indicating screws which are in the near of Hanger Plate to detach the Evap. (1 screw each at left and right side)  It needs 2 peoples.	  

4-2 Outdoor Unit (UH140GAMC)

No	Parts	Procedure	Remark
1	Cabinet	1) Turn off the equipment and disassemble the power cable. 2) Uncover the Top Cover. 3) Uncover the Control Box Cover. 4) Pull out the assemble Cable. 5) Disassemble the Cabinet Side. 6) Disassemble the Cabinet Front. * Check if each part is fixed to the electric connector firmly at the time of part assembly.	
2	Fan Motor & Propeller Fan	1) Loosen the Propeller Fan Bolt. 2) Disassemble the Fan.	

Outdoor Unit (UH105GAMC/UH105EAMC)

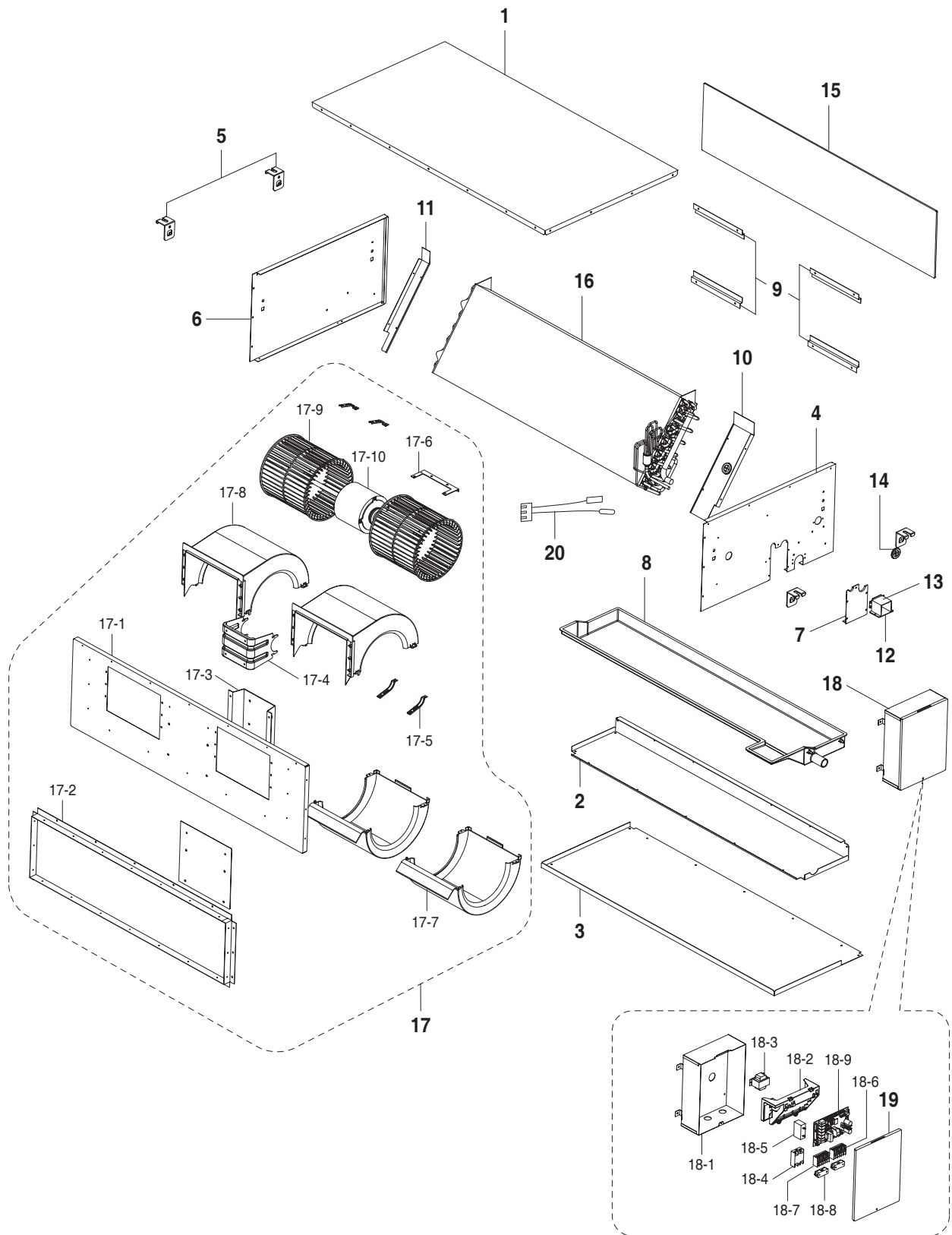
No	Parts	Procedure	Remark
3	Control Box & PCB	1) Loosen the 8 screws fixing the Cover Side. 2) Loosen the screws and push the Cover Side in the arrow direction for disassembly. 3) Disconnect the PCB connector and disassembly the Electronic Box and PCB.	  

MEMO

■ Parts List

NO	CODE NO	Description	Specification	Q'TY	SA/SNA
1	DB90-02403A	ASSY CABINET-TOP	MA1,SSEC	1	SA
2	DB90-02409A	ASSY CABINET-BOTTOM DRAIN	MA1,SSEC	1	SA
3	DB90-02405A	ASSY CABINET-BOTTOM BLOWER	MA1,SSEC	1	SA
4	DB90-02406A	ASSY CABINET-SIDE RH	MA1,SSEC	1	SA
5	DB61-01282A	HOLDER-SIDE CABI	ADC6000TG,SGCC-M,T3.0,45.2,65	4	SNA
6	DB90-02407A	ASSY CABINET-SIDE LF	MA1,SSEC	1	SA
7	DB90-02404A	ASSY COVER-PIPE	MA1,SSEC	1	SA
8	DB91-00346A	ASSY DRAIN PAN	DH42BTA,SSEC	1	SA
9	DB61-02374A	BRACKET-FILTER	DUCT 60K,SGCC-M,T1.0,50,250,-,SSEC	4	SA
10	DB63-01297A	COVER-HOLDER	DUCT 60K,SGCC-M,T0.8,MID EAST,SSEC	1	SNA
11	DB61-02378A	HOLDER-PIPE	DUCT 60K,SGCC-M,T1.0,SSEC MID EAST	1	SNA
12	DB63-01299B	FILTER-PRE	DH42BTA,-,5.6,SSEC	1	SA
13	DB96-05704A	ASSY EVAP-UNIT	MA1,SSEC	1	SNA
14	DB94-01205A	ASSY FAN IN PARTS	DH105GZM/XFA,SSEC	1	SNA
14-1	DB90-02402A	ASSY CABINET FRONT	MA1,SSEC	1	SA
14-2	DB90-02408A	ASSY-BRACKET OUTLET PART	MA1,SSEC	1	SNA
14-3	DB61-02331A	BRACKET MOTOR	EH140EZMC,SGCC-M,T2.0	1	SA
14-4	DB97-03751A	ASSY-BAND MOTOR	HP,NO,SLIM DUCT 3,SSEC	1	SNA
14-5	DB61-02333A	CASE BLOWER-BOTTOM	EH140EZMC,ABS,T2.0	2	SA
14-6	DB61-02332A	CASE BLOWER-UPPER	EH140EZMC,ABS,T2.0	2	SA
14-7	DB67-00583B	BLOWER-D	EH140EZMC,ABS	2	SA
14-8	DB31-00355B	MOTOR FAN	YSK140-200-4 DC42GTVA,0.71/1.4A,50HZ,220V/1.4A	1	SNA
15	DB93-04534A	ASSY CONTROL IN PARTS	HP,T,48K,R22,DH105EAMC SSEC	1	SNA
15-1	DB90-01992A	ASSY CASE-CONTROL	60K,MIDDLE EAST	1	SA
15-2	DB61-02287A	CASE PCB	MH020FDEZ,ABS V0,T2.5	1	SA
15-3	DB26-10070G	TRANS	AVMME036EZC,SSEC	1	SA
15-4	3502-001035	SSR	DC 12V,-,10A,1ms,-	1	SNA
15-5	2301-001381	C-FILM	8000nF,+10-5%,450V,BK,58x30x44mm	1	SA
15-6	DB65-00105M	TERMINAL BLOCK	MINI-DVM,DAF-S6P,SSEC	1	SA
15-7	DB65-00105L	TERMINAL BLOCK	MINI-DVM,DAF-S6P,SSEC	1	SA
15-8	DB61-00250A	HOLDER-WIRE CLAMP	ABS,BLK,ISI,SAMLINE	2	SNA
15-9	DB93-03213F	ASSY PCB	OASIS-P/J,H/P	1	SA
16	DB63-01296A	COVER-CONTROL	DUCT 60K,SGCC-M,T0.8,MID EAST,-,SSEC	1	SA
17	DB32-00142B	THERMISTOR-IN	10Kohm±1%,103AT,-20	1	SA

Indoor Unit (DH140EAMC)

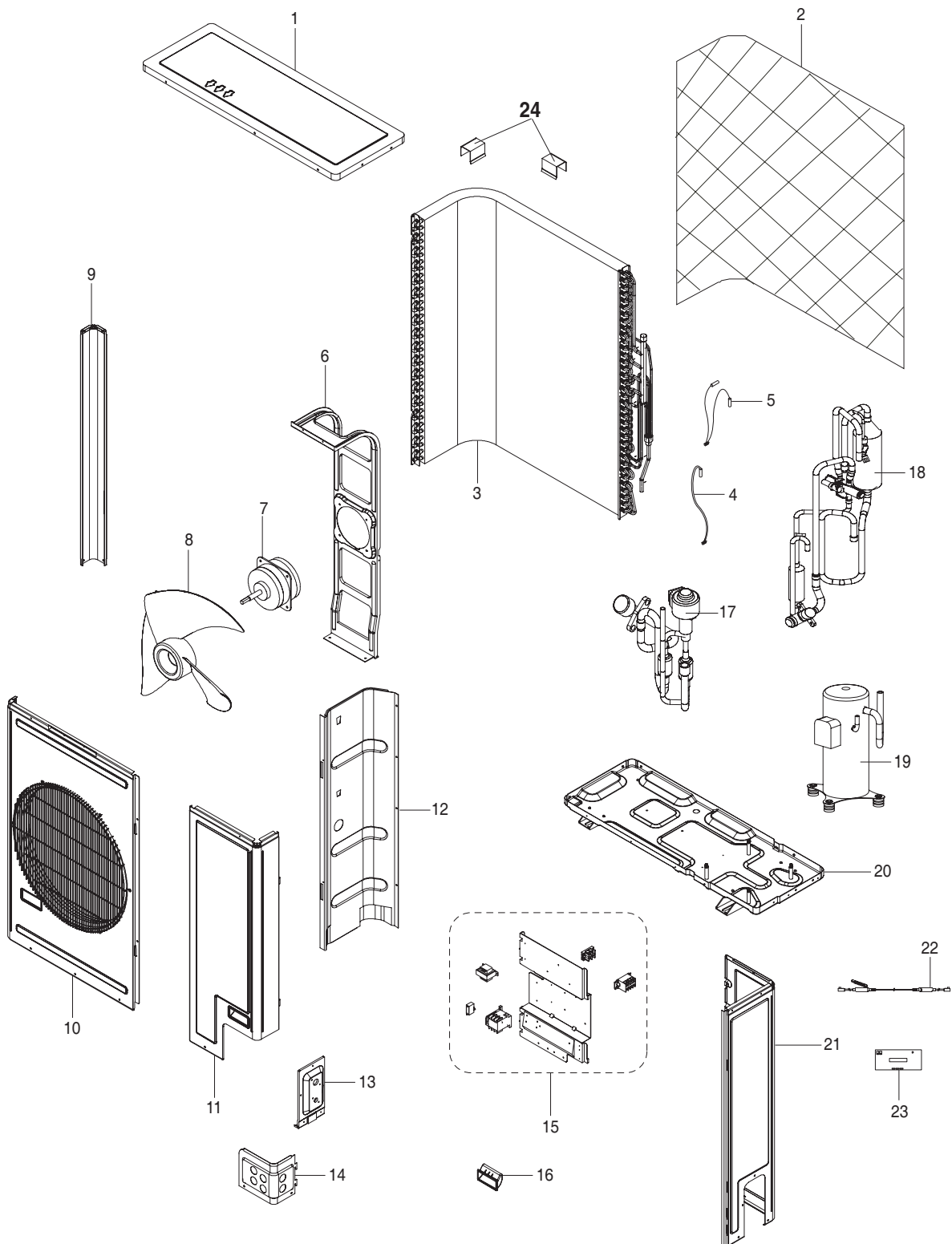


■ Parts List

No	Code No.	Description	Specification	Quantity	SA/SNA
				DH140EAMC	
1	DB90-02083A	ASSY CABINET-TOP	SSEC,MID EAST	1	SA
2	DB90-02007A	ASSY CABINET-BOTTOM DRAIN	DH60FTA,SSEC	1	SA
3	DB90-02008A	ASSY CABINET-BOTTOM BLOWER	DH60FTA,SSEC	1	SA
4	DB90-02009A	ASSY CABINET-SIDE RH	DH60FTA,SSEC	1	SA
5	DB61-01282A	HOLDER-SIDE CABI	ADC6000TG,SGCC-M,T3.0,45.2,65	4	SNA
6	DB90-02010A	ASSY CABINET-SIDE LF	DH60FTA,SSEC	1	SA
7	DB90-02011A	ASSY COVER-PIPE	DH60FTA,SSEC	1	SA
8	DB91-00317A	ASSY DRAIN PAN	DH60FTA,SSEC	1	SNA
9	DB61-02374A	BRACKET-FILTER	DUCT 60K,SGCC-M,T1.0,50,250,-,SSEC	4	SA
10	DB61-02380A	BRACKET EVAP-RH	DUCT 60K,SGCC-M,T1.5,129,401,-,SSEC	1	SA
11	DB61-02379A	BRACKET EVAP-LF	DUCT 60K,SGCC-M,T1.5,65,401,-,SSEC	1	SA
12	DB63-01297A	COVER-HOLDER	DUCT 60K,SGCC-M,T0.8,MID EAST,-,SSEC	1	SNA
13	DB61-02378A	HOLDER-PIPE	DUCT 60K,SGCC-M,T1.0,-,-,-,SSEC	1	SNA
14	DB73-00270A	RUBBER-COVER WIRE B	MH020FDEZ,OD 35	2	SNA
15	DB63-01299A	FILTER-PRE	DUCT 60K,-,5.6,275,1185,-,SSEC	1	SA
16	DB96-06132A	SSY EVAP-UNIT	DC48G(F)TVA,SSEC	1	SA
17	DB94-01203A	ASSY FAN IN PARTS	DH140GZM/XFA,SSEC	1	SNA
17-1	DB90-02028A	ASSY CABINET FRONT	DH60FTA,SSEC	1	SA
17-2	DB90-02013A	ASSY-BRACKET OUTLET PART	DH60FTA,SSEC	1	SA
17-3	DB61-02372A	BASE-MOTOR	DUCT 60K,SGCC-M,T2.5,165,220	1	SA
17-4	DB61-02375A	BRACKET MOTOR	DUCT 60K,SGCC-M,T2.5,125,156,-,SSEC	1	SA
17-5	DB72-00710A	BAND MOTOR	ADC6000TG,SGCC-M,T1.6	4	SA
17-6	DB61-00540B	BRACKET MOTOR-GUIDE	HH140EZM,SGCC-M,T1.6,146,65	1	SA
17-7	DB61-02382A	CASE FAN-LOW	DUCT 60K,SSEC	2	SA
17-8	DB61-02381A	CASE FAN-UP	DUCT 60K,SSEC	2	SA
17-9	DB67-00594A	BLOWER	DUCT 60K,SSEC	2	SA
17-10	DB31-00321D	MOTOR FAN	YDK-370S43223-	1	SNA
18	DB93-04534A	ASSY CONTROL IN PARTS	HP,T,48K,R22,DH140GZM/XFA,SSEC	1	SNA
18-1	DB90-01992A	ASSY CASE-CONTROL	60K,MIDDLE EAST	1	SA
18-2	DB61-02287A	CASE PCB	MH020FDEZ,ABS V0,T2.5	1	SA
18-3	DB26-10070G	TRANS POWER	AVMME036EZC,SSEC	1	SA
18-4	3502-001035	SSR	DC 12V,-,10A,1ms,-	1	SNA
18-5	2301-001381	C-FILM,LEAD-OTHER	8000nF,+10-5%,450V,BK,58x30x44m	1	SA
18-6	DB65-00105M	TERMINAL BLOCK	MINI-DVM,DAF-S6P,SSEC	1	SA
18-7	DB65-00105L	TERMINAL BLOCK	MINI-DVM,DAF-S6P,SSEC	1	SC
18-8	DB61-00250A	HOLDER-WIRE CLAMP	ABS,-,-,-,BLK,ISI,SAMLINE	2	SNA
18-9	DB93-03213F	ASSY PCB MAIN	OASIS-P/J,H/P	1	SNA
19	DB63-01296A	COVER-CONTROL	DUCT 60K,SGCC-M,T0.8,MID	1	SA
20	DB32-00142B	THERMISTOR-IN	10Kohm±1%,103AT,-20	1	SA

5-2 Outdoor Unit

UH105GAMC/UH105EAMC



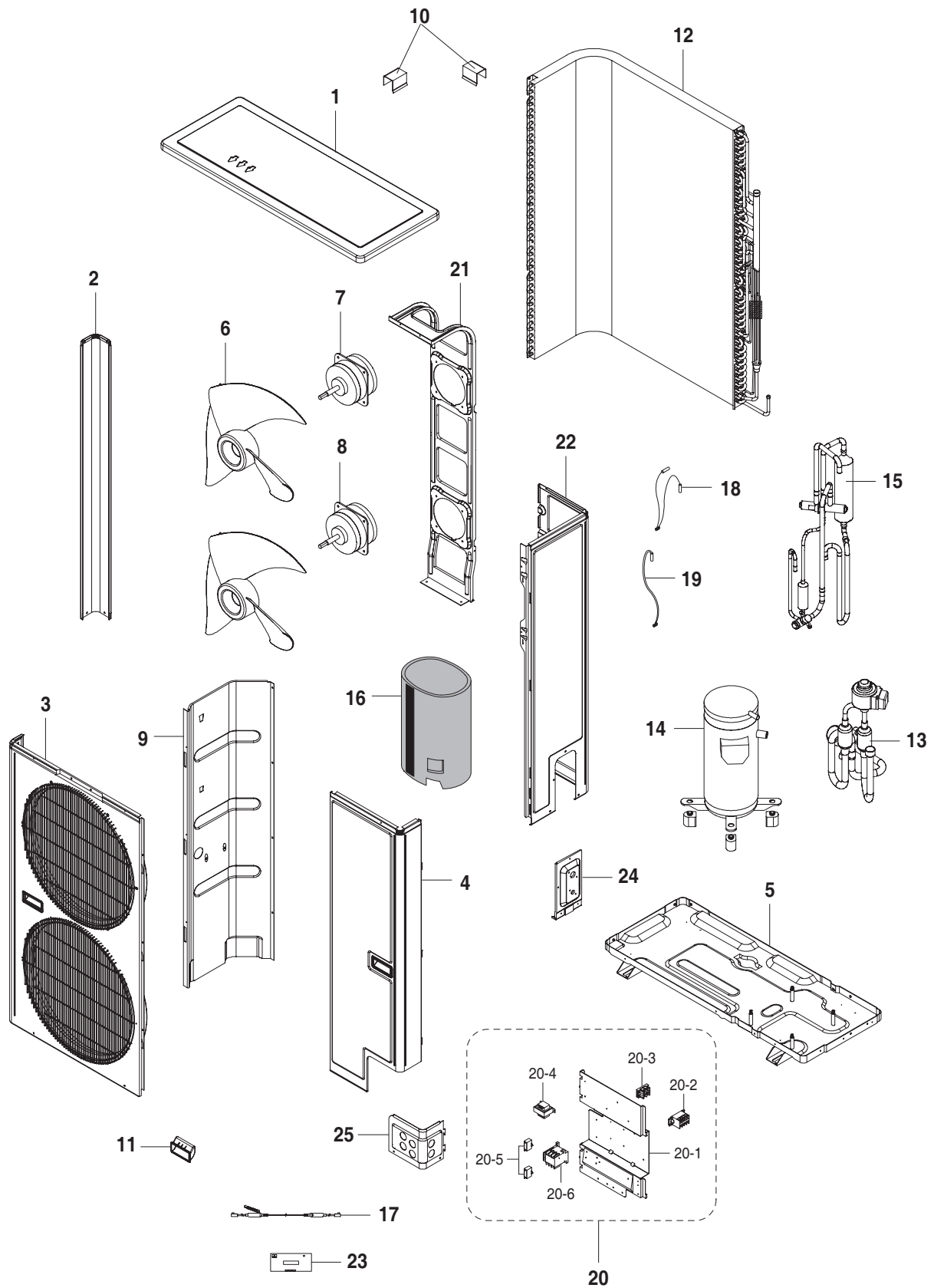
UH105GAMC

No.	CODE NO.	Description	Specification	Q'TY	SA/SNA
1	DB90-01527A	ASS'Y-CABI TOP COVER	ASS'Y,UH105GZMC	1	SA
2	DB61-01908A	GUIDE-SCREEN	UH105GZMC,P.E.H 100% T2.5	1	SNA
3	DB96-06415A	ASSY COND-UNIT	UH105GAMC,SSEC	1	SA
4	DB32-00101C	THERMISTOR-OUT	204CT,200K/25,3435K,-20-150,50MA,5V	1	SA
5	DB32-00102C	THERMISTOR-OUT	204CT,200K/25,3435K,-20-150,50MA,5V	1	SA
6	DB90-02321A	ASSY-BRACKET MOTOR	ASS'Y,UH105GZM1C,SSEC	1	SA
7	DB31-00322H	MOTOR FAN	YDK150S43023-03C	1	SA
8	DB67-00438B	FAN-PROPELLER	UH105GZM1C,AS+GF10%,	1	SA
9	DB90-01593A	ASSY CABINET BACK-LF	UH105GZMC,SSEC	1	SA
10	DB90-01591A	ASSY CABINET FRONT-LF	UH105GZMC,SSEC	1	SA
11	DB90-01528A	ASSY-CABI FRONT RH	ASS'Y,UH105GZMC	1	SNA
12	DB90-01526A	ASSY-PARTITION	ASS'Y,UH105GZMC	1	SA
13	DB97-02613A	ASSY BRACKET-VAVLE	ASSY,SGCC-M,T1.6,SSEC	1	SA
14	DB61-01910A	BRACKET-WIRE	UH140GZMC,SSEC	1	SA
15	DB93-04375A	ASSY CONTROL OUT	HP,-,36K BTU,-,AC 380V	1	SA
16	DB64-01231A	HANDLE	SC-90073R ,SSEC	3	SA
17	DB99-00836A	ASSY VALVE EXPANSION	UH105GAMC,SSEC	1	SA
18	DB99-00835A	ASSY VALVE 4WAY	UH105GAMC,SSEC	1	SA
19	DB95-00861A	ASSY COMP	Scroll compressor,380-415V,50HZ,3phase,R410A	1	SA
20	DB99-00539C	ASSY-CABI BASE PART	UH105GZMC,SSEC	1	SA
21	DB90-01638A	ASSY CABINET BACK-RH	UH105GZMC,SSEC	1	SA
22	DB95-00564D	ASSY HEATER-COMP	DC30ET,BAC,220V/40W	1	SA
23	DB93-02919Q	ASSY-OUTDOOR MAIN PCB	UH105GAMC, OUTDOOR MAIN	1	SA
24	DB70-00163A	PLATE-COND	MH18VA1,SGCC-M, ,T0.8	2	SA

■ UH105EAMC

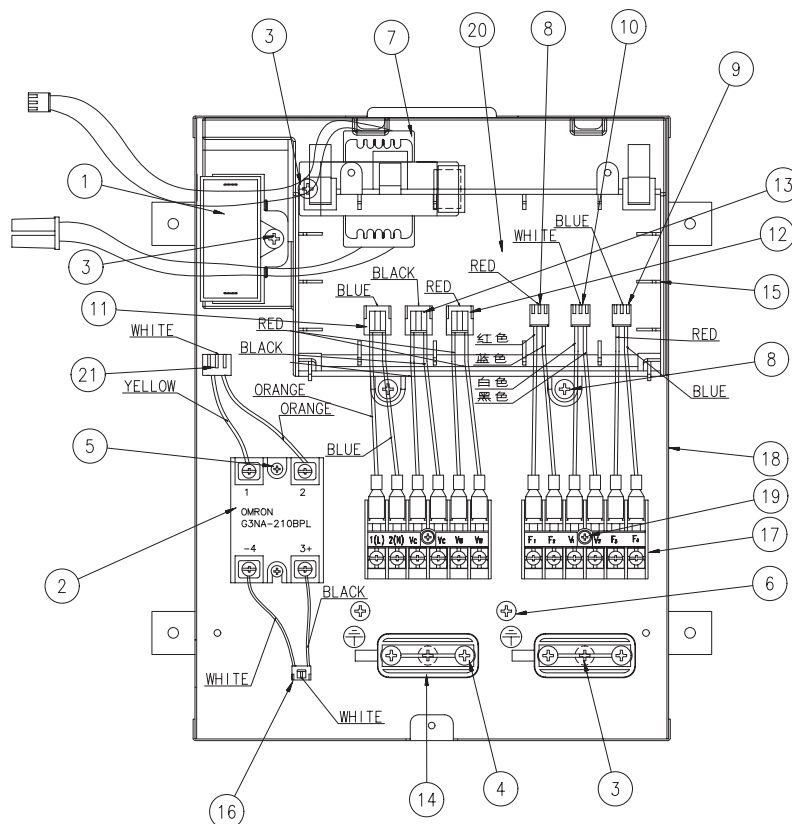
No.	CODE NO.	Description	Specification	Q'TY	SA/SNA
1	DB90-01527A	ASS'Y-CABI TOP COVER	ASS'Y,UH105GZMC	1	SA
2	DB61-01908A	GUIDE-SCREEN	UH105GZMC,P.E.H 100% T2.5	1	SNA
3	DB96-06415A	ASSY COND-UNIT	UH105GAMC,SSEC	1	SA
4	DB32-00101C	THERMISTOR-OUT	204CT,200K/25,3435K,-20-150,50MA,5V	1	SA
5	DB32-00102C	THERMISTOR-OUT	204CT,200K/25,3435K,-20-150,50MA,5V	1	SA
6	DB90-02321A	ASSY-BRACKET MOTOR	ASS'Y,UH105GZM1C,SSEC	1	SA
7	DB31-00322H	MOTOR FAN	YDK150S43023-03C	1	SA
8	DB67-00438B	FAN-PROPELLER	UH105GZM1C,AS+GF10%,	1	SA
9	DB90-01593A	ASSY CABINET BACK-LF	UH105GZMC,SSEC	1	SA
10	DB90-01591A	ASSY CABINET FRONT-LF	UH105GZMC,SSEC	1	SA
11	DB90-01528A	ASSY-CABI FRONT RH	ASS'Y,UH105GZMC	1	SNA
12	DB90-01526A	ASSY-PARTITION	ASS'Y,UH105GZMC	1	SA
13	DB97-02613A	ASSY BRACKET-VAVLE	ASSY,SGCC-M,T1.6,SSEC	1	SA
14	DB61-01910A	BRACKET-WIRE	UH140GZMC,SSEC	1	SA
15	DB93-05197A	ASSY CONTROL OUT	HP,-,36K BTU,-,AC 380V	1	SA
16	DB64-01231A	HANDLE	SC-90073R ,SSEC	3	SA
17	DB96-07727A	ASSY VALVE EXPANSION	UH105GAMC,SSEC	1	SA
18	DB96-07728A	ASSY VALVE 4WAY	UH105GAMC,SSEC	1	SA
19	DB95-01242A	ASSY COMP	Scroll compressor,380-415V,50HZ,3phase,R410A	1	SA
20	DB99-00539C	ASSY-CABI BASE PART	UH105GZMC,SSEC	1	SA
21	DB90-01638A	ASSY CABINET BACK-RH	UH105GZMC,SSEC	1	SA
22	DB95-00564D	ASSY HEATER-COMP	DC30ET,BAC,220V/40W	1	SA
23	DB93-02919Z	ASSY-OUTDOOR MAIN PCB	UH105GAMC, OUTDOOR MAIN	1	SA
24	DB70-00163A	PLATE-COND	MH18VA1,SGCC-M, ,T0.8	2	SA

■ UH140GAMC



No.	CODE NO.	Description	Specification	Q'TY	SA/SNA
1	DB90-01533A	ASS'Y-CABI TOP COVER	UH140GZMC	1	SA
2	DB90-01588A	ASS'Y-CABI BACK-LF	UH140GZMC,SSEC	1	SA
3	DB90-01535B	ASS'Y-CABI FRONTLF	MH140FXGZ,SSEC	1	SA
4	DB90-01534B	ASS'Y-CABI FRONT	RHMH140FXGZ,SSEC	1	SA
5	DB99-00538D	ASS'Y-CABI BASE PART	UH140GAMC,ASSY	1	SA
6	DB67-00438B	FAN-PROPELLER	UH105GZM1C,AS+GF10%,460,3, BLACK,SSEC	1	SA
7	DB31-00240H	MOTOR CIRCUIT	YSK140-120- 4A,VIPS,1.1A,50Hz,240W,50Hz,220V,SSEC	1	SA
8	DB31-00240J	MOTOR CIRCUIT	YSK140-120- 4B,VIPS,1.1A,50Hz,240W,50Hz,220V,SSEC	1	SA
9	DB90-01532A	ASS'Y-PARTITION	UH140GZMC,SSEC	1	SNA
10	DB61-00533A	HOLDER CLAMP COND	AS-T1050,SGCC-M	2	SNA
11	DB64-01231A	HANDLE	ABS,-,-,SC-90073R	3	SA
12	DB96-06274A	ASS'Y COND OUT	UH140GAMC,SSEC	1	SA
13	DB99-00794A	ASS'Y VALVE 4WAY	UH140GAMC,SSEC	1	SA
14	DB95-00859A	ASS'Y COND	UH140GAMC380-415V,50Hz,R410,SSEC	1	SNA
15	DB99-00795A	ASS'Y VALVE-EXPANSION	UH140GAMC,SSEC	1	SNA
16	DB62-04288A	INSU SOUND COMP	UH140GAMC,PVC+FELT,T11.5 ,SSEC	1	SNA
17	DB95-00564E	ASS'Y HEATER-COMP	UH140GZMC,CHINA	1	SA
18	DB32-00102B	THERMISTOR-OUT	204CT,200K/25,3435K,-20-150,50mA,5V	1	SA
19	DB32-00101B	THERMISTOR-OUT	204CT,200K/25,3435K,-20-150,50mA,5V	1	SA
20	DB93-04138A	ASS'Y CONTROL OUT	UH140GAMC,SSEC	1	SA
20-1	DB61-01860A	CASE CONTROL	UH140GZMC,SGCC-M,T1.0	1	SNA
20-2	DB65-00074C	TERMINAL BLOCK	H175GZM,ASS'Y,-,-,-,HSPTYPE,8P	1	SNA
20-3	DB65-40062L	TERMINAL BLOCK	BOARD,-,RING TERMINAL,250V 25A,39x29x39,-,2P	1	SNA
20-4	DB26-10070F	TRANS	DC17,AC230,-,-,DC17,DC0.6A	1	SNA
20-5	2301-001367	C-FILM,LEAD-OTHER	6000nF,+10-5%,450V,BK,58x25x40mm	2	SNA
20-6	DB35-00049A	RELAY	XMCO-253LBBC,25A	1	SNA
21	DB61-01855A	BRACKET-MOTOR	UH140GZMC,SGCC-M,T1.6	1	SA
22	DB90-01589A	ASS'Y CABINET BACK-RH	UH140GZMC,SSEC	1	SA
23	DB93-02919P	ASS'Y PCB	UH140GAMC	1	SA
24	DB97-02613A	ASS'YBRACKET-VALVE	ASS'Y,SGCC-M,T1.6,SSEC	1	SA
25	DB61-01857A	BRACKET WIRE	UH140GZMC,SECC-P,T0.8	1	SNA

5-3 Ass'y Control In

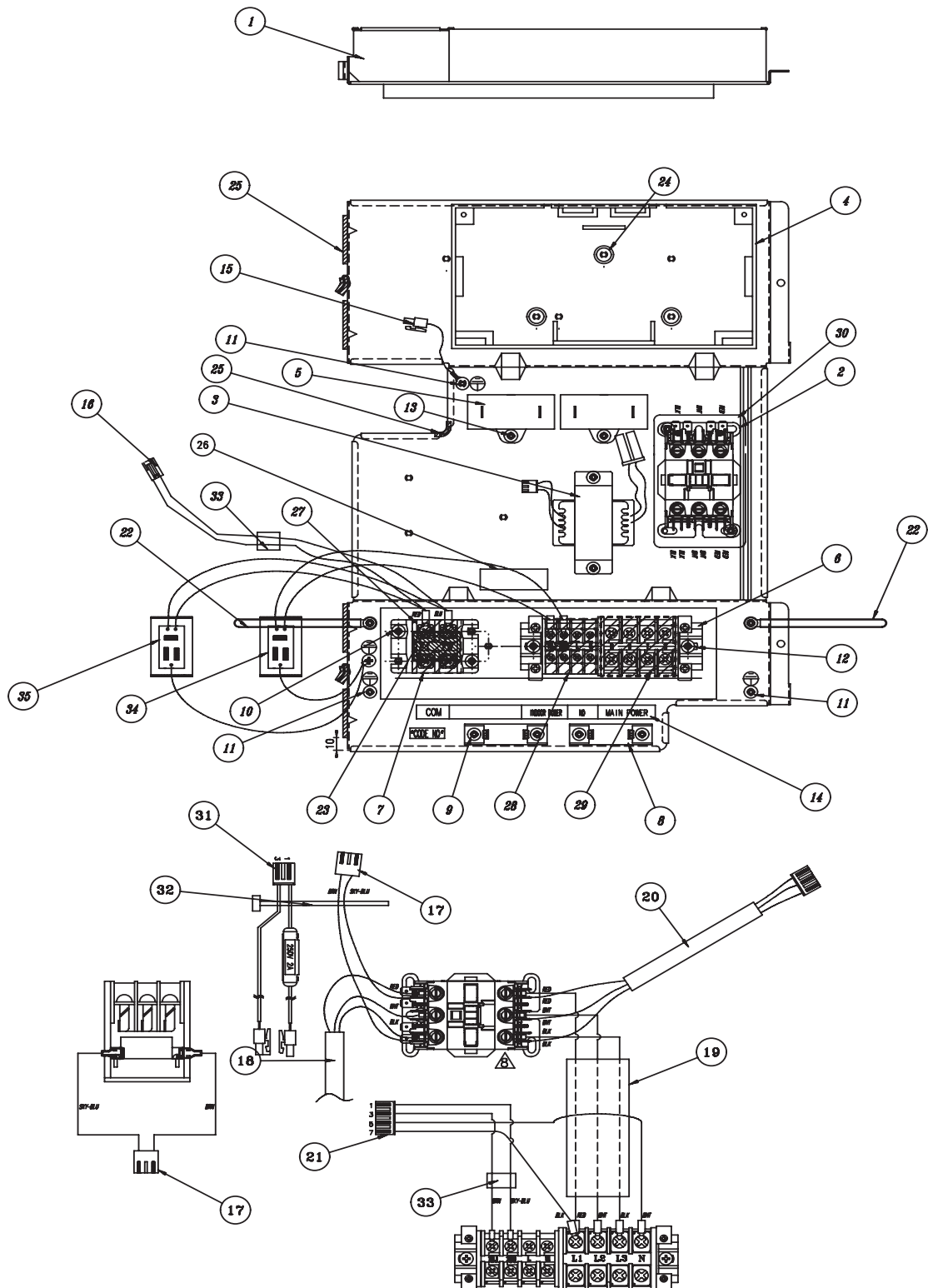


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	2301-001381	C-FILM,LEAD-OTHER	8uF,450VAC	1	SA
2	3502-001027	SSR[DH105/140GZM]	DC12V	1	SNA
	3502-001035	SSR[DH175GZM]	DC12V	1	SNA
3	6002-000231	SCREW-TAPPING	TH,+, -,2S,M4,L12	6	SNA
4	6002-000234	SCREW-TAPPING	TH,+,2S,M4,L16	4	SNA
5	6002-000395	SCREW-TAPPING	PH,+, -,2,M4,L12	2	SNA
6	6009-001001	SCREW-SPECIAL	TH,+, -,M4,L8	2	SNA
7	DB26-10070G	TRANS	DC17V	1	SNA
8	DB39-01106A	CBF-C/W VENTILATOR	ASS'Y	1	SNA
9	DB39-01106B	CBF-C/W VENTILATOR	ASS'Y	1	SNA
10	DB39-01106C	CBF-C/W VENTILATOR	ASS'Y	1	SNA
11	DB39-01107A	CONNECT WIRE-POWER	ASS'Y	1	SNA
12	DB39-01108A	CBF-C/W VENTILATOR	ASS'Y	1	SNA
13	DB39-01108B	CBF-C/W VENTILATOR	ASS'Y	1	SNA
14	DB61-00250A	HOLDER-WIRE CLAMP	ABS	2	SNA
15	DB61-02287A	CASE PCB	ABS V0	1	SNA
16	DB61-02434A	CONNECTOR-WIRE SSR	ASS'Y	1	SA
17	DB65-00105L	TERMINAL BLOCK	ASS'Y	1	SNA
	DB65-00105M	TERMINAL BLOCK	ASS'Y	1	SNA
18	DB90-01992A	ASS'Y CASE-CONTROL	ASS'Y	1	SNA
19	DB91-00309A	ASS'Y-SCREW TAPPING	PH,M3*20	2	SNA
20	DB93-03213F	ASS'Y MAIN PCB[DH105/140GZM]	ASS'Y	1	SA
	DB93-03213B	ASS'Y MAIN PCB[DH175GZM]	ASS'Y	1	SA
21	DB93-03524A	ASS'Y CONNECTOR WIRE-SSR	ASS'Y	1	SNA

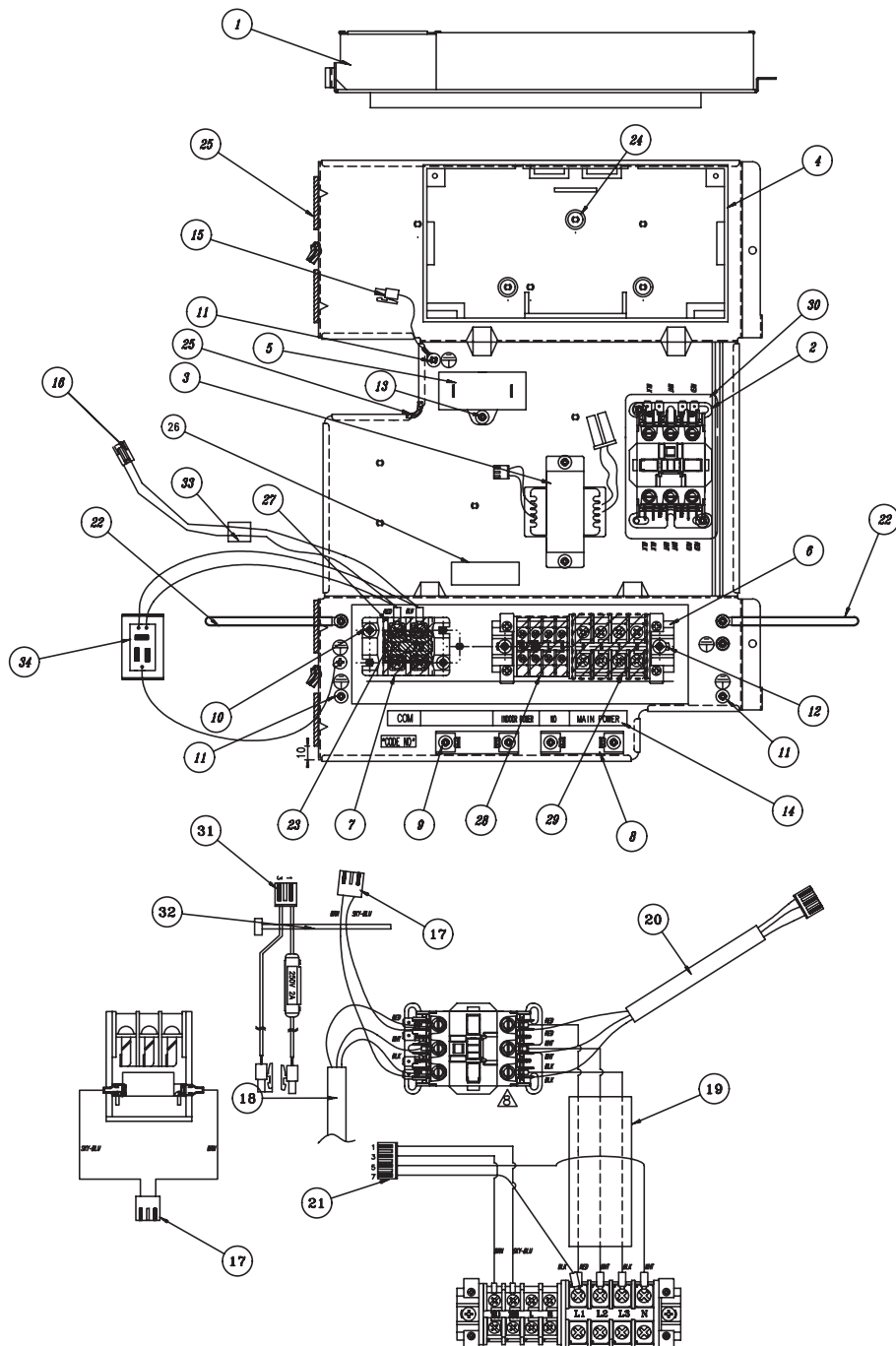
5-4 Ass'y Control Out

■ UH140GAMC



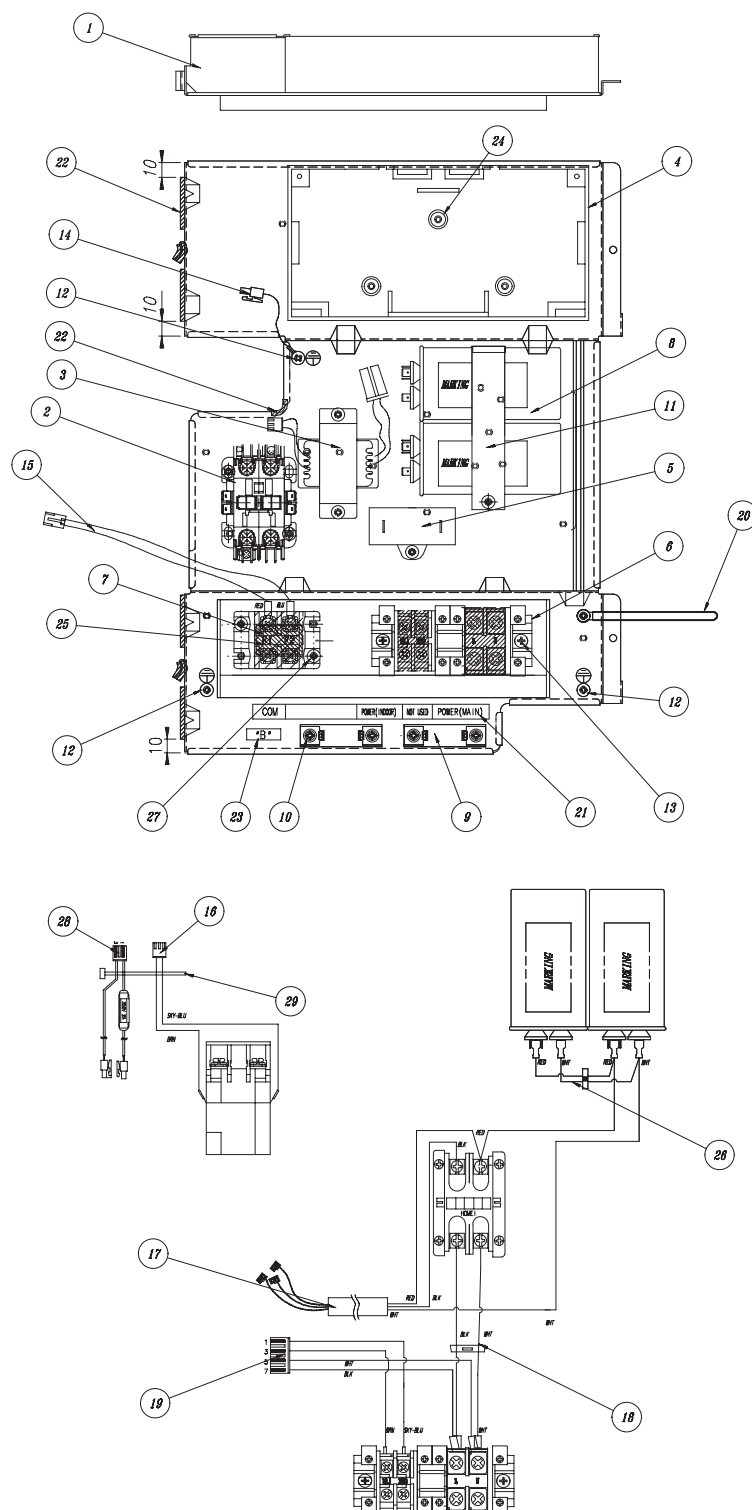
No.	CODE NO.	Description	Specification	QU'TY	SA/SNA
1	DB61-01860A	ASS'Y CASE CONTROL	ASS'Y	1	SA
2	DB35-00049A	MAGNET SWITCH	XMCO-253LBBC,25A	1	SA
3	DB26-10070F	TRANS POWER	AC230,DC17,DC0.6A	1	SA
4	DB61-01582A	CASE PCB	UH070EZM,ABS,2.5,-,-,BLACK,DPM,5V	1	SA
5	2301-001367	C-FILM	6000nF,+10-5%,450V,BK,58x25x40mm	2	SA
6	DB65-00074C	TERMINAL BLOCK 8P	H175GZM,HSP TYPE,8P	1	SA
7	DB65-40062L	TERMINAL BLOCK 2P	BOARD,-,RING TERMINAL,250V 25A,39X29X39,-,2P	1	SA
8	DB61-40291A	HOLDER WIRE	PP,BLK,MULTI	2	SA
9	6001-001123	SCREW TAPPING	PH,+,-,M4,L22,ZPC(YEL),SWRCH18A,FP	4	SNA
10	6002-000234	SCREW TAPPING	TH,+,-,2S,M4,L16,ZPC(YEL),SWRCH18A	2	SNA
11	6009-001001	SCREW-SPECIAL	TH,+,-,M4,L8,ZPC(WHT),SWRCH18A	5	SNA
12	6002-000239	SCREW-SPECIAL	TH,+,-,2S,M4,L8,ZPC(YEL),SWRCH18A	13	SNA
13	6002-000231	SCREW-SPECIAL	TH,+,-,2S,M4,L12,ZPC(YEL),SWRCH18A	2	SNA
14	DB68-02799C	LABEL CAUTION	UH105GZMC/SER	1	SNA
15	DB39-01007A	CONNECTOR WIRE GROUND	UH105GZM,-,UL1015,AWG#18	1	SNA
16	DB39-00987A	CONNECT WIRE COMM	UH140GCM,UL1007 AW22,-,3P	1	SNA
17	DB39-01005A	CONNECT WIRE COMP SIGNAL	UH105(140)GZM	1	SA
18	DB39-01008B	CONNECT WIRE-COMP	UH140GZM,-,UL	1	SA
19	DB39-01006A	CONNECT WIRE-MAIN	UH105GZM,-,UL1015	1	SA
20	DB39-00189B	CONNECT WIRE-PHASE	RFPC050H2M0	1	SA
21	DB39-00986A	CONNECT WIRE-POWER	UH140GCM,UL1015 AW18	1	SA
22	DB61-00206B	HOLDER-WIRE	GALVA-SBHG,BLK,SHRINK TUBE S-PJT SSEC	2	SA
23	DB98-16209A	ASSY-CAUTION	R407C,SCRO ,HP,-,10.5KW	1	SNA
24	DB73-00219A	RUBBER-PCB	UH140GZMC,CR UL97-V0	3	SNA
25	DB62-02840D	INSULATION PARTITION-CONTROL	UH140GZMC,PE-FOAM,3,15,35,BLACK	7	SNA
26	DB68-02809A	LABEL BAR CODE	W170,L115,FOR PACKING CASE	1	SNA
27	-	BLOCK COVER A	40*28*T1	1	SNA
28	-	BLOCK COVER B	40*44*T1	1	SNA
29	-	BLOCK COVER C	46*57*T1	1	SNA
30	DB73-00099B	RUBBER MAGNET-S/W	DVM OUTDOOR,CR	1	SNA
31	DB39-00885A	CONNECT WIRE-CCH	UH035EAM,YH396-03AV,SMH601-01	1	SNA
32	6501-000123	CABLE TIE	DACT-140,-,W3.6,L146,NTR,NYLON66	1	SNA
33	DB31-40005A	CORE	NI-ZN,18,BNF-18	2	SNA
34	DB93-01469S	ASSY PCB-NOISE ABSORBER	EH140EAMC,220nF*2,275V	1	SNA
35	DB93-01469T	ASSY-NOISE ABSORBER	UH140GZMC,2.2nF*2,400V	1	SNA

■ UH105GAMC



No.	CODE NO.	Description	Specification	QU'TY	SA/SNA
1	DB61-01860A	ASS'Y CASE CONTROL	ASS'Y	1	SA
2	DB35-00049A	MAGNET SWITCH	XMCO-253LBBC,25A	1	SA
3	DB26-10070F	TRANS POWER	AC230,DC17,DC0.6A	1	SA
4	DB61-01582A	CASE PCB	UH070EZM,ABS,2.5,-,-,BLACK,DPM,5V	1	SA
5	2301-001379	C-FILM	6000nF,+10-5%,450V,BK,58x25x40mm	1	SA
6	DB65-00074C	TERMINAL BLOCK 8P	H175GZM,HSP TYPE,8P	1	SA
7	DB65-40062L	TERMINAL BLOCK 2P	BOARD,-,RING TERMINAL,250V 25A,39X29X39,-,2P	1	SA
8	DB61-40291A	HOLDER WIRE	PP,BLK,MULTI	2	SA
9	6001-001123	SCREW TAPPING	PH,+,-,M4,L22,ZPC(YEL),SWRCH18A,FP	4	SNA
10	6002-000234	SCREW TAPPING	TH,+,-,2S,M4,L16,ZPC(YEL),SWRCH18A	2	SNA
11	6009-001001	SCREW-SPECIAL	TH,+,-,M4,L8,ZPC(WHT),SWRCH18A	5	SNA
12	6002-000239	SCREW-SPECIAL	TH,+,-,2S,M4,L8,ZPC(YEL),SWRCH18A	13	SNA
13	6002-000231	SCREW-SPECIAL	TH,+,-,2S,M4,L12,ZPC(YEL),SWRCH18A	2	SNA
14	DB68-02799C	LABEL CAUTION	UH105GZMC/SER	1	SNA
15	DB39-01007A	CONNECTOR WIRE GROUND	UH105GZM,-,UL1015,AWG#18	1	SNA
16	DB39-00987A	CONNECT WIRE COMM	UH140GCM,UL1007 AW22,-,3P	1	SNA
17	DB39-01005A	CONNECT WIRE COMP SIGNAL	UH105(140)GZM	1	SA
18	DB39-01008B	CONNECT WIRE-COMP	UH140GZM,-,UL	1	SA
19	DB39-01006A	CONNECT WIRE-MAIN	UH105GZM,-,UL1015	1	SA
20	DB39-00189B	CONNECT WIRE-PHASE	RFPC050H2M0	1	SA
21	DB39-00986A	CONNECT WIRE-POWER	UH140GCM,UL1015 AW18	1	SA
22	DB61-00206B	HOLDER-WIRE	GALVA-SBHG,BLK,SHRINK TUBE S-PJT SSEC	2	SA
23	DB98-16209A	ASSY-CAUTION	R407C,SCRO ,HP,-,10.5KW	1	SNA
24	DB73-00219A	RUBBER-PCB	UH140GZMC,CR UL97-V0	3	SNA
25	DB62-02840D	INSULATION PARTITION-CONTROL	UH140GZMC,PE-FOAM,3,15,35,BLACK	7	SNA
26	DB68-02809A	LABEL BAR CODE	W170,L115,FOR PACKING CASE	1	SNA
27	-	BLOCK COVER A	40*28*T1	1	SNA
28	-	BLOCK COVER B	40*44*T1	1	SNA
29	-	BLOCK COVER C	46*57*T1	1	SNA
30	DB73-00099B	RUBBER MAGNET-S/W	DVM OUTDOOR,CR	1	SNA
31	DB39-00885A	CONNECT WIRE-CCH	UH035EAM,YH396-03AV,SMH601-01	1	SNA
32	6501-000123	CABLE TIE	DACT-140,-,W3.6,L146,NTR,NYLON66	1	SNA
33	DB31-40005A	CORE	NI-ZN,18,BNF-18	2	SNA
34	DB93-01469S	ASSY PCB-NOISE ABSORBER	EH140EAMC,220nF*2,275V	1	SNA

■ UH105EAMC



No.	Description	CODE NO.	Specification	QU'TY	SA/SNA
1	ASS'Y CASE CONTROL	DB61-01860A	ASS'Y	1	SA
2	MAGNET SWITCH	DB35-00061A	XMCO-402LBBC	1	SA
3	TRANS POWER	DB26-10070F	AC230V DC17V	1	SA
4	CASE PCB	DB61-01582A	ABS, V5	1	SA
5	C-FILM	2301-001379	4uF 450VAC	1	SA
6	TERMINAL BLOCK	DB65-00205A	600V, 100A 2P+600V, 60A 2P	1	SA
7	TERMINAL BLOCK	DB65-40062L	250V 25A 2P	1	SA
8	C-OIL (CAPACITOR)	2501-001236	30uF 440/450VAC	2	SA
9	HOLDER WIRE	DB61-40291A	PP	2	SNA
10	SCREW MACHINE	6001-001123	PH, +, M4, L22, ZPC(YEL), MSWR, -	4	SA
11	CLIP TERMINAL CAPACITOR	DB61-02319A	SGCC-M T0.8	1	SNA
12	SCREW-SPECIAL	6009-001001	WP, TH, +, M4+L8, ZPC(YEL)	3	SNA
13	SCREW TAPPING	6002-000231	TH, +, 2S, M4+L12, ZPC(YEL)	13	SNA
14	CONNECTOR WIRE GROUND	DB39-01007A	UL 1015, AWG#18, L250	1	SNA
15	CONNECT WIRE COMM	DB39-00987A	UL 1007, AWG#22, L350	1	SNA
16	CONNECT WIRE COMP SIGNAL	DB39-01005A	UL 1015, AWG#18, L280	1	SA
17	CONNECTOR WIRE COMP	DB93-02918B	UL 1331, AWG#12	1	SA
18	ASSY CONNECTOR WIRE MAIN	DB93-02538B		1	SA
19	ASSY CONNECT WIRE POWER	DB93-05239A	UL 1015, AWG#18, L300	1	SA
20	HOLDER WIRE	DB61-00206B	SGCC-M T0.5	1	SA
21	LABEL CAUTION	DB68-02799C	ART 90	3	SNA
22	INSU CONTROL	DB62-02840D	FOAM-PU	7	SA
23	E-PASS	DB68-02809A	PET 聚酯 45*15	1	SNA
24	RUBBER PCB	DB73-00219A	NBR	3	SNA
25	LABEL CAUTION	DB98-16209A	BNF-18	1	SNA
26	CONNECT WIRE CAPACTOR	DB93-02549A		1	SA
27	SCREW TAPPING	6002-000234	TH, +, 2S, M4+L16, ZPC(YEL)	2	SNA
28	CONNECTOR WIRE CCH	DB39-00885A		1	SNA
29	CABLE TIE	6501-000123	DA-140	1	SNA

6. Electrical Parts List

■ Indoor PCB : DB93-03213F

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
D904~D907,D912~D927	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	20	SNA	
D105	0402-000137	DIODE-RECTIFIER	1N4007,1KV,1A,DO-41,TP	1	SNA	
BD71	0402-001298	DIODE-BRIDGE	DF06S,600V,1A,SMD-4,TP	1	SNA	
CD312,CD334	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4/-7.07V,600W,SMB	2	SNA	
Q201,Q202,Q441, Q601,Q602	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,1	5	SNA	
Q603	0501-002296	TR-SMALL SIGNAL	MMST2907A,PNP,200mW,SMT3,TP,100-3	1	SNA	
Q901,Q902,904~Q910	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	9	SNA	
IC05~IC09	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	5	SNA	
LED11	0601-001373	LED	ROUND,RED,3mm,630nm	1	SNA	
LED12	0601-001375	LED	ROUND,GRN,3mm,570nm	1	SNA	
LED13	0601-001377	LED	ROUND,YEL,3mm,585nm	1	SNA	
IC20	0801-000393	IC-CMOS LOGIC	74HC86,OR GATE,SOP,14,150MIL,QUAD,S	1	SNA	
IC18,IC19	1006-001312	IC-BUS TRANSCEIVER	1487,SO,8P,4.9x3.8 mm,SINGLE,S	2	SNA	
IC51	1103-001175	IC-EEPROM	93LC56,128x16,SOP,8P,5x4mm,2.5/6.0V,-40	1	SNA	
IC01	1203-000243	IC-POSI.FIXED REG.	7812,TO-220,3P,-,PLASTIC,11.5	1	SNA	
IC02	1203-000274	IC-POSI.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	SNA	
IC03	1203-003334	IC-RESET	S-801,SOT-23,5P,2.9x1.6mm,PLASTIC,3.716	1	SNA	
VA71,VA75	1405-000154	VARIATOR	560V,2500A,17.5x7.5mm,TP	2	SNA	
R10,R11,R12	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	3	SNA	
R204,302~307,312,313, 503,512,602,608,609, 803,804,903,911~914	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	21	SNA	
R201,205,206,207,350, 441,443,601,603,607,902	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	11	SNA	
R805	2007-000477	R-CHIP	1Mohm,5%,1/8W,TP,2012	1	SNA	
R413	2007-000613	R-CHIP	24Kohm,1%,1/8W,TP,2012	1	SNA	
R202,R610	2007-000686	R-CHIP	3.3Kohm,5%,1/8W,TP,2012	2	SNA	
R404,405,406,416,502, 509,901	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	7	SNA	
R611,612,613	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	3	SNA	
R604,R605	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	2	SNA	
R511,R513	2007-000938	R-CHIP	47Kohm,1%,1/8W,TP,2012	2	SNA	
R401,R402,R403	2007-001067	R-CHIP	6.8Kohm,1%,1/8W,TP,2012	3	SNA	
R440	2007-001071	R-CHIP	6.8Kohm,5%,1/8W,TP,2012	1	SNA	
C302,303,312,313	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608	4	SNA	
C10,102,104,12,201~203, 304~307,314~316, 401~403,413,504~506, 801,802,806,807,808, 815~819,902	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,TP,2012	32	SNA	
C301,C311	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	2	SNA	

■ Indoor PCB : DB93-03213F(cont.)

Location No.	Code No.	Description	Specification	Q'TY	SA/SNA	Remark
C901	2203-000444	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012,-	1	SNA	
C204,205,441,911,912, 913,914	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,TP,2012	7	SNA	
X701,X702	2301-001220	C-FILM,LEAD-PPF	100nF,10%,275V,BK,18x6x12,15	2	SNA	
C105	2401-000037	C-AL	470uF,20%,16V,GP,TP,8x11.5,5	1	SNA	
C103	2401-000711	C-AL	2200uF,20%,25V,GP,TP,16x25,7.5	1	SNA	
C101	2401-002216	C-AL	2200uF,20%,35V,GP,TP,16x25,7.5	1	SNA	
X301	2802-001179	RESONATOR-CERAMIC	4MHz,0.5%,BK,8X3X5.5mm	1	SNA	
SW02	3406-001098	SWITCH-ROTARY	240V AC,25A,6P(10C),L14mm	1	SNA	
SW05,06,07	3407-000121	SWITCH-DIP	24V,300mA,SLIDE,STANDARD	3	SNA	
RY70,71,74	3501-001154	RELAY-MINIATURE	12V,-,11.7mA,DPDT,4mS,4mS	3	SNA	
RY01	3501-001248	RELAY-POWER	12VDC,200mW,5000mA,1FormA,10mS,10mS	1	SNA	
F701_1	3601-001094	FUSE-CARTRIDGE	250V,3.15A,TIME-LAG,GLASS,5x20mm	1	SNA	
F702	3601-001308	FUSE	250V,1.6A,TIME-LAG,PLASTIC,8.4X7.6mm	1	SNA	
F701	3602-000147	FUSE-CLIP	250V,7.5A,30mohm	2	SNA	
CN13	3711-000024	CONNECTOR-HEADER	BOX,3P,1R,2.5mm,STRAIGHT,SN	1	SNA	
CN33	3711-000176	CONNECTOR-HEADER	1WALL,2P,1R,3.96mm,STRAIGHT,SN	1	SNA	
CN31	3711-000177	CONNECTOR-HEADER	1WALL,2P,1R,3.96mm,STRAIGHT,SN	1	SNA	
CN32	3711-000178	CONNECTOR-HEADER	1WALL,2P,1R,3.96mm,STRAIGHT,SN,W	1	SNA	
CN72	3711-000203	CONNECTOR-HEADER	1WALL,2P,1R,7.92mm,STRAIGHT,SN,W	1	SNA	
CN78	3711-000262	CONNECTOR-HEADER	1WALL,3P,1R,7.92mm,STRAIGHT,SN,W	1	SNA	
CN51	3711-000794	CONNECTOR-HEADER	BOX,2P,1R,2.5mm,STRAIGHT,SN	1	SNA	
CN83	3711-000796	CONNECTOR-HEADER	BOX,2P,1R,2.5mm,STRAIGHT,SN,RED	1	SNA	
CN11	3711-000880	CONNECTOR-HEADER	BOX,3P,1R,2.5mm,STRAIGHT,SN	1	SNA	
CN81	3711-000939	CONNECTOR-HEADER	BOX,4P,1R,2.5mm,STRAIGHT,SN	1	SNA	
CN41	3711-000940	CONNECTOR-HEADER	BOX,4P,1R,2.5mm,STRAIGHT,SN	1	SNA	
CN72	3711-002855	CONNECTOR-HEADER	BOX,2P,1R,7.92mm,STRAIGHT,SN	1	SNA	
CN71	3711-003404	CONNECTOR-HEADER	1WALL,2P,1R,7.92mm,STRAIGHT,SN,B	1	SNA	
CN75	3711-003405	CONNECTOR-HEADER	1WALL,2P,1R,7.92mm,STRAIGHT,SN,B	1	SNA	
CN74	3711-003406	CONNECTOR-HEADER	1WALL,2P,1R,7.92mm,STRAIGHT,SN,Y	1	SNA	
CN77	3711-003407	CONNECTOR-HEADER	1WALL,2P,1R,7.92mm,STRAIGHT,SN,R	1	SNA	
CN91	3711-003845	CONNECTOR-HEADER	BOX,11P,1R,2mm,STRAIGHT,SN	1	SNA	
CN10	3711-004182	CONNECTOR-HEADER	BOX,10P,1R,2mm,STRAIGHT,SN,NTR	1	SNA	
IC04	DB09-00329C	IC MICOM[DH175GZM]	MICOM,MB90820,80P,QFP,FTP-80P-M06	1	SNA	
	DB09-00329D	IC MICOM[DH105/140GZM]	MICOM,MB90820,80P,QFP,FTP-80P-M06	1	SNA	
FT71	DB27-00033A	COIL CHOKE	SSC1905200B,Line Filter,20mH,+50%,-30%	1	SNA	
SW04	DB34-00009A	SWITCH-DIGITAL	PT65 103,ROTARY DIP,-,DC24V MAX,0.	1	SNA	
PCB	DB41-00364A	PBA LOGIC BOARD	miniDVM_slimduct_chi,-,FR-4,T-1.6,-,220-240V,50/60Hz	1	SNA	
HEAT-SINK	DB62-03085A	HEAT SINK	-,A6063,25,15,15,-,SSEC	1	SNA	
SCREW	6002-000630	SCREW-TAPPING	PH,+,-,2S,M3,L8,ZPC(YEL),SWRCH18A,-	1	SNA	

■ Outdoor PCB:DB93-02919P (UH140GAMC)

Location No.	CODE	Specification	LOC.	Q'TY	SA/SNA	Remark
C-CER,CHIP	2203-001562	10nF,+80-20%,50V,Y5V,TP,2012	C202,C301,C901~C904	6	SNA	
C-CER,CHIP	2203-000192	100nF,+80-20%,50V,Y5V,TP,2012,	C102,C104,C201,C302~C308	24	SNA	
			C401~C404,C503~C505		SNA	
			C801~C804,C905~C907		SNA	
R-CHIP	2007-000468	1Kohm,5%,1/8W,TP,2012	R203~R205,R905~R911	10	SNA	
R-CHIP	2007-000300	10Kohm,5%,1/8W,TP,2012	R201,R302,R303,R312~R319, R407	24	SNA	
			R501~R503,R513~R517, R901~R904		SNA	
R-CHIP	2007-000023	120ohm,5%,1/8W,TP,2012	R301	1	SNA	
R-CHIP	2007-000686	3.3Kohm,5%,1/8W,TP,2012	R202	1	SNA	
R-CHIP	2007-000766	330ohm,5%,1/8W,TP,2012	R404~R406,R408,R504~R506	7	SNA	
R-CHIP	2007-000454	18Kohm,1%,1/8W,TP,2012	R402,R403	2	SNA	
R-CHIP	2007-000613	24Kohm,1%,1/8W,TP,2012	R401	1	SNA	
R-CHIP	2007-000033	0ohm,5%,1/4W,DA,TP,3216	J8,J9,J10,J22	4	SNA	
TR-SMALL SIGNAL	0501-000534	2SC2412K,NPN,200mW,SOT- 23,TP,1	Q201	1	SNA	
TR-DIGITAL	0504-000001	DTA114EKA,PNP,200MW,10K/ 10K,SOT-23,TP	Q901~Q904	4	SNA	
TR-DIGITAL	0504-001064	DTC114EKA,NPN,200MW,10K/ 10K,SOT-23,TP	Q101	1	SNA	
DIODE- SWITCHING	0401-000133	LL4148,100V,200MA,SOD-80C,TP	D201,D901~D916	17	SNA	
DIODE- RECTIFIER	0402-000137	1N4007,1000V,1A,DO-41,TP	D105~D108	4	SNA	
R-CARBON	2001-000068	5.1Kohm,5%,1/4W,TP,2.4X6.4MM	RJ02	1	SNA	
R-CARBON	2001-000975	18Kohm,5%,1/4W,TP,2.4*6.4mm	RJ01 ,RJ03,RJ04	3	SNA	
JUMPER	3812-001283	TCWA,300V,52mm(TAPPING),1/ 0.6mm	K5~K7,K9,K11,K13~15	38	SNA	
			J1~J7,J11~J21,J23~J34		SNA	
DIODE-BRIDGE	0402-001298	DF06S,600V/1A,SMD-4	BD71	1	SNA	
C-AL	2401-001397	470uF,20%,25V,GP,TP,10x12.5m m,	C105	1	SNA	
C-AL	2401-000173	1000uF,20%,35V,GP,TP,13x25,5	C101,C103	2	SNA	
SWITCH-PUSH	3404-001220	TSTB-2	K1~K4	4	SNA	
RESONATOR- CERAMIC	2802-001198	10MHZ,0.5%,BK,8X3X5.5MM	X501	1	SNA	
FUSE	3601-001094	250V,5A,FAST- ACTING,GLASS,5x20mm	F701	1	SNA	
FUSE CHIP	3602-000147	HF-004/J	F701	2	SNA	
FUSE	3601-001308	250V,1.6A,TIME-LAG,PLASTIC	F101	1	SNA	
IC-DARLINGTON DRIVER	0506-000180	ULN2003	IC05~IC07	3	SNA	
HEAT SINK	DB62-03085A	A6063,25,15,15	IC01	1	SNA	
SCREW TAPPING	6002-000630	MSCPHTT3*8		1	SNA	
LED DISPLAY- 7SEG	DB07-00054A	CSD-322GLH	DIS1,DIS2	2	SNA	
NOISE FILTER	DB27-00022A	JL2510-0008,8mH,5A	FT71	1	SNA	
C-FILM	2301-001220	100nF,10%,275V,BK,18*6*12,15	XC71,XC72	2	SNA	
RELAY- MINIATURE	3501-001154	PCJ-112D3M,12VDC,3A	RY71	1	SNA	
RELAY- MINIATURE	3501-001163	CS11-12SH	RY72,RY73,RY74,RY75	4	SNA	
VARISTOR	1405-000147	TVR14471,470V,4500A	VA72,VA73	2	SNA	

Outdoor PCB:DB93-02919P (UH140GAMC)

Location No.	CODE	Specification	LOC.	Q'TY	SA/SNA	Remark
VARISTOR	1405-000154	TVR14561,560V,4500A	VA71	1	SNA	
PCB BOARD	DB41-00304A	FR-1 ,W196xH98, NO-40426A5	PCB BOARD	1	SNA	
CONNECTOR- TERMINAL	3712-001062	TJC4-2A,WHT,8mm	GT-2	1	SNA	
LABEL BAR CODE	DB68-02809A	W170,L115		1	SNA	
CONNECTOR- HEADER	3711-000179	YW396-02AV,YEL	CN43	1	SNA	
CONNECTOR- HEADER	3711-000015	SMW250-02,WHT,BOX,2P,1R,2.5mm,STRAIGHT,SN	CN42	1	SNA	
CONNECTOR- HEADER	3711-000880	SMW250-03,RED,BOX,3P,1R,2.5mm,STRAIGHT,SN	CN11	1	SNA	
CONNECTOR- HEADER	3711-000940	SMW250-04,WHT,BOX,4P,1R,2.5mm,STRAIGHT,SN	CN41	1	SNA	
CONNECTOR- HEADER	3711-000177	YW396-02AV,RED	CN31	1	SNA	
CONNECTOR- HEADER	3711-000176	YW396-02AV,BLU,	CN12	1	SNA	
CONNECTOR- HEADER	3711-000203	YW396-03AV,WHT	CN77	1	SNA	
CONNECTOR- HEADER	3711-003405	YW396-03AV,BLK	CN71	1	SNA	
CONNECTOR- HEADER	3711-000260	YW396-05AV,BLU	CN72	1	SNA	
CONNECTOR- HEADER	3711-000262	YW396-05AV,WHT	CN73	1	SNA	
CONNECTOR- HEADER	3711-000263	YW396-05AV,YEL	CN76	1	SNA	
CONNECTOR- HEADER	3711-000315	YW396-07AV,WHT	CN75	1	SNA	
CONNECTOR- HEADER	3711-001001	B5B-XH- A,BLU,BOX,5P,1R,2.5mm,STRAIGHT,SN	CN61	1	SNA	
CONNECTOR- HEADER	3711-000744	YDW236- 01,WHT,BOX,1P,1R,6MM,STRAIGHT,NI	CN70	1	SNA	
PHOTO-COUPLER	0604-001038	PC123X2YSZ0F	IC51~IC53	3	SNA	
IC-BUS TRANSCIEVER	1006-001297	MAX485	IC09	1	SNA	
SWITCH-DIGITAL	DB34-00009A	PT65 103,ROTARY DIP,-,DC24V MAX,0.4VA,50MOHM MAX	SW1	1	SNA	
IC MICOM	DB09-00391A	MB89538AP- 101,64P,+5V,10MHz,STM-0333- BC,-,8BIT,STICK,DIP,750M	IC04	1	SNA	
IC-POSI.FIXED REG.	1203-000243	KA7812A,T0-220,3P,-,PLASTIC,11.5/ 12.5V 16W	IC01	1	SNA	
IC-POSI.FIXED REG.	1203-000274	KA7805A,3P,-,PLASTIC,4.8/5	IC02	1	SNA	
IC-VOLTAGE COMP.	1202-000001	KA7533,TO-92,3P,-,SINGLE,-,PLA	IC03	1	SNA	
POSISTOR	DB47-00016A	DSA-332MA,2pF MAX,100MOhm,ASM-3500	DS71	1	SNA	
DIODE-TVS	0406-001109	SAC5.0,7.6/-/-V,500W,DO-15	CD31,CD32	2	SNA	
R-METAL OXIDE	2003-002114	200Kohm,5%,2W,AA,TP,4x12mm	R507~R512	6	SNA	

Outdoor PCB:DB93-02919Q (UH105GAMC)

Location No.	CODE	Specification	LOC.	Q'TY	SA/SNA	Remark
C-CER,CHIP	2203-001562	10nF,+80-20%,50V,Y5V,TP,2012	C202,C301,C901~C904	6	SNA	
C-CER,CHIP	2203-000192	100nF,+80-20%,50V,Y5V,TP,2012,	C102,C104,C201,C302~C308	24	SNA	
			C401~C404,C503~C505		SNA	
			C801~C804,C905~C907		SNA	
R-CHIP	2007-000468	1Kohm,5%,1/8W,TP,2012	R203~R205,R905~R911	10	SNA	
R-CHIP	2007-000300	10Kohm,5%,1/8W,TP,2012	R201,R302,R303,R312~R319,R407	24	SNA	
			R501~R503,R513~R517,R901~R904		SNA	
R-CHIP	2007-000023	120ohm,5%,1/8W,TP,2012	R301	1	SNA	
R-CHIP	2007-000686	3.3Kohm,5%,1/8W,TP,2012	R202	1	SNA	
R-CHIP	2007-000766	330ohm,5%,1/8W,TP,2012	R404~R406,R408,R504~R506	7	SNA	
R-CHIP	2007-000454	18Kohm,1%,1/8W,TP,2012	R402,R403	2	SNA	
R-CHIP	2007-000613	24Kohm,1%,1/8W,TP,2012	R401	1	SNA	
R-CHIP	2007-000033	0ohm,5%,1/4W,DA,TP,3216	J8,J9,J10,J22	4	SNA	
TR-SMALL SIGNAL	0501-000534	2SC2412K,NPN,200mW,SOT-23,TP,1	Q201	1	SNA	
TR-DIGITAL	0504-000001	DTA114EKA,PNP,200MW,10K/10K,SOT-23,TP	Q901~Q904	4	SNA	
TR-DIGITAL	0504-001064	DTC114EKA,NPN,200MW,10K/10K,SOT-23,TP	Q101	1	SNA	
DIODE-SWITCHING	0401-000133	LL4148,100V,200MA,SOD-80C,TP	D201,D901~D916	17	SNA	
DIODE-RECTIFIER	0402-000137	1N4007,1000V,1A,DO-41,TP	D105	1	SNA	
R-CARBON	2001-000068	12Kohm,5%,1/4W,TP,2.4X6.4MM	RJ04	1	SNA	
R-CARBON	2001-000975	8.2Kohm,5%,1/4W,TP,2.4*6.4mm	RJ02	1	SNA	
JUMPER	3812-001283	TCWA,300V,52mm(TAPPING),1/0.6mm	K5~K7,K19~10,K12,K15 J1~J7,J11~J21,J23~J34,RJ01,RJ03	43	SNA	
DIODE-BRIDGE	0402-001298	DF06S,600V/1A,SMD-4	BD71	1	SNA	
C-AL	2401-001397	470uF,20%,25V,GP,TP,10x12.5mm,	C105	1	SNA	
C-AL	2401-000173	1000uF,20%,35V,GP,TP,13x25,5	C101,C103	2	SNA	
SWITCH-PUSH	3404-001220	TSTB-2	K1~K4	4	SNA	
RESONATOR-CERAMIC	2802-001198	10MHZ,0.5%,BK,8X3X5.5MM	X501	1	SNA	
FUSE	3601-000297	250V,5A,TIME-LAG,GLASS,5x20mm	F701	1	SNA	
FUSE	3601-001308	250V,1.6A,TIME-LAG,PLASTIC	F101	1	SNA	
IC-DARLINGTON DRIVER	0506-000180	ULN2003	IC05~IC07	3	SNA	
HEAT SINK	DB62-03085A	A6063,25,15,15	IC01	1	SNA	
SCREW TAPPING		MSPHPTT3*8		1	SNA	
LED DISPLAY-7SEG	DB07-00054A	CSD-322GLH	DIS1,DIS2	2	SNA	
NOISE FILTER	DB27-00022A	JL2510-0008,8mH,5A	FT71	1	SNA	
C-FILM	2301-001220	100nF,10%,275V,BK,18*6*12,15	XC71,XC72	2	SNA	
RELAY-MINIATURE	3501-001154	PCJ-112D3M,12VDC,3A	RY71,RY76,RY77	3	SNA	

Outdoor PCB:DB93-02919Q Cont.(UH105GAMC)

RELAY-MINIATURE	3501-001163	CS11-12SH	RY74,RY75	2	SNA	
VARISTOR	1405-000147	TVR14471,470V,4500A	VA72,VA73	2	SNA	
VARISTOR	1405-000154	TVR14561,560V,4500A	VA71	1	SNA	
PCB BOARD	DB41-00304A	FR-1 ,W196xH98, NO-40426A6	PCB BOARD	1	SNA	
CONNECTOR- TERMINAL	3712-001062	TJC4-2A,WHT,8mm	GT-2	1	SNA	
LABEL BAR CODE	DB68-02809A	W170L115		1	SNA	
SWITCH-DIGITAL	DB34-00009A	PT65 103,ROTARY DIP,-,DC24V MAX,0.4VA,50MOHM MAX	SW1	1	SNA	
CONNECTOR- HEADER	3711-000015	SMW250- 02,WHT,BOX,2P,1R,2.5mm,STRAIGHT,SN	CN42	1	SNA	
CONNECTOR- HEADER	3711-000880	SMW250- 03,RED,BOX,3P,1R,2.5mm,STRAIGHT,SN	CN11	1	SNA	
CONNECTOR- HEADER	3711-000940	SMW250- 04,WHT,BOX,4P,1R,2.5mm,STRAIGHT,SN	CN41	1	SNA	
CONNECTOR- HEADER	3711-000179	YW396-02AV,YEL	CN43	1	SNA	
CONNECTOR- HEADER	3711-000177	YW396-02AV,RED	CN31	1	SNA	
CONNECTOR- HEADER	3711-000176	YW396-02AV,BLU,	CN12	1	SNA	
CONNECTOR- HEADER	3711-000203	YW396-03AV,WHT	CN77	1	SNA	
CONNECTOR- HEADER	3711-003406	YW396-03AV,YEL	CN74	1	SNA	
CONNECTOR- HEADER	3711-003405	YW396-03AV,BLK	CN71	1	SNA	
CONNECTOR- HEADER	3711-000262	YW396-05AV,WHT	CN73	1	SNA	
CONNECTOR- HEADER	3711-000263	YW396-05AV,YEL	CN76	1	SNA	
CONNECTOR- HEADER	3711-000315	YW396-07AV,WHT	CN75	1	SNA	
CONNECTOR- HEADER	3711-001001	B5B-XH- A,BLU,BOX,5P,1R,2.5mm,STRAIGHT,SN	CN61	1	SNA	
CONNECTOR- HEADER	3711-000744	YDW236- 01,WHT,BOX,1P,1R,6MM,STRAIGHT,NI	CN70	1	SNA	
PHOTO-COUPLER	0604-001038	PC123X2YSZ0F	IC51~IC53	3	SNA	
IC-BUS TRANSCIVER	1006-001297	LMS485	IC09	1	SNA	
IC MICOM	DB09-00260C	MB89538AP-101,64P,+5V,10MHz,STM-0333- BC,-,8BIT,STICK,DIP,750M	IC04	1	SNA	
IC-POSI.FIXED REG.	1203-000243	KA7812A,T0-220P,-,PLASTIC,11.5/12.5V 16W,0to+125mA-ST	IC01	1	SNA	
IC-POSI.FIXED REG.	1203-000274	KA7805A,3P,-,PLASTIC,4.8/5	IC02	1	SNA	
IC-VOLTAGE COMP.	1202-000001	KA7533,TO-92,3P,-,SINGLE,-,PLA	IC03	1	SNA	
POSISTOR	DB47-00016A	DSA-332MA,2pF MAX,100MOhm,ASM-3500	DS71	1	SNA	
DIODE-TVS	0406-001109	SAC5.0,7.6/-V,500W,DO-15	CD31,CD32	2	SNA	
FUSE HOLDER	DB61-00924A	FH-51B	F701	1	SNA	
R-METAL OXIDE	2003-002114	200Kohm,5%,2W,AA,TP,4x12mm	R507~R512	6	SNA	

Outdoor PCB : DB93-02919Z(UH105EAMC)

Location No.	Code No.	Specification	Qu'ty	SA/SNA	Remark
D201,D901~916	0401-000133	DIODE-SWITCHING	1	SNA	
D105	0402-000137	DIODE-RECTIFIER	1	SNA	
BD71	0402-001298	DIODE-BRIDGE	1	SNA	
CD31	0406-001109	DIODE-TVS	1	SNA	
CD32	0406-001109	DIODE-TVS	1	SNA	
Q201	0501-000534	TR-SMALL SIGNAL	1	SNA	
Q901	0504-000001	TR-DIGITAL	1	SNA	
Q902	0504-000001	TR-DIGITAL	1	SNA	
Q903	0504-000001	TR-DIGITAL	1	SNA	
Q904	0504-000001	TR-DIGITAL	1	SNA	
Q101	0504-001064	TR-DIGITAL	1	SNA	
IC05~C07	0506-000180	TR-DARLINGTON	1	SNA	
IC09	1006-001297	IC-BUS TRANSCEIVER	1	SNA	
IC03	1202-000001	IC-VOLTAGE COMP.	1	SNA	
IC01	1203-000243	IC-POSIFIXED REG.	1	SNA	
IC02	1203-000274	IC-POSIFIXED REG.	1	SNA	
VA72	1405-000147	VARISTOR	1	SNA	
VA73	1405-000147	VARISTOR	1	SNA	
VA71	1405-000154	VARISTOR	1	SNA	
RJ04	2001-000073	R-CARBON	1	SNA	
RJ01	2001-000588	R-CARBON	1	SNA	
RJ02	2001-000588	R-CARBON	1	SNA	
RJ02	2001-000975	R-CARBON	1	SNA	
R301	2007-000023	R-CHIP	1	SNA	
J10	2007-000033	R-CHIP	1	SNA	
J22	2007-000033	R-CHIP	1	SNA	
J8	2007-000033	R-CHIP	1	SNA	
J9	2007-000033	R-CHIP	1	SNA	
R201	2007-000300	R-CHIP	1	SNA	
R302	2007-000300	R-CHIP	1	SNA	
R303	2007-000300	R-CHIP	1	SNA	
R312	2007-000300	R-CHIP	1	SNA	
R313	2007-000300	R-CHIP	1	SNA	
R314	2007-000300	R-CHIP	1	SNA	
R315	2007-000300	R-CHIP	1	SNA	
R316	2007-000300	R-CHIP	1	SNA	
R317	2007-000300	R-CHIP	1	SNA	
R318	2007-000300	R-CHIP	1	SNA	
R319	2007-000300	R-CHIP	1	SNA	
R407	2007-000300	R-CHIP	1	SNA	
R501	2007-000300	R-CHIP	1	SNA	
R502	2007-000300	R-CHIP	1	SNA	
R503	2007-000300	R-CHIP	1	SNA	
R513	2007-000300	R-CHIP	1	SNA	
R514~517	2007-000300	R-CHIP	1	SNA	
R901~904	2007-000300	R-CHIP	1	SNA	
R402	2007-000454	R-CHIP	1	SNA	
R403	2007-000454	R-CHIP	1	SNA	
R203	2007-000468	R-CHIP	1	SNA	
R204	2007-000468	R-CHIP	1	SNA	
R205	2007-000468	R-CHIP	1	SNA	
R905~911	2007-000468	R-CHIP	1	SNA	
R401	2007-000613	R-CHIP	1	SNA	
R202	2007-000686	R-CHIP	1	SNA	
R404	2007-000766	R-CHIP	1	SNA	
R405	2007-000766	R-CHIP	1	SNA	
R406	2007-000766	R-CHIP	1	SNA	
R408	2007-000766	R-CHIP	1	SNA	
R504	2007-000766	R-CHIP	1	SNA	

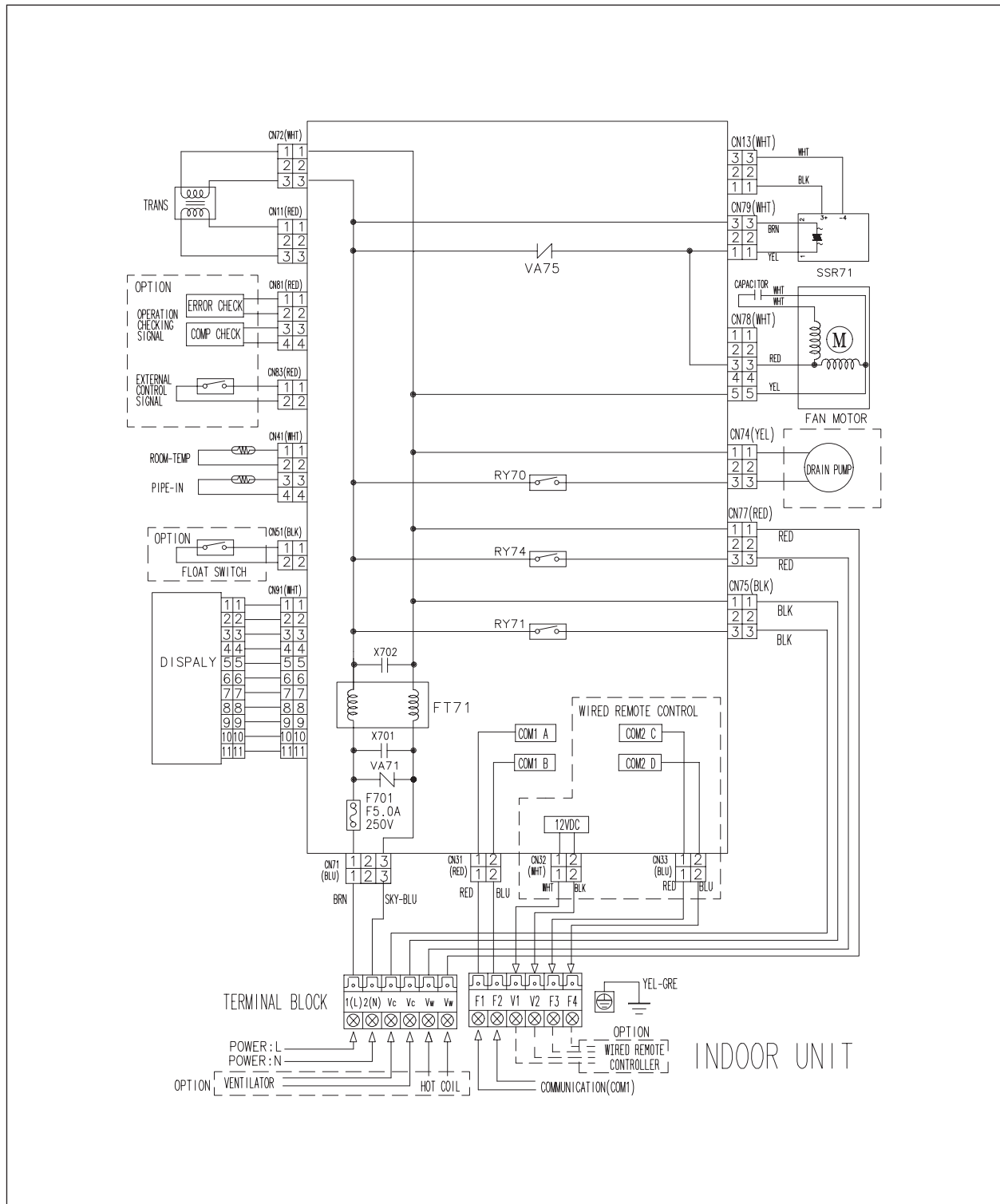
■ Outdoor PCB : DB93-02919Z Cont.(UH105EAMC)

Location No.	Code No.	Specification	Qu'ty	SA/SNA	Remark
R505	2007-000766	R-CHIP	1	SNA	
R506	2007-000766	R-CHIP	1	SNA	
C102	2203-000192	C-CER,CHIP	1	SNA	
C104	2203-000192	C-CER,CHIP	1	SNA	
C201	2203-000192	C-CER,CHIP	1	SNA	
C302~308	2203-000192	C-CER,CHIP	1	SNA	
C401~404	2203-000192	C-CER,CHIP	1	SNA	
C503~505	2203-000192	C-CER,CHIP	1	SNA	
C801~804	2203-000192	C-CER,CHIP	1	SNA	
C905~907	2203-000192	C-CER,CHIP	1	SNA	
C202	2203-001562	C-CER,CHIP	1	SNA	
C301	2203-001562	C-CER,CHIP	1	SNA	
C901~904	2203-001562	C-CER,CHIP	1	SNA	
XC71	2301-001220	C-FILM,LEAD-PPF	1	SNA	
XC72	2301-001220	C-FILM,LEAD-PPF	1	SNA	
C101	2401-000173	C-AL	1	SNA	
C103	2401-000173	C-AL	1	SNA	
C105	2401-001397	C-AL	1	SNA	
X501	2802-001198	RESONATOR-CERAMIC	1	SNA	
K1	3404-001220	SWITCH-TACT	1	SNA	
K11	3404-001220	SWITCH-TACT	1	SNA	
K12	3404-001220	SWITCH-TACT	1	SNA	
K14	3404-001220	SWITCH-TACT	1	SNA	
K2	3404-001220	SWITCH-TACT	1	SNA	
K3	3404-001220	SWITCH-TACT	1	SNA	
K4	3404-001220	SWITCH-TACT	1	SNA	
K5	3404-001220	SWITCH-TACT	1	SNA	
K6	3404-001220	SWITCH-TACT	1	SNA	
K7	3404-001220	SWITCH-TACT	1	SNA	
RY71,76,77	3501-001154	RELAY-MINIATURE	1	SA	
RY74,75	3501-001163	RELAY-MINIATURE	1	SA	
F701	3601-000297	FUSE-CARTRIDGE	1	SNA	
F101	3601-001308	FUSE	1	SNA	
CN42	3711-000015	HEADER-BOARD TO CABLE	1	SNA	
CN12	3711-000176	HEADER-BOARD TO CABLE	1	SNA	
CN31	3711-000177	HEADER-BOARD TO CABLE	1	SNA	
CN43	3711-000179	HEADER-BOARD TO CABLE	1	SNA	
CN73	3711-000262	HEADER-BOARD TO CABLE	1	SNA	
CN75	3711-000315	HEADER-BOARD TO CABLE	1	SNA	
CN70	3711-000744	HEADER-BOARD TO CABLE	1	SNA	
CN11	3711-000880	HEADER-BOARD TO CABLE	1	SNA	
CN41	3711-000940	HEADER-BOARD TO CABLE	1	SNA	
CN12	3711-001001	CONNECTOR-HEADER	1	SNA	
CN71	3711-003405	HEADER-BOARD TO CABLE	1	SNA	
CN74	3711-003406	HEADER-BOARD TO CABLE	1	SNA	
GT-2	3712-001062	CONNECTOR-TERMINAL	1	SNA	
JUMPER	3812-001283	WIRE-NO SHEATH CU	37	SNA	
DIS1	DB07-00054A	LED DISPLAY	1	SNA	
DIS2	DB07-00054A	LED DISPLAY	1	SNA	
IC04	DB09-00260C	IC MICOM	1	SNA	
	DB09-00100A	IC MICOM	1	SNA	
FT71	DB27-00022A	COIL CHOKE-LINE FILTER	1	SNA	
SW1	DB34-00009A	SWITCH-DIGITAL	1	SNA	
BARE BOARD	DB41-00304A	PBA LOGIC BOARD	1	SNA	
DS71	DB47-00016A	POSISTOR	1	SNA	
F701	DB61-00924A	HOLDER-FUSE	1	SNA	
HEAT SINK	DB62-03085A	HEAT SINK	1	SNA	
LABEL	DB68-02809A	LABEL BAR CODE	1	SNA	

MEMO

7. Wiring Diagram

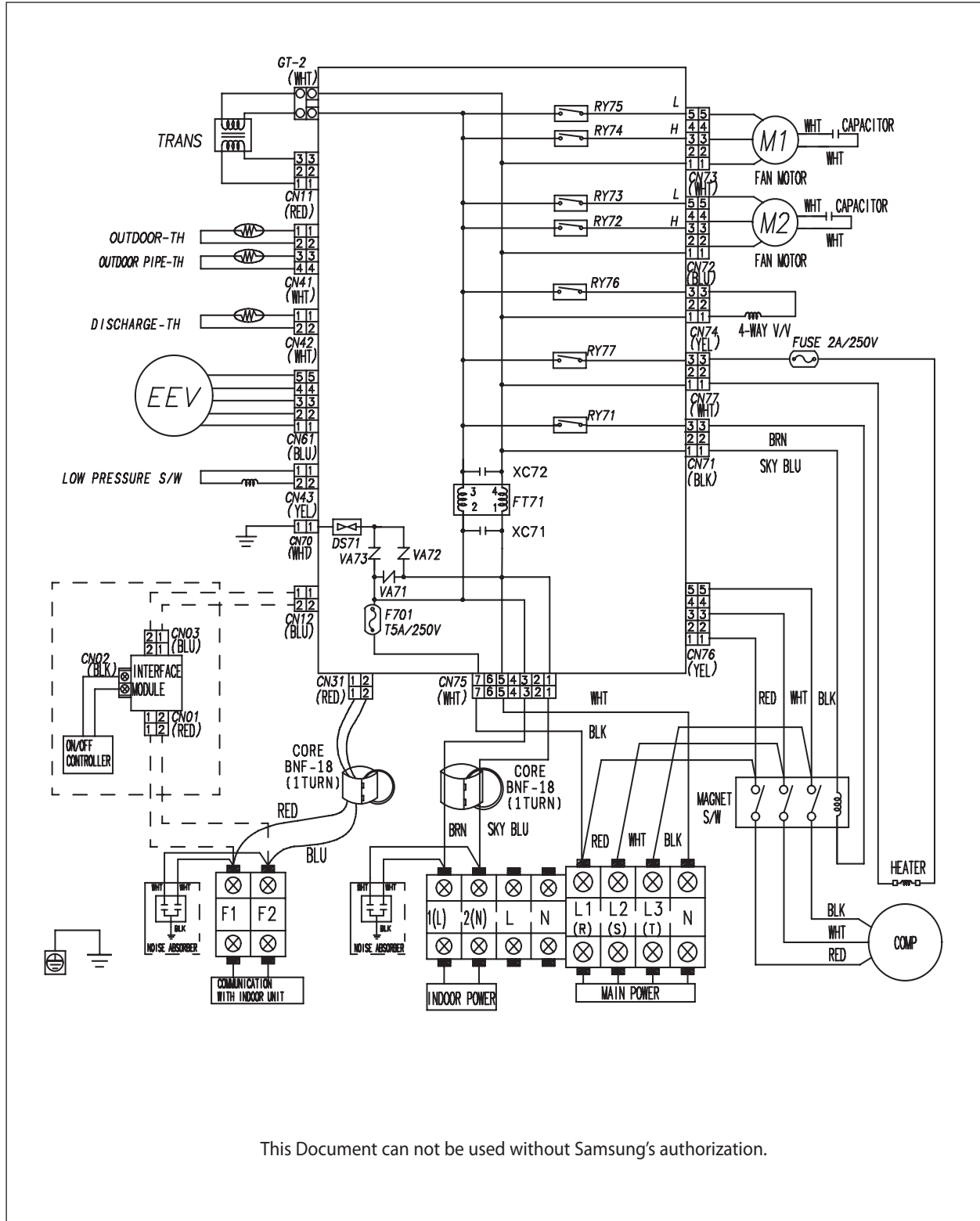
7-1 Indoor Unit



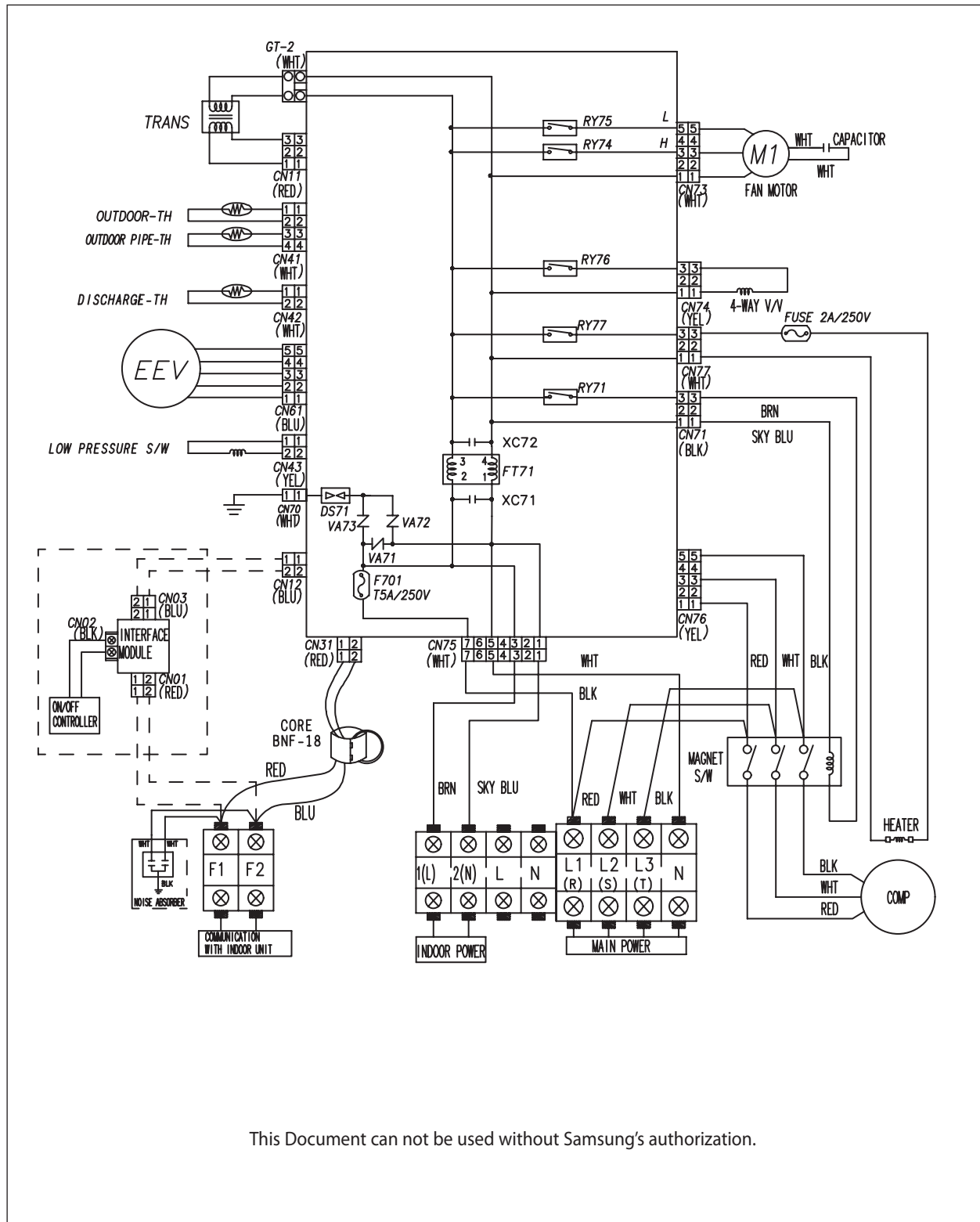
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7-2 Outdoor Unit

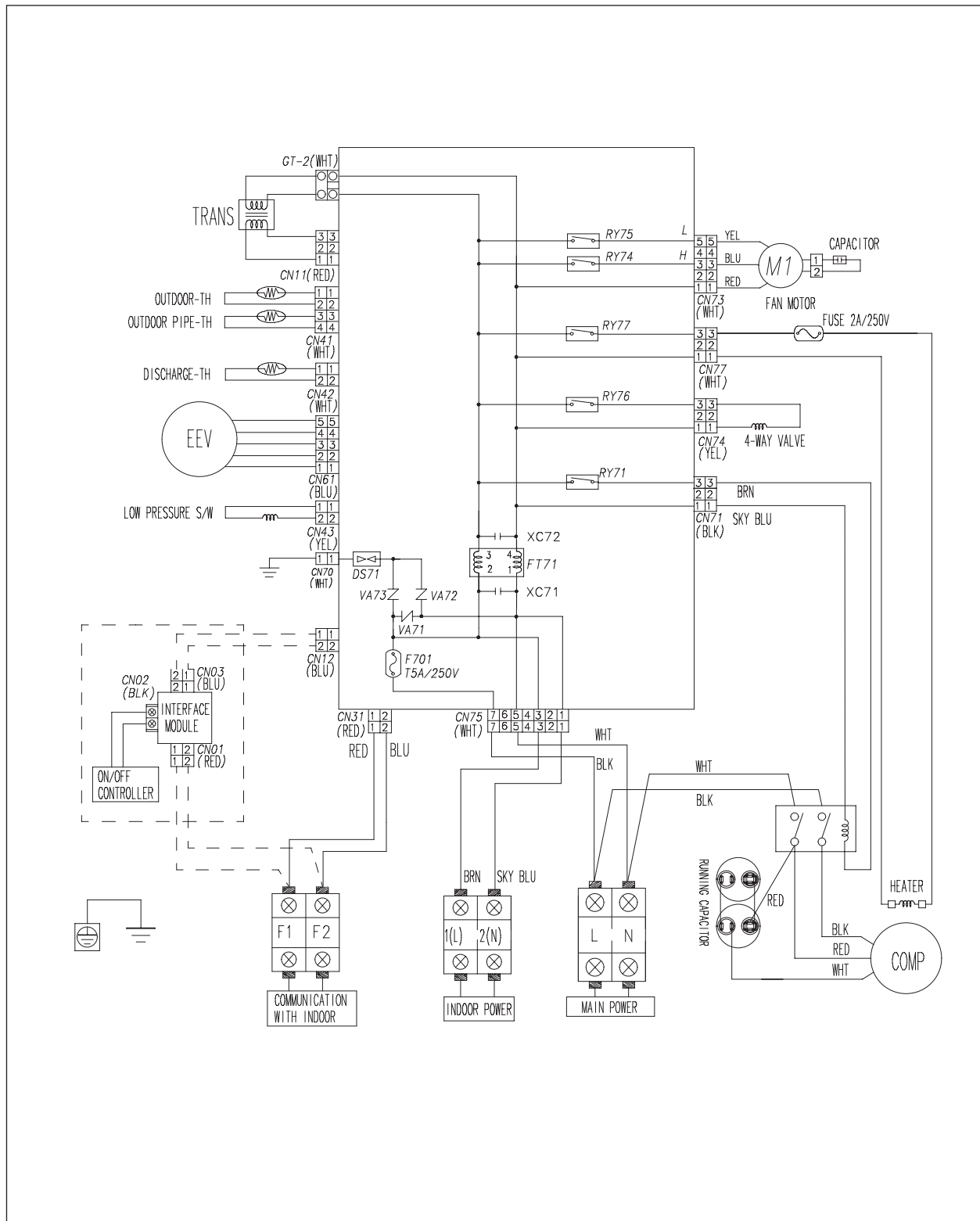
■ UH140GAMC



■ UH105GAMC



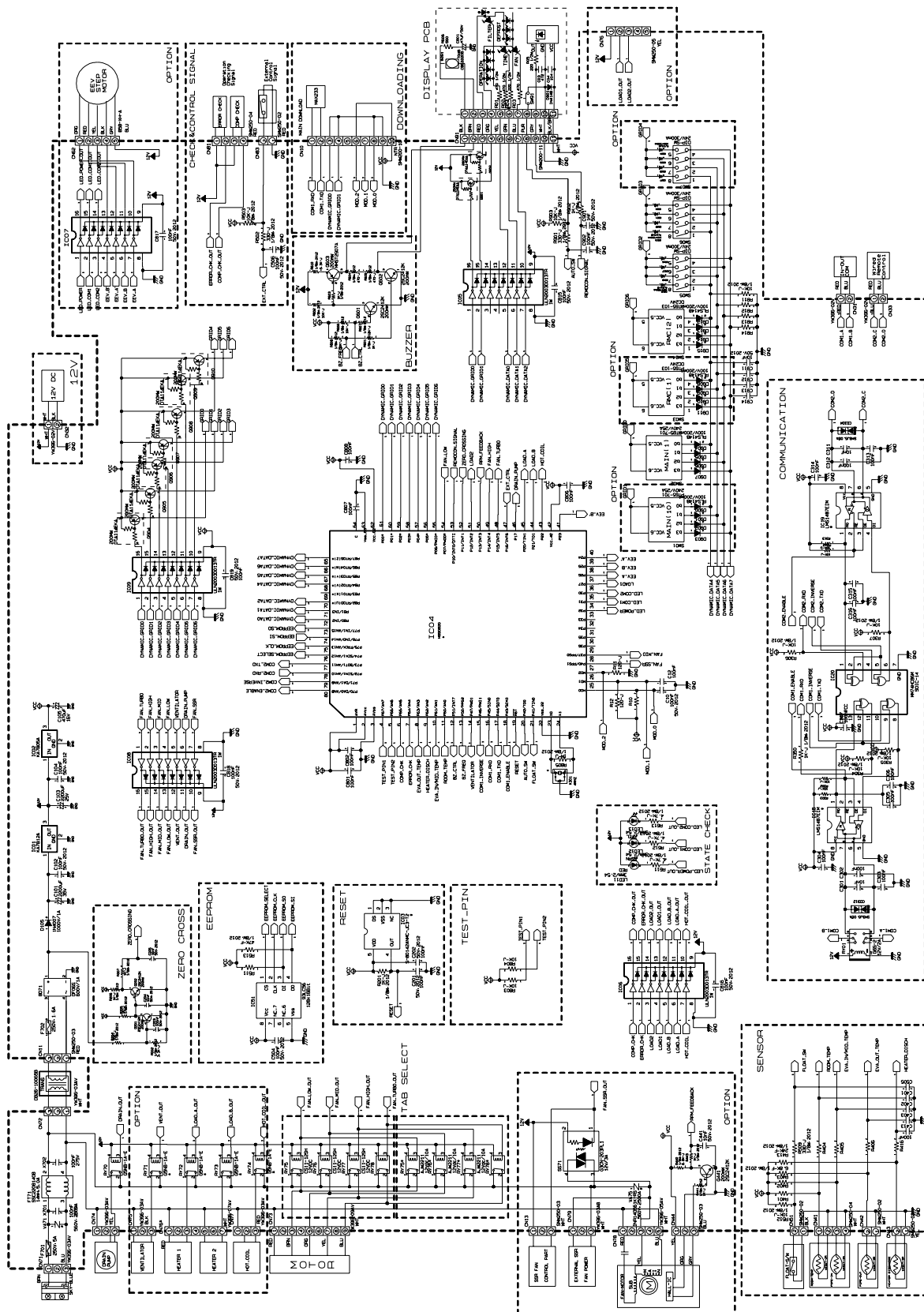
■ UH105EAMC



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8. Schematic Diagram

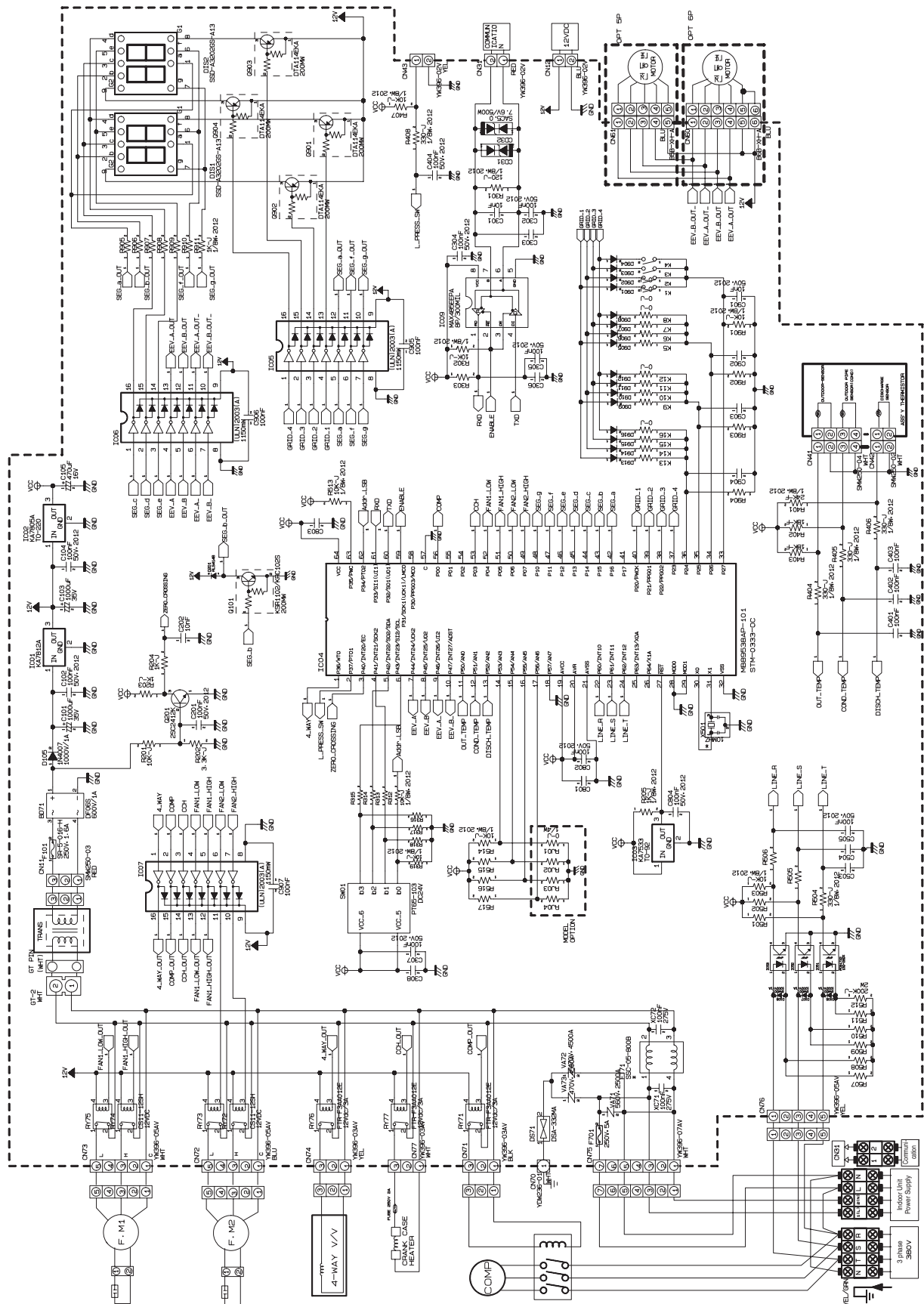
8-1 Indoor Unit



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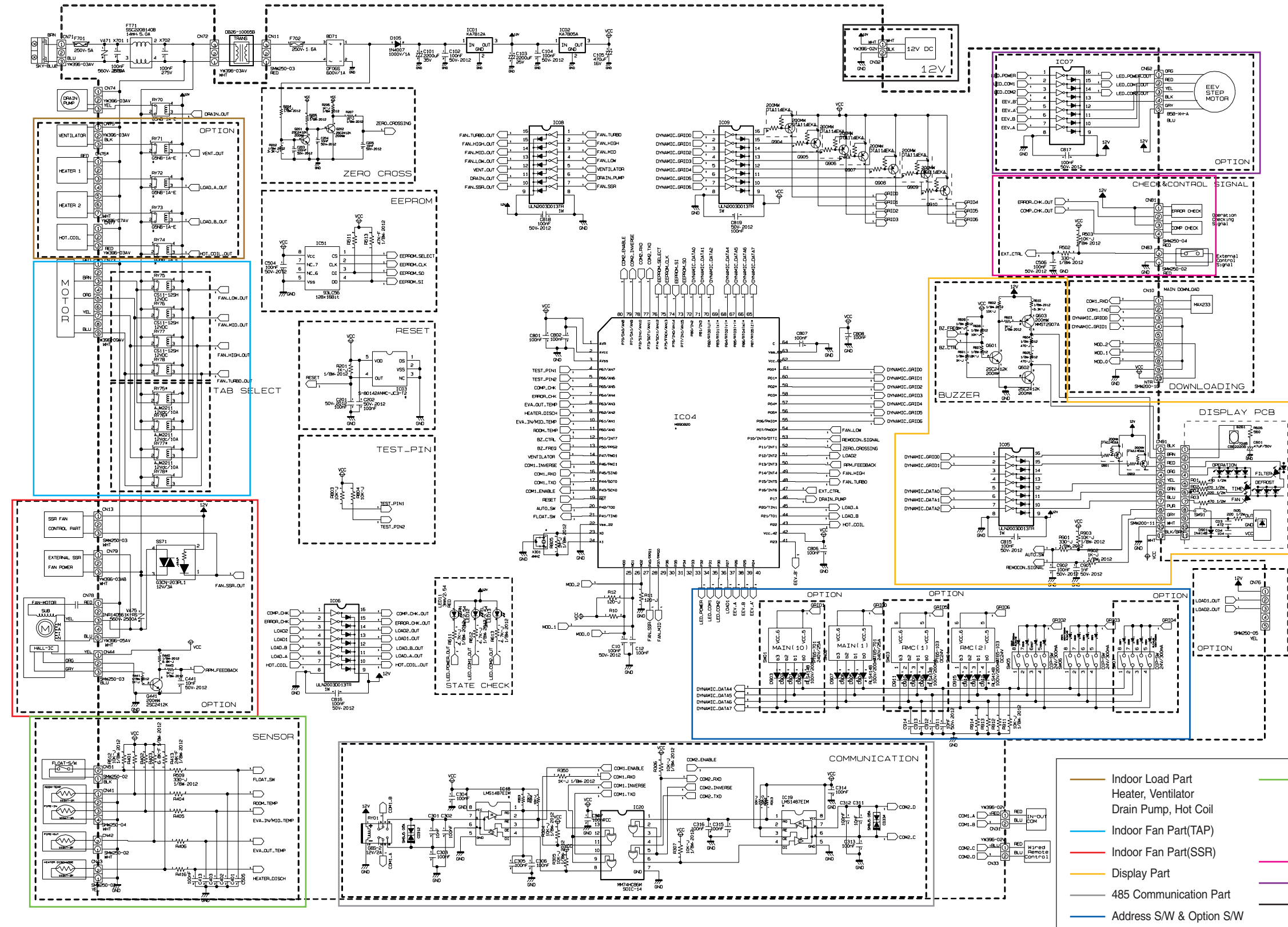
8-2 Outdoor Unit

UH140GAMC/UH105GAMC



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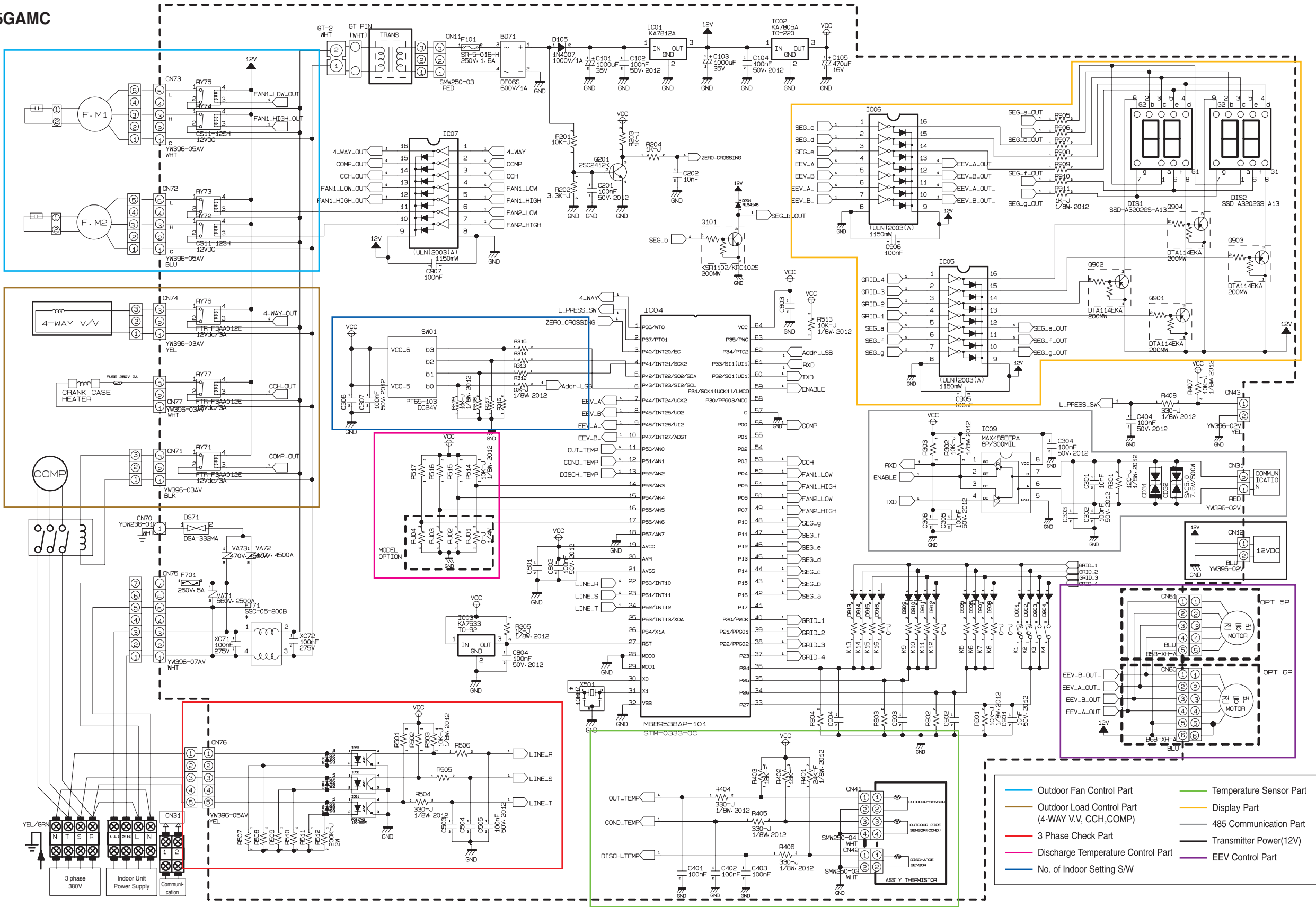
9-1-1Indoor Unit



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9-1-2 Outdoor Unit

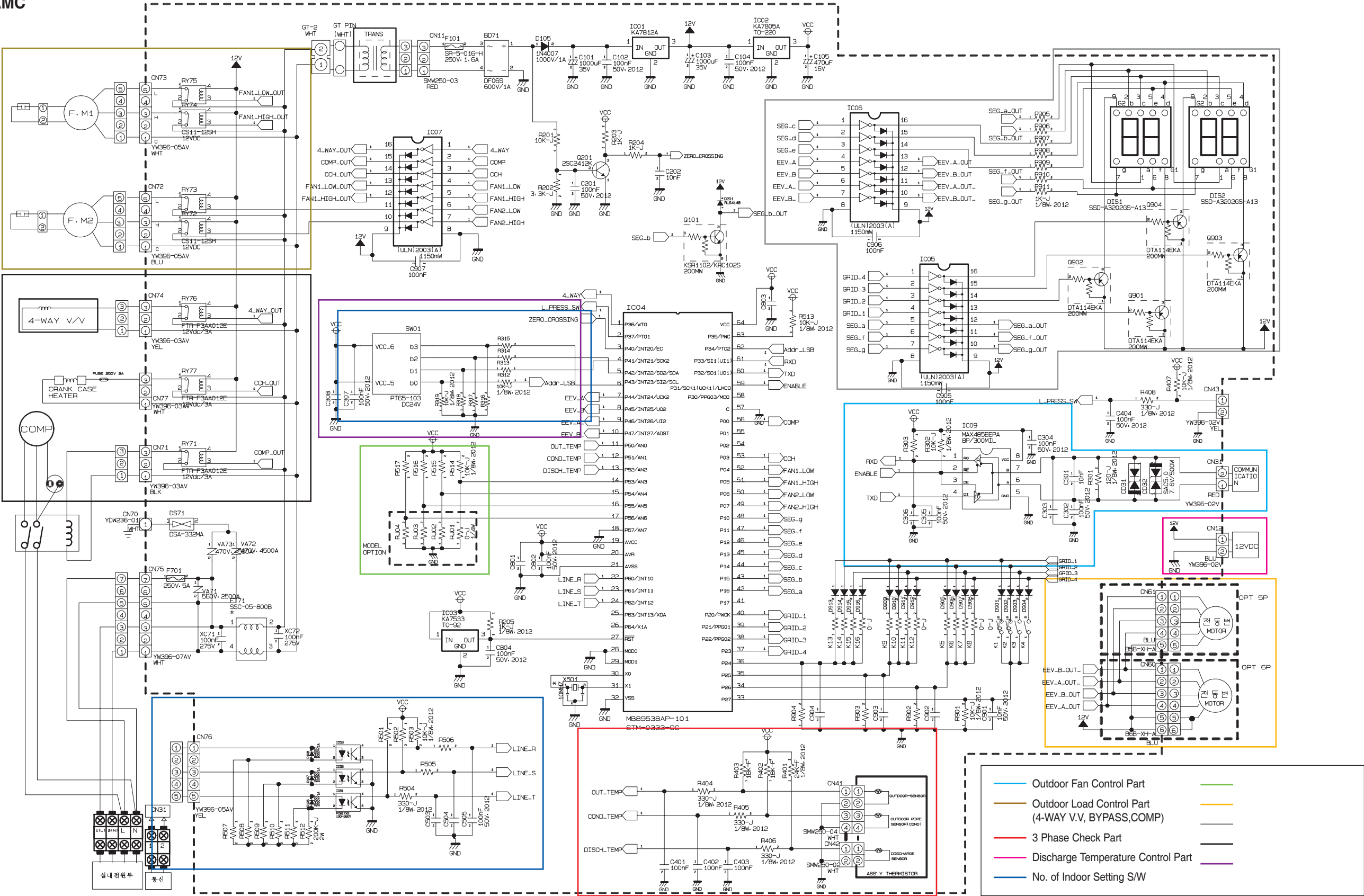
UH140/105GAMC



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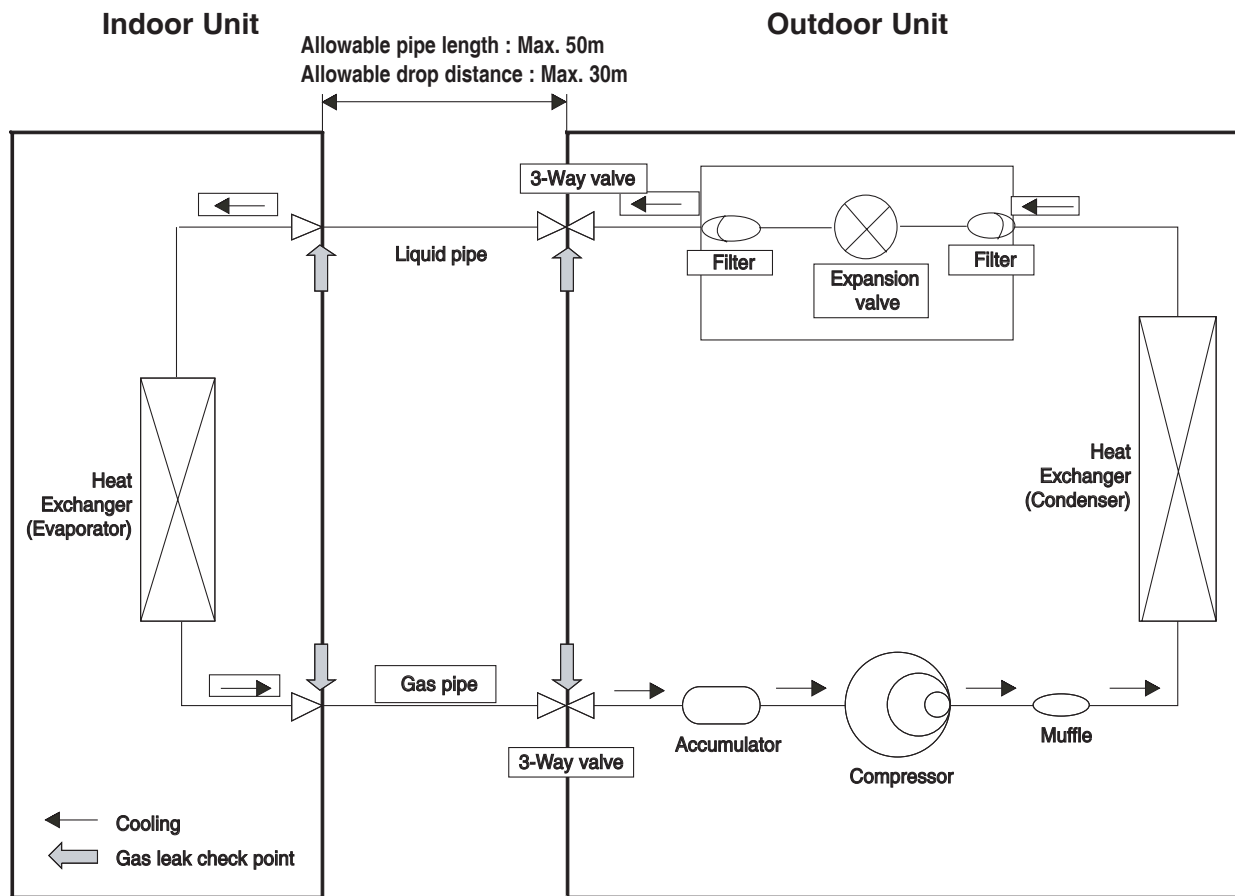
9-1-3 Outdoor Unit

■ UH105EAMC



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9-2 Refrigerating Cycle Diagram

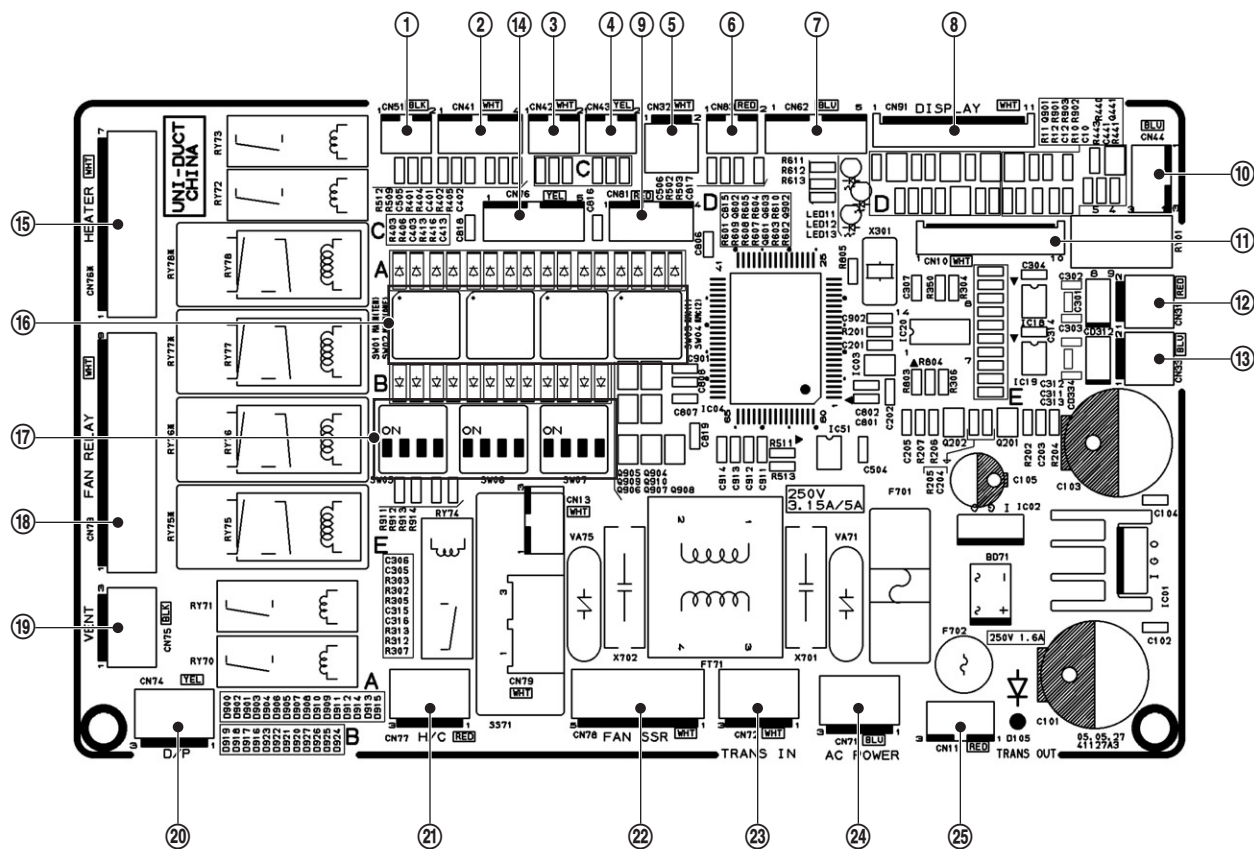


※ Amount of refilling per extension length of 1m; when extending the pipe length by more than 7.5m, "A" g of R410 , refrigerant should be refilled per extension length of 1m.

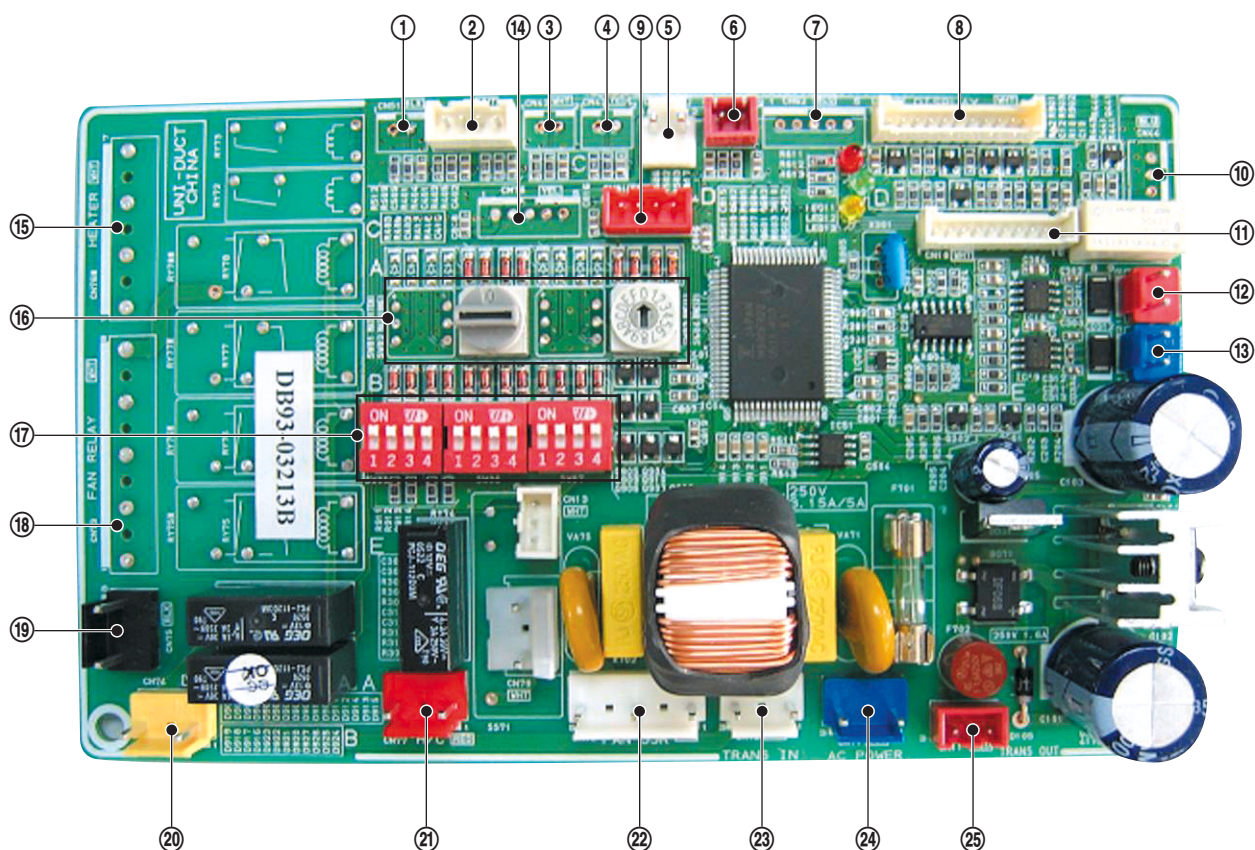
Model	"A" g
UH140GAMC	70g
UH105GAMC	70g
UH105EAMC	70g

10. PCB Diagram

10-1 Indoor Unit

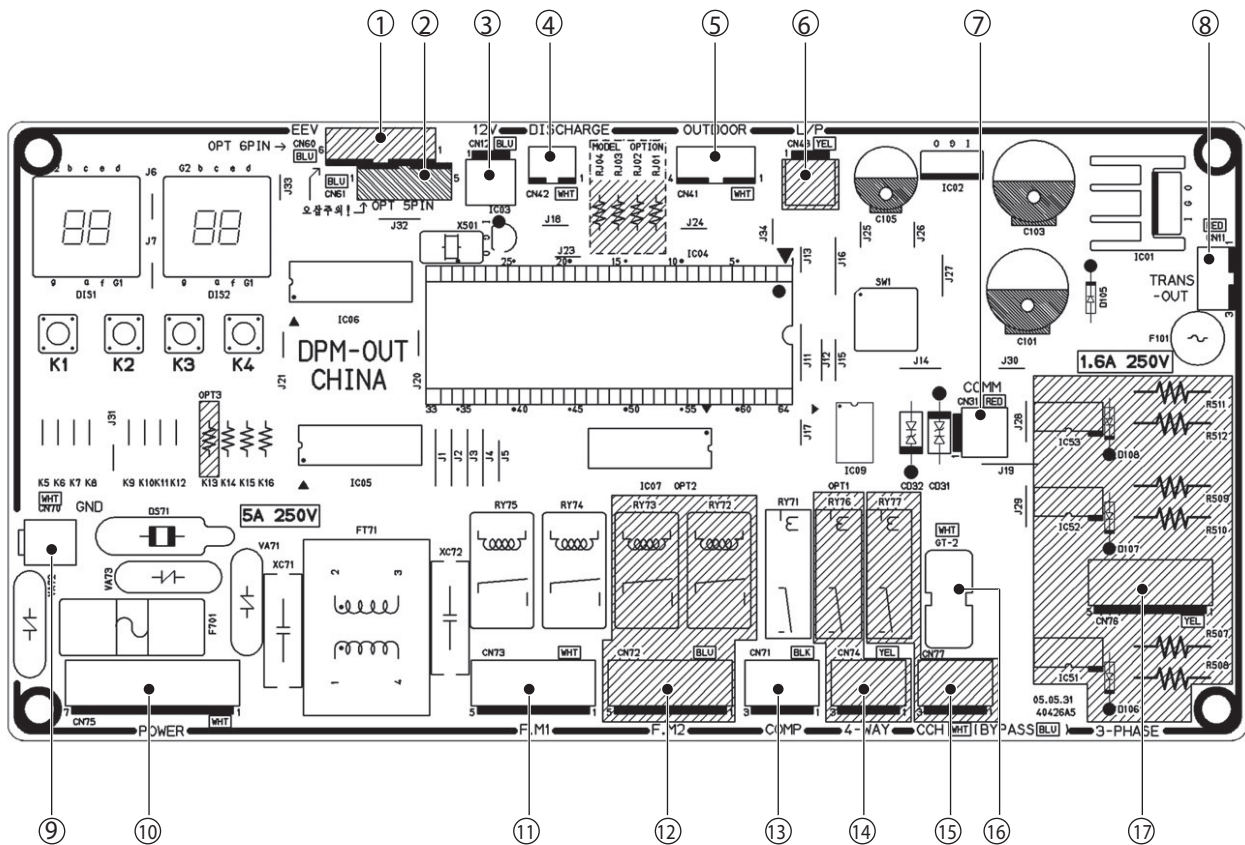


①	Floating S/W	⑬	Wired Remote Controller Communication
②	Indoor Pipe In Temperature Sensor	⑭	Option Load Connector
	Indoor Room Temperature Sensor	⑮	Heater
③	Indoor Pipe Out	⑯	Indoor Address S/W
	Temperature Sensor	⑰	Indoor Option S/W
④	Heater Discharge	⑱	Indoor Fan(TAP)
	Temperature Sensor	⑲	Ventilator
⑤	Wired Remote Controller Power	⑳	Drain Pump
⑥	External Control(S/W Part)	㉑	Hot Coil
⑦	EEV	㉒	Indoor Fan(SSR)
⑧	Display		Power
⑨	External Control(Display Part)	㉓	Transformer Out
⑩	HALL IC	㉔	Main Power In
⑪	MICOM Download		Power
⑫	Indoor/Outdoor Communication	㉕	Transformer In



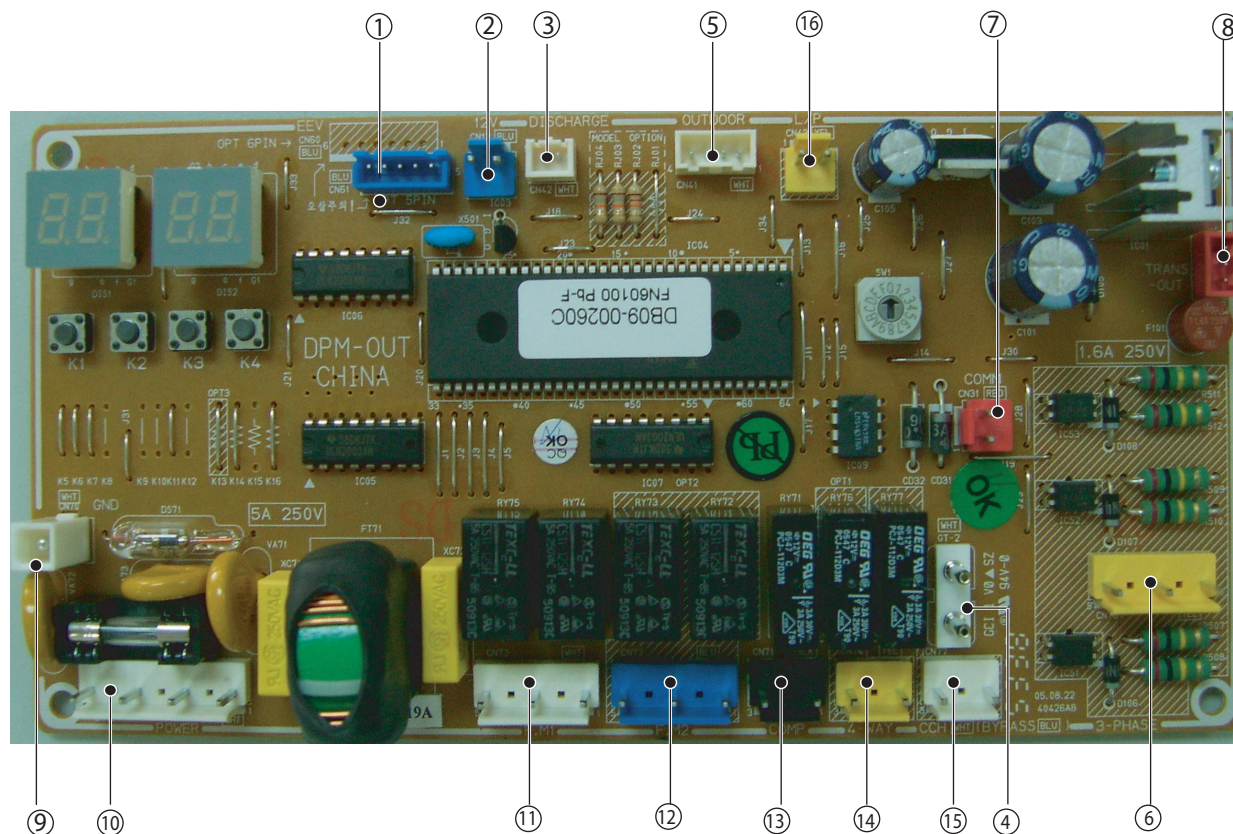
①	Floating S/W : SMW250-02(BLK)	⑬	Wired Remote Controller Communication : YW396-02(BLU)
②	Indoor Pipe In Temperature Sensor : SMW250-04(WHT) Indoor Room Temperature Sensor : SMW250-04(WHT)	⑭	Option Load Connector : SMW250-05(YEL)
③	Indoor Pipe Out : SMW250-02(WHT) Temperature Sensor : SMW250-02(WHT)	⑮	Heater : YW39607AV(WHT)
④	Heater Discharge : SMW250-02(YEL) Temperature Sensor : SMW250-02(YEL)	⑯	Indoor Address S/W
⑤	Wired Remote Controller Power : YW396-02(WHT)	⑰	Indoor Option S/W
⑥	External Control(S/W Part) : SMW250-02(RED)	⑱	Indoor Fan(TAP) : YW396-09AV(WHT)
⑦	EEV : SMW250-05(BLU) : SMW250-05(BLU)	⑲	Ventilator : YW396-03AV(BLK)
⑧	Display : SMW200-11(WHT) : SMW200-11(WHT)	⑳	Drain Pump : YW396-03AV(YEL)
⑨	External Control(Display Part) : SMW250-04(RED)	㉑	Hot Coil : YW396-03AV(RED)
⑩	HALL IC : SMW250-03(BLU)	㉒	Indoor Fan(SSR) : YW396-03AV(RED)
⑪	MICOM Download : SMW200-10(WHT)	㉓	Power : YW396-03AV(WHT) Transformer Out : YW396-03AV(WHT)
⑫	Indoor/Outdoor Communication : YW396-02(RED)	㉔	Main Power In : YW396-03AV(BLU)
		㉕	Power : YW396-03AV(BLU) Transformer In : SMW250-03(RED)

10-2 Outdoor Unit



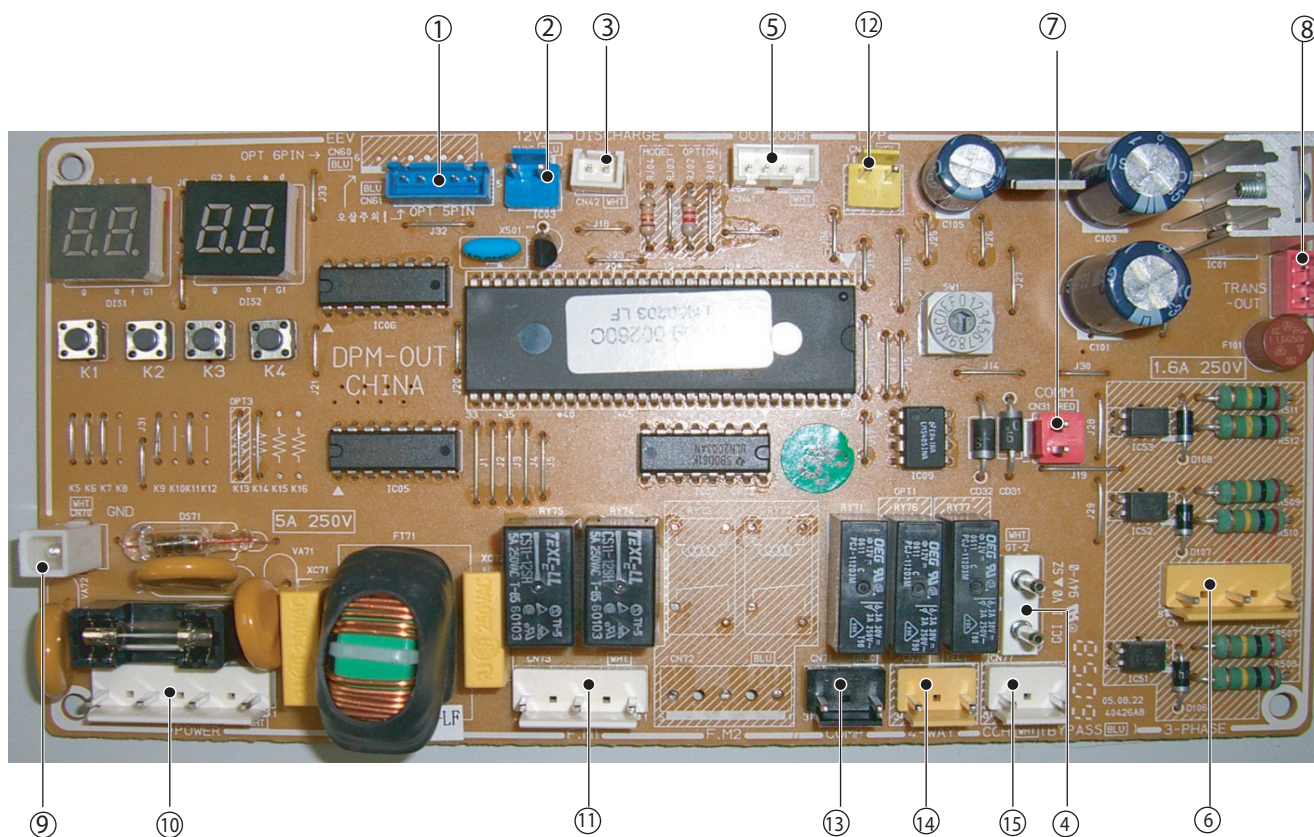
①	EEV(2,000 Step)	⑨	GROUND
②	EEV(480 Step)	⑩	Main Power In
③	Transmitter Power(12V)	⑪	Outdoor Fan 1
④	Discharge Temperature Sensor	⑫	Outdoor Fan 2
⑤	Outdoor Temperature Sensor	⑬	Compressor Output
	Outdoor Pipe Temperature Sensor	⑭	4-Way Valve Output
⑥	Low Pressure S/W	⑮	Bypass
⑦	Communication	⑯	Transformer In
⑧	Transformer Out	⑰	3 Phase Check

■ UH140GAMC



①	EEV(2,000 Step) : B6B-XH-A(BLU)	⑨	GROUND : YDW236-01(WHT)
②	EEV(480 Step) : B5B-XH-A(BLU)	⑩	Main Power In : YW396-07AV(WHT)
③	Transmitter Power(12V) : YW396-02V(WHT)	⑪	Outdoor Fan 1 : YW396-05AV(WHT)
④	Transformer In : GT-2(WHT)	⑫	Outdoor Fan 2 : YW396-05AV(BLU)
⑤	Outdoor Temperature Sensor : SMW250-04(WHT)	⑬	Compressor Output : YW396-03AV(BLK)
	Outdoor Pipe Temperature Sensor : SMW250-04(WHT)	⑭	4-Way Valve Output : YW396-03AV(YEL)
⑥	3 Phase Check : YW396-05AV(YEL)	⑮	Bypass : YW396-03AV(WHT)
⑦	Communication : YW396-02V(RED)	⑯	Low Pressure S/W : YW396-02AV,YEL
⑧	Transformer Out : SMW250-03(RED)		

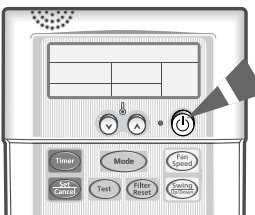
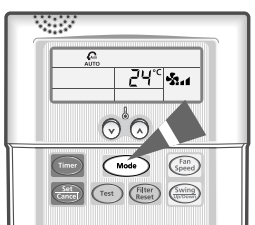
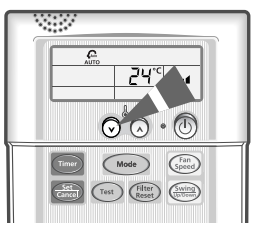
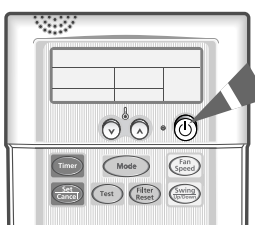
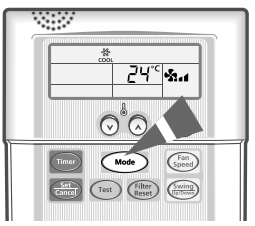
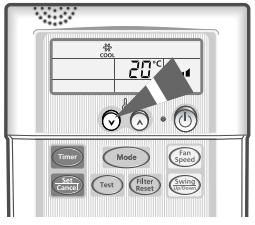
UH105GAMC/UH105EAMC



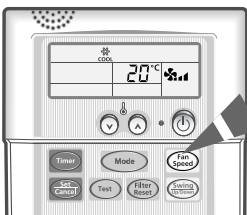
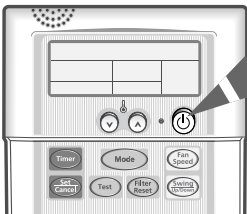
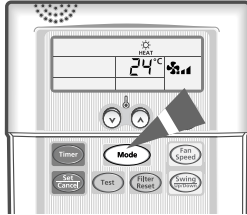
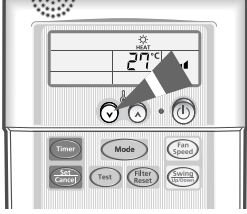
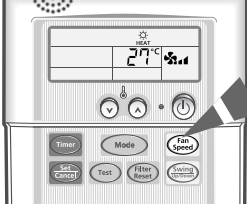
①	EEV(2,000 Step) : B6B-XH-A(BLU)	⑨	GROUND : YDW236-01(WHT)
②	EEV(480 Step) : B5B-XH-A(BLU)	⑩	Main Power In : YW396-07AV(WHT)
③	Transmitter Power(12V) : YW396-02V(WHT)	⑪	Outdoor Fan 1 : YW396-05AV(WHT)
④	Transformer In : GT-2(WHT)	⑫	Low Pressure S/W : YW396-02AV,YEL
⑤	Outdoor Temperature Sensor : SMW250-04(WHT)	⑬	Compressor Output : YW396-03AV(BLK)
	Outdoor Pipe Temperature Sensor : SMW250-04(WHT)	⑭	4-Way Valve Output : YW396-03AV(YEL)
⑥	3 Phase Check : YW396-05AV(YEL)(UH105EAMC :NO USED)	⑮	Bypass : YW396-03AV(WHT)
⑦	Communication : YW396-02V(RED)		
⑧	Transformer Out : SMW250-03(RED)		

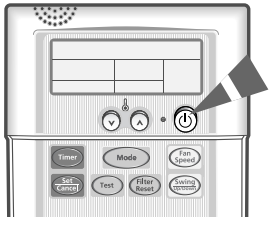
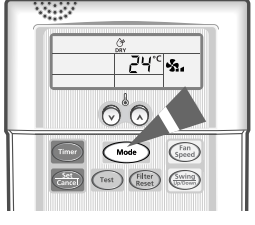
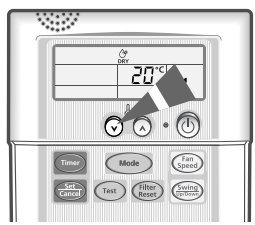
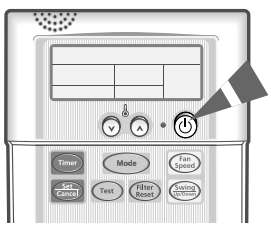
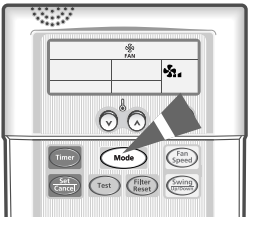
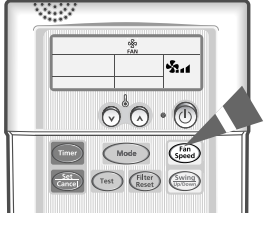
11. Operating Instruction and Installation

11-1 Main Function

Mode	Explanation	Remark
Selecting the Automatic Operating Mode	1. If necessary, press  (ON/OFF) button. 2. To select the AUTO mode, press the  button until  is displayed at the top of the wired remote controller. 3. To adjust the temperature, press the   buttons one or more times until the required temperature is displayed. Possible temperatures are between 18°C and 30°C inclusive.	  
Cooling Your Room	1. If necessary, press  (ON/OFF) button. 2. To select the COOL mode, press the  button until  is displayed at the top of the wired remote controller. 3. To adjust the temperature, press the   buttons one or more times until the required temperature is displayed. Possible temperatures are between 18°C and 30°C inclusive.	  

Main Function (cont.)

Mode	Explanation	Remark
Cooling Your Room	4. Select the fan speed by pressing the  button one or more times until the intended value is displayed :  Automatic(rotated :  →  → )  Low  Medium  High	
Heating Your Room (Except cooling only models)	1. If necessary, press  (ON/OFF) button. 2. To select the HEAT mode, press the  button until  is displayed at the top of the wired remote controller. 3. To adjust the temperature, press the   buttons one or more times until the required temperature is displayed. Possible temperatures are between 16°C and 30°C inclusive. 4. Select the fan speed by pressing the  button one or more times until the intended value is displayed :  Automatic(rotated :  →  → )  Low  Medium  High	   

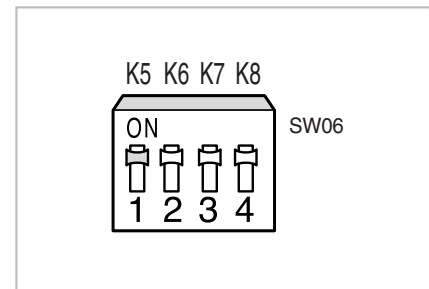
Mode	Explanation	Remark
Removing Excess Humidity	1. If necessary, press  (ON/OFF) button. 2. To select the DRY mode, press the  button until  is displayed at the top of the wired remote controller. 3. To adjust the temperature, press the   buttons one or more times until the required temperature is displayed. Possible temperatures are between 18°C and 30°C inclusive.	  
Airing Your Room	1. If necessary, press  (ON/OFF) button. 2. To select the FAN mode, press the  button until  is displayed at the top of the wired remote controller. 3. Select the fan speed by pressing the  button one or more times until the intended value is displayed:  Low  Medium  High	  

11-2 Additional Function

■ Compensation for lost temperature in heating operation

- Reduces the difference between an actual room temperature and a sensed temperature by the air conditioner when heating.

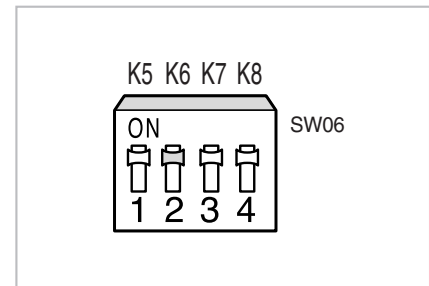
Switch No.	Switch ON	Switch OFF
K5	2°C compensation	5°C compensation



■ Adjusting filter cleaning cycle

- You can adjust the cycle for filter sign indicator.

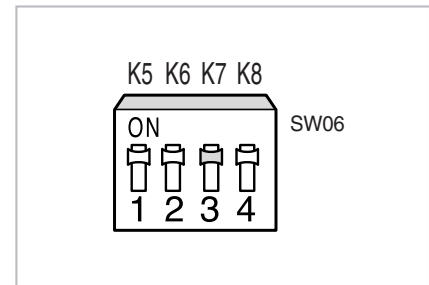
Switch No.	Switch ON	Switch OFF
K6	1,000 hours	2,000 hours



■ Hot water heater

- You must adjust the K7 when you install the hot water heater.

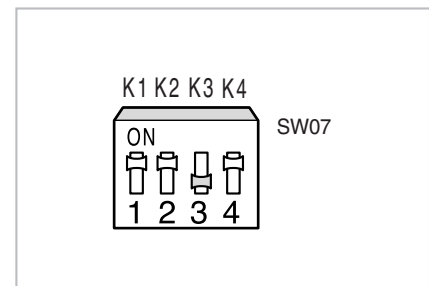
Switch No.	Switch ON	Switch OFF
K7	No use of hot water heater	Use of hot water heater



■ External Control

- You must adjust the K11 when you use external control.

Switch No.	Switch ON	Switch OFF
K11	No use of external control	Use of external control

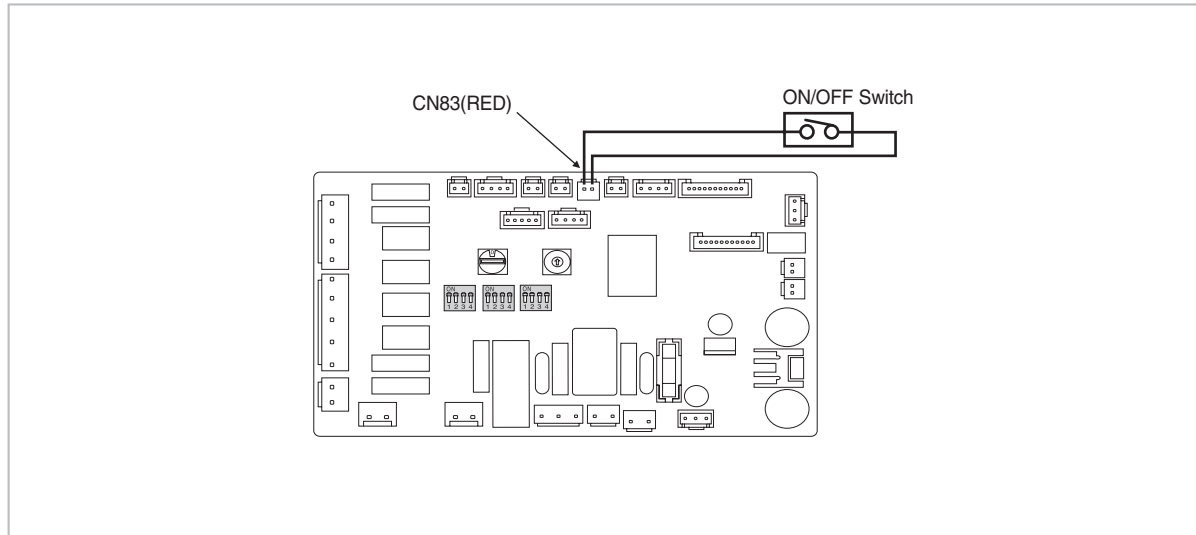


■ External Control (cont.)

- You can use external control when the K11 switch is turned off.

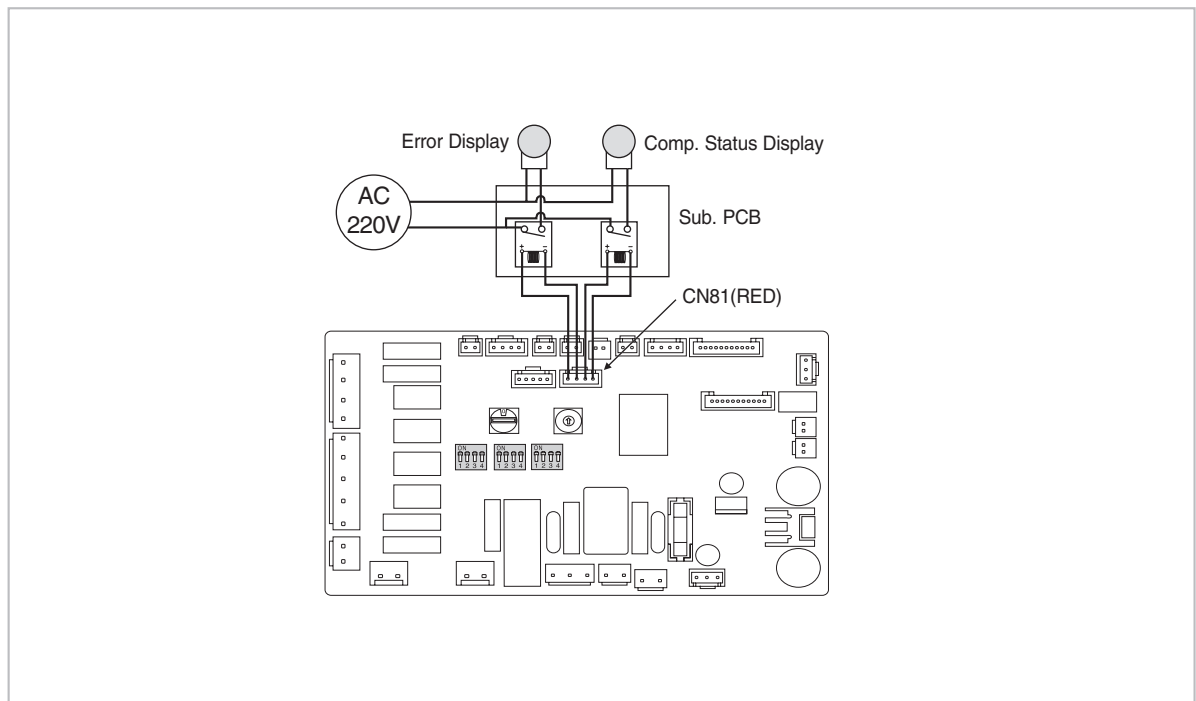
<Operation ON/OFF Function>

Connector No.	SHORT	OPEN
CN83(RED)	Operation ON	Operation OFF

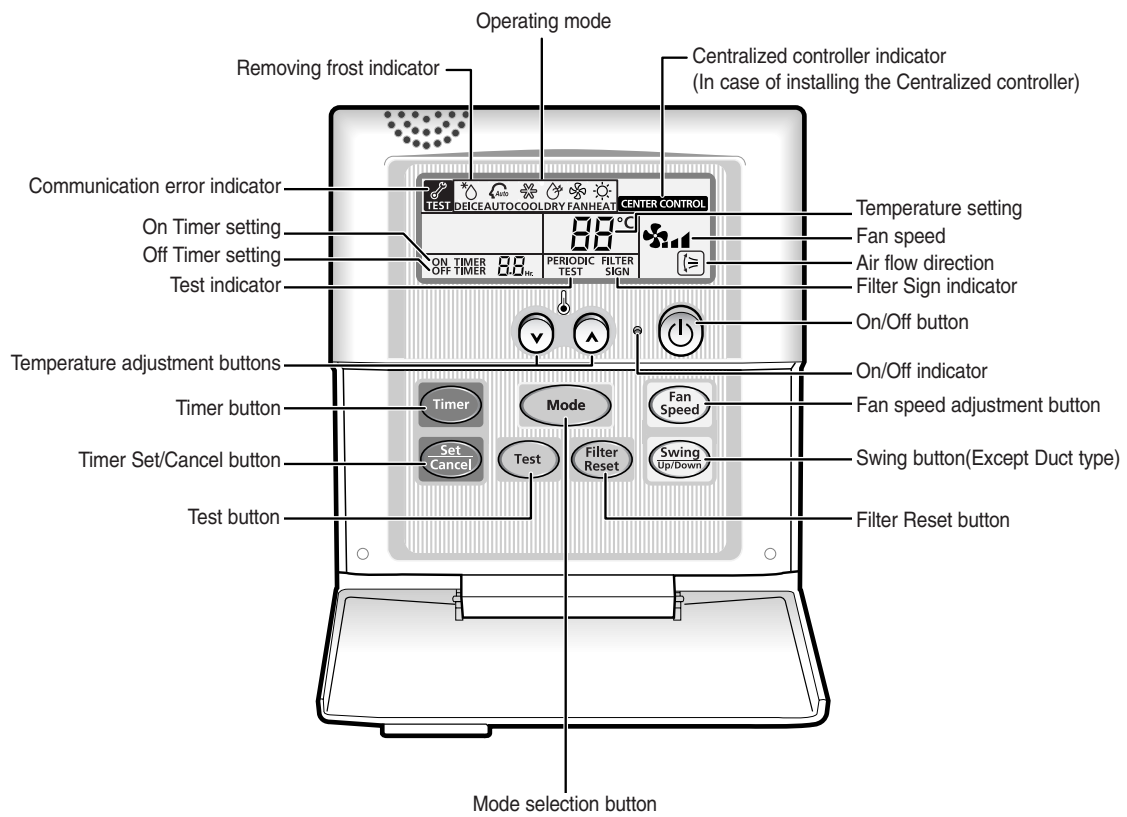


<Operation State Display>

Connector No.	Function
PIN #1 and #2 of CN81(RED)	+12V Out if any error occurs
PIN #3 and #4 of CN81(RED)	+12V Out when the compressor is operating



11-3 Wired Remote Controller-Buttons and Display



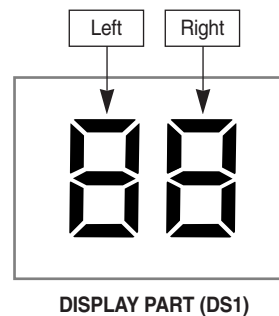
- Note :**
- The **Test** button is for your installation specialist. You must not press it.
 - After cleaning the air filter, press the **Filter Reset** button. Then the wired remote controller will display the Filter Sign indicator when the time to clean the air filter.
 - Duct type air conditioner does not have function of adjusting air flow direction. Therefore, the function is not operated even if you press the **Swing Up/Down** button.

12. Troubleshooting

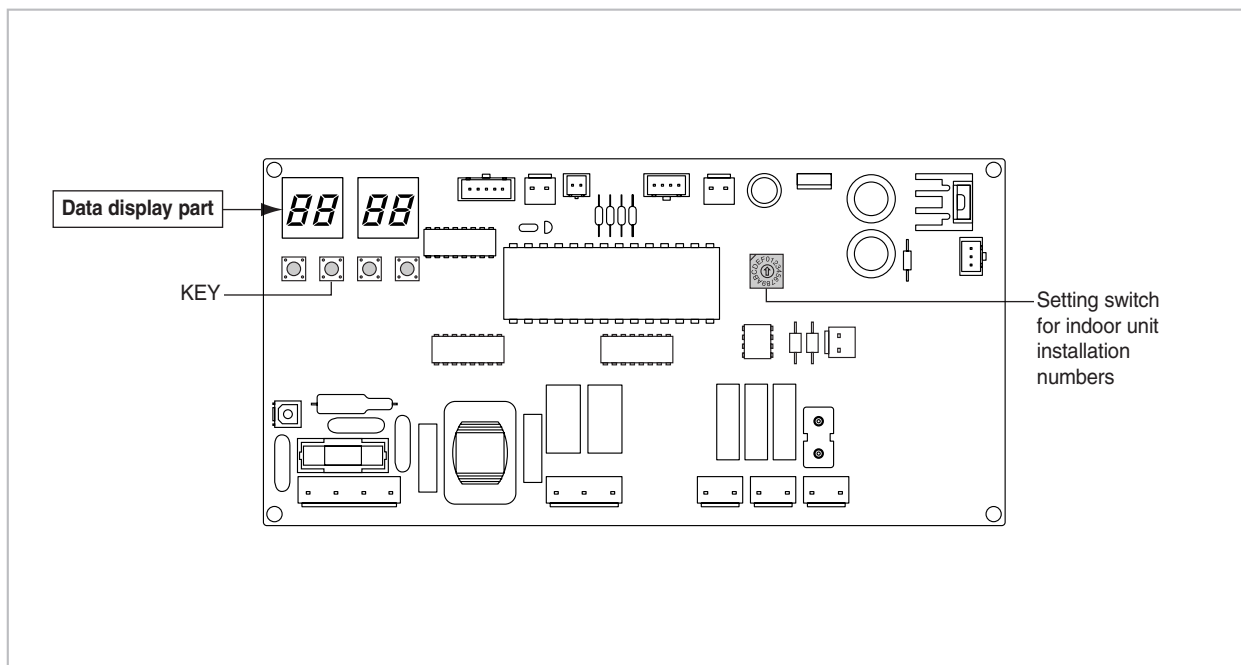
12-1 Operation Specification

12-1-1 Tracking process marked on display part

- Left numeral is an address that outdoor unit transfers communication.
 $\square - 1 - 2 - 3 \dots - F$ (Calling indoor unit)
- Right numeral marks address that is answered.
- During the tracking, left calls indoor unit through
 $\square - 1 - 2 - 3 \dots - d - E - F$ and checks. At this time
 connected indoor unit set on " $\square$ " and the indoor unit set $\square$ address
 marked on right.
 Right side mark is marked by $\square$ when left side is $\square$.
 (If SW02(MAIN) that set indoor unit address is controlled to " $\square$ ",
 indoor unit number marked on outdoor unit is marked by " $\square$ ".)



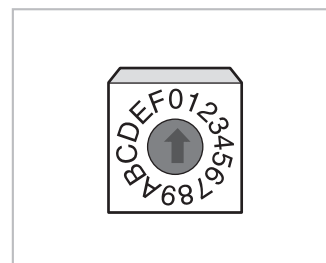
12-1-2 Option set part for Outdoor unit PCB



■ Setting switch for indoor unit installation numbers

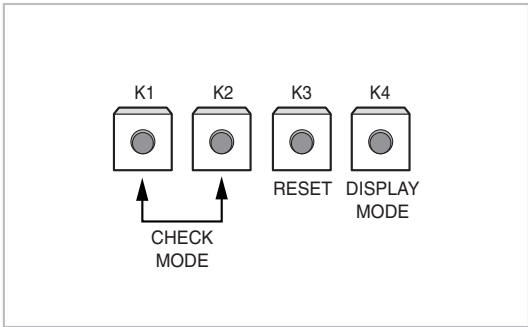
Counts of Indoor Unit Installation	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Numbers of the switch	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

- Example : When the installed indoor unit is one, control the arrow of switch forward to '0' or '1' as figure.

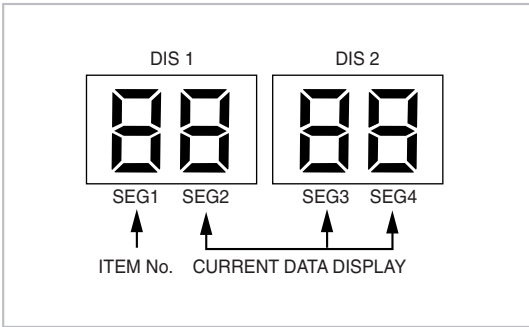


12-1-3 Setting Up Option Switches

■ KEY



■ Display



■ Summary of KEY functions

Function Number of press times	K1 (Displayed on SEG 3, 4)	K2 (Displayed on SEG 3, 4)	K3 (Displayed on SEG 3, 4)	K4 (Displayed on SEG 3, 4)
1	Adding refrigerant at heating mode	Adding refrigerant at cooling mode	Reset	Displays data
2	Test operation at heating mode	Test operation at cooling mode	-	-
3	End	Pump Down for recovery of refrigerant	-	-
4	-	End	-	-

* Use the K1 only for heat pump models.

12-2 Troubleshooting

12-2-1 Wired remote controller display error occurring

■ If an error occurs,  is displayed on the wired remote controller.

If you would like to see an error code, press the Test button.

Display	Description	Remarks
408	Compressor down due to protection control of the discharge temperature sensor	Error about protection control of the outdoor unit
450	Control due to the condenser temperature sensor when cooling mode	
458	Error of the low pressure switch (Protection control)	
425	Reverse phase error (Protection control)	
558	In removing frost	
228	Error of the outdoor temperature sensor (Open/Short)	Error about the outdoor unit sensor (Open/Short) Detection during the operation of the indoor unit (sensing and sending errors into the communication data)
230	Error of condenser temperature sensor (Open/Short)	
258	Error of discharge temperature sensor (Open/Short)	
208	- System down caused by communication error after completion of tracking - Mismatching of the indoor unit numbers set with those communication after completion of 5 times tracking	Communication and the indoor unit errors
828	Error of temperature sensor in the indoor unit (Open/Short)	Self-diagnosis of the indoor and outdoor unit
822	Error of the heat exchanger sensor in the indoor unit (Open/Short)	
409	Error of electronic expansion valve open in the outdoor unit (when it is detected more than once)	
422	Error of electronic expansion valve close in the outdoor unit (when it is detected more than once)	
608	Error of communication between the indoor unit and the wired remote controller	Wired remote controller errors
602	Master wired remote controller ↔ Slave wired remote controller	
606	COM1/COM2 Cross-installed error	
8EA	Error of setting option for wired remote controller COM2	

12-2-2 LED Display on the receiver & display unit

- If an error occurs during the operation, an LED flickers and the operation is stopped except the LED.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.
- If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

■ LED Display

Error type	LED lamp display					Remarks
	Concealed Type					
	Blue	Red				
	Standard Type					
Power reset		×	×	×	×	
Error of temperature sensor in the indoor unit (Open/Short)	×	×		×	×	
Error of heat exchanger sensor in the indoor unit		×		×	×	
Error of the outdoor temperature sensor Error of the condenser temperature sensor Error of the discharge temperature sensor		×	×		×	
1. No communication for 2 minutes between indoor units (Communication error for more than 2 minutes) 2. Indoor unit receiving the communication error from outdoor unit 3. Outdoor unit tracking 3 minutes error 4. When sending the communication error from outdoor unit, the mismatching of the communication numbers and installed numbers after completion of tracking. (Communication error for more than 2 minutes)	×	×			×	1. Indoor unit error (Display is unrelated with operation) 2. Outdoor unit error (Display is unrelated with operation)
Communication error between indoor units		×	×	×		
1. Error of electronic expansion valve close 2. Error of electronic expansion valve open 3. 2'nd detection of high temperature cond 4. 2'nd detection of high temperature discharge 5. Error of reverse phase 6. Compressor down due to 6'th detection of freezing	×	×				
Detection of the float switch	×	×	×			
Error of setting option switches for optional accessories	×	×		×		
EEPROM error		×			×	
EEPROM option error						

● : On ● : Flickering × : Off

12-2-3 Outdoor Unit

If an error occurs during the operation, it is displayed on the outdoor unit PCB.

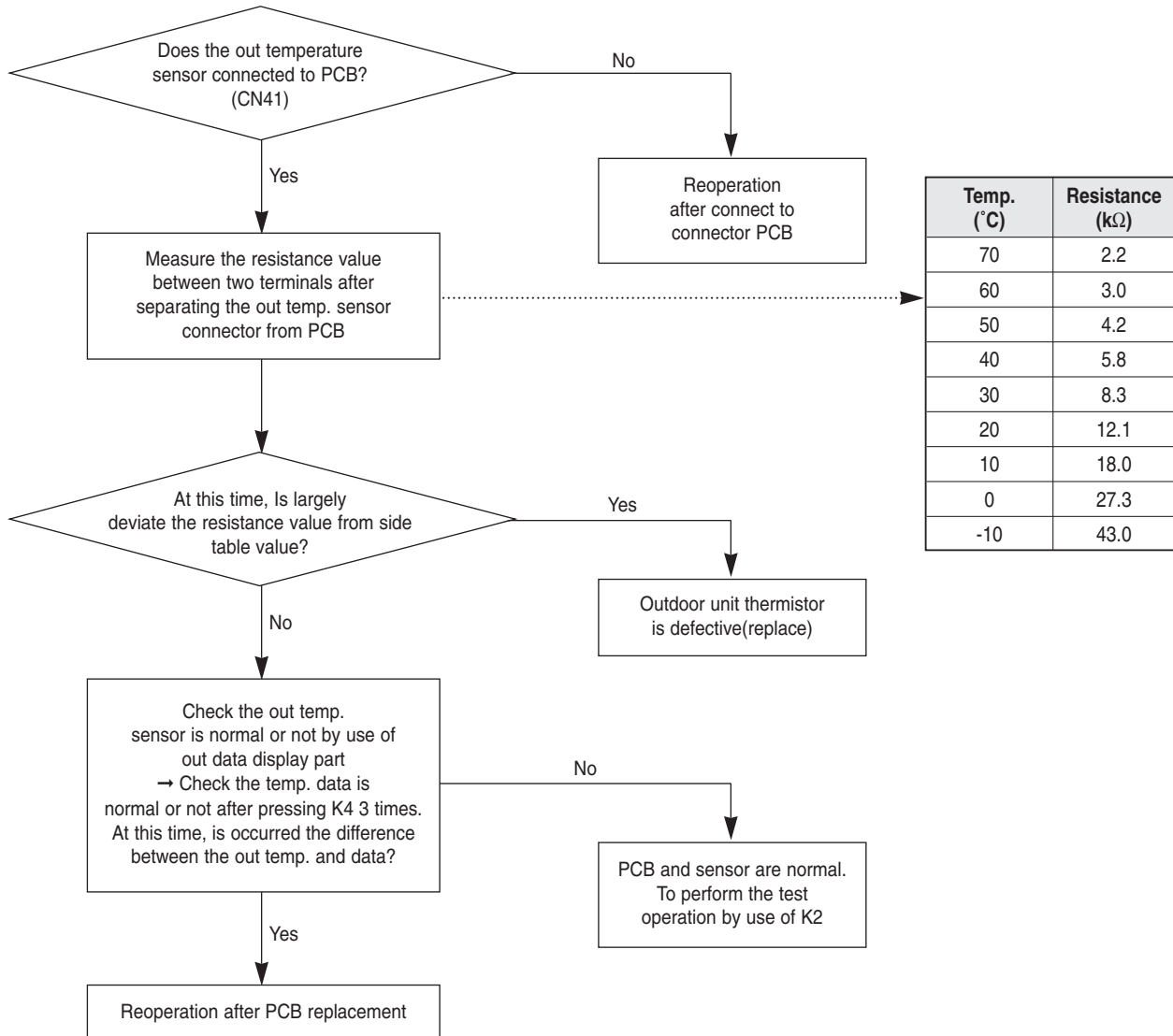
Display	Explanation	Remark
$E_r \leftrightarrow P0$	High temperature of Discharge (Protection control)	Error about protection control of outdoor unit
$E_r \leftrightarrow P1$	High temperature of outdoor heat exchanger (Protection control)	
$E_r \leftrightarrow P4$	Reverse phase error (Protection control)	
$E_r \leftrightarrow P5$	COMP DOWN to protect being frozen	
$E_r \leftrightarrow P9$	In removing frost	
$E_r \leftrightarrow t1$	Error of OUT TEMP sensor (OPEN/SHORT)	Errors about outdoor unit sensor (OPEN/SHORT) Detection during the operation of indoor unit (Sensing and sending errors into the communication data)
$E_r \leftrightarrow t2$	Error of temperature sensor in outdoor heat exchanger (OPEN/SHORT)	
$E_r \leftrightarrow t3$	Error of Discharge TEMP sensor (OPEN/SHORT)	
$E_r \leftrightarrow E1$	System Down caused by communication error after completion of tracking	Communication and indoor unit errors
$E_r \leftrightarrow E2$	Mismatching of the indoor unit numbers set with those communicated after completion of tracking	
$E_r \leftrightarrow E3$	Error of float switch in indoor unit	Self-diagnosis of indoor and outdoor unit (x:indoor unit address)
$E_r \leftrightarrow E5$	Error of setting option switches for optional accessories	
$E_r \leftrightarrow q_x$	OPEN/SHORT error of room sensor in indoor unit	
$E_r \leftrightarrow r_x$	OPEN/SHORT error of eva in sensor in indoor unit	
$E_r \leftrightarrow u_x$	EEPROM option error	Displays of operating status
$E_r \leftrightarrow u_x$	Error of fan starting	
$E_r \leftrightarrow G4$	Open error of electronic expansion valve in outdoor unit (Detected once or more times)	
$E_r \leftrightarrow G5$	Close error of electronic expansion valve in outdoor unit (Detected once or more times)	
t_u Flicker	Below -5°C when cooling (Outdoor temperature)	
t_o Flicker	Over 30°C when heating (Outdoor temperature)	
K1, K2, K3, K4, K5 Flicker		

The order of priority : E1 → E2 → E3 → E5 → P0 → P1 → P4 → P5 → P9 → t1 → t2 → t3 → tu → to → G4 → G5 → E3 → qx → rx → vx → K1, K2, K3, K4, K5
 - In case that the same error displays from multi-indoor units, the one having the faster address has the priority.

12-3 Sequence for trouble diagnosis

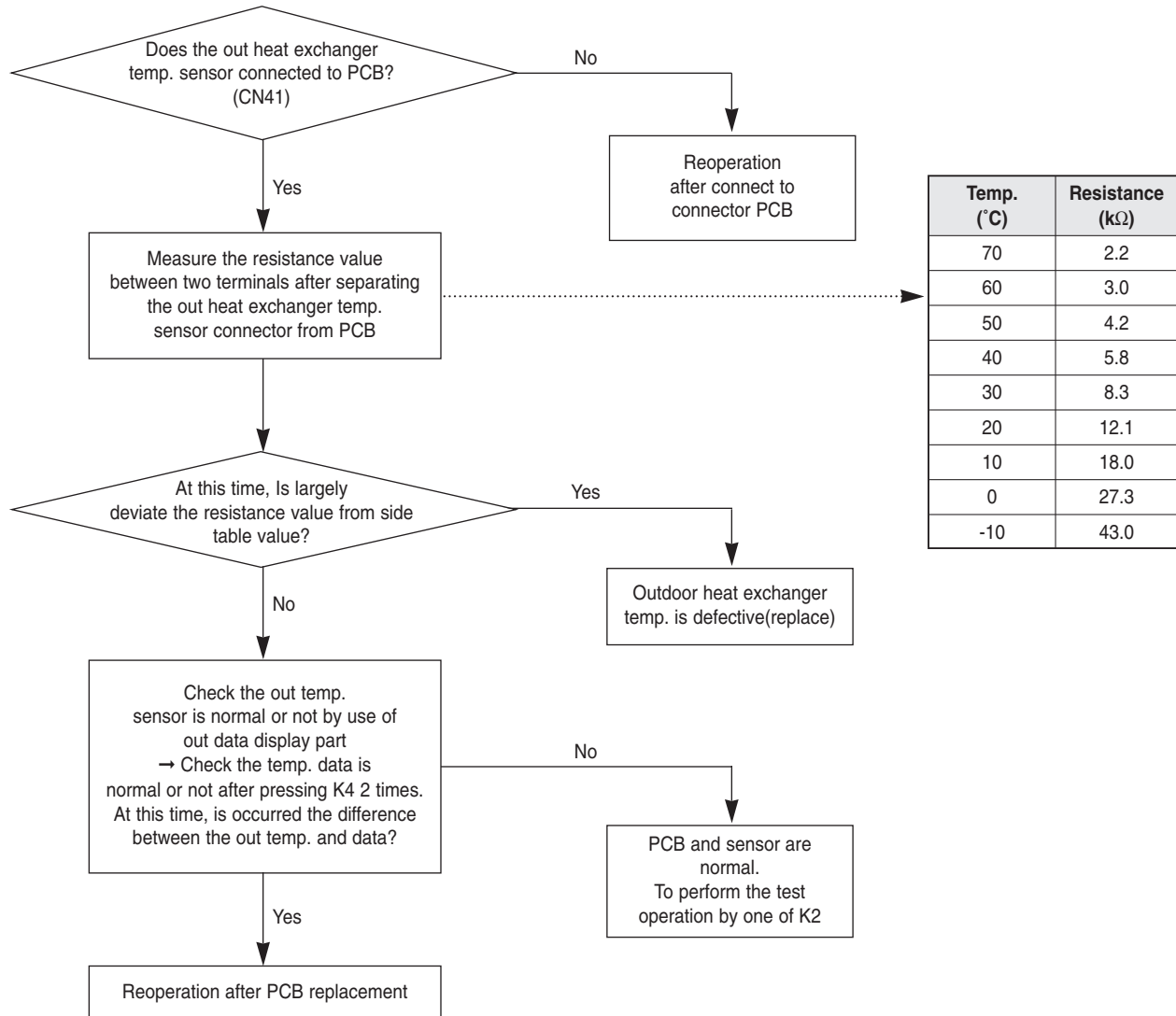
12-3-1 Outdoor temp. sensor(OPEN/SHORT)

Outdoor unit display	$E_r \rightarrow E_1$ (Outdoor temp. sensor OPEN/SHORT error)
Indoor unit display	● (Operation) × (Timer) ● (Airflow) × (Filter)
How to determine	Disconnection and short of outdoor temp. sensor
Reason of error	Disconnection or leak of applied sensor



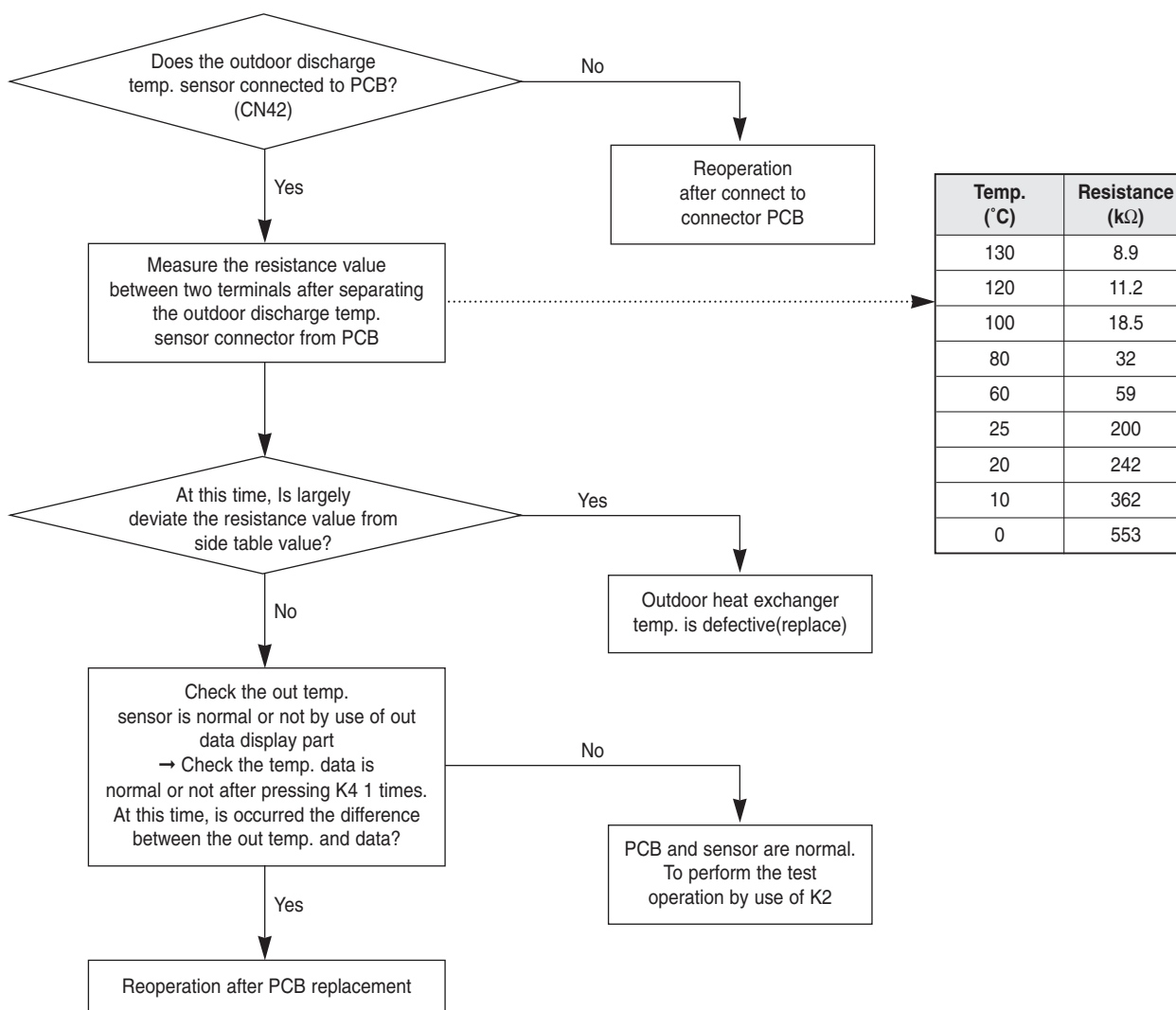
12-3-2 Outdoor heat exchanger temp. sensor error(OPEN/SHORT)

Outdoor unit display	$E_r \rightarrow E_2$ (Outdoor heat exchanger temp. sensor error(OPEN/SHORT))
Indoor unit display	● (Operation) × (Timer) ● (Airflow) × (Filter)
How to determine	Disconnection and short of outdoor heat exchanger temp. sensor
Reason of error	Disconnection or leak of Applied sensor



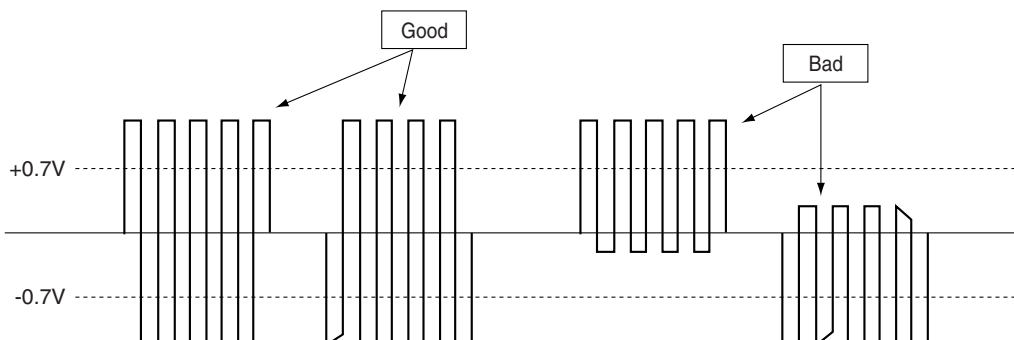
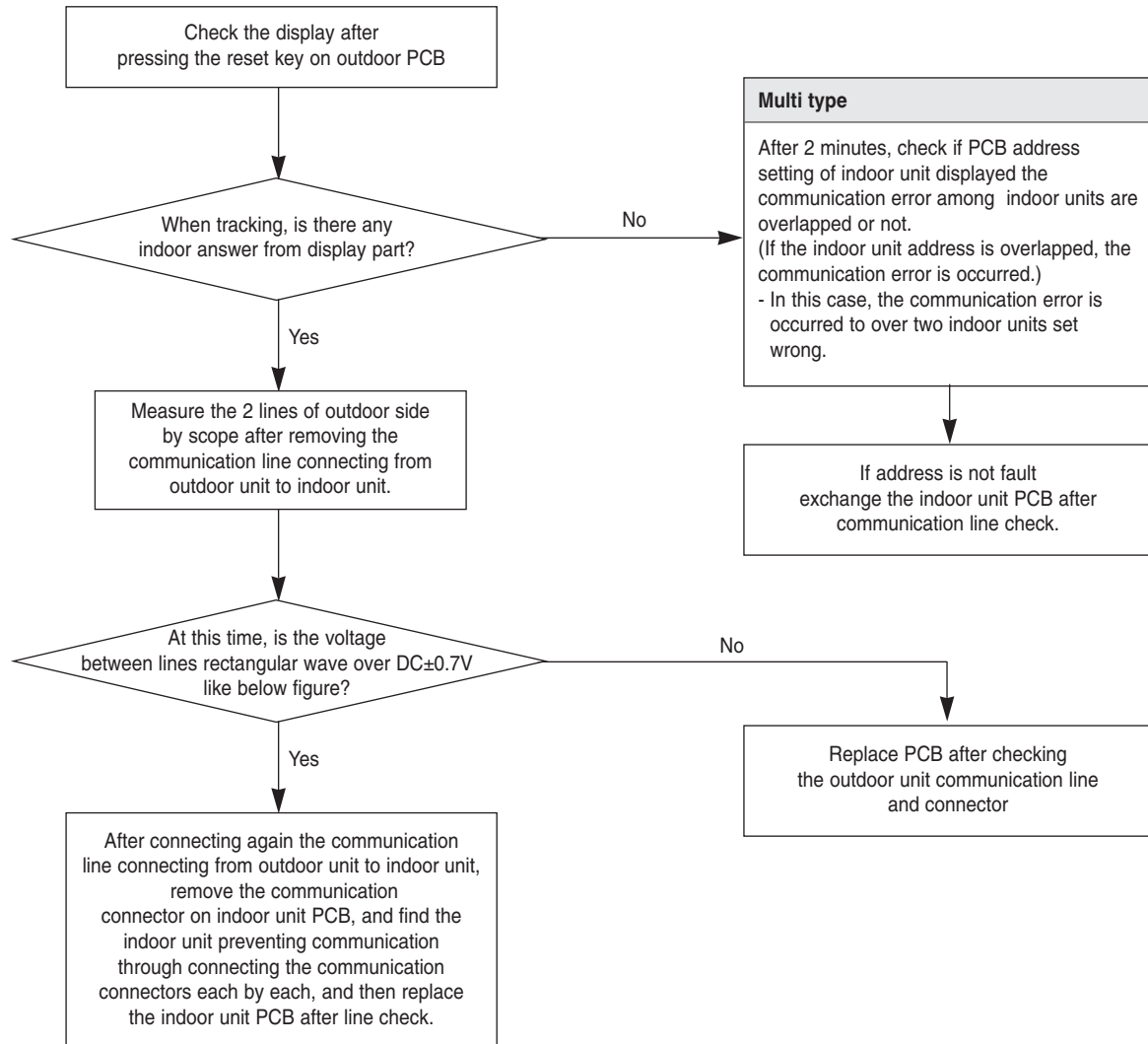
12-3-3 Outdoor discharge temp. sensor error(OPEN/SHORT)

Outdoor unit display	$E_r \rightarrow E_3$ (Outdoor discharge temp. sensor OPEN/SHORT error)
Indoor unit display	● (Operation) × (Timer) ● (Airflow) × (Filter)
How to determine	Disconnection and short of outdoor discharger temp. sensor
Reason of error	Disconnection or leak of Applied sensor



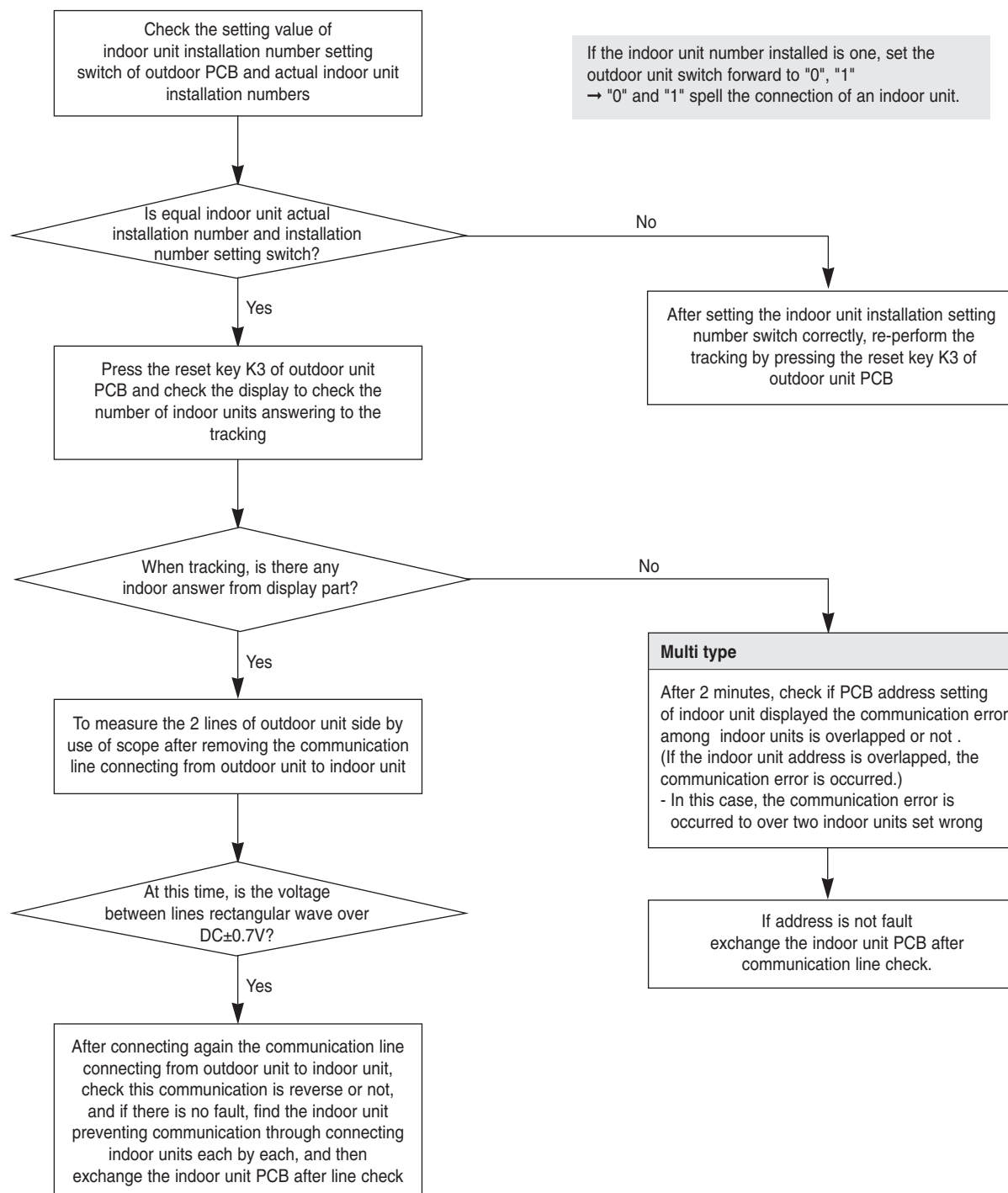
12-3-4 Communication error during the operation

Outdoor unit display	$E_r \rightarrow E !$ (Communication error during the operation)
Indoor unit display	× (Operation) ● (Timer) ● (Airflow) × (Filter)
How to determine	Disconnection and short of communication lines
Reason of error	Communication error between the indoor unit and outdoor unit.



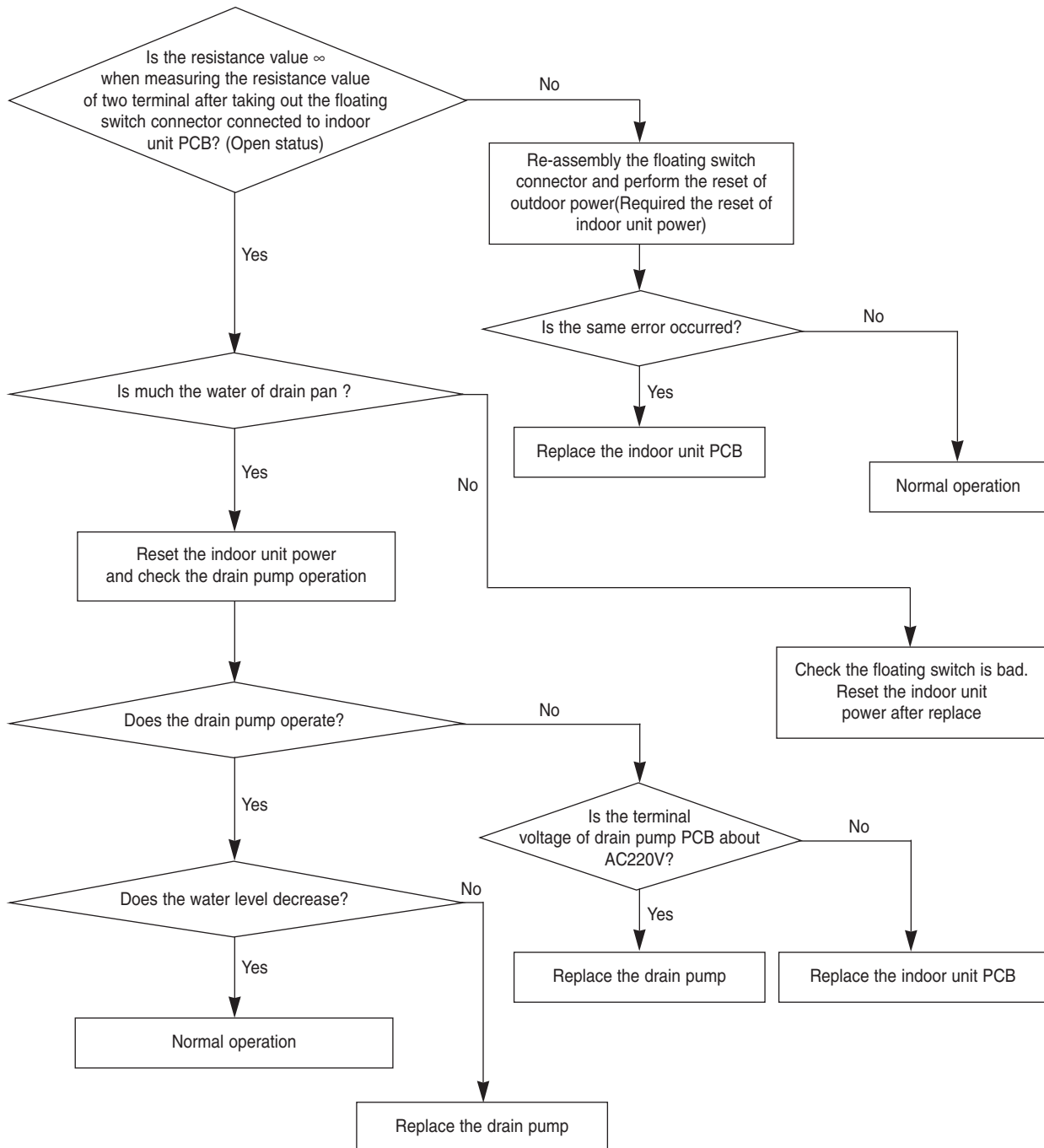
12-3-5 Communication error between indoor and outdoor after initial power input.

Outdoor unit display	$E_r \rightarrow E_z$ (Tracking error)
Indoor unit display	× (Operation) ● (Timer) ● (Airflow) × (Filter)
How to determine	Mismatching the communicating indoor unit and setting switch indoor numbers When outdoor tracking
Reason of error	Communication error between the indoor unit and outdoor unit, and installation number switch setting miss



12-3-6 Indoor float switching error

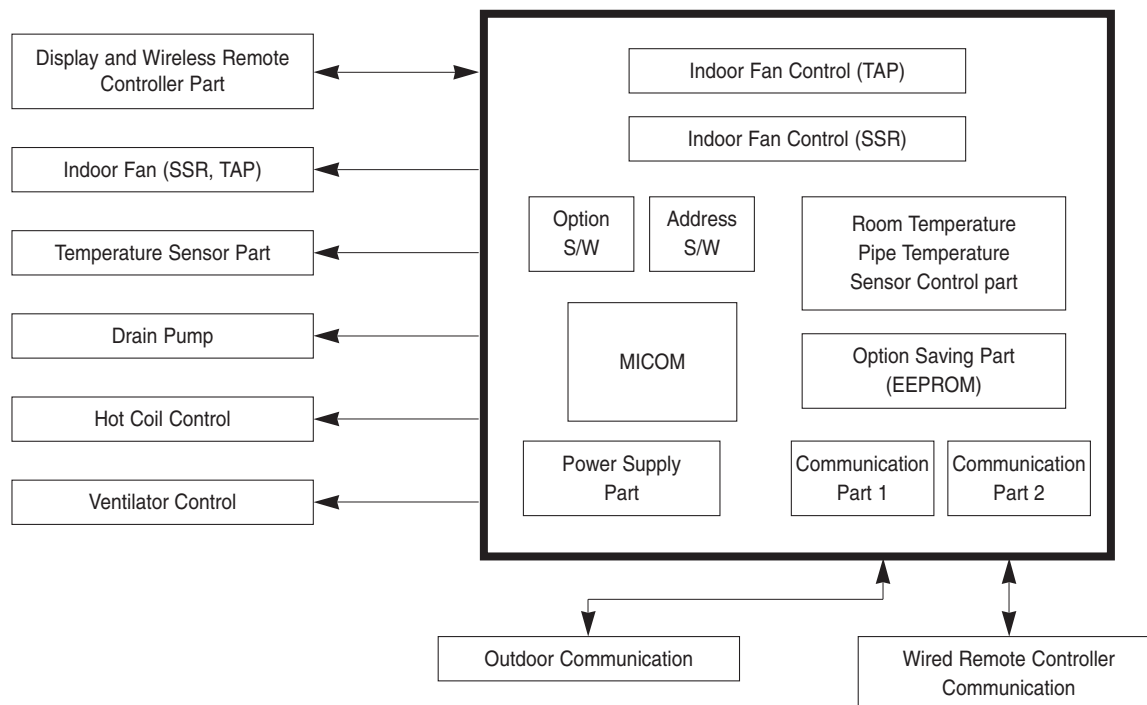
Outdoor unit display	$E_r \rightarrow E3$ (Indoor float switching error)
Indoor unit display	× (Operation) × (Timer) ● (Airflow) ● (Filter)
How to determine	The status continues over 1 minute that indoor unit float switch is opened.
Reason of error	The rising of water level of drain pan due to the disorder of indoor unit drain pump, the badness of detection sensor



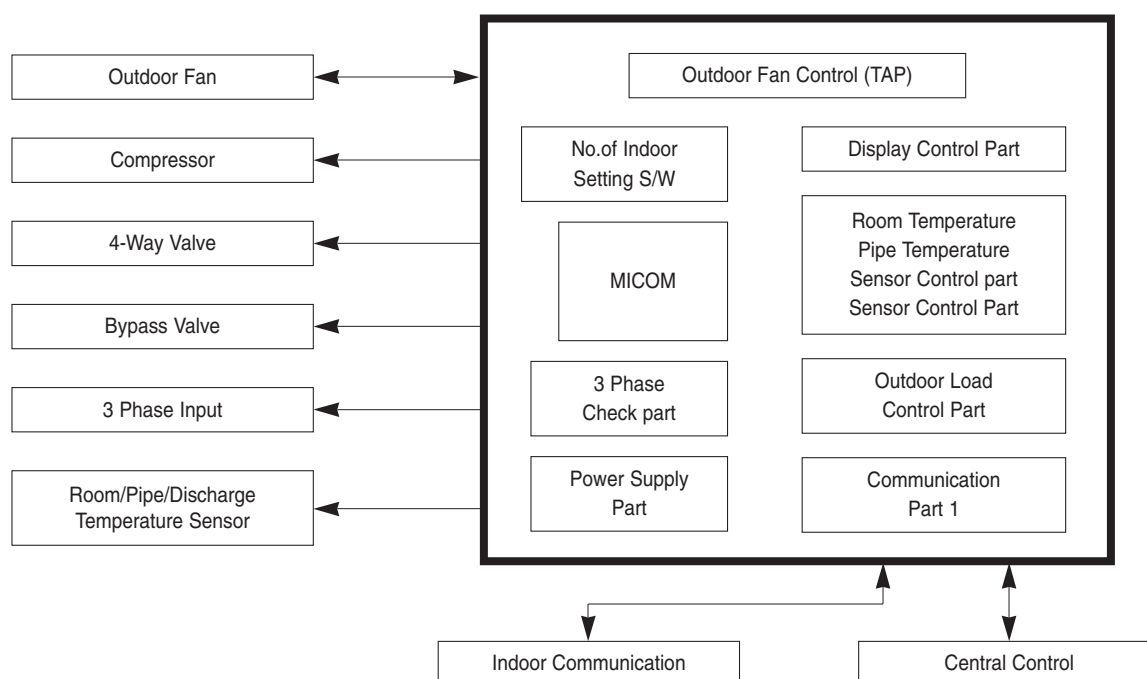
Note : E3 error should be released when indoor unit power is reset.

13. Block Diagram

13-1 Indoor Unit



13-2 Outdoor Unit



14. Reference Sheet

14-1 Index for Model Name

Model Code									
C H 0 7 0 E Z A /									
Product (I)		Mode		Capacity		Refrigerant		Product Classification (II)	
Indoor Unit	1Way	C/O	C	BTU	kw x10	R-22	Z	General Type	Indoor Unit
&	Cassette	H/P	H	9K	26	R407C	C	Universal (DPM)	Outdoor Unit
	4Way	H/P+Heater	E	12K	35	R410a	A		Outdoor Unit
General Outdoor Unit	Ceiling	C/O+Heater	G	14K	40				
	Silhouette	C/O+Hydronic	N	18K	52				
	HSP	H/P(Variable)	V	24K	70				
	Built-in	C/O(Variable)	W	28K	82				
Universal Outdoor Unit(DPM)	-			32K	94				
	PAC			36K	105				
	Split			44K	128				
				48K	140				
Power Spec		Power		Version		Buyer code		Derivation	
115V, 60Hz		A		Basic		SEC		None	
220V, 60Hz		B		Derivation		SSEC		C	
208~230V, 60Hz		C				TSC		T	
200~220V, 50Hz		D							
220~240V, 50Hz		E							
220V, 60Hz, 3 ϕ		F							
380~415V, 50Hz, 3 ϕ		G							
127V, 50Hz		M							
220~240V, 50/60Hz, 1 ϕ		N							
380V, 60Hz, 3 ϕ		H							

14-2 Refrigerant Pressure during the Charging

Outdoor Unit Temperature	Low Pressure kg/cm ² (PSIC)
Less than 20°C	4.5 ~ 4.7(64~67)
Less than 24°C	4.7 ~ 4.8(67~68)
Less than 28°C	4.8 ~ 4.9(68~70)
Less than 32°C	4.9 ~ 5.0(70~71)
Less than 36°C	5.0 ~ 5.1(71~73)
Less than 40°C	5.1 ~ 5.2 (73~74)
Less than 44°C	5.2 ~ 5.3 (74~75)

14-3 Pressure & Capacity mark

■ Power/Heat

W	cal/s	kcal/h	Btu/h	HP	kg·m/s	ib·m/s
1	0.23885	0.85985	3.4121	0.001341	0.10197	0.73756
4.1868	1	3.6	14.286	0.0056146	0.42693	3.088
1.163	0.27778	1	3.9683	0.0015596	0.11859	0.85778
0.29307	0.06999	0.252	1	3.9302x10 ⁻⁴	0.029885	0.21616
745.7	178.11	641.19	2,544.4	1	76.04	550
9.8067	2.3423	8.4322	33.462	0.013151	1	7.233
1.3558	0.32383	1.1658	4.6262	0.0018182	0.13826	1

14-4 Q & A for Non-trouble

Classification	Class	Description
Cooling	Q	The cooling is weak.
	A	When it is hot outside, its cooling capacity decreases due to the increase of the ambient temperature. When the dust filter gets blocked or warm outside air gets in, the cooling capacity will decrease. So, make sure to clean the dust filter frequently, prevent heat loss by closing the doors and insulate the cooling area by using curtains, blinds, shades or window tinting.
	Q	The cooling is good generally. But, it gets weak when it is considerably hot.
	A	It occurs when the outdoor unit is exposed to direct sun light and heat-up air is not ventilated well. So, set up a sunblind over the outdoor unit and keep stuff away from the unit to increase the ventilation. When the cooling capacity decreases during a heat wave, clean the heat exchanger of the outdoor unit or spray some cold water to the heat exchanger to increase the cooling capability.
	Q	The cooling is weak. Does it need refrigerant charging?
	A	It is not correct charging refrigerant regularly. Except that you have moved in several times or the connection pipes are broken, the refrigerant does not run low. So, when refrigerant is additionally charged, it could be costly and cause a product's failure. When the refrigerant leaks, all of it will escape in a short time resulting in cooling failure and no water coming out of the drain hose. So, if water comes out from the drain hose, it indicates the normal operation of the product and it does not need refrigerant charging.
	Q	It fails to do cooling.
	A	When the air conditioner is set to Ventilation or the desired temperature is set higher than the current temperature, it fails to do cooling. In this case, select Cooling or set the desired temperature lower.
Leakage	Q	It floods the floor.
	A	Place the drain hose properly. When it is not placed properly, the drain water would flow back flooding the floor. So, straighten out the drain hose for the water to be drained well.
	Q	Water drips at the drain connection (service valve) of the outdoor unit.
	A	When a glass bottle is taken out of the refrigerator, moisture gets condensed on its surface due to the temperature differences. The same principle applies to the air conditioner. When cold refrigerant goes through the copper tube, moisture gets condensed on the surface of the tube and the connection areas. To prevent the water condensation, the pipes are insulated. But, the connection areas of the outdoor unit are not insulated for the purpose of maintenance or repair, and water gets condensed due to the temperature differences and drips down. Generally, it evaporates right away. But, when it drips much during muggy days, put a water pan on the floor.
	Q	It leaks even though a drain pump is used.
	A	It occurs when the drain pump is plugged out or it is out of order. Check the power of the drain pump and the position of the drain hose, and when the pump is faulty, contact the drain pump manufacturer. Samsung Electronics do not manufacture drain pumps. So, we are not able to correct the drain pump problems.
Smells	Q	Whenever the air conditioner is turned on, it irritates my eyes and gives me a headache.
	A	There are no components in the air conditioner irritating the eyes and sending out chemical smells. But, when the air conditioner is turned on, other smell sources are sucked into the air conditioner and get out of it. So, find and root out the smell sources. Generally, it occurs at a interior renovated place, a pharmacy, a gasoline handling place, a tire shop, a second-hand book shop or an electronic

Classification	Class	Description
Smells		component handling place; when its chemical or musty smells are sucked in and sent out, it can be misled that the air conditioner generates them. So, find and root out the problem or refresh the room frequently.
	Q	Whenever the air conditioner is turned on, it stinks.
	A	There are no components in the air conditioner sending out chemical smells. But, when the air conditioner is turned on, other smell sources are sucked into the air conditioner and get out of it. So, find and root out the smell sources. Generally, when the drain hose is taken out to the washing room or there are sources of smells such as a diaper bin, a shoe shelf or a socks bin, bad smells generate. Also, it occurs where glass cleaners or air fresheners are used; when they are sucked in interacting with dusts and moistures inside, bad smells generate. These kinds of organic materials noxious to human bodies. So, we recommend against the use of them.
	Q	Whenever the air conditioner is turned on, it smells sour.
	A	When the room is papered recently, its paste smells would be sucked inside. Also, when the air conditioner is installed in the study room of young boys loving sweat-generating activities such as the basketball, excessive sweats evaporate and get sucked into the air conditioner resulting in bad smells. So, find and root out the problem or refresh the room frequently.
	Q	Whenever the air conditioner is turned on, it smells musty.
	A	It is due to the improper keeping of the product after its use. When keeping the product, dry up the inside with the operation of Ventilation to prevent must. When the product is kept without drying up the inside with Ventilation, mold would grow inside resulting in must. So, open the windows and switch on the Ventilation function to get rid of the saturated smell inside.
	Q	Whenever the air conditioner is turned on, it sends out bad smells such as stale smells.
	A	It occurs generally when there are pet animals in the house. Their smells stay at the same place. But, when the air conditioner is turned on, the air gets circulated resulting in the circulation of the smells. So, find and root out the problem or refresh the room frequently.
	Q	It sends out bad smells.
	A	When the air filter is filthy, it could send out bad smells. So, clean the filter and ventilate the room with the windows open while operating the Ventilation function.
Operation	Q	It won't start.
	A	There is a power failure or it is plugged out. Also, check if the power distribution panel is switched off.
	Q	It goes off during operation.
	A	When the hot air does not escape properly, it goes off during operation. It occurs when it does not ventilate properly because the outdoor unit is covered, the back of the outdoor unit is blocked by a cardboard or a plywood panel, and the front of the outdoor unit is blocked by the closed window or other obstacles. Clear the above obstacles from the outdoor unit.
	Q	It generally works properly. But, when it's considerably hot, it goes off during operation.
	A	It occurs when the outdoor unit is exposed to direct sunlight and the hot air does not escape properly. Set up a sun blind over the outdoor unit and clear the neighboring obstacles from the outdoor unit to provide good ventilation. When it goes off frequently during a heat wave, it would prevent the turn-off and increase the cooling capacity cleaning the outdoor unit or spraying some water to the heat exchanger.

Q & A for Non-trouble (cont.)

Classification	Class	Description
Operation	Q	The remote controller won't operate.
	A	When the batteries run out or the transmitter or receiver of the remote controller is blocked by obstacles, change the batteries or keep the obstacles away from the controlling area. Also, the remote controller may not work under intensive light from a 3-wavelength lamp or a neon sign due to the EMI. In this case, take the remote controller closer to the receiver.
Installation	Q	Who installs the air conditioner? (Relocation/Re-installation)
	A	When relocating or re-installing the air conditioner, make sure to contact Samsung Electronics Service Center or Authorized Service Agent and have them to do the job. (If not, it could cause personal injury or product damage.) The cost for the relocation/re-installation of the air conditioner is subject to the customer's expense. There is a cost table. But, our service engineer needs to visit to total up the cost correctly. When you move in, make sure to contact Samsung Electronics Service Center or Authorized Service Agent in advance to streamline the process.
	Q	Is it possible to install the outdoor unit outside?
	A	It is possible to install it at a designated place in the apartment or on the rooftop nearby. But, it's illegal hanging an angle iron case with the outdoor unit in it outside the apartment. Also, it is illegal obstructing passers-by with the outdoor unit installed outside.
	Q	What can be done to install the outdoor unit facing the road because it is a commercial building?
	A	The following is an excerpt from Building Code going into effect from JUNE 1st 2005. "The exhaust pipe of a cooling or ventilation facility installed in a building adjacent to the streets of commercial or residential areas shall be installed higher than 2 m to prevent the exhaust air from blowing directly to passers-by and the current facilities shall be corrected by MAY 31st 2005." So, please install it higher than 2 m or not to blow the hot exhausting air directly to passers-by.
	Q	What about installing a windscreen during installation not to blow hot air directly to passers-by?
	A	When the hot air from the front of the outdoor unit is blocked, the product's performance will be affected and it will fail to operate properly. So, keep it at least 300mm away from its surrounding walls and give it good ventilation.

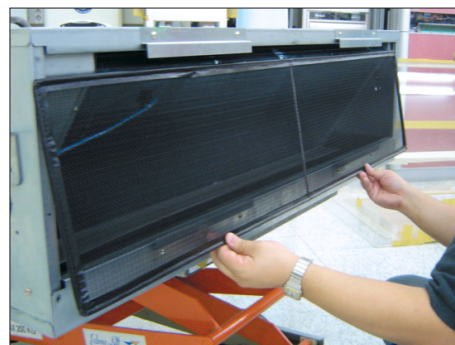
14-5 Cleaning your Air Conditioner

For the best use of your air conditioner, you must clean it regularly to remove the dust accumulated on the air filter.

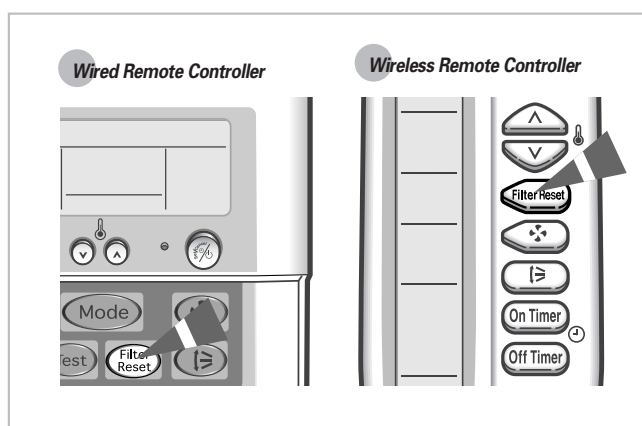


- Before cleaning your air conditioner, check if you have turned off the circuit breaker.

1. Bend air filter wire and push upward.
2. Pull out the air filter in the direction of the arrow.
3. Remove all dust on air filter with a vacuum cleaner or a brush. In case of serious dust accumulation, put the air filter in warm detergent water and shake it vertically.
4. Dry the air filter.
5. When you have finished, insert the filter into the unit.
6. Clean the outdoor unit with a vacuum cleaner or a brush once a month.



Note : • After cleaning the air conditioner, press the Filter Reset button.



14-6 Installation

14-6-1 Before Installation

Keep the air conditioner outlet and inlet free from its surroundings.

In case of installation, keep the symmetry and fix it to prevent vibration.

The pipe length shall meet the standard as far as possible.

14-6-2 Installation Procedure

■ Location

Install the product in an area to guarantee the best cooling effect, convenience of piping and electric work, and inexistence of vibration or wind.

■ Fixing Indoor Unit & Outdoor Unit

Fix the air conditioner indoor unit securely to the ceiling. Secure the outdoor unit in a suitable position.

■ Pipe Spooling & Connecting

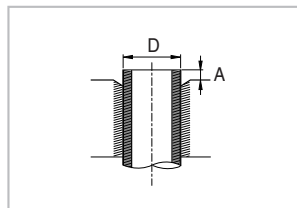
You shall cut the pipe with a pipe cutter and grind all the burrs of the cut surface.

Pipe expansion may continue until the pipe surface becomes uneven or torn apart.

Be sure to use a torque wrench to tighten pipes or flare nuts.

<Torque & Depth>

Outer Diameter(D)	Torque(kgf·cm)	Depth(A)
9.52mm(3/8")	250~280	1.8mm
19.05mm(3/4")	990~1,210	2.2mm



■ Leak Test

Put an inert gas like nitrogen in the outdoor unit pipe and put soap bubbles or other test liquids on the pipe surface for the leak test.

■ Drain Hose Connecting

Install the drain hose downward to drain water naturally.

■ Testing Drainage

Pure water into the drain pan in the indoor unit, and confirm that the water flows out the drain hose.

■ Electric & Earth Work

Electric and earth work shall meet the "Electric Facility Technology Standard" and the "Internal Wire Regulation" of the Electric Business Laws.

■ Inspection & Trial Run

Upon completion of the tests, you shall make a trial run while you explain the main functions of the air conditioner to finish the installation.

14-7 Installation Diagram of Indoor Unit and Outdoor Unit

14-7-1 Air-Purge Procedure

- 1) Connect each assembly pipe to the appropriate valve on the outdoor unit and tighten the flare nut.



- 2) Connect the charging hose of low pressure side of manifold gauge to the packed valve having a service port (3/8" Packed valve) as shown at the figure.



- 3) Open the valve of the low pressure side of manifold gauge counter-clockwise.



- 4) Purge the air from the system using vacuum pump for about 10 minutes.
 - After that, please recheck that pressure is stabilized.
 - Close the valve of the low pressure side of manifold gauge clockwise.
 - Remove the hose of the low pressure side of manifold gauge.



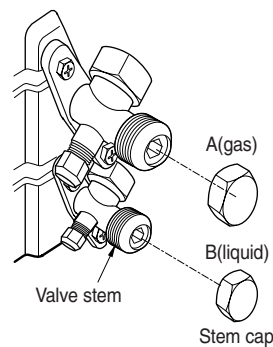
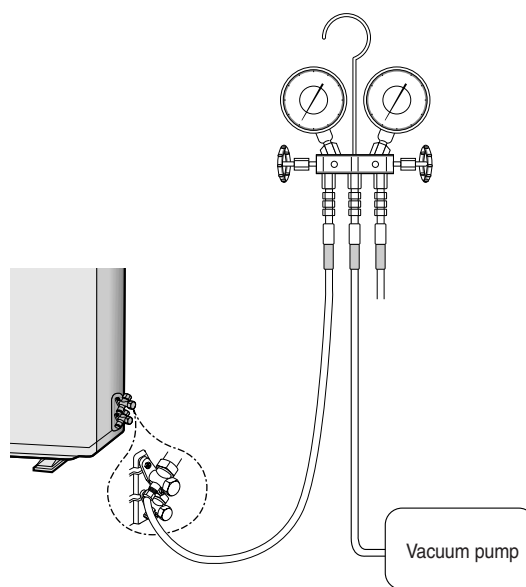
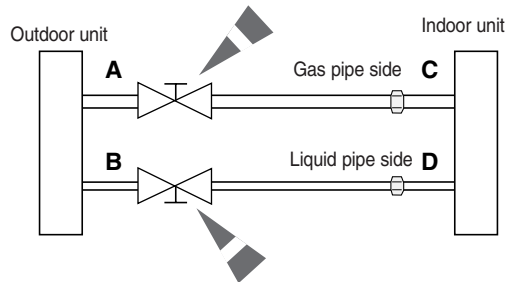
- 5) Set valve cork of both liquid side and gas side of packed valve to the open position.



- 6) Mount the valve stem nuts and the service port cap to the valve, and tighten them at the torque of 183kgf·cm with a torque wrench.



- 7) Check for gas leakage.
 - At this time, especially check for gas leakage from the 3-Way valve's stem nuts, and from the service port cap.



14-7-2 "Pump down" Procedure

Pump down will be carried out when an evaporator is replaced or when the unit is relocated in another area.

- 1) Remove the caps from the 3-Way valve.



- 2) Turn the 3-Way valve clockwise to close and connect a pressure gauge (low pressure side) to the service valve, and open the 3-Way valve again.



- 3) Set the unit to cool operation mode.
(Check if the compressor is operating.)



- 4) Turn the 3-Way valve clockwise to close.



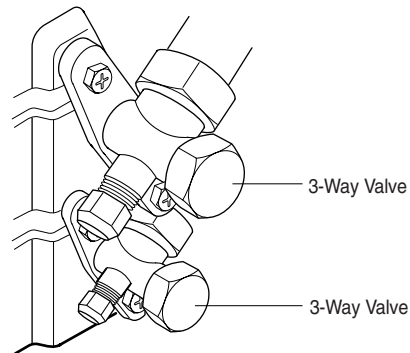
- 5) When the pressure gauge indicates "0" turn the 3-Way valve clockwise to close.



- 6) Stop operation of the air conditioner.



- 7) Close the cap of each valve.



Remarks

Relocation of the air conditioner

- Refer to this procedure when the unit is relocated.
- Carry out the pump down procedure (refer to the details of 'pump down').
- Remove the power cord.
- Disconnect the assembly cable from the indoor and outdoor units.
- Remove the flare nut connecting the indoor unit and the pipe.
- At this time, cover the pipe of the indoor unit and the other pipe using a cap or vinyl plug to avoid foreign material entering.
- Disconnect the pipe connected to the outdoor unit.
At this time, cover the valve of the outdoor unit and the other pipe using a cap or vinyl plug to avoid foreign material entering.
- Make sure you do not bend the connection pipes in the middle and store together with the cables.
- Move the indoor and outdoor units to a new location.



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Printed in Korea.
Code No. DB98-27685A(1)