



ROOM AIR CONDITIONER

INDOOR UNIT

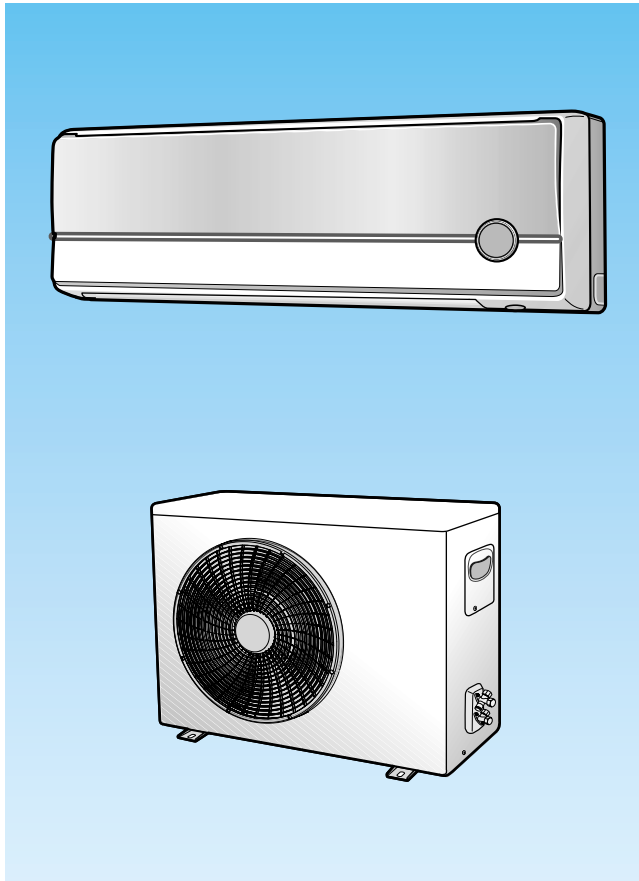
SH07ZP2
SH07ZP2A
SH09ZP2
SH09ZP2A
SH12ZP4
SH12ZP4A
AQ07P2GE
AQ09P2GE
AQ12P4GE
AQT12P4GB
AQT12P4GE

OUTDOOR UNIT

SH07ZP2X
SH07ZP2AX
SH09ZP2X
SH09ZP2AX
SH12ZP4X
SH12ZP4AX
UQ07P2GE
UQ09P2GE
UQ12P4GE
UQT12P4GB
UQT12P4GE

SERVICE *Manual*

AIR CONDITIONER



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1. Product Specifications

1-1 Table

Item				Model	SH07ZP2		SH09ZP2		SH12ZP4	
					Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit
Type				Wall-mounted		Wall-mounted		Wall-mounted		
Performance	Capacity () : RUSSIA, CIS	Cooling	-	2.20kW		2.60kW		3.50kW		
				(7,500 BTU/h)		(8,990 BTU/h)		(11,990 BTU/h)		
		Heating		2.30kW		2.90kW		3.80kW		
				(7,800 BTU/h)		(8,990 BTU/h)		(11,990 BTU/h)		
	Dehumidifying		ℓ/h	0.9		1.4		1.9		
	Air Volume		m³/min	6.5	24	7.0	24	8.2	24	
	Noise		dB	36	50	40	51	43	53	
	Energy Efficiency Ratio	Cooling	W/W	3.24		2.89		3.04		
		Heating		3.65		3.41		3.45		
	Power		V-Hz	1-220 / 240-50		1-220 / 240-50		1-220 / 240-50		
Power	Power Consumption	Cooling	W	680		900		1,150		
		Heating		630		850		1,100		
	Operating Current	Cooling	A	3.0		4.0		5.1		
		Heating		2.8		3.8		5.0		
	Power Factor	Cooling	%	98.6		97.8		98.0		
		Heating		97.8		97.3		96.5		
	Starting Current		A	21.0		21.0		32.0		
	Power Cord	Length		m	-		-		-	
		Number of Core Wire		-		-		-		
		Capacity		A	250V-10 / 16A		250V-10 / 16A		250V-10 / 16A	
Size	Outer Dimension	W x H x D	mm	795x258x179	660x495x235	795x258x179	660x495x235	890x285x179	720x530x260	
			inch	31.3x10.2x7.0	26.0x19.5x9.3	31.3x10.2x7.0	26.0x19.5x9.3	35.0x11.2x7.0	28.3x20.9x10.2	
	Weight		kg	7.5	22.5	7.5	26.5	8.5	33.0	
	Refrigerant Pipe	Liquid	mm x L(m)	ø6.35 x 5		ø6.35 x 5		ø6.35 x 5		
		GAS	mm x L(m)	ø9.52 x 5		ø9.52 x 5		ø12.7 x 5		
	Drain Hose		D x L(mm)	ø18 x 2,000		ø18 x 2,000		ø18 x 2,000		
	Compressor	Type		Rotary		Rotary		Rotary		
		Motor	Type	-	-	-	-	-	-	
			Rated Output		-	-	-	-	-	-
	Blower	Type		Cross-flow	Propeller	Cross-flow	Propeller	Cross-flow	Propeller	
		Motor	Type	steel	steel	steel	steel	steel	steel	
			Rated Output		W	11	25	11	25	15
Heat Exchanger				2ROW 10STEP	1ROW 18STEP	2ROW 10STEP	1ROW 18STEP	2ROW 12STEP	1ROW 20STEP	
Refrigerant Control Unit				CAPILLARY TUBE		CAPILLARY TUBE		CAPILLARY TUBE		
Freezer Oil Capacity			cc	290		350		410		
Refrigerant to Change(R22)			g	680		680		800		
Protection Device(OLP)				MRA99137-9201		MRA98776		Internal		
Cooling Test Condition				INDOOR UNIT : DB27℃ WB19℃		OUTDOOR UNIT : DB35℃ WB24℃				
Maximum Operation Condition				INDOOR UNIT : DB32℃ WB23℃		OUTDOOR UNIT : DB43℃ WB26℃				

Table(cont.)

Item				Model	SH07ZP2A		SH09ZP2A		SH12ZP4A	
					Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit
Type				Wall-mounted		Wall-mounted		Wall-mounted		
Performance	Capacity () : RUSSIA, CIS	Cooling	-	2.30kW (7,500BTU/h)		2.65kW (8,990BTU/h)		3.50kW (11,990BTU/h)		
		Heating		2.40kW (7,800BTU/h)		2.90kW (8,990BTU/h)		3.80kW (11,990BTU/h)		
	Dehumidifying		ℓ/h	0.9		1.4		1.9		
	Air Volume		m³/min	6.5	24	7.0	24	8.2	24	
	Noise		dB	36	50	39	51	43	53	
	Energy Efficiency Ratio	Cooling	W/W	3.15		2.82		3.04		
		Heating		3.53		3.30		3.45		
	Power		V-Hz	1-220/240-50		1-220/240-50		1-220/240-50		
Power	Power Consumption	Cooling	W	730		940		1,150		
		Heating		680		880		1,100		
	Operating Current	Cooling	A	3.3		4.3		5.1		
		Heating		3.1		4.0		5.0		
	Power Factor	Cooling	%	96.2		95.0		98.0		
		Heating		95.4		95.7		95.7		
	Starting Current		A	21.0		21.0		32.0		
	Power Cord	Length	m	-		-		-		
			Number of Core Wire		-		-		-	
			Capacity	A	250V-10/16A		250V-10/16A		250V-10/16A	
Size	Outer Dimension	W x H x D	mm	795x258x179	660x495x235	795x258x179	660x495x235	890x285x179	720x530x260	
			inch	31.3x10.2x7.0	26.0x19.5x9.3	31.3x10.2x7.0	26.0x19.5x9.3	35.0x11.2x7.0	28.3x20.9x10.2	
	Weight		kg	7.5	26.0	7.5	26.5	8.5	33.0	
	Refrigerant Pipe	Liquid	mm x L(m)	ø6.35 x 5		ø6.35 x 5		ø6.35 x 5		
		GAS	mm x L(m)	ø9.52 x 5		ø9.52 x 5		ø12.7 x 5		
	Drain Hose		D x L(mm)	ø18 x 2,000		ø18 x 2,000		ø18 x 2,000		
	Compressor	Type		Rotary		Rotary		Rotary		
		Motor	Type	-	-	-	-	-	-	
			Rated Output	-	-	-	-	-	-	
	Blower	Type		Cross-Flow	Propeller	Cross-Flow	Propeller	Cross-Flow	Propeller	
		Motor	Type	steel	steel	steel	steel	steel	steel	
			Rated Output	W	15	25	15	25	15	25
Heat Exchanger				2ROW 10STEP	1ROW 18STEP	2ROW 10STEP	1ROW 18STEP	2ROW 12STEP	1ROW 20STEP	
Refrigerant Control Unit				CAPILLARY TUBE		CAPILLARY TUBE		CAPILLARY TUBE		
Freezer Oil Capacity			cc	360		360		600		
Refrigerant to Change(R22)			g	630		600		800		
Protection Device(OLP)				RAC12144-9622		RAC12110-9622		RAC12074-9622		
Cooling Test Condition				INDOOR UNIT : DB27°C WB19°C		OUTDOOR UNIT : DB35°C WB24°C				
Maximum Operation Condition				INDOOR UNIT : DB32°C WB23°C		OUTDOOR UNIT : DB43°C WB26°C				

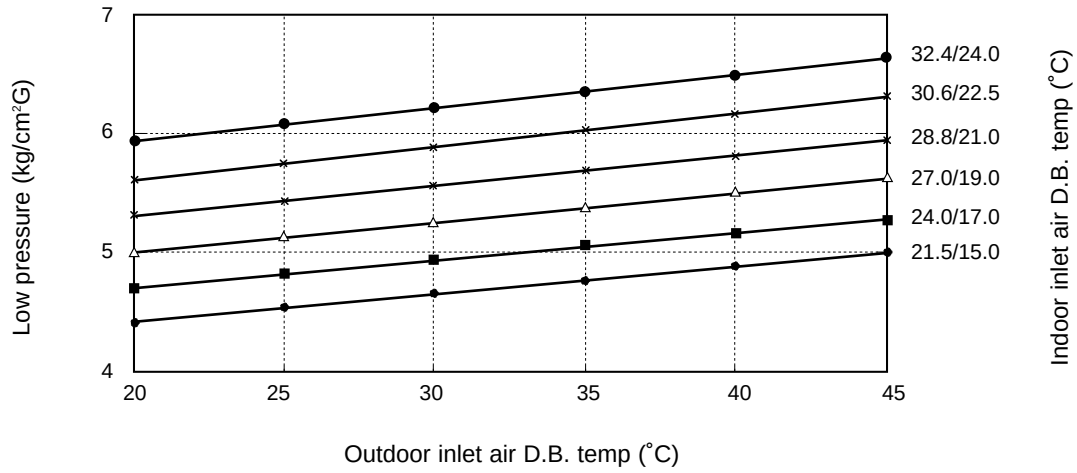
Item				Model	AQ07P2GE		AQ09P2GE		AQ12P4GE	
					Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit
Type				Wall-mounted		Wall-mounted		Wall-mounted		
Performance	Capacity	Cooling	BTU/h	7,500		9,000		12,000		
		Heating		7,800		10,000		13,000		
	Dehumidifying			ℓ/h	0.9		1.4		1.9	
	Air Volume			m³/min	6.5	24	7.0	24	8.2	24
	Noise			dB	36	50	39	51	43	53
	Energy Efficiency Ratio	Cooling	BTU/W·h	10.3		9.57		10.4		
		Heating		11.5		11.4		11.8		
	Power			V-Hz	1-220/240-50		1-220/240-50		1-220/240-50	
	Power Consumption	Cooling	W	730		940		1,150		
		Heating		680		880		1,100		
Power	Operating Current	Cooling	A	3.3		4.3		5.1		
		Heating		3.1		4.0		5.0		
	Power Factor	Cooling	%	96.2		95.0		98.0		
		Heating		95.4		95.7		95.7		
	Starting Current			A	21.0		21.0		32.0	
	Power Cord	Length	m	-		-		-		
		Number of Core Wire		-		-		-		
		Capacity	A	250V-10/16A		250V-10/16A		250V-10/16A		
	Outer Dimension	W x H x D	mm	795x258x179	660x495x235	795x258x179	660x495x235	890x285x179	720x530x260	
			inch	31.3x10.2x7.0	26.0x19.5x9.3	31.3x10.2x7.0	26.0x19.5x9.3	35.0x11.2x7.0	28.3x20.9x10.2	
Size	Weight			kg	7.5	26.0	7.5	26.5	8.5	33.0
	Refrigerant Pipe	Liquid	mm x L(m)	ø6.35 x 5		ø6.35 x 5		ø6.35 x 5		
		GAS	mm x L(m)	ø9.52 x 5		ø9.52 x 5		ø12.7 x 5		
	Drain Hose			D x L(mm)	ø18 x 2,000		ø18 x 2,000		ø18 x 2,000	
	Compressor	Type		Rotary		Rotary		Rotary		
		Motor	Type	-	-	-	-	-	-	
			Rated Output	-	-	-	-	-	-	
	Blower	Type			Cross-Flow	Propeller	Cross-Flow	Propeller	Cross-Flow	Propeller
		Motor	Type		steel	steel	steel	steel	steel	steel
			Rated Output	W	15	25	15	25	15	25
Heat Exchanger				2ROW 10STEP	1ROW 18STEP	2ROW 10STEP	1ROW 18STEP	2ROW 12STEP	1ROW 20STEP	
Refrigerant Control Unit				CAPILLARY TUBE		CAPILLARY TUBE		CAPILLARY TUBE		
Freezer Oil Capacity			cc	360		360		600		
Refrigerant to Change(R22)			g	630		600		800		
Protection Device(OLP)				RAC12144-9622		RAC12110-9622		RAC12074-9622		
Cooling Test Condition				INDOOR UNIT : DB27℃ WB19℃		OUTDOOR UNIT : DB35℃ WB24℃				
Maximum Operation Condition				INDOOR UNIT : DB32℃ WB23℃		OUTDOOR UNIT : DB43℃ WB26℃				

Table(cont.)

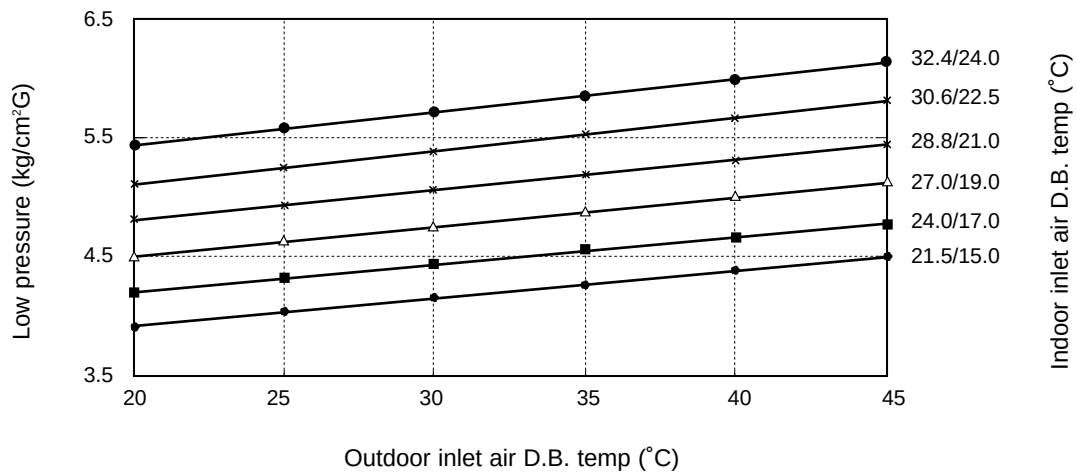
Item				Model	AQT12P4GB		AQT12P4GE	
					Indoor unit	Outdoor unit	Indoor unit	Outdoor unit
Type				Wall-mounted		Wall-mounted		
Performance	Capacity	Cooling	BTU/h	12,000		12,000		
		Heating		13,000		13,000		
		SASO		10,500		-		
	Dehumidifying		ℓ/h	1.9		1.9		
	Air Volume		m³/min	8.2	2.4	8.2	2.4	
	Noise		dB	43	53	43	53	
	Energy Efficiency Ratio	Cooling	BTU/W·h	10.0		10.0		
		Heating		10.5		11.0		
		SASO		7.44		-		
	Power		V-Hz	1-220-60		1-220/240-50		
Power	Power Consumption	Cooling	W	1,200		1,200		
		Heating		1,240		1,180		
		SASO		1,410		-		
	Operating Current	Cooling	A	5.5		5.3		
		Heating		5.7		5.2		
		SASO		6.5		-		
	Power Factor	Cooling	%	99.2		98.4		
		Heating		98.9		98.7		
		SASO		98.6		-		
	Starting Current		A	32.0		32.0		
Power Cord	Length	m	-		-			
	Number of Core Wire		-		-			
	Capacity	A	250V-10/16A		250V-10/16A			
Size	Outer Dimension	W x H x D	mm	890x285x179	720x530x260	890x285x179	720x530x260	
			inch	35.0x11.2x7.0	28.3x20.9x10.2	35.0x11.2x7.0	28.3x20.9x10.2	
	Weight		kg	8.5	33.0	8.5	33.0	
	Refrigerant Pipe	Liquid	mm x L(m)	ø6.35 x 5		ø6.35 x 5		
		GAS	mm x L(m)	ø12.7 x 5		ø12.7 x 5		
	Drain Hose		D x L(mm)	ø18 x 2,000		ø18 x 2,000		
	Compressor	Type		Rotary		Rotary		
		Motor	Type	-	-	-	-	
			Rated Output	-	-	-	-	
	Blower	Type		Cross-Flow	Propeller	Cross-Flow	Propeller	
Motor		Type	steel	steel	steel	steel		
		Rated Output	W	15	25	15	25	
Heat Exchanger				2ROW 12STEP	2ROW 24STEP	2ROW 12STEP	2ROW 24STEP	
Refrigerant Control Unit				CAPILLARY TUBE		CAPILLARY TUBE		
Freezer Oil Capacity			cc	600		410		
Refrigerant to Change(R22)			g	960		940		
Protection Device(OLP)				RBC12107-12500		RBC12050-12500		
Cooling Test Condition				INDOOR UNIT : DB27°C WB19°C		OUTDOOR UNIT : DB35°C WB24°C		
Maximum Operation Condition				INDOOR UNIT : DB32°C WB23°C		OUTDOOR UNIT : DB43°C WB26°C		

1-2 Pressure Graph

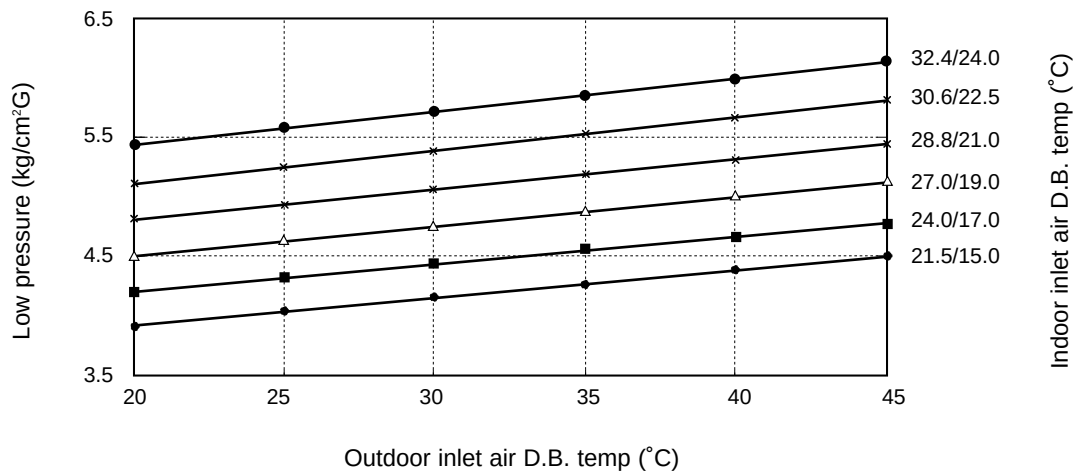
■ 7K BTU



■ 9K BTU

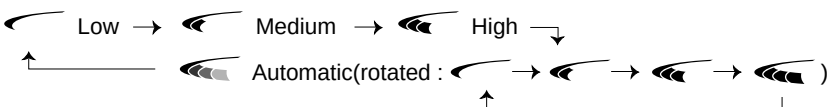


■ 12K BTU



2. Operating Instructions

2-1 The Feature of Key in remote control

No	NAMED OF KEY	FUNCTION OF KEY
1	 (On/Off)	On/Off button. Press the  button to stop or run the air conditioner.
2	 (UP)	Temperature adjustment button(UP). To increase the temperature by the pressing the temperature button.
	 (DOWN)	Temperature adjustment button(DOWN). To decrease the temperature by the pressing the temperature button.
3	Mode 	Mode selection button. Each time you press this button Mode is changed in the following order  : Auto Mode  : Cool Mode  : Dry Mode  : Fan Only  : Heat Mode 
4		Fan speed adjustment button. Each time you press this button, FAN SPEED is changed in the following order. 
5		Swing button. It adjusts the airflow to upward and downward.
6		Turbo button. The air conditioner cools or heats the room as quickly as possible. After 30minutes, the air conditioner is reset automatically to the previous mode.
7		Energy saving button. If you wish to save energy when using your air conditioner, select the Energy saving mode with the  button.
8		Sleep button. The sleep timer can be used when you are cooling or heating your room to switch the air conditioner off automatically after a period of 6 hours.

No	NAMED OF KEY	FUNCTION OF KEY
9		Anion button. Press the  button to generate ion from the air conditioner.
10		On Timer button. The On Timer enables you to switch on the air conditioner automatically after a given period of time that is from 30 minutes to 24 hours. To set the operating time, press the  button one or more times until the required time display.
11		Off Timer button. The Off Timer enables you to switch off the air conditioner automatically after a given period of time that is from 30 minutes to 24 hours. To set the operating time, press the  button one or more times until the required time display.
12		Timer Set/Cancel button. After setting On Timer or Off Timer, press the  button to set it completely. And press the  button again to cancel On Timer or Off Timer set.
13		Digital <i>i</i> On/Off button. If you want to turn off the display during operation press the  button.

2-1-1 Name & Function of Key in remote control

1. AUTO MODE : In this mode, operation mode(COOL, HEAT) is selected automatically by the room temperature of initial operation.

Room Temp	Operation Type
$T_r \geq 21^{\circ}\text{C} + \Delta T$	Cool Operation (Set Temp: $24^{\circ}\text{C} + \Delta T$)
$21^{\circ}\text{C} + \Delta T > T_r$	Heat Operation (Set Temp: $22^{\circ}\text{C} + \Delta T$)

$\Delta T = -1^{\circ}\text{C}, -2^{\circ}\text{C}, 0^{\circ}\text{C}, +1^{\circ}\text{C}, +2^{\circ}\text{C}$

ΔT is controlled by setting temperature up/down key of remote control

2. COOL MODE : The unit operates according to the difference between the setting and room temperature. ($18^{\circ}\text{C} \sim 30^{\circ}\text{C}$)

3. HEAT MODE : The unit operates according to the difference between the setting and room temperature. ($16^{\circ}\text{C} \sim 30^{\circ}\text{C}$)

*Prevention against cold wind : In order to prevent the cool air from flowing out at the heat mode, the indoor fan does not operate or operates very slowly in the following cases. At this time, the indoor heat exchanger will be preheating.

- For 3~5 minutes after the initial operation
- For deicing operation
- The operation of an indoor fan in accordance with the temperature of an indoor heat exchanger

The temperature of indoor heat exchanger	Indoor fan speed
below 28°C	off
$28^{\circ}\text{C} \sim \text{below } 34^{\circ}\text{C}$	LL Speed
$34^{\circ}\text{C} \sim \text{below } 40^{\circ}\text{C}$	L Speed
above 40°C	Setting Speed

*High temperature release function : It is a function to detect an outdoor overload by the sensor of an indoor heat exchanger and to turn the outdoor fan or the compressor ON/OFF for safety.

*Deice : Deicing operation is controlled by indoor unit's heat exchanger temperature and accumulating time of compressor's operation.

Deice ends by sensing of the processing time by deice condition.

4. DRY MODE : Has 3 states, each determined by room temperature.

The unit operates in DRY mode.

*Compressor ON/OFF Time is controlled compulsorily (can not set up the fan speed, always breeze).

*Protective function : Low temperature release. (Prevention against freeze)

5. TURBO MODE : This mode is available in AUTO, COOL, HEAT, DRY, FAN MODE.

When this button is pressed at first, the air conditioner is operated "powerful" state for 30 minutes regardless of the set temperature, room temperature.

When this button is pressed again, or when the operating time is 30 minutes, turbo operation mode is canceled and returned to the previous mode.

*But, if you press the TURBO button in DRY or FAN mode that is changed with AUTO mode automatically.

6. SLEEP MODE : Sleep mode is available only in COOL or HEAT mode.

The operation will stop after 6 hours.

*In COOL mode : The setting temperature is automatically raised by 1°C each 1hour When the temperature has been raised by total of 2°C , that temperature is maintained.

*In HEAT mode : The setting temperature is automatically dropped by 1°C each 1hour.

When the temperature has been dropped by total of 2°C , that temperature is maintained.

7. FAN SPEED : Manual (3 step), Auto (4 step)

Fan speed automatically varies depending on both the difference between setting and the room temperature.

8. COMPULSORY OPERATION :

For operating the air conditioner without the remote control.

*The air conditioner starts up in the most suitable mode for the room temperature:

Room Temperature	Operating Mode	Temperature Setting
Less than 21°C	Heat	22°C approx.
21°C or above	Cool	24°C approx.

9. SWING : BLADE-H is rotated vertically by the stepping motor.

*Swing Set : Press the  button under the remote control is displayed on LCD the  and the blades move up and down. If the one more time press the  button, blades location is stop.

10. SETTING THE ON/OFF TIMER. :

*ON TIMER : The On Timer enables you to switch on the air conditioner automatically after a given period of time. You can set the period of time from 30 minutes to 24 hours.

*OFF TIMER : The Off Timer enables you to switch off the air conditioner automatically after a given period of time. You can set the period of time from 30 minutes to 24 hours.

11. GENERATING ANION :

The air conditioner can generate anion with an ionizer in the indoor unit.

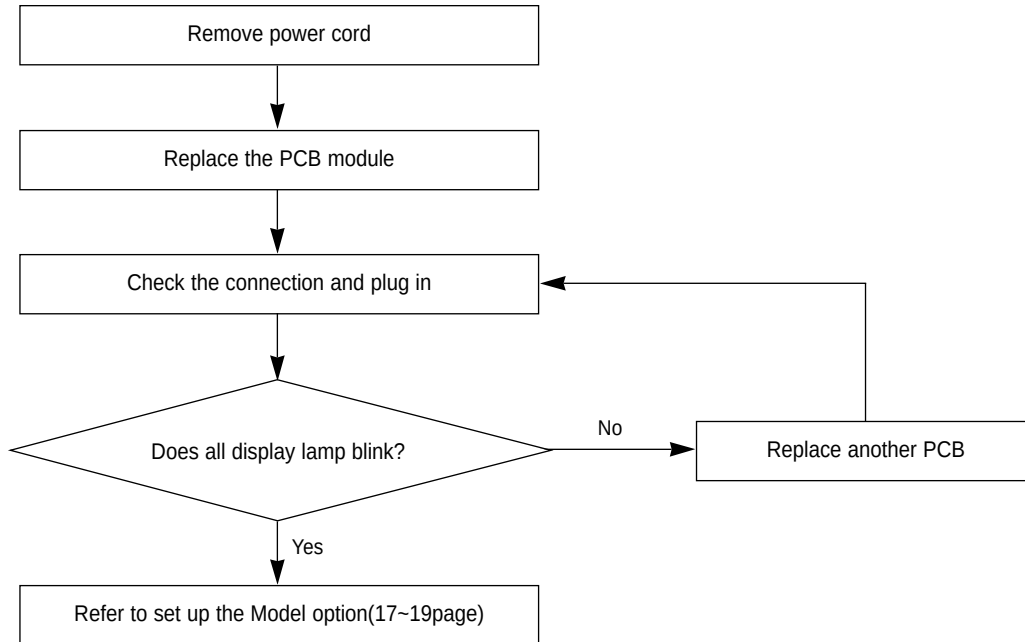
12. SELF DIAGNOSIS

Error Mode	DISPLAY 7-SEGMENT		Remark
	Operation Off	Operation On	
Indoor unit room temperature sensor error (open or short)	OFF	E1	
Indoor unit heat exchanger temperature sensor error(open or short)	OFF	E2	
Indoor FAN MOTOR error : Keep the RPM value 450 below for 15 seconds	OFF	E3	
EEPROM error	OFF	E6	
Error in option In case of No option set-up In case of option data error	All lamp blinking	All lamp blinking	

13. BUZZER SOUND : Whenever the On/Off button is pressed or whenever change occurs to the condition which is set up or select, the compulsory operation mode, buzzer is sounded "beep".

2-2 Replace PCB Model option

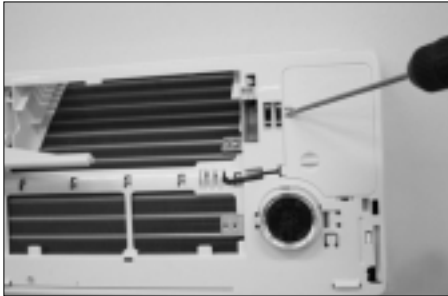
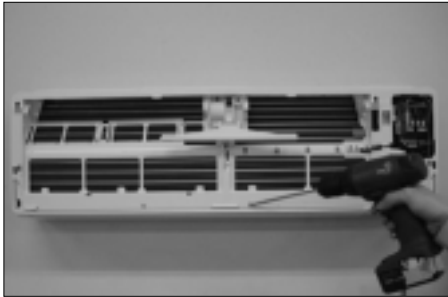
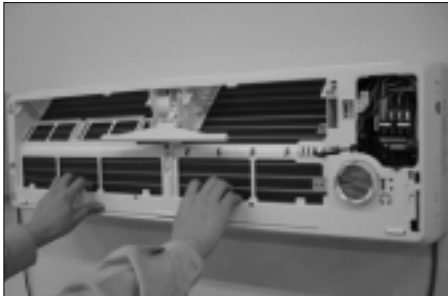
2-2-1 Replace PCB model option

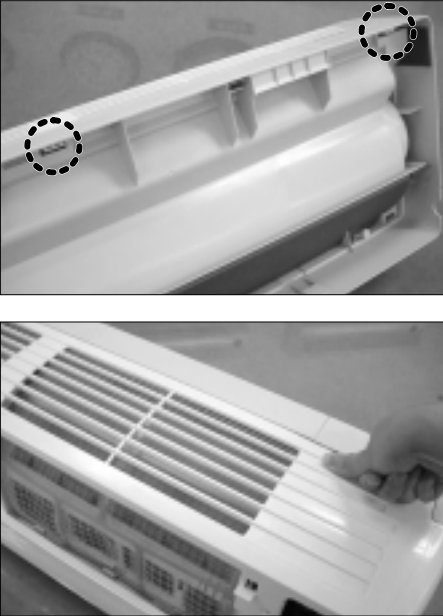
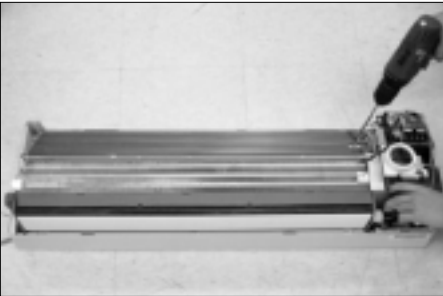


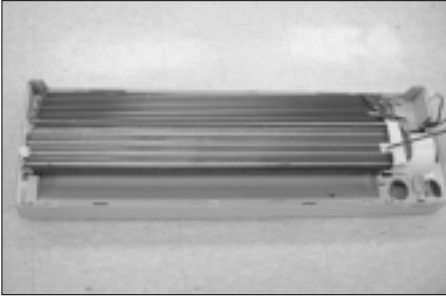
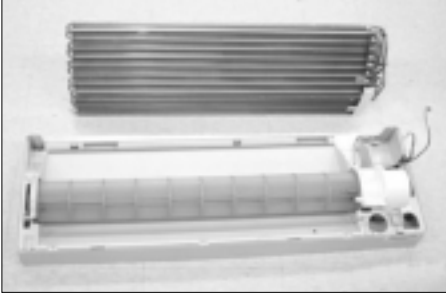
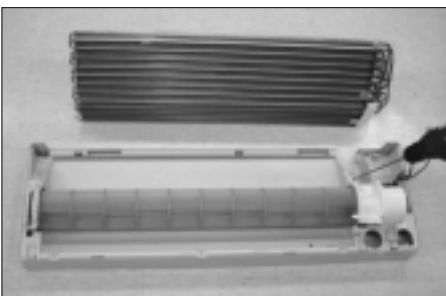
3. Disassembly and Reassembly

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

3-1 Indoor Unit

No	Parts	Procedure	Remark
1	Front Panel	1) Stop the air conditioner operation and block the main power. 2) Separate tape of Front Panel upper. 3) Slide the lower Front Grille down, then disassemble it by pulling it forwards. 4) Open the upper Front Grille by pulling right and left sides of the Grille. 5) Take the left and right Filter out. 6) Loosen one of the right screw and detach the Terminal Cover. 7) Detach the thermistor from the Front Grille. 8) Loosen 5 fixing screws of Front Grille. 9) Pull the lower left and right of discharge softly for the outside cover to be pulled out.	   

No	Parts	Procedure	Remark
		10) At first, press the left and center hook of the back side of the Panel Grille with the thumb to remove the hook. And press the right of the upper side of the Panel Grille with the fingers. And then disassemble the Panel Grille.	
2	Electrical Parts (Main PCB)	1) Take all the connector of PCB upper side out.(Including Power Cord) 2) Detach the outdoor unit connection wire from the Terminal Block. 3) If pulling the main PCB up, it will be taken out.	
3	Tray Drain	1) Pull Tray Drain out from the Back Body.	

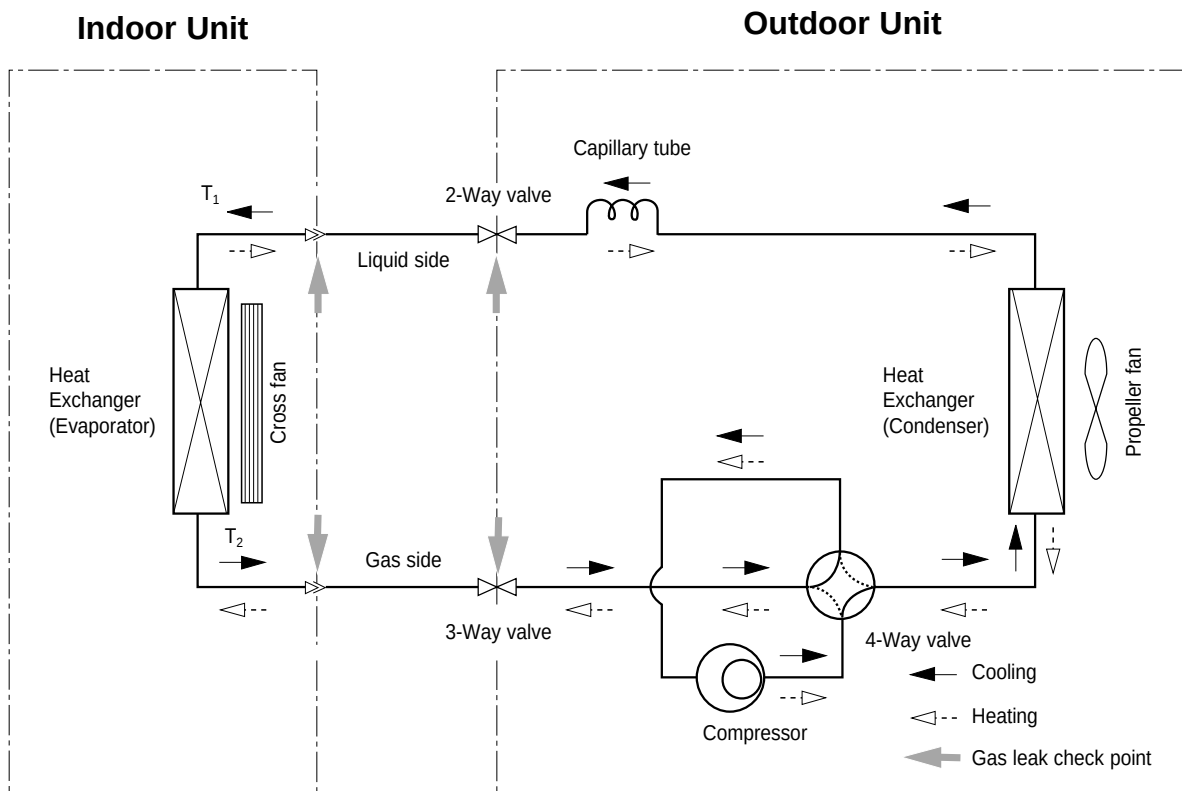
No	Parts	Procedure	Remark
4	Heat Exchanger	1) Loosen 2 fixing earth screws of right side. 2) Detach the Connection Pipe. 3) Detach the Holder Pipe at the rear side. 4) Loosen 3 fixing screws of right and left side. 5) Detach the Heat Exchanger from the indoor unit.	  
5	Fan Motor & Cross Fan	1) Loosen 2 fixing screws and separate the Motor Holder. 2) Loosen 1 fixing screw of Fan Motor. (with a M3 wrench) 3) Detach the Fan Motor from the Fan. 4) Detach the Fan from the left Holder Bearing.	 

3-2 Outdoor Unit

No	Parts	Procedure	Remark
1	Common Work	1) Loosen 1 fixing screw and detach the Cover Terminal. 2) Loosen 1 fixing screw and detach the Cover Control. 3) Detach the connection wire from the Terminal Block. 4) Loosen 13 fixing screws and detach the Cabinet-Front. 5) Loosen 1 fixing screw of Ass'y E-part. 6) Loosen 4 fixing screws and detach the Cabinet-Side.	    

No	Parts	Procedure	Remark
2	Fan & Motor	1) Detach the Nut Flange (Turn to the clock-wise). 2) Detach the Fan. 3) Loosen 4 fixing screws to detach the Motor. 4) Loosen 5 fixing screws and detach the Motor Bracket from the Base.	 
3	Heat Exchanger	1) Loosen 2 fixing screws of left and right side. 2) Disassemble the inlet and outlet pipe by welding. 3) Detach the Heat Exchanger.	
4	Compressor	1) Open the Terminal Cover of Compressor and unscrew the Connection Terminal. 2) Disassemble the inlet and outlet pipe of Compressor by welding. 3) Loosen 3 bolts of the lower part. 4) Detach the Compressor.	 

4. Refrigerating Cycle Diagram



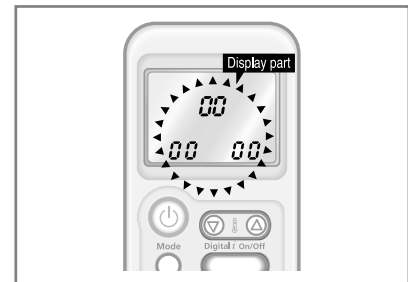
5. Set Up the Model Option

5-1 Setting Option Setup Method

ex) Option No. : 066064-170373

Step 1 : Enter the Option Setup mode.

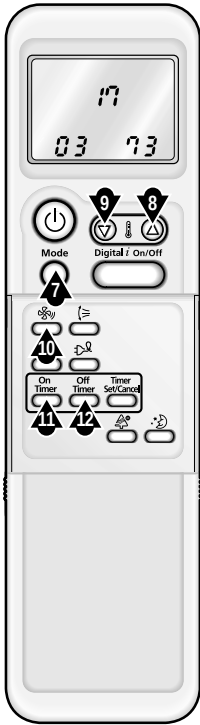
- 1st Take out the batteries of remote control.
- 2nd Press the temperature (▽|△) button simultaneously and insert the battery again.
- 3rd Make sure the remote display shown as $\overline{00} \overline{00}$.



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

	1 The default value is $\overline{00} \overline{00}$. Otherwise, push the Mode button to $\overline{0}$. Every time you push the button, the display panel reads $\overline{1}$ or $\overline{0}$ repeatedly.
	2 Push the Δ button to set the display panel to $\overline{6}$. Every time you push the button, the display panel reads $\overline{0} \rightarrow \overline{1} \rightarrow \overline{2} \rightarrow \overline{3} \rightarrow \dots \rightarrow \overline{9} \rightarrow \overline{A} \rightarrow \overline{b} \rightarrow \overline{c} \rightarrow \overline{d} \rightarrow \overline{E} \rightarrow \overline{F}$ repeatedly.
	3 Push the ∇ button to set the display panel to $\overline{6}$. Every time you push the button, the display panel reads $\overline{0} \rightarrow \overline{1} \rightarrow \overline{2} \rightarrow \overline{3} \rightarrow \dots \rightarrow \overline{9} \rightarrow \overline{A} \rightarrow \overline{b} \rightarrow \overline{c} \rightarrow \overline{d} \rightarrow \overline{E} \rightarrow \overline{F}$ repeatedly.
	4 Push the Fan button to set the display panel to $\overline{0}$. Every time you push the button, the display panel reads $\overline{0} \rightarrow \overline{1} \rightarrow \overline{2} \rightarrow \overline{3} \rightarrow \dots \rightarrow \overline{9} \rightarrow \overline{A} \rightarrow \overline{b} \rightarrow \overline{c} \rightarrow \overline{d} \rightarrow \overline{E} \rightarrow \overline{F}$ repeatedly.
	5 Push the On Timer button to set the display panel to $\overline{6}$. Every time you push the button, the display panel reads $\overline{0} \rightarrow \overline{1} \rightarrow \overline{2} \rightarrow \overline{3} \rightarrow \dots \rightarrow \overline{9} \rightarrow \overline{A} \rightarrow \overline{b} \rightarrow \overline{c} \rightarrow \overline{d} \rightarrow \overline{E} \rightarrow \overline{F}$ repeatedly.
	6 Push the Off Timer button to set the display panel to $\overline{4}$. Every time you push the button, the display panel reads $\overline{0} \rightarrow \overline{1} \rightarrow \overline{2} \rightarrow \overline{3} \rightarrow \dots \rightarrow \overline{9} \rightarrow \overline{A} \rightarrow \overline{b} \rightarrow \overline{c} \rightarrow \overline{d} \rightarrow \overline{E} \rightarrow \overline{F}$ repeatedly.

* Setting is not required if you must $\overline{0}$ a value which has a $\overline{0}$ default.



* Setting is not required if you must 0
a value which has a 0 default.

- 7 Press ^{Mode} button, then the default value is 00 00.
- 8 Push the Δ button to set the display panel to 7.
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.
- 9 Push the ∇ button to set the display panel to 0.
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.
- 10 Push the On button to set the display panel to 3.
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.
- 11 Push the Off button to set the display panel to 7.
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.
- 12 Push the Timer Set/Cancel button to set the display panel to 3.
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.

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

Press the Mode Selection key, ^{Mode} to set the display part to 0 and check the display part.

→ The display part shows 00 00.

Press the Mode Selection key, ^{Mode} to set the display part to 7 and check the display part.

→ The display part shows 03 17.

Step 4 : Pressing the ON/OFF button (ON/OFF)

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

Step 5 : Unit operation test-run

First, Remove the battery from the remote controller.

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

Third, Press ON/OFF key with the direction of remote controller for set.

• Error Mode

1st If all lamps of indoor unit are flickering, plug out, plug in power plug again and press the 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.

OPTION ITEMS

REMOCON MODEL	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
SH07ZP2 SH07ZP2A AQ07P2GE	0	2	4	5	6	7	1	7	0	2	1	d
SH09ZP2 SH09ZP2A	0	2	5	2	6	6	1	7	0	3	4	0
AQ09P2GE	0	2	5	3	6	5	1	7	0	3	4	0
SH12ZP4	0	6	6	0	6	5	1	7	0	3	6	2
SH12ZP4A AQ12P4GE	0	6	6	0	6	6	1	7	0	3	6	2
AQT12P4GB	0	6	7	0	E	6	1	7	0	3	6	2
AQT12P4GE	0	6	8	0	E	6	1	7	0	3	5	1

6. Troubleshooting

6-1 Items to be checked first

1. The input voltage should be rating voltage $\pm 10\%$ range.
The airconditioner may not operate properly if the voltage is out of this range.
2. Is the link cable linking the indoor unit and the outdoor unit linked properly?
The indoor unit and the outdoor unit shall be linked by 5 cables.
Check the terminals if the indoor unit and outdoor unit are properly linked by the same number of cables.
Otherwise the airconditioner may not operate properly.
3. When a problem occurs due to the contents illustrated in the table below it is a symptom not related to the malfunction of the airconditioner.

No	Operation of air conditioner	Explanation
1	The OPERATION indication LED(GREEN) blinks when a power plug of the indoor unit is plugged in for the first time.	It indicates power is on. The LED stops blinking if the operation ON/OFF button on the remote control unit is pushed.
2	In a COOL operation mode, the compressor does not operate at a room temperature higher than the setting temperature that the INDOOR FAN should operate. [In case of heat pump model] In a HEAT operation mode, the compressor does not operate at a room temperature lower than the setting temperature that indoor fan should operate.	In happens after a delay of 3 minutes when the compressor is reoperated. The same phenomenon occurs when a power is on. As a phenomenon that the compressor is reoperated after a delay of 3 minutes, the indoor fan is adjusted automatically with reference to a temperature of the air blew.
3	Fan speed setting is not allowed in DRY() mode.	The speed of the indoor fan is set to LL in DRY mode. Fan speed is selected automatically in AUTO mode.
4	Compressor stops operation intermittently in DRY() mode.	Compressor operation is controlled automatically in DRY mode depending on the room temperature and humidity.
5	Timer LED(GREEN) of the indoor unit lights up and the air conditioner does not operate.	Timer is being activated and the unit is in ready mode. The unit operates normally if the timer operation is cancelled.
6	The compressor stops intermittently in a COOL mode or DRY mode, and fan speed of the indoor unit decreases.	The compressor stops intermittently or the fan speed of the indoor unit decreases to prevent inside/outside air frozen depending on the inside/outside air temperature.
7	[In case of heat pump model] Compressor of the outdoor unit is operating although it is turned off in a HEAT mode.	When the unit is turned off while de-ice is activated, the compressor continues operation for up to 9 minutes (maximum) until the deice is completed.
8	[In case of heat pump model] The compressor and indoor fan stop intermittently in HEAT mode.	The compressor and indoor fan stop intermittently if room temperature exceeds a setting temperature in order to protect the compressor from overheated air in a HEAT mode.
9	[In case of heat pump model] Indoor fan and outdoor fan stop operation intermittently in a HEAT mode.	The compressor operates in a reverse cycle to remove exterior ice in a HEAT mode, and indoor fan and outdoor fan do not operate intermittently for within 20% of the total heater operation

4. Indoor unit observes operation condition of the air conditioner, and displays self diagnosis details on the display panel.

Error Mode	LAMP			7-segment Display
	OPERATION	TIMER	TURBO	
				
Indoor unit room temperature sensor error (open or short)	○	◐	○	E1
Indoor unit heat exchanger temperature sensor error (open or short)	◐	◐	○	E2
Indoor fan motor malfunction	◐	○	◐	E3
EEPROM error	○	◐	◐	E6
Option error (option wasn't set up or option data error)	◐	◐	◐	Display Flickering

○ : Lamp off ◐ : Lamp flickering

5. Operation with abnormal motion

No	Abnormal condition	Inspection		Initial Diagnosis
1	No response from the remote control operation signal.	Plug out and plug in 5 seconds later.	Able to operate the remote control.	OK
			Unable to operate the remote control.	Press the  (ON/OFF) button in the indoor unit. - If it operates, the remote control and indoor unit receiver are in trouble. - If not, the indoor unit is in trouble.
2	Unable to operate the outdoor unit	- Press the TURBO button with the remote control. - In 3 minutes, check the voltage between the indoor unit terminal block N(1) and 1.	AC198V ~ AC242V	Problem with the outdoor unit or PCB
			No power source displayed.	Problem with the relay (RY71) or PCB

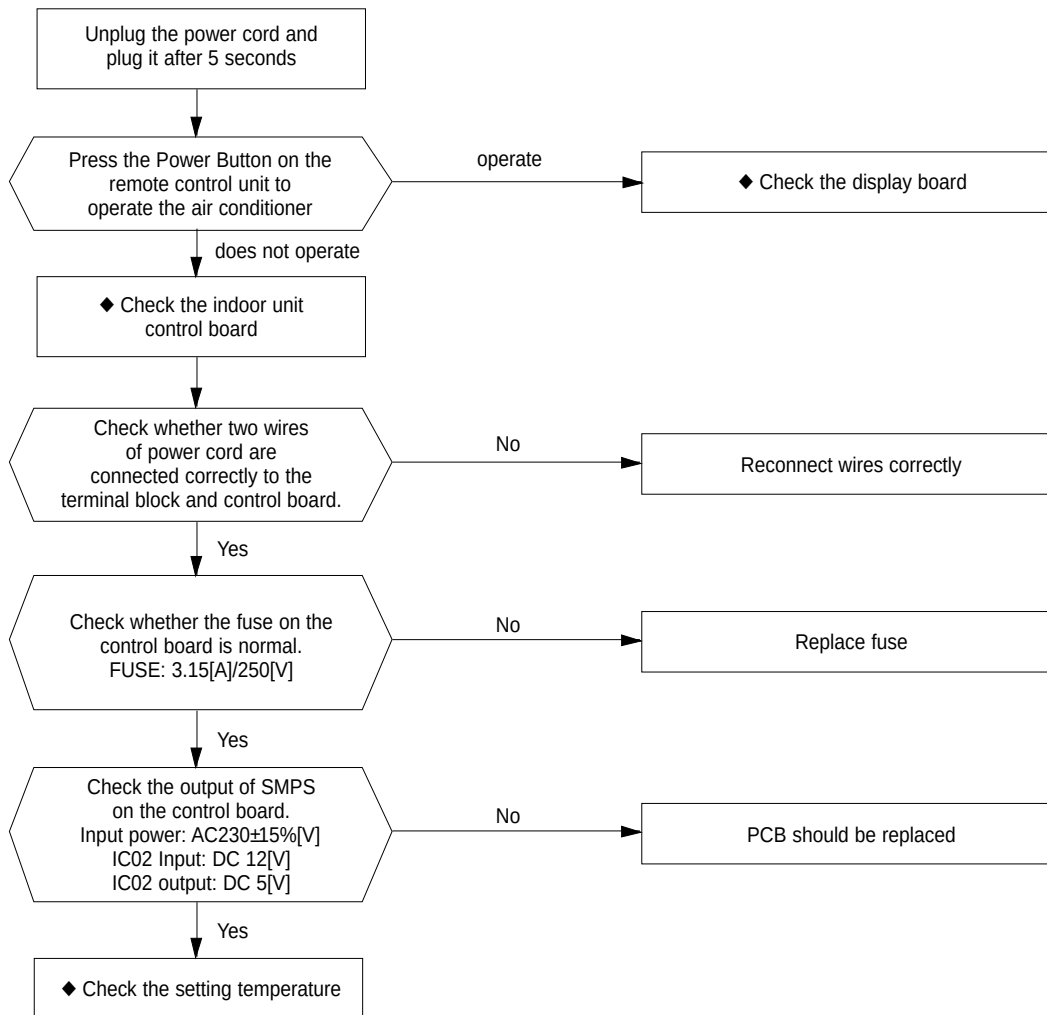
6-2 Fault Diagnosis by Symptom

6-2-1 No Power (completely dead)-Initial diagnosis

1. Checklist :

- 1) Is input voltage normal?
- 2) Is AC power linked correctly?
- 3) Is input voltage of DC regulator IC KA7805 (IC02) normal? (11VDC-12.5VDC)
- 4) Is output voltage of DC regulator IC KA7805 (IC02) normal? (4.5VDC-5.5VDC)

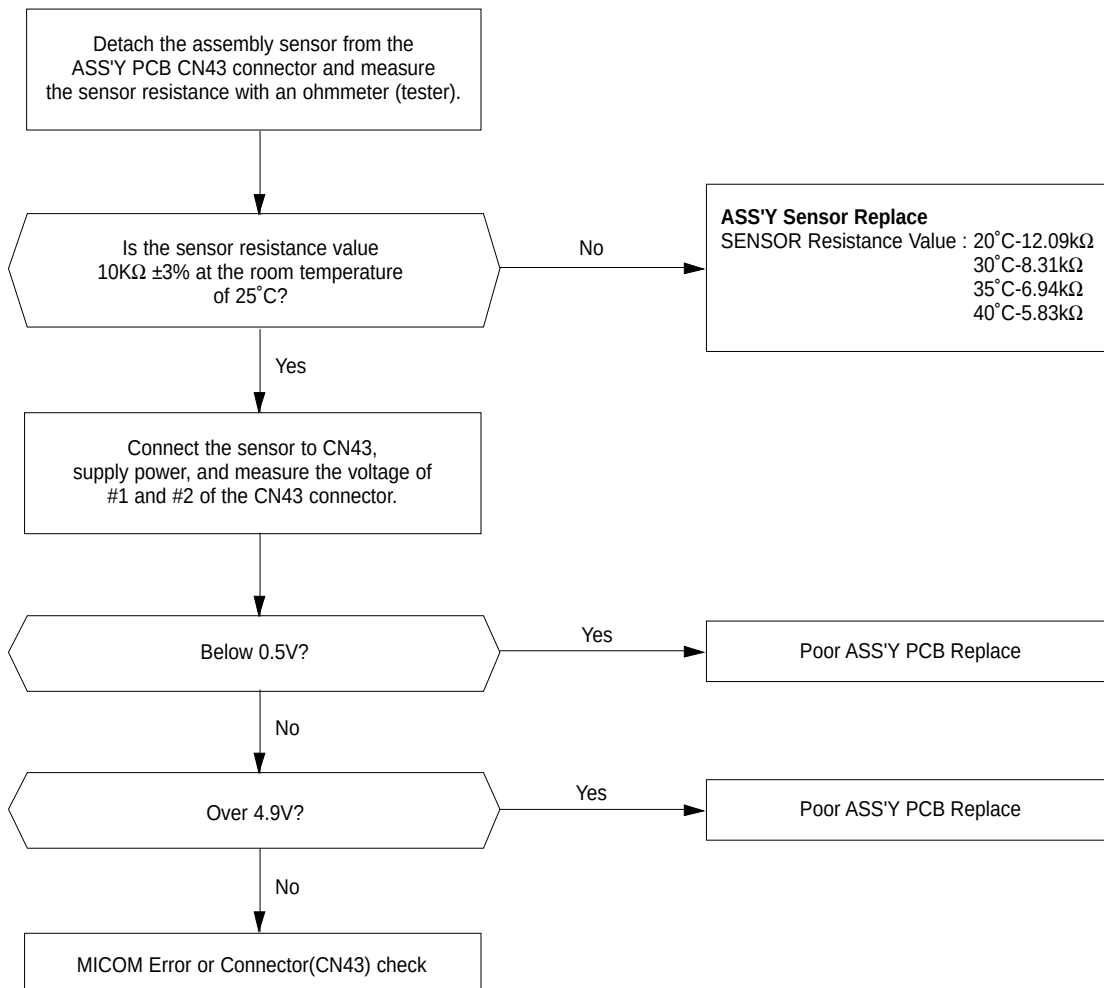
2. Troubleshooting procedure



6-2-2 Room temperature sensor failure

Description	LAMP			7-segment Display
	OPERATION	TIMER	TURBO	
				
Indoor unit room temperature sensor error(open or short)	○	◐	○	<i>E 1</i>

○ : Lamp off ◐ : Lamp flickering



6-2-3 Room Pipe sensor failure

Description	LAMP			7-segment Display
	OPERATION	TIMER	TURBO	
				
Indoor unit heat exchanger temperature sensor error (open or short)				<i>E2</i>

○ : Lamp off ◐ : Lamp flickering

1. Check the assembly condition of the sensor connector(CN43) on the indoor unit Main PCB and if not assembled, reassemble the connector accurately.
2. Detach the room pipe sensor connector(CN43) and check the resistance between connector 3 and 4.

Temperature(°C)	Resistance Value(Kohm)	Temperature(°C)	Resistance Value(Kohm)	Others
15	14.68	30	8.31	The data tolerance is ±3%.
20	12.09	35	6.94	
25	10	40	5.83	

If the above data is not met, replace the room pipe sensor.

3. Assemble the room pipe sensor to PCB, plug in, and check the voltage of connector 3 and 4. If the resistance is below 0.5V or over 4.9V, replace the indoor Main PCB. (short or disconnected in the PCB board)

6-2-4 When the Indoor Unit Fan Does Not Operate. (Initial Diagnosis)

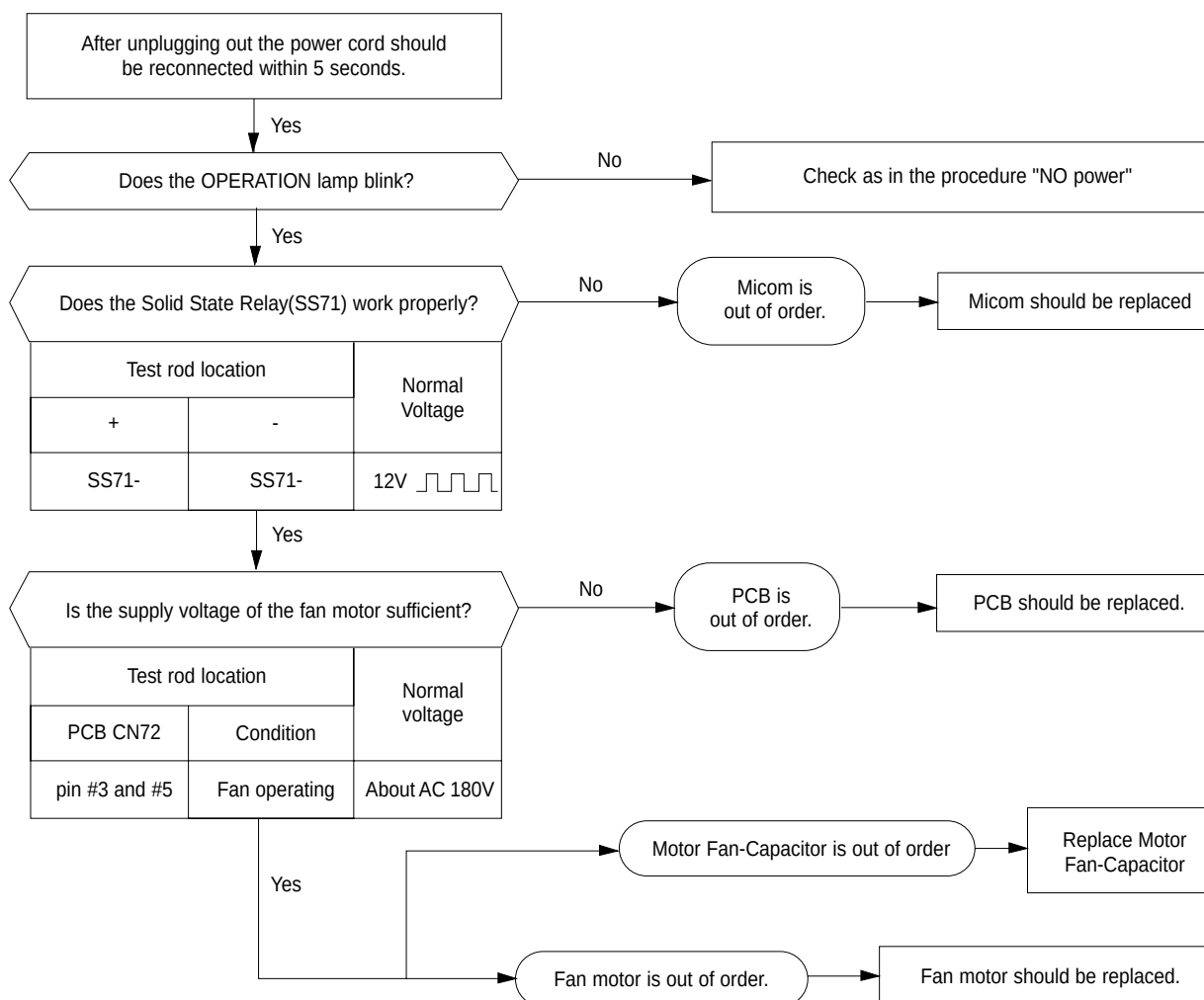
Description	LAMP			7-segment Display
	OPERATION	TIMER	TURBO	
				
Indoor fan motor malfunction				

○ : Lamp off ● : Lamp flickering

1. Checklist :

- 1) Is the indoor unit fan motor properly connected with the connector (CN72)?
- 2) Is the AC voltage correct?
- 3) Is HALL IC in indoor fan motor properly connected with the connector (CN44)?
- 4) Is the running capacitor (CR71) properly connected with PCB board?

2. Troubleshooting procedure

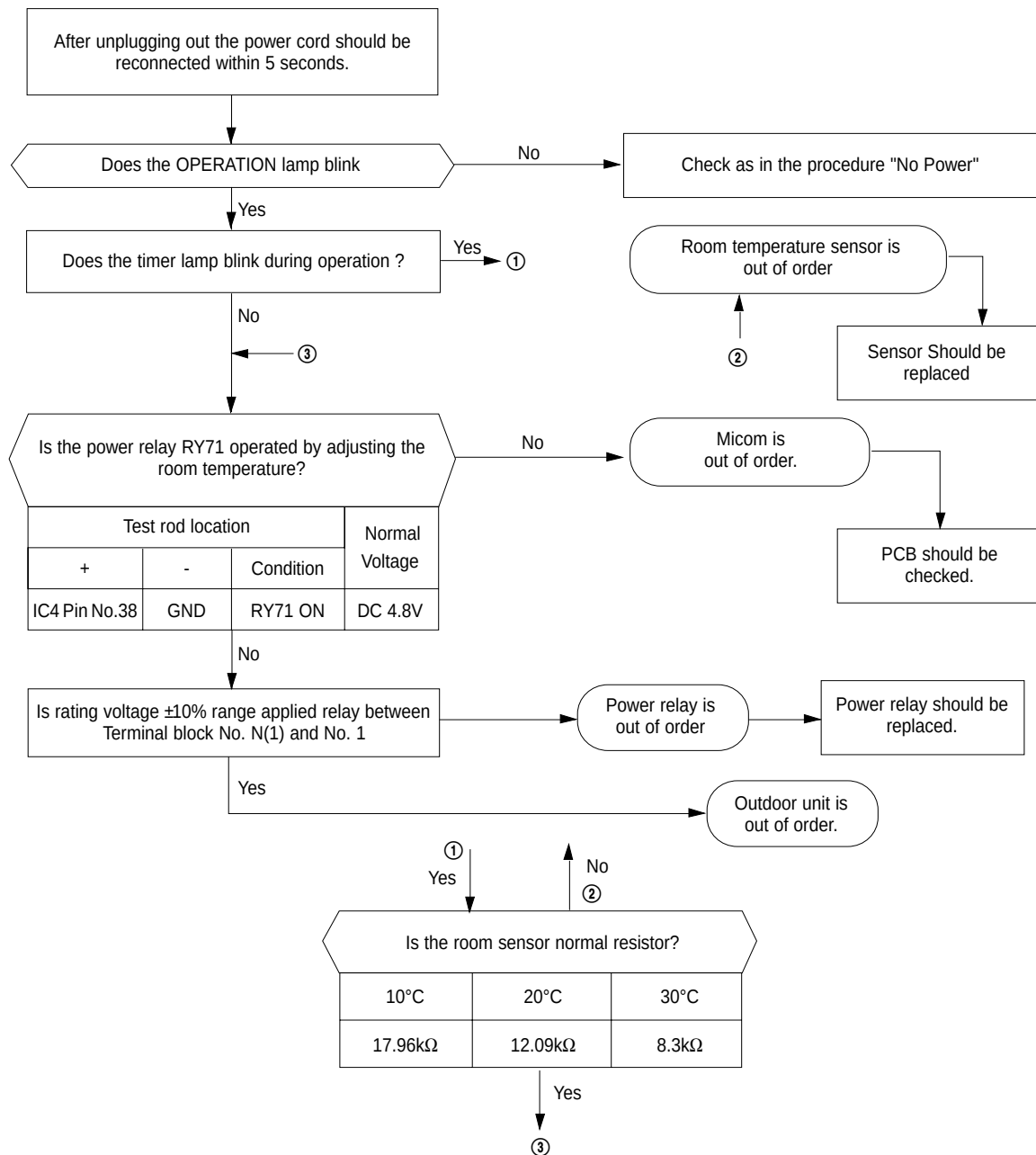


6-2-5 When the Outdoor Unit Does Not Operate. (Initial Diagnosis)

1. Checklist :

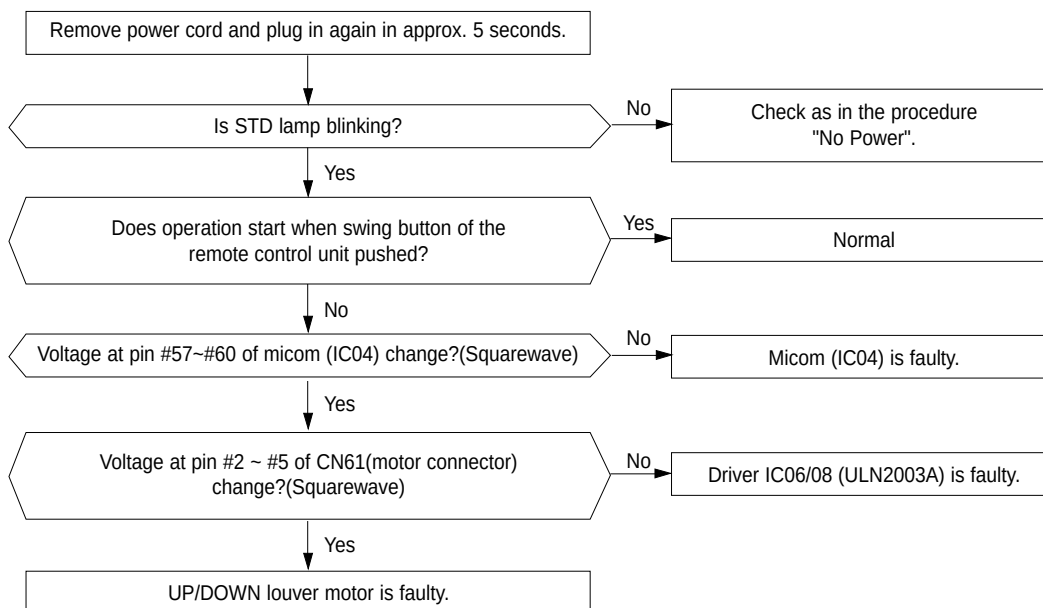
- 1) Is input voltage normal?
- 2) Is the set temperature of the remote control higher than room temperature in COOL mode?
- 3) Is the set temperature of the remote control lower than room temperature in HEAT mode?
- 4) Is the POWER IN connector (CN71) linked correctly?
- 5) Is the outdoor unit properly connected with the TERMINAL BLOCK connector(N(1), 1, 2, 3)?

2. Troubleshooting procedure



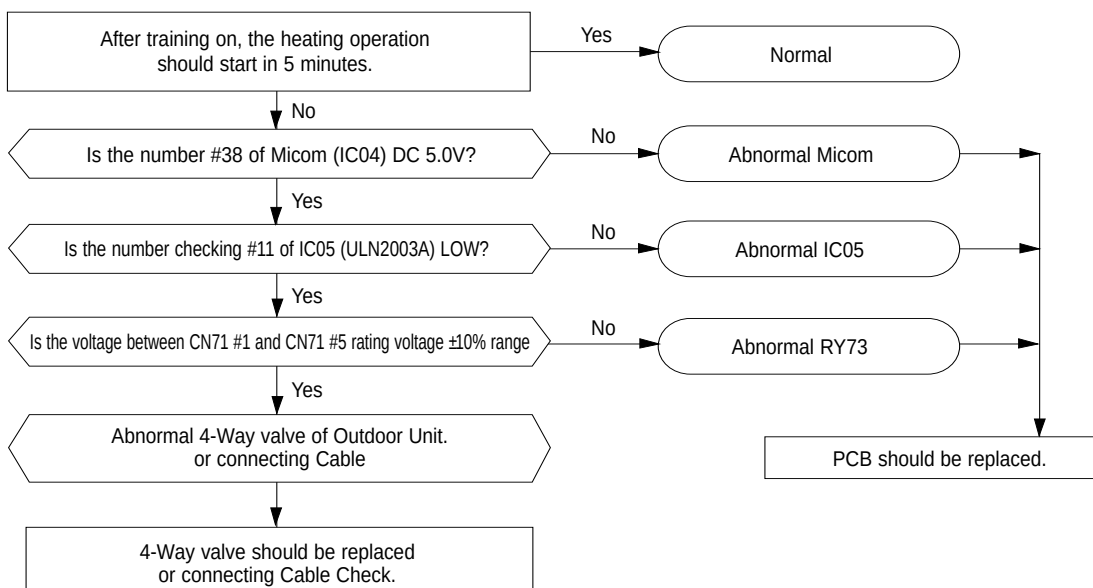
6-2-6 When the UP/DOWN Louver Motor Does Not Operate. (Initial Diagnosis)

1. Checklist :
 - 1) Is input voltage normal?
 - 2) Is the UP/DOWN louver motor properly connected with the connector (CN61)?
2. Troubleshooting procedure



6-2-7 In the HEAT mode, When there is no warm air current. Check this fist;

1. Is the set temperature of Remote Control lower than room temperature in Heat mode?
2. Is the Indoor PCB properly connected with the CN71 connector?



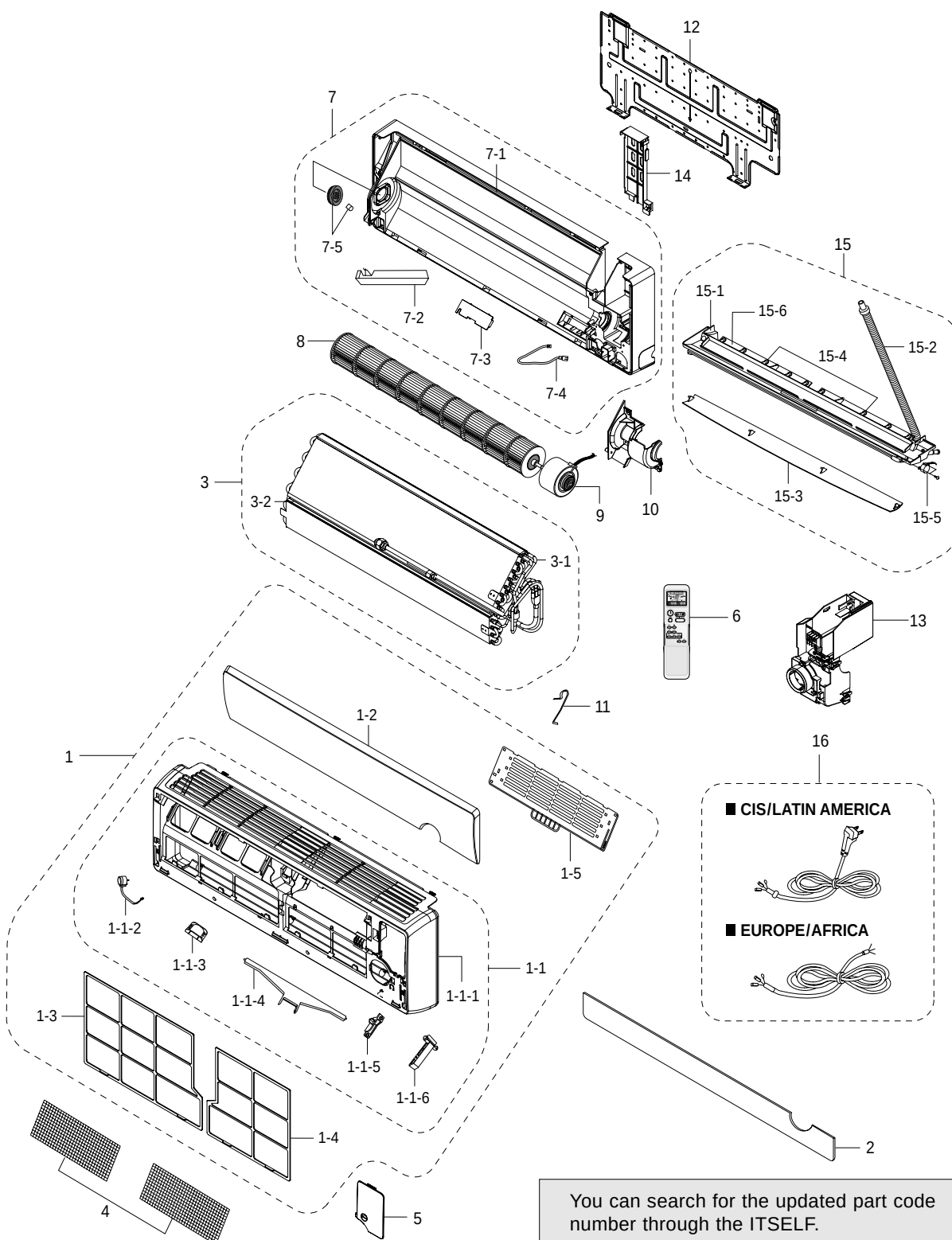
6-2-8 When the remote control is not receiving

1. Check if the connector was normally assembled.
2. Put the set in operation and check the voltage of No. 3(+) and No. 2(-) of the main PCB CN91 while operating the remote control. When the voltage descends below 3V, the assembly module PCB is normal and the main PCB is poor. Then replace the main PCB.
3. Replace the assembly display PCB because the module PCB is poor if the voltage between No. 2~3 of CN91 maintains 5V after the remote control starts operation.

MEMO

7. Exploded Views and Parts List

7-1 Indoor Unit



You can search for the updated part code number through the ITSELF.
URL : <http://itself.sec.samsung.co.kr>

■ Parts List

No.	Code No.	Description	Specification	Q'TY					
				SH07ZP2 SH07ZP2A (CIS)	SH07ZP2 SH07ZP2A (EUROPE)	SH09ZP2 SH09ZP2A (CIS)	SH09ZP2 SH09ZP2A (EUROPE)	SH12ZP4 SH12ZP4A (CIS)	SH12ZP4 SH12ZP4A (EUROPE)
1	DB92-00561A	ASS'Y PANEL FRONT TOTAL	ASS'Y	-	-	-	-	1	1
	DB92-00558A	ASS'Y PANEL FRONT TOTAL	ASS'Y	1	1	1	1	-	-
1-1	DB92-00560A	ASS'Y PANEL FRONT SUB-P	ASS'Y	-	-	-	-	1	1
	DB92-00557A	ASS'Y PANEL FRONT SUB-P	ASS'Y	1	1	1	1	-	-
1-1-1	DB92-00559A	ASS'Y PANEL FRONT SUB	ASS'Y	-	-	-	-	1	1
	DB92-00556A	ASS'Y PANEL FRONT SUB	ASS'Y	1	1	1	1	-	-
1-1-2	DB31-00166B	MOTOR STEPPING	-	1	1	1	1	1	1
1-1-3	DB61-01114A	HOLDER MOTOR DC	HIPS	-	-	-	-	1	1
	DB61-01123A	HOLDER MOTOR DC	HIPS	1	1	1	1	-	-
1-1-4	DB61-01115A	HINGE GRILLE	HIPS	-	-	-	-	1	1
	DB61-01132A	HINGE GRILLE	HIPS	1	1	1	1	-	-
1-1-5	DB61-01116A	GUIDE LINK	HIPS	-	-	-	-	1	1
	DB61-01133A	GUIDE LINK	HIPS	1	1	1	1	-	-
1-1-6	DB66-00364A	LINK MOTOR	ABS	-	-	-	-	1	1
	DB66-00365A	LINK MOTOR	ABS	1	1	1	1	-	-
1-2	DB64-00640A	GRILLE UP	ABS	-	-	-	-	1	1
	DB64-00655A	GRILLE UP	ABS	1	1	1	1	-	-
1-3	DB63-00585B	FILTER-AIR LF	PP	-	-	-	-	1	1
	DB63-00590B	FILTER-AIR LF	PP	1	1	1	1	-	-
1-4	DB63-00586B	FILTER-AIR RH	PP	-	-	-	-	1	1
	DB63-00591B	FILTER-AIR RH	PP	1	1	1	1	-	-
1-5	DB91-00198B	ASS'Y ELECTRIC FILTER	ASS'Y	-	-	-	-	-	-
2	DB92-00388C	ASS'Y GRILLE LOW	ASS'Y	-	-	-	-	1	1
	DB92-00416C	ASS'Y GRILLE LOW	ASS'Y	1	1	1	1	-	-
3	DB96-02092J	ASS'Y EVAPORATOR TOTAL	ASS'Y	-	-	-	-	1	1
	DB96-02145G	ASS'Y EVAPORATOR TOTAL	ASS'Y	1	1	1	1	-	-
3-1	DB96-03123A	ASS'Y EVAPORATOR	ASS'Y	-	-	-	-	1	1
	DB96-03101A	ASS'Y EVAPORATOR	ASS'Y	1	1	1	1	-	-
3-2	DB67-00051A	SPACE-EVAP	PVC	1	1	1	1	-	-
4	DB95-00367E	ASS'Y FILTER BIO	ASS'Y	1	1	1	1	1	1
5	DB63-00581A	COVER TERMINAL	HIPS	-	-	-	-	1	1
	DB63-00588A	COVER TERMINAL	HIPS	1	1	1	1	-	-
6	DB93-02530G	ASS'Y REMOCON	ASS'Y	1	1	1	1	1	1
7	DB94-00488C	ASS'Y BACK BODY	ASS'Y	-	-	-	-	1	1
	DB94-00486C	ASS'Y BACK BODY	ASS'Y	1	1	1	1	-	-
7-1	DB61-01098A	BACK BODY	HIPS	-	-	-	-	1	1
	DB61-01119A	BACK BODY	HIPS	1	1	1	1	-	-
7-2	DB91-00248A	ASS'Y ELECTRIC-IONS	ASS'Y	1	1	1	1	1	1
7-3	DB63-00580A	COVER-IONIZER	HIPS	1	1	1	1	1	1
7-4	DB93-01451C	ASS'Y CONNECTOR WIRE-IONIZER	ASS'Y	-	-	-	-	1	1
	DB93-01451B	ASS'Y CONNECTOR WIRE-IONIZER	ASS'Y	1	1	1	1	-	-
7-5	DB94-00258A	ASS'Y BEARING	ASS'Y	1	1	1	1	1	1
8	DB94-00040R	ASS'Y CROSS FAN	ASS'Y	-	-	-	-	1	1
	DB94-00040F	ASS'Y CROSS FAN	ASS'Y	1	1	1	1	-	-
9	DB31-00152B	MOTOR-FAN IN	220/240V,50/60Hz	-	-	-	-	1	1
	DB31-00152A	MOTOR-FAN IN	220/240V,50/60Hz	1	1	1	1	-	-
10	DB61-01099A	HOLDER-MOTOR	PP	-	-	-	-	1	1
	DB61-01120A	HOLDER-MOTOR	PP	1	1	1	1	-	-
11	DB67-60030A	SPRING-SENSOR	STS301	1	1	1	1	1	1
12	DB70-00276A	PLATE-HANGER	SGCC-M	-	-	-	-	1	1
	DB70-00288A	PLATE-HANGER	SGCC-M	1	1	1	1	-	-
13	DB93-02541A	ASS'Y CONTROL IN	ASS'Y	-	-	-	-	1	1
	DB93-02542B	ASS'Y CONTROL IN	ASS'Y	1	-	1	-	-	-
	DB93-02542A	ASS'Y CONTROL IN	ASS'Y	-	1	-	1	-	-
14	DB90-00992A	HOLDER-PIPE	HIPS	-	-	-	-	1	1
	DB61-01121A	HOLDER-PIPE	HIPS	1	1	1	1	-	-
15	DB94-00468B	ASS'Y TRAY DRAIN	ASS'Y	-	-	-	-	1	1
	DB94-00465A	ASS'Y TRAY DRAIN	ASS'Y	1	1	1	1	-	-
15-1	DB63-00587A	TRAY DRAIN	HIPS	-	-	-	-	1	1
	DB63-00592A	TRAY DRAIN	HIPS	1	1	1	1	-	-
15-2	DB94-00062E	ASS'Y HOSE DRAIN	ASS'Y	1	1	1	1	1	1
15-3	DB61-01103A	BLADE-H	HIPS	-	-	-	-	1	1
	DB61-01125A	BLADE-H	HIPS	1	1	1	1	-	-
15-4	DB61-01104A	BLADE-V	PP	-	-	-	-	2	2
	DB61-01126A	BLADE-V	PP	2	2	2	2	-	-
15-5	DB95-20138A	ASS'Y STEPPING MOTOR	ASS'Y	1	1	1	1	1	1
15-6	DB63-00634A	GUARD-SAFETY WIRE	STS27	-	-	-	-	1	1
	DB63-00635A	GUARD-SAFETY WIRE	STS27	1	1	1	1	-	-
16	3903-000095	ASS'Y CONNECTOR POWER	ASS'Y	1	-	1	-	1	-
	DB93-01549B	ASS'Y CONNECTOR POWER	ASS'Y	-	1	-	1	-	1

Option
Option

■ Parts List

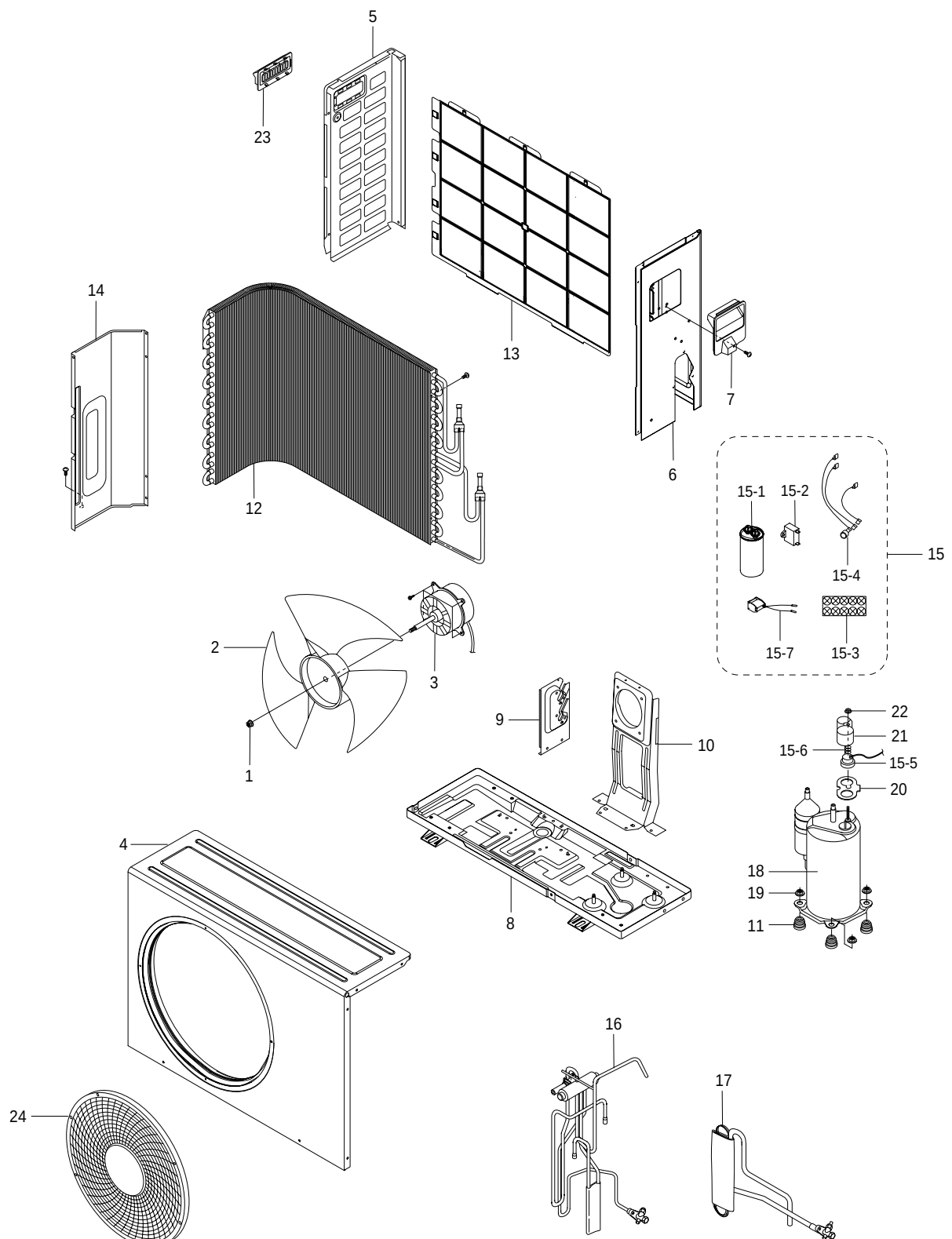
No.	Code No.	Description	Specification	Q'TY					
				AQ07P2GE (Latin America)	AQ07P2GE (AFRICA)	AQ09P2GE (Latin America)	AQ09P2GE (AFRICA)	AQ12P4GE (Latin America)	AQ12P4GE (AFRICA)
1	DB92-00561A	ASS'Y PANEL FRONT TOTAL	ASS'Y	-	-	-	-	-	1
	DB92-00561D	ASS'Y PANEL FRONT TOTAL	ASS'Y	-	-	-	-	1	-
	DB92-00558A	ASS'Y PANEL FRONT TOTAL	ASS'Y	-	1	-	1	-	-
	DB92-00558E	ASS'Y PANEL FRONT TOTAL	ASS'Y	1	-	1	-	-	-
1-1	DB92-00560A	ASS'Y PANEL FRONT SUB-P	ASS'Y	-	-	-	-	-	1
	DB92-00560B	ASS'Y PANEL FRONT SUB-P	ASS'Y	-	-	-	-	1	-
	DB92-00557A	ASS'Y PANEL FRONT SUB-P	ASS'Y	-	1	-	1	-	-
	DB92-00557B	ASS'Y PANEL FRONT SUB-P	ASS'Y	1	-	1	-	-	-
1-1-1	DB92-00559A	ASS'Y PANEL FRONT SUB	ASS'Y	-	-	-	-	1	1
	DB92-00556A	ASS'Y PANEL FRONT SUB	ASS'Y	1	1	1	1	-	-
1-1-2	DB31-00166B	MOTOR STEPPING	-	1	1	1	1	1	1
1-1-3	DB61-01114A	HOLDER MOTOR DC	HIPS	-	-	-	-	1	1
	DB61-01123A	HOLDER MOTOR DC	HIPS	1	1	1	1	-	-
1-1-4	DB61-01115A	HINGE GRILLE	HIPS	-	-	-	-	1	1
	DB61-01132A	HINGE GRILLE	HIPS	1	1	1	1	-	-
1-1-5	DB61-01116A	GUIDE LINK	HIPS	-	-	-	-	1	1
	DB61-01133A	GUIDE LINK	HIPS	1	1	1	1	-	-
1-1-6	DB66-00364A	LINK MOTOR	ABS	-	-	-	-	1	1
	DB66-00365A	LINK MOTOR	ABS	1	1	1	1	-	-
1-2	DB64-00640A	ASS'Y GRILLE UP	ASS'Y	-	-	-	-	-	1
	DB92-00489A	ASS'Y GRILLE UP	ASS'Y	-	-	-	-	1	-
	DB64-00655A	ASS'Y GRILLE UP	ASS'Y	-	1	-	1	-	-
	DB92-00490A	ASS'Y GRILLE UP	ASS'Y	1	-	1	-	-	-
1-3	DB63-00585B	FILTER-AIR LF	PP	-	-	-	-	1	1
	DB63-00590B	FILTER-AIR LF	PP	1	1	1	1	-	-
1-4	DB63-00586B	FILTER-AIR RH	PP	-	-	-	-	1	1
	DB63-00591B	FILTER-AIR RH	PP	1	1	1	1	-	-
1-5	DB91-00198B	ASS'Y ELECTRIC FILTER	ASS'Y	1	-	1	-	1	-
2	DB92-00388C	ASS'Y GRILLE LOW	ASS'Y	-	-	-	-	1	1
	DB92-00416C	ASS'Y GRILLE LOW	ASS'Y	1	1	1	1	-	-
3	DB96-02092J	ASS'Y EVAPORATOR TOTAL	ASS'Y	-	-	-	-	1	1
	DB96-02145G	ASS'Y EVAPORATOR TOTAL	ASS'Y	1	1	1	1	-	-
3-1	DB96-03123A	ASS'Y EVAPORATOR	ASS'Y	-	-	-	-	1	1
	DB96-03101A	ASS'Y EVAPORATOR	ASS'Y	1	1	1	1	-	-
3-2	DB67-00051A	SPACE-EVAP	PVC	1	1	1	1	-	-
4	DB95-00367E	ASS'Y FILTER BIO	ASS'Y	1	1	1	1	1	1
5	DB63-00581A	COVER TERMINAL	HIPS	-	-	-	-	1	1
	DB63-00588A	COVER TERMINAL	HIPS	1	1	1	1	-	-
6	DB93-02530G	ASS'Y REMOCON	ASS'Y	-	1	-	1	-	1
	DB93-02530J	ASS'Y REMOCON	ASS'Y	1	-	1	-	1	-
7	DB94-00488C	ASS'Y BACK BODY	ASS'Y	-	-	-	-	-	1
	DB94-00488A	ASS'Y BACK BODY	ASS'Y	-	-	-	-	1	-
	DB94-00486C	ASS'Y BACK BODY	ASS'Y	-	1	-	1	-	-
	DB94-00486A	ASS'Y BACK BODY	ASS'Y	1	-	1	-	-	-
7-1	DB61-01098A	BACK BODY	HIPS	-	-	-	-	1	1
	DB61-01119A	BACK BODY	HIPS	1	1	1	1	-	-
7-2	DB91-00248A	ASS'Y ELECTRIC-IONS	ASS'Y	-	1	-	1	-	1
7-3	DB63-00580A	COVER-IONIZER	HIPS	1	1	1	1	1	1
7-4	DB93-01451C	ASS'Y CONNECTOR WIRE-IONIZER	ASS'Y	-	-	-	-	-	1
	DB93-01451B	ASS'Y CONNECTOR WIRE-IONIZER	ASS'Y	-	1	-	1	-	-
7-5	DB94-00258A	ASS'Y BEARING	ASS'Y	1	1	1	1	1	1
8	DB94-00040F	ASS'Y CROSS FAN	ASS'Y	-	-	-	-	1	1
	DB94-00040F	ASS'Y CROSS FAN	ASS'Y	1	1	1	1	-	-
9	DB31-00152B	MOTOR-FAN IN	220/240V,50/60Hz	-	-	-	-	1	1
	DB31-00152A	MOTOR-FAN IN	220/240V,50/60Hz	1	1	1	1	-	-
10	DB61-01099A	HOLDER-MOTOR	PP	-	-	-	-	1	1
	DB61-01120A	HOLDER-MOTOR	PP	1	1	1	1	-	-
11	DB67-60030A	SPRING-SENSOR	STS301	1	1	1	1	1	1
12	DB70-00276A	PLATE-HANGER	SGCC-M	-	-	-	-	1	1
	DB70-00288A	PLATE-HANGER	SGCC-M	1	1	1	1	-	-
13	DB93-02541A	ASS'Y CONTROL IN	ASS'Y	-	-	-	-	-	1
	DB93-02541B	ASS'Y CONTROL IN	ASS'Y	-	-	-	-	1	-
	DB93-02542B	ASS'Y CONTROL IN	ASS'Y	-	1	-	1	-	-
	DB93-02542C	ASS'Y CONTROL IN	ASS'Y	1	-	1	-	-	-
14	DB90-00992A	HOLDER-PIPE	HIPS	-	-	-	-	1	1
	DB61-01121A	HOLDER-PIPE	HIPS	1	1	1	1	-	-
15	DB94-00468D	ASS'Y TRAY DRAIN	ASS'Y	-	-	-	-	1	1
	DB94-00465D	ASS'Y TRAY DRAIN	ASS'Y	1	1	1	1	-	-
15-1	DB63-00587A	TRAY DRAIN	HIPS	-	-	-	-	1	1
	DB63-00592A	TRAY DRAIN	HIPS	1	1	1	1	-	-
15-2	DB94-00062E	ASS'Y HOSE DRAIN	ASS'Y	1	1	1	1	1	1
15-3	DB61-01103A	BLADE-H	HIPS	-	-	-	-	1	1
	DB61-01125A	BLADE-H	HIPS	1	1	1	1	-	-
15-4	DB61-01104A	BLADE-V	PP	-	-	-	-	2	2
	DB61-01126A	BLADE-V	PP	2	2	2	2	-	-
15-5	DB95-20138A	ASS'Y STEPPING MOTOR	ASS'Y	1	1	1	1	1	1
15-6	DB63-00634A	GUARD-SAFETY WIRE	STS27	-	-	-	-	-	-
	DB63-00635A	GUARD-SAFETY WIRE	STS27	-	-	-	-	-	-
16	3903-000095	ASS'Y CONNECTOR POWER	ASS'Y	1	-	1	-	1	-
	DB93-01549B	ASS'Y CONNECTOR POWER	ASS'Y	-	1	-	1	-	1

Option
Option

■ Parts List

No.	Code No.	Description	Specification	Q'TY	
				AQT12P4GB AQT12P4GE	
1	DB92-00561A	ASS'Y PANEL FRONT TOTAL	ASS'Y	1	
1-1	DB92-00560A	ASS'Y PANEL FRONT SUB-P	ASS'Y	1	
1-1-1	DB92-00559A	ASS'Y PANEL FRONT SUB	ASS'Y	1	
1-1-2	DB31-00166B	MOTOR STEPPING	-	1	
1-1-3	DB61-01114A	HOLDER MOTOR DC	HIPS	1	
1-1-4	DB61-01115A	HINGE GRILLE	HIPS	1	
1-1-5	DB61-01116A	GUIDE LINK	HIPS	1	
1-1-6	DB66-00364A	LINK MOTOR	ABS	1	
1-2	DB64-00640A	GRILLE UP	ABS	1	
1-3	DB63-00585B	FILTER-AIR LF	PP	1	
1-4	DB63-00586B	FILTER-AIR RH	PP	1	
2	DB92-00388C	ASS'Y GRILLE LOW	ASS'Y	1	
3	DB96-02092J	ASS'Y EVAPORATOR TOTAL	ASS'Y	1	
3-1	DB96-03123A	ASS'Y EVAPORATOR	ASS'Y	1	
3-2	DB67-00051A	SPACE-EVAP	PVC	-	
4	DB95-00367E	ASS'Y FILTER BIO	ASS'Y	1	
5	DB63-00581A	COVER TERMINAL	HIPS	1	
6	DB93-02531B	ASS'Y REMOCON	ASS'Y	1	
7	DB94-00488C	ASS'Y BACK BODY	ASS'Y	1	
7-1	DB61-01098A	BACK BODY	HIPS	1	
7-2	DB91-00248A	ASS'Y ELECTRIC-IONS	ASS'Y	1	
7-3	DB63-00580A	COVER-IONIZER	HIPS	1	
7-4	DB93-01451C	ASS'Y CONNECTOR WIRE-IONIZER	ASS'Y	1	
7-5	DB94-00258A	ASS'Y BEARING	ASS'Y	1	
8	DB94-00040R	ASS'Y CROSS FAN	ASS'Y	1	
9	DB31-00152B	MOTOR-FAN IN	220/240V,50/60Hz	1	
10	DB61-01099A	HOLDER-MOTOR	PP	1	
11	DB67-60030A	SPRING-SENSOR	STS301	1	
12	DB70-00276A	PLATE-HANGER	SGCC-M	1	
13	DB93-02541A	ASS'Y CONTROL IN	ASS'Y	1	
14	DB90-00992A	HOLDER-PIPE	HIPS	1	
15	DB94-00468D	ASS'Y TRAY DRAIN	ASS'Y	1	
15-1	DB63-00587A	TRAY DRAIN	HIPS	1	
15-2	DB94-00062E	ASS'Y HOSE DRAIN	ASS'Y	1	
15-3	DB61-01103A	BLADE-H	HIPS	1	
15-4	DB61-01104A	BLADE-V	PP	2	
15-5	DB95-20138A	ASS'Y STEPPING MOTOR	ASS'Y	1	
15-6	DB63-00634A	GUARD-SAFETY WIRE	STS27	-	Option
16	DB93-01549C	ASS'Y CONNECTOR POWER	ASS'Y	1	

7-2 Outdoor Unit



■ Parts List

No.	Code No.	Description	Specification	Q'TY			
				SH07ZP2X	SH07ZP2AX UQ07P2GE	SH09ZP2X	SH09ZP2AX UQ09P2GE
1	DB60-30020A	NUT FLANGE	2C,M6,SM20C,NTR	1	1	1	1
2	DB67-00036A	FAN PROPELLER	AS+G/F 20%, ø375	1	1	1	1
3	DB31-00034A	MOTOR FAN OUT	220/240V,50/60Hz	1	1	1	1
4	DB90-01406A	ASS'Y CABINET FRONT	ASS'Y	1	1	1	1
5	DB90-01461A	ASS'Y CABINET SIDE LF	ASS'Y	1	1	1	1
6	DB90-01426C	ASS'Y CABINET SIDE RH	ASS'Y	1	1	1	1
7	DB63-10443C	COVER E PARTS ASS'Y	ASS'Y	1	1	1	1
8	DB90-01273A	ASS'Y BASE OUTDOOR	ASS'Y	1	-	1	-
	DB90-01273B	ASS'Y BASE OUTDOOR	ASS'Y	-	1	-	1
9	DB61-01623A	BRACKET VALVE	GALVANIZED STEEL	1	1	1	1
10	DB61-01649A	BRACKET MOTOR	GALVANIZED STEEL	1	1	1	1
11	DB63-00930A	GROMMET-ISOLATOR	NR	3	-	3	-
	DB73-00070A	GROMMET-ISOLATOR	NR	-	3	-	3
12	DB96-03074A	ASS'Y COND	ASS'Y	-	-	1	-
	DB96-03423A	ASS'Y COND	ASS'Y	1	-	-	-
	DB96-03576A	ASS'Y COND	ASS'Y	-	1	-	1
13	DB64-00997A	SCREEN COND	PP	1	1	1	1
14	DB94-00497A	ASS'Y PARTITION	ASS'Y	-	-	1	-
	DB94-00497C	ASS'Y PARTITION	ASS'Y	1	-	-	-
	DB94-00497D	ASS'Y PARTITION	ASS'Y	-	1	-	1
15	DB93-02556E	ASS'Y CONTROL OUT	ASS'Y	-	-	1	-
	DB93-02556D	ASS'Y CONTROL OUT	ASS'Y	1	-	-	-
	DB93-02739A	ASS'Y CONTROL OUT	ASS'Y	-	1	-	-
	DB93-02739B	ASS'Y CONTROL OUT	ASS'Y	-	-	-	1
15-1	2501-001236	CAPACITOR-COMP	30uF/450VAC	-	1	1	-
	2501-001234	CAPACITOR-COMP	20uF/450VAC	1	-	-	-
	2501-001238	CAPACITOR-COMP	40uF/450VAC	-	-	-	1
15-2	2301-001375	CAPACITOR-MOTOR	1.5uF/450VAC	1	1	1	1
15-3	DB65-40049E	TERMINAL BLOCK	4P	1	1	1	1
15-4	DB93-01547B	ASS'Y LEAD WIRE	ASS'Y	1	-	1	-
	DB93-01547D	ASS'Y LEAD WIRE	ASS'Y	-	1	-	1
15-5	DB35-00026D	OLP	MRA98776	-	-	1	-
	DB35-00026C	OLP	MRA99137-9201	1	-	-	-
	DB35-00020A	OLP	RAC12144-9622	-	1	-	-
	DB35-00020G	OLP	RAC12110-9622	-	-	-	1
15-6	DB67-60020A	OLP SPRING	STS304	1	1	1	1
15-7	DB33-00028C	ASS'Y SOLENOID	ASS'Y	1	-	1	-
	DB33-00057A	ASS'Y SOLENOID	ASS'Y	-	1	-	1
16	DB96-03167A	ASS'Y TUBE 4WAY VALVE	ASS'Y	-	-	1	-
	DB96-03421A	ASS'Y TUBE 4WAY VALVE	ASS'Y	1	-	-	-
	DB96-03502A	ASS'Y TUBE 4WAY VALVE	ASS'Y	-	1	-	1
17	DB96-03169A	ASS'Y TUBE CAPILLARY	ASS'Y	-	-	1	-
	DB96-03170A	ASS'Y TUBE CAPILLARY	ASS'Y	1	-	-	-
	DB96-03570A	ASS'Y TUBE CAPILLARY	ASS'Y	-	1	-	-
	DB96-03570B	ASS'Y TUBE CAPILLARY	ASS'Y	-	-	-	1
18	DB95-00478A	COMPRESSOR	2P17S235B1A	-	-	1	-
	DB95-00476A	COMPRESSOR	2R13S235A1A-CS	1	-	-	-
	DB95-00396A	COMPRESSOR	44B080JX1EL	-	1	-	-
	DB95-00378A	COMPRESSOR	44B102JX1EL	-	-	-	1
19	DB60-30028A	NUT WASHER	HEX 2C M8 ZPC	3	3	3	3
20	DB63-00929A	GASKET	EPT	1	-	1	-
	DB63-20002A	GASKET	EPDM	-	1	-	1
21	DB63-00928A	COVER TERMINAL	PET	1	-	-	-
	DB63-00927A	COVER TERMINAL	PBT	-	-	1	-
	DB63-10165D	COVER TERMINAL	PBT	-	1	-	1
22	DB81-00484A	NUT FLANGE	STEEL, M5	-	-	1	-
	DB63-00968A	NUT FLANGE	STEEL, M5	1	-	-	-
	DB60-30018A	NUT FLANGE	STEEL, M5	-	1	-	1
23	DB64-01003A	HANDEL CABINET LF	PP	1	1	1	1
24	DB63-00862A	GUARD FAN	PP	1	1	1	1

■ Parts List

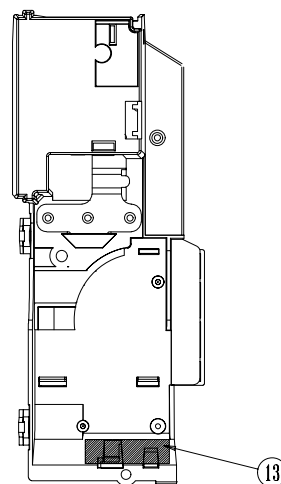
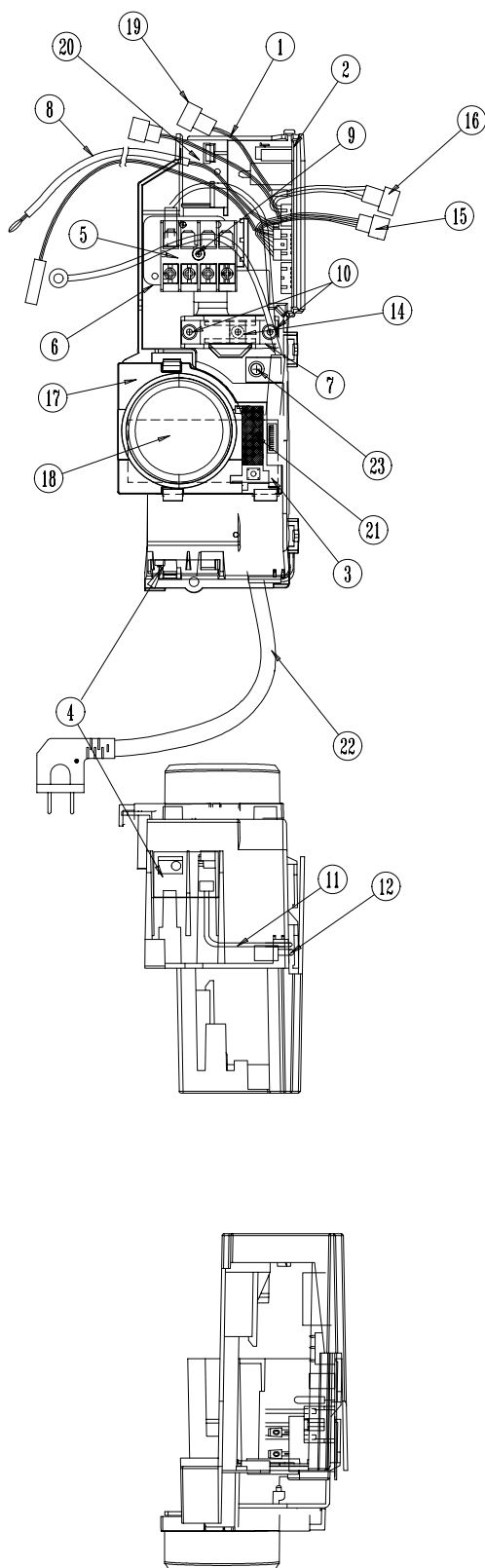
No.	Code No.	Description	Specification	Q'TY			
				SH12ZP4X	SH12ZP4AX UQ12P4GE	UQT12P4GB	UQT12P4GE
1	DB60-30020A	NUT FLANGE	2C,M6,SM20C,NTR	1	1	1	1
2	DB67-50063A	FAN PROPELLER	AS+G/F 20%, ø405	1	1	1	1
3	DB31-10058C	MOTOR FAN OUT	220/240V,50/60Hz	1	1	1	1
4	DB90-01405B	ASS'Y CABINET FRONT	ASS'Y	1	1	1	1
5	DB64-00979A	CABINET SIDE LF	SECC-P	1	1	1	1
6	DB64-00980A	CABINET SIDE RH	SECC-P	1	1	1	1
7	DB63-10443C	COVER E PARTS ASS'Y	ASS'Y	1	1	1	1
8	DB90-01404A	ASS'Y BASE OUTDOOR	ASS'Y	1	1	1	1
9	DB61-01648A	BRACKET VALVE	GALVANIZED STEEL	1	1	1	1
10	DB61-01649A	BRACKET MOTOR	GALVANIZED STEEL	1	1	1	1
11	DB63-00987A	GROMMET-ISOLATOR	NR	3	-	-	-
	DB73-00067A	GROMMET-ISOLATOR	NR	-	-	3	3
	DB73-10004B	GROMMET-ISOLATOR	SILICON	-	3	-	-
12	DB96-02977A	ASS'Y COND	ASS'Y	1	1	-	-
	DB96-03435A	ASS'Y COND	ASS'Y	-	-	1	1
13	DB64-00998A	SCREEN COND	PP	1	1	1	1
14	DB94-00520B	ASS'Y PARTITION	ASS'Y	1	1	1	1
15	DB93-02556J	ASS'Y CONTROL OUT	ASS'Y	-	-	1	-
	DB93-02556H	ASS'Y CONTROL OUT	ASS'Y	-	-	-	1
	DB93-02556F	ASS'Y CONTROL OUT	ASS'Y	1	-	-	-
	DB93-02739C	ASS'Y CONTROL OUT	ASS'Y	-	1	-	-
15-1	2501-001237	CAPACITOR-COMP	35uF/450VAC	1	-	1	1
	2501-001236	CAPACITOR-COMP	30uF/450VAC	-	1	-	-
15-2	2301-001375	CAPACITOR-MOTOR	1.5uF/450VAC	1	1	1	1
15-3	DB65-40049E	TERMINAL BLOCK	4P	1	1	1	1
15-4	DB93-01547B	ASS'Y LEAD WIRE	ASS'Y	1	-	-	-
	DB93-01547E	ASS'Y LEAD WIRE	ASS'Y	-	-	1	1
	DB93-01547D	ASS'Y LEAD WIRE	ASS'Y	-	1	-	-
15-5	-	OLP	INTERNAL	1	-	-	-
	DB35-00028G	OLP	RBC12107-12500	-	-	1	-
	DB35-00028F	OLP	RBC12050-12500	-	-	-	1
	DB35-00015H	OLP	RAC12074-9622	-	1	-	-
15-6	DB67-60020A	OLP SPRING	STS304	1	1	1	1
15-7	DB33-00028C	ASS'Y SOLENOID	ASS'Y	1	-	1	1
	DB33-00007A	ASS'Y SOLENOID	ASS'Y	-	1	-	-
16	DB96-03304A	ASS'Y TUBE 4WAY VALVE	ASS'Y	1	-	-	-
	DB96-03427B	ASS'Y TUBE 4WAY VALVE	ASS'Y	-	-	1	1
	DB96-03501A	ASS'Y TUBE 4WAY VALVE	ASS'Y	-	1	-	-
17	DB96-03565B	ASS'Y TUBE CAPILLARY	ASS'Y	1	1	-	-
	DB96-03322B	ASS'Y TUBE CAPILLARY	ASS'Y	-	-	1	-
	DB96-03565A	ASS'Y TUBE CAPILLARY	ASS'Y	-	-	-	1
18	DB95-00479A	COMPRESSOR	2K21T235AUA	1	-	-	-
	DB95-00515A	COMPRESSOR	48D135IT1EL	-	-	1	-
	DB95-00540A	COMPRESSOR	48D124JT1EL	-	-	-	1
	DB95-00368A	COMPRESSOR	48D129JU1EL	-	1	-	-
19	DB60-30028A	NUT WASHER	HEX 2C M8 ZPC	3	3	3	3
20	DB63-00986A	GASKET	SILICON	1	-	-	-
	DB63-20002A	GASKET	EPDM	-	1	1	1
21	DB63-00985A	COVER TERMINAL	PBT	1	-	-	-
	DB63-10165D	COVER TERMINAL	PBT	-	1	1	1
22	DB81-00484A	NUT FLANGE	STEEL, M5	1	-	-	-
	DB60-30018A	NUT FLANGE	STEEL, M5	-	1	1	1
23	DB64-01003A	HANDEL CABINET LF	PP	1	1	1	1
24	DB63-00863A	GUARD FAN	PP	1	1	1	1

MEMO

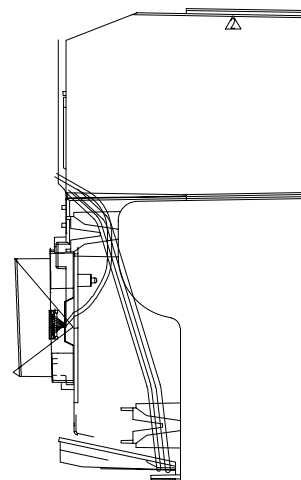
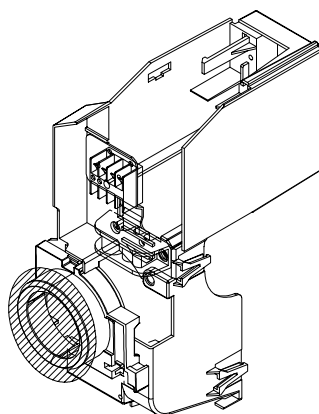
7-3 Ass'y Control In (Indoor Unit)

■ AQ0*P2G* / SH0*ZP2*(NO PLUG) : DB93-02542A

(PLUG) : DB93-02542B(Ionizer), DB93-02542C(Titanium Filter)



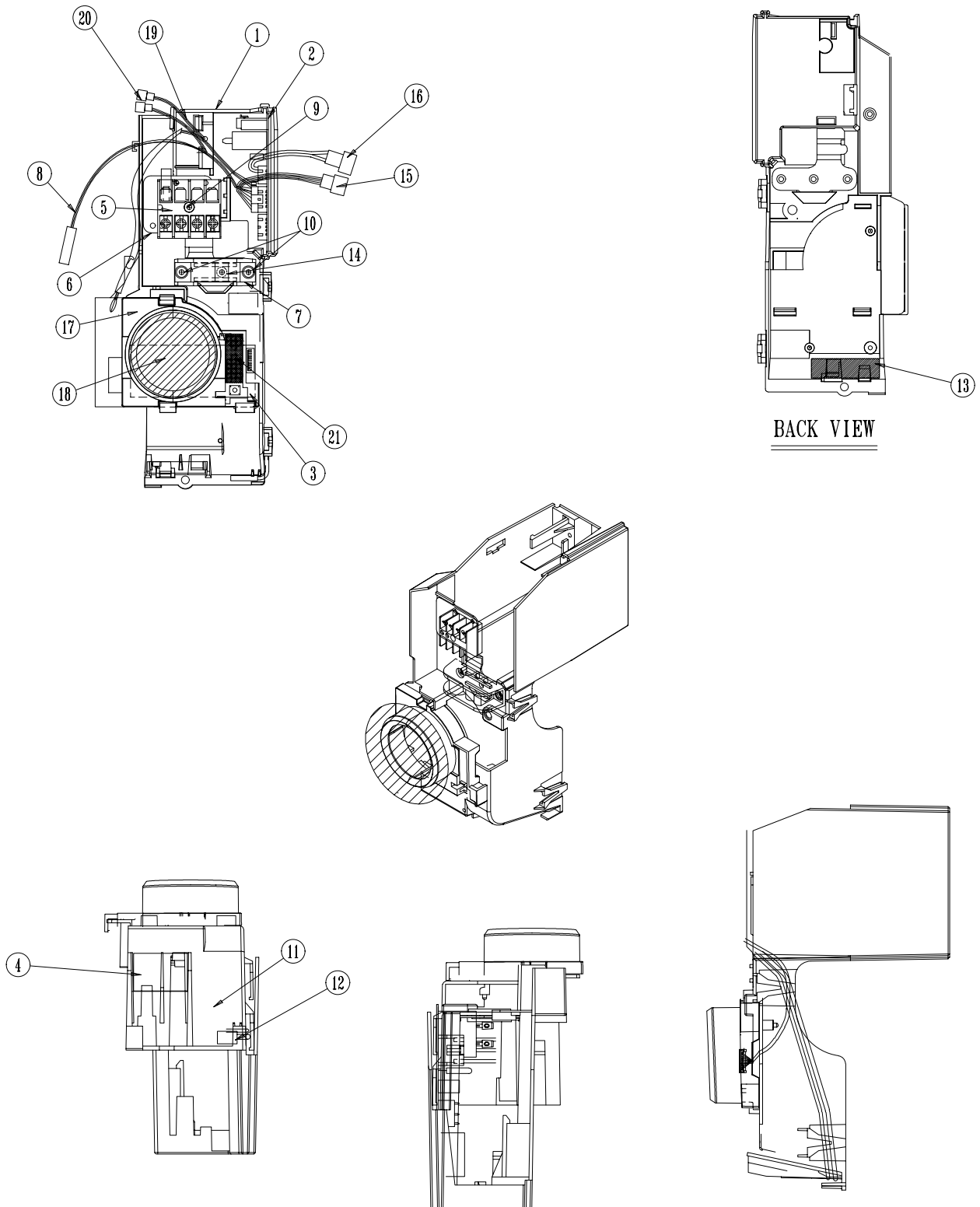
BACK VIEW



■ Parts List

No.	Code No.	Description	Specification	Q'TY	Remark
1	DB61-01127A	CASE-CONTROL AC	ABS	1	
2	DB93-02572A	ASS'Y-MAIN PCB	ASS'Y	1	
3	DB93-01368G	ASS'Y S/W & DISPLAY PCB	ASS'Y	1	
4	DB93-01369A	ASS'Y-MODULE PCB	ASS'Y	1	
5	DB65-00103B	ASS'Y TERMINAL BLOCK	ASS'Y	1	
6	DB70-00289A	PLATE TERMINAL LOW	SGCC-M,T1.2	1	
7	DB61-00171A	HOLDER WIRE CRAMP	HIPS	1	
8	DB32-00020A	ASS'Y THERMISTOR	ASS'Y	1	
9	6001-000929	SCREW-MACHINE	PH M3xL22	1	
10	6001-000725	SCREW-MACHINE	TH M4xL16	2	
11	DB93-01380B	C/W MODULE	ASS'Y	1	
12	DB39-00643M	C/W STEP MOTOR UP/DOWN	ASS'Y	1	
13	DB62-01368X	SEAL	61x40x3,30FOAM-PE,GRAY	1	
14	-	SCREW-MACHINE	PH M4x10	1	
15	DB39-00780B	C/W STEPPING MOTOR	ASS'Y(AUTO GRILLE)	1	
16	DB39-00820A	C/W ION-PCB	ASS'Y	1	DB93-02542A/B
17	DB61-01110A	HOLDER-DISPLAY	ABS	1	
18	DB64-00763A	HALF MIRROR	95,T1.5	1	
19	DB93-01387A	ASS'Y PCB HVPS	ASS'Y	1	DB93-02542C
20	DB39-00866B	ASS'Y C/W HVPS(12V)	ASS'Y	1	DB93-02542C
21	DB72-00126N	SEAL	T3,FOAM-PE,GRAY	1	
22	3903-000095	POWER CORD	PLUG	1	
	DB93-01549B	POWER CORD	NO PLUG	1	
23	6001-001054	SCREW-MACHINE	TH M4xL10	1	

■ AQ(T)12P4G* / SH12ZP4* : DB93-02541A(Ionizer)
DB93-02541B(Titanium Filter)

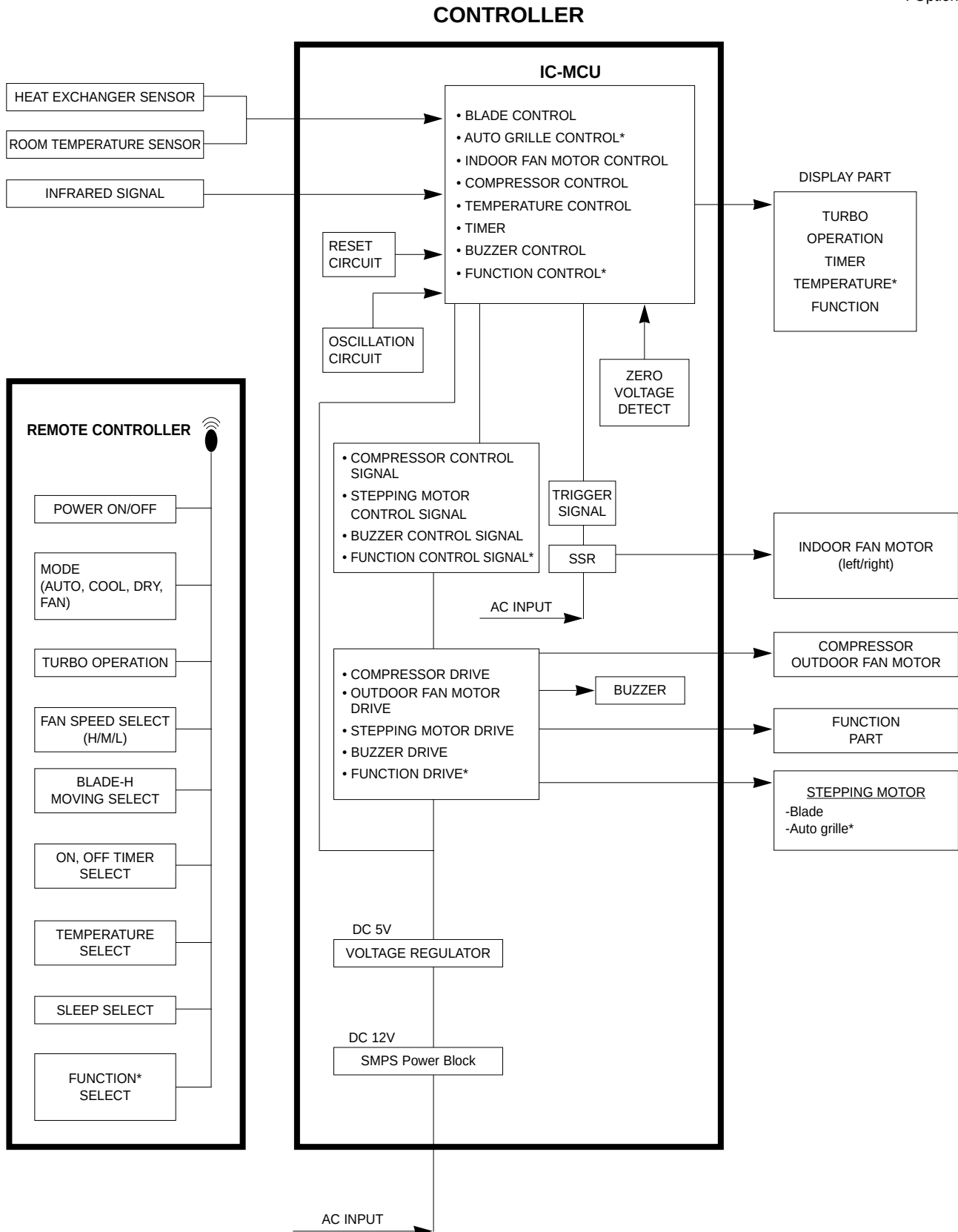


■ Parts List

No.	Code No.	Description	Specification	Q'TY	Remark
1	DB61-01631A	CASE-CONTROL AC	ABS	1	
2	DB93-02572A	ASS'Y-MAIN PCB	ASS'Y	1	
3	DB93-01368G	ASS'Y S/W & DISPLAY PCB	ASS'Y	1	
4	DB93-01369A	ASS'Y-MODULE PCB	ASS'Y	1	
5	DB93-02508A	ASS'Y TERMINAL BLOCK	ASS'Y	1	
6	DB70-00289A	PLATE TERMINAL LOW	SGCC-M,T1.2	1	
7	DB61-00171A	HOLDER WIRE CRAMP	HIPS	1	
8	DB32-00020A	ASS'Y THERMISTOR	ASS'Y	1	
9	6001-000929	SCREW-MACHINE	PH M3xL22	1	
10	6001-000725	SCREW-MACHINE	TH M4xL16	2	
11	DB93-01380A	C/W MODULE	ASS'Y	1	
12	DB39-00643F	C/W STEP MOTOR UP/DOWN	ASS'Y	1	
13	DB62-01368X	SEAL	61x40x3,30FOAM-PE,GRAY	1	
14	-	SCREW-MACHINE	PH M4x10	1	
15	DB39-00780B	C/W STEPPING MOTOR	ASS'Y(AUTO GRILLE)	1	
16	DB39-00820A	C/W ION-PCB	ASS'Y	1	DB93-02541A
17	DB61-01110A	HOLDER-DISPLAY	ABS	1	
18	DB64-00763A	HALF MIRROR	95,T1.5	1	
19	DB93-01387A	ASS'Y PCB HVPS	ASS'Y	1	DB93-02541B
20	DB39-00866B	ASS'Y C/W HVPS(12V)	ASS'Y	1	DB93-02541B
21	DB72-00126N	SEAL	T3,FOAM-PE,GRAY	1	

8. Block Diagram

* : Option

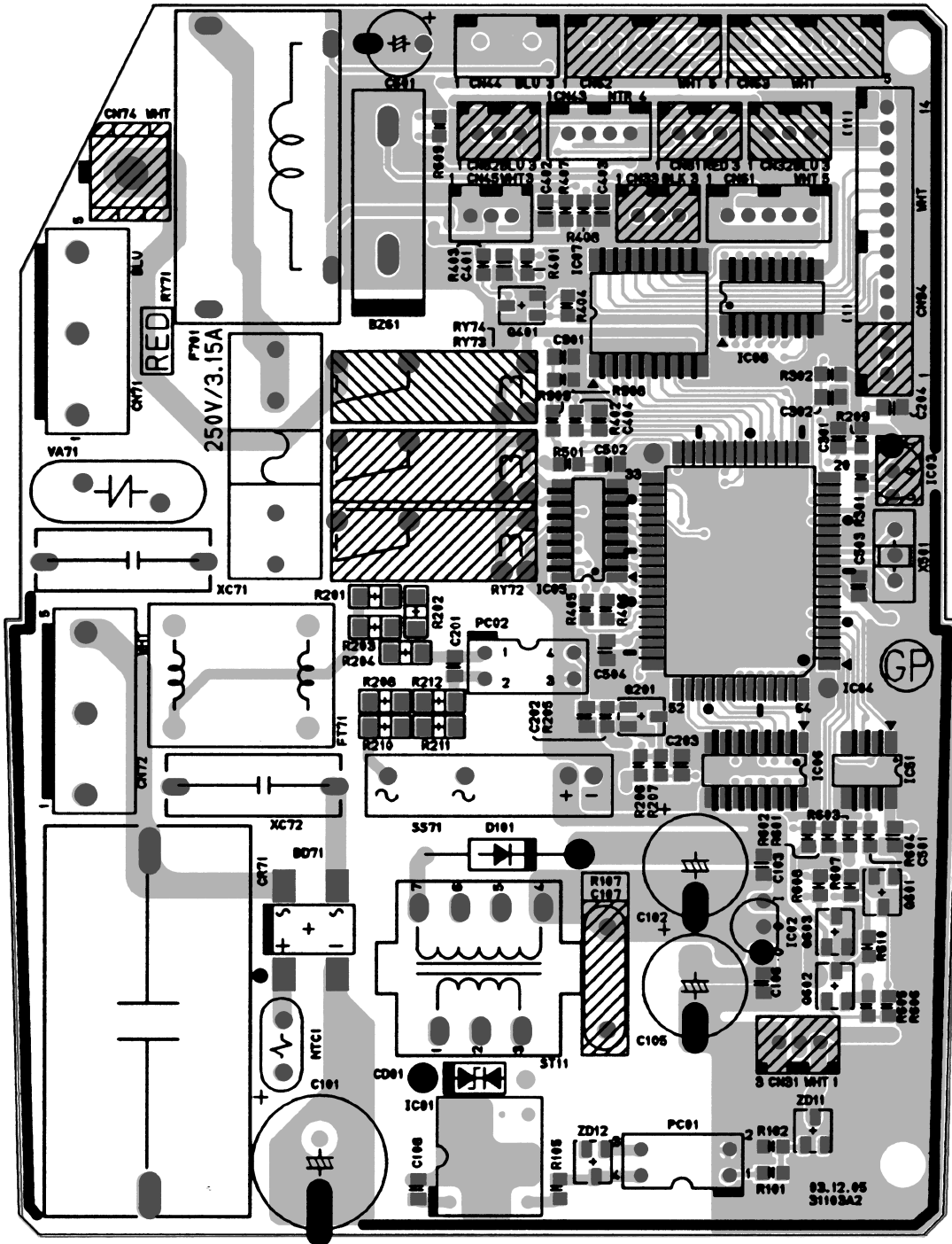


9. PCB Diagram

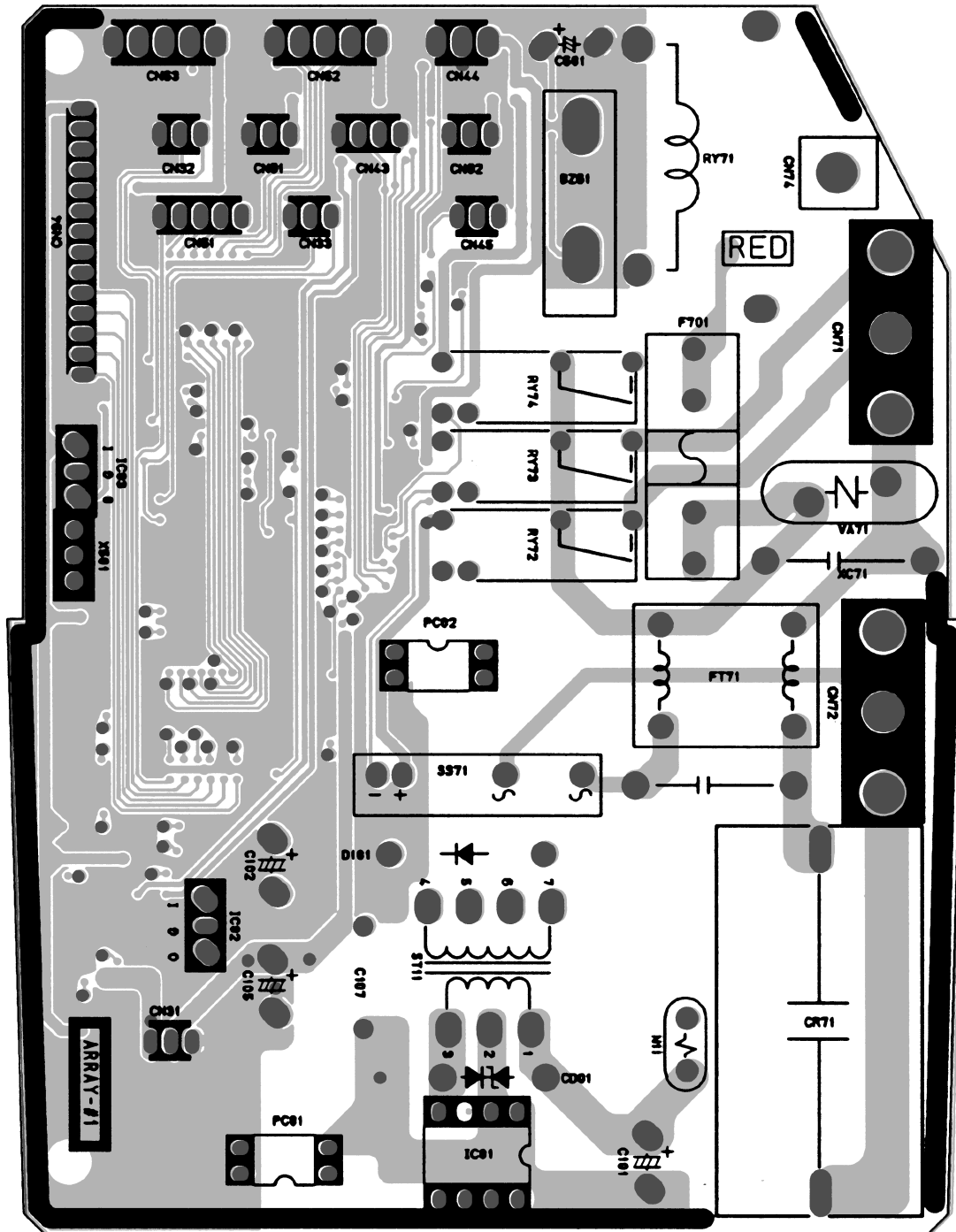
9-1 ASS'Y MAIN PCB(7K/9K/12K)

9-1-1 DB93-02685A(Ionizer)
DB93-02685L(Titanium Filter)

■ TOP



■ BOTTOM



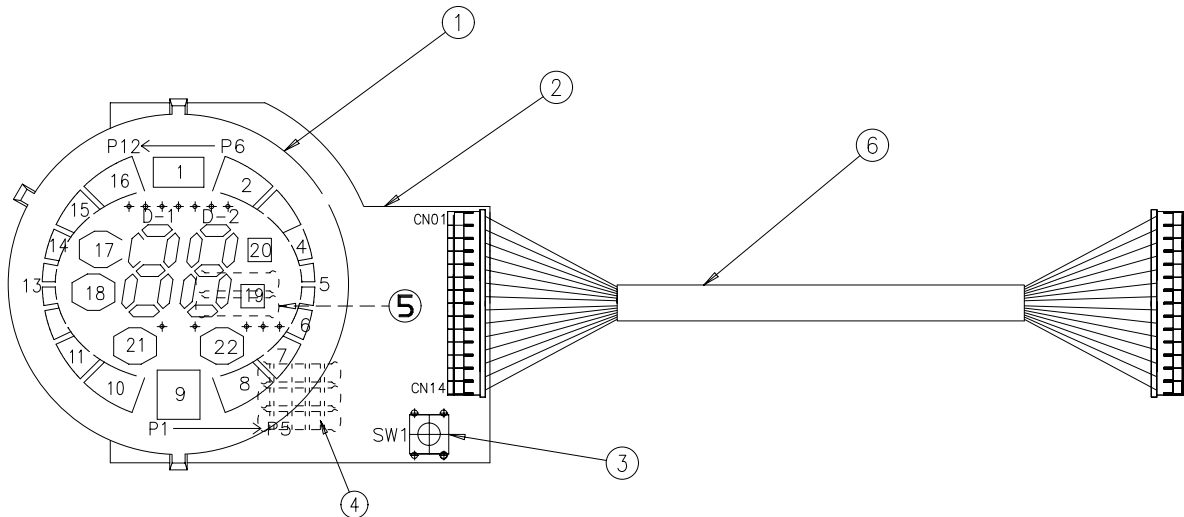
■ Parts List

Location No.	Description	Specification	Q'TY	Remark
BD71	DIODE-BRIDGE	DF06S,600V,1A,SMD-4,TP	1	SNA
BZ61	BUZZER-PIEZO	CBE2220BPC,85DB,-,-,2KHz,-	1	SNA
C101	C-AL	10uF,20%,450V,GP,TP,13x20mm,5m	1	SNA
C102	C-AL	470uF,20%,25V,GP,TP,10x12.5mm	1	SNA
C103,C106,C108,C201 C204,C301,C302,C402 C403,C501~C504,C901	C-CERAMIC	100nF,+80-20%,50V,Y5V,TP,2012	14	SNA
C105	C-AL	470uF,20%,16V,GP,TP,10x12.5,5	1	SNA
C202,C203,C404	C-CERAMIC	10nF,+80-20%,50V,Y5V,TP,2012	3	SNA
C401	C-CERAMIC	1nF,10%,50V,X7R,TP,2012,-	1	SNA
C601	C-AL	47uF,20%,50V,GP,TP,6.3x11,5	1	SNA
CD01	DIODE-TVS	ST02D-200,185/200/215V,200W,DO-214	1	SNA
CN43	CONNECTOR-HEADER	SMW200-04,NTR,BOX,4P,1R,2mm,STRAIGHT,SN	1	SNA
CN44	CONNECTOR-HEADER	SMW250-03,BLU,BOX,3P,1R,2.5mm,STRAIGHT,SN	1	SNA
CN45	CONNECTOR-HEADER	SMW200-03,NTR,BOX,3P,1R,2mm,STRAIGHT,SN	1	SNA
CN61	CONNECTOR-HEADER	SMW200-05,NTR,BOX,5P,1R,2mm,STRAIGHT,SN	1	SNA
CN71	CONNECTOR-HEADER	YW396-05AV,BLU,1WALL,3P,1R,7.92mm,STRAIGHT,SN	1	SNA
CN72	CONNECTOR-HEADER	YW396-05AV,WHT,1WALL,3P,1R,7.92mm,STRAIGHT,SN	1	SNA
CN81	CONNECTOR-HEADER	SMW200-03,BLU,BOX,3P,1R,2mm,STRAIGHT,SN	(1)	SNA
CN82	CONNECTOR-HEADER	SMW200-03,RED,BOX,3P,1R,2mm,STRAIGHT,SN	(1)	SNA
CN94	CONNECTOR-HEADER	SMW200-14,NTR,BOX,14P,1R,2mm,STRAIGHT,SN	1	SNA
CR71	C-FILM,MPPF	1.2uF,10%,450Vac,BK,38x18x30,3	1	SNA
D101	DIODE-RECTIFIER	UG2D,200V,2A,DO-204AC,TP	1	SNA
F701	FUSE-CARTRIDGE	250V,3.15A,TIME-LAG,GLASS,5x20mm,521-3150-401	1	SNA
F701	FUSE-CLIP	AFC-520	1	SNA
FT71	NOISE-FILTER	LS404190M,AS-S660,19MH,+50,-30%,-,300Mohm,2A	1	SNA
IC01	IC-PWM CONTROLLER	TNY266P,DIP,8P,300MIL,PLASTIC,-0.3/7	1	SNA
IC02	IC-POSI.ADJUST REG.	KA78L05A,TO-92,3P,-,PLASTIC,4.6	1	SNA
IC04	IC MICOM	S3C848AXZZ-QTRA,-,64P,+5V,10MHz,STM-0219-BA	1	SNA
IC05,IC06,IC08	TR-ARRAY	ULN2003AFW,NPN,7,1W,SOP-16,ST,1000	3	SNA
IC07	IC-SOURCE DRIVER	TD62783AFW,SOL,18P,-,8,-500mA,TP	1	SNA
IC51	IC-EEPROM	93LC56,128x16Bit,SOP,8P,150MIL,-,2.5V,-	1	SNA
NTC1	THERMISTOR-NTC	22ohm,1.4A,3100K,9.5mW/C,-,7.0,-	1	SNA
PC01	PHOTO-COUPLER	PC817X2,TR,130-260%,200mW,DIP-4,ST	1	SNA
PC02	PHOTO-COUPLER	PC814X1,TR,50-150%,200mW,DIP-4,ST	1	SNA
Q201,Q401,Q601,Q603	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,1	4	SNA
Q602	TR-SMALL SIGNAL	MMST2907A,PNP,200mW,SOT-23,TP,100-	1	SNA
R101	R-CHIP	100ohm,5%,1/10W,TP,2012	1	SNA

■ Parts List (cont.)

Location No.	Description	Specification	Q'TY	Remark
R102	R-CHIP	2.2Kohm,5%,1/10W,TP,2012	1	SNA
R105,R607,R608	R-CHIP	470ohm,5%,1/10W,TP,2012	3	SNA
R107C107	C&R NETWORK	R-METAL-GLAZE,12Mohm,1/2W,5%,0.5W,2.2nF	1	SNA
R201~R204,R208	R-CHIP	47Kohm,5%,1/4W,TP,3216	8	SNA
R210~R212				
R205,R501,R601	R-CHIP	10Kohm,5%,1/10W,TP,2012	6	SNA
R603,R605,R908				
R206,R207,R209	R-CHIP	1Kohm,5%,1/10W,TP,2012	11	SNA
R301,R302,R401				
R402,R404,R602				
R604,R610				
R403	R-CHIP	6.8Kohm,5%,1/10W,TP,2012	1	SNA
R405,R406	R-CHIP	330ohm,5%,1/10W,TP,2012	2	SNA
R407,R408	R-CHIP	6.8Kohm,1%,1/10W,TP,2012	2	SNA
R606,R909	R-CHIP	4.7Kohm,5%,1/10W,TP,2012	2	SNA
R609	R-CHIP	560ohm,5%,1/10W,TP,2012	1	SNA
RY71	RELAY-POWER	UKH-12S,12VDC,0.9W,20000mA,SPST,20mS,10mS	1	SNA
RY72,73	RELAY-POWER	DC12V,3A,250VAC,-,-,10mS,10mS	1	SNA
SS71	SSR	AQG22212,12Vdc,-,2A,1mS,1mS	1	SNA
ST11	TRANS SWITCHING	-,JT1916-09,-,310V,FERRITE,-,EI1916	1	SNA
VA71	VARISTOR	INR14D561K-RS,560V,2500A,17.5x7.5mm,TP	1	SNA
X501	RESONATOR-CERAMIC	10MHz,0.5%,TP,10.0x5.0x8.0mm	1	SNA
XC71	C-FILM,PCF	220nF,10%,275V,BK,18X10X6,18	1	SNA
XC72	C-FILM,MPPF	100nF,10%,275V,BK,18x6x12,15	1	SNA
ZD11	DIODE-ZENER	BZX84-C11,10.4-11.6V,350mW,SOT-23,TP	1	SNA
ZD12	DIODE-ZENER	BZX84C3V6,3.6,350mW,SOT-23,TP	1	SNA
	PCB	FR-4,1x2,W194xH140,REV No.-31103A2	1	SNA

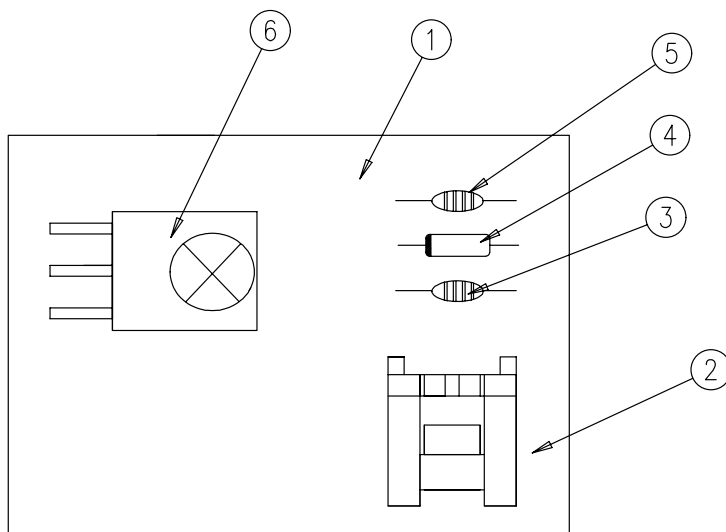
9-2 ASS'Y DISPLAY PCB(7K/9K/12K) : DB93-01368G



■ Parts List

No	Description	Specification	Q'TY	Remark
1	ASS'Y LED MODULE		1	SNA
2	PCB-DISPLAY	FR-1 T1.6	1	SNA
3	TACT SWITCH	KPT-1105A	1	SNA
4	RESISTOR	200ohm, 2W	2	SNA
5	RESISTOR	100ohm, 2W	3	SNA
6	CONNECTOR WIRE	14P	1	SNA

9-3 ASS'Y MODULE PCB : DB93-01369A

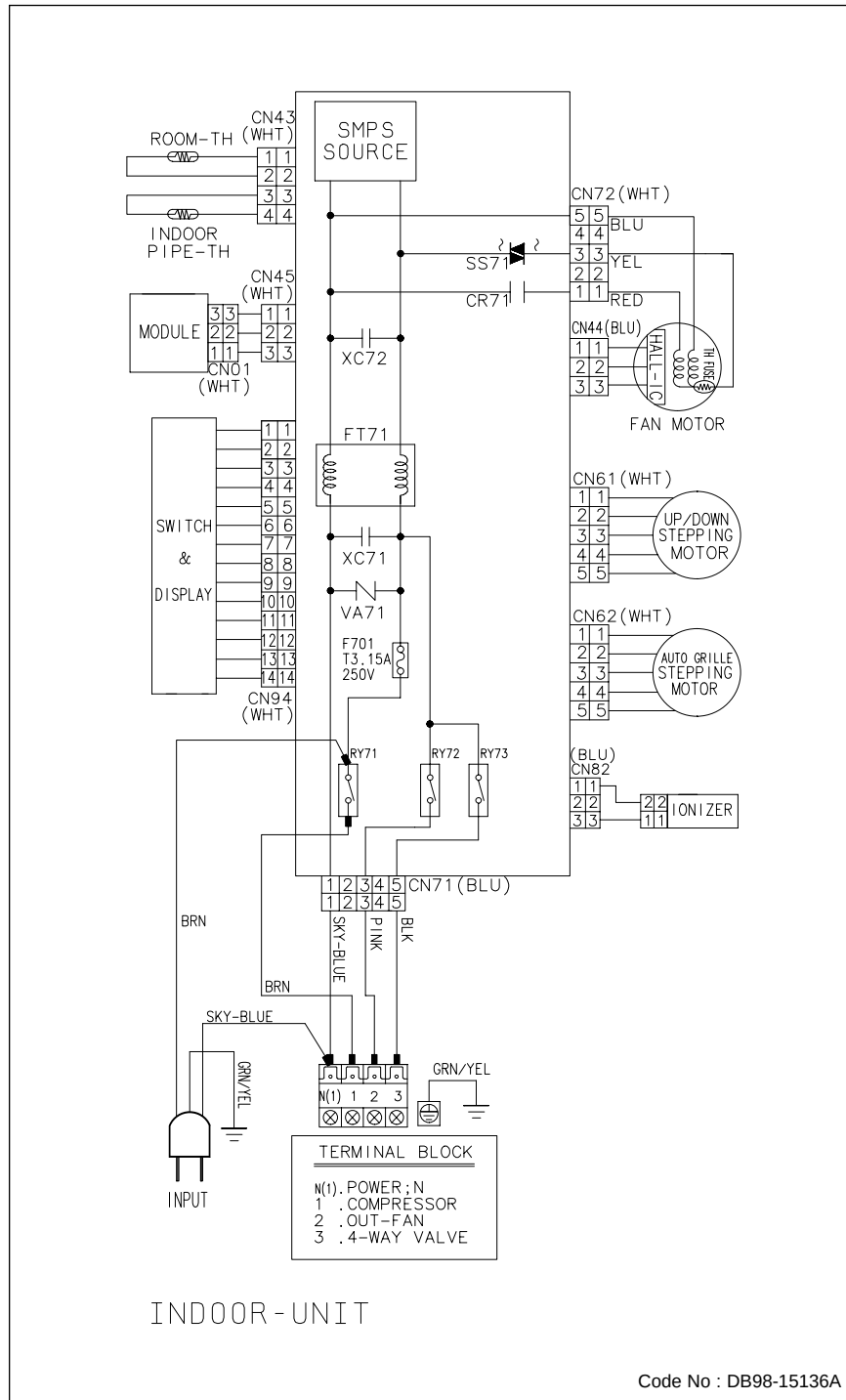


■ Parts List

No	Description	Specification	Q'TY	Remark
1	PCB MODULE	FR1 T1.6	1	SNA
2	CONNECTOR-HEADER	BOX, 3P, 1R, 2mm, ANGLE, SN	1	SNA
3	C-CERAMIC, MLC-AXIAL	1nF, 10%, 50V, Y5P, TP, 1.9 x 3.5, -	1	SNA
4	DIODE-SWITCHING	1N4148, 100V, 200mA, DO-35, TP	1	SNA
5	C-CERAMIC, MLC-AXIAL	100nF, +80-20%, 50V, Y5V, TP, 3.5 x 1	1	SNA
6	MODULE	FRP4021H7	1	SNA

10. Wiring Diagram

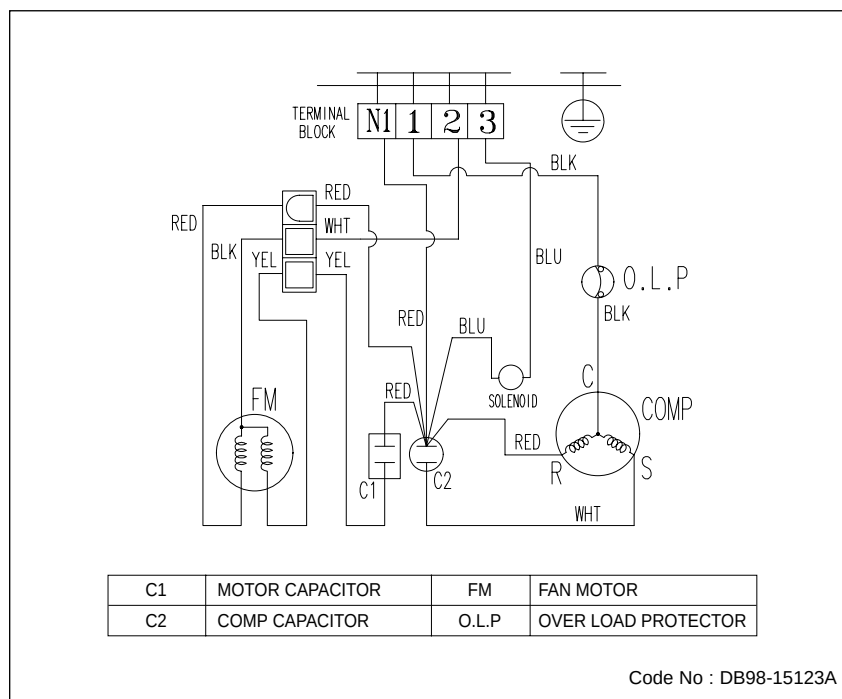
10-1 Indoor Unit(7K/9K/12K)



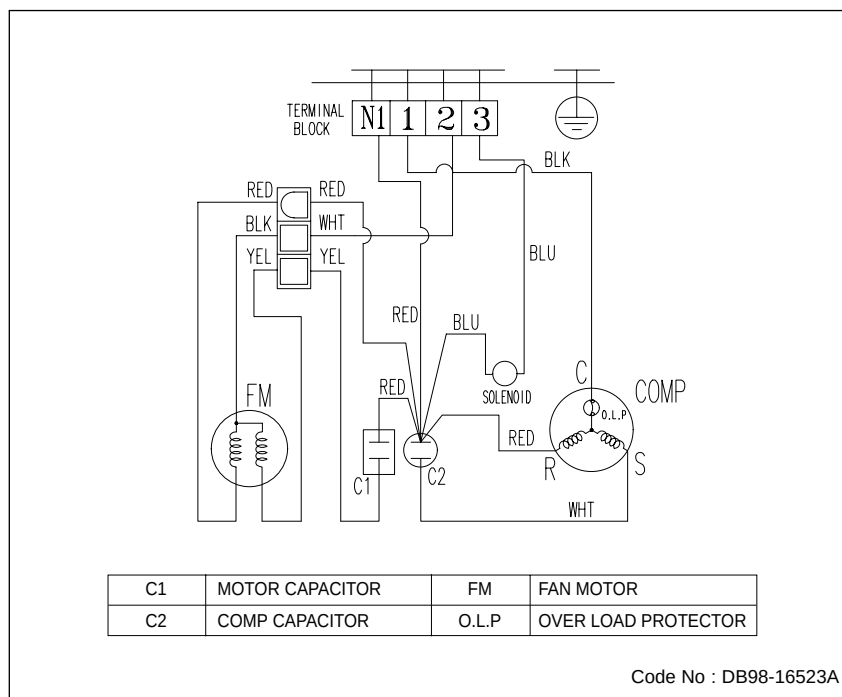
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10-2 Outdoor Unit

■ SH07ZP2X/SH09ZP2X/UQT12P4GB/UQT12P4GE

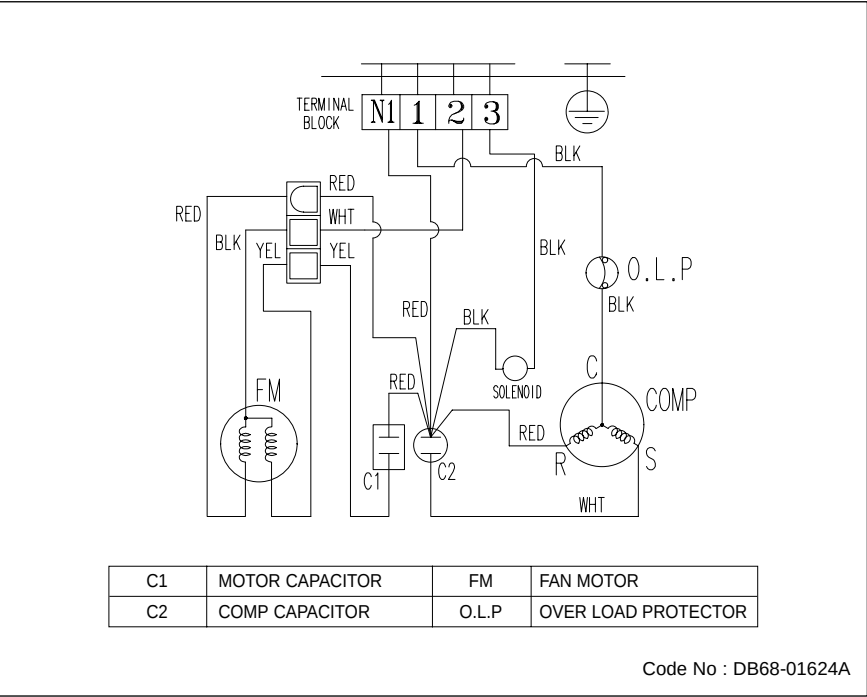


■ SH12ZP4X



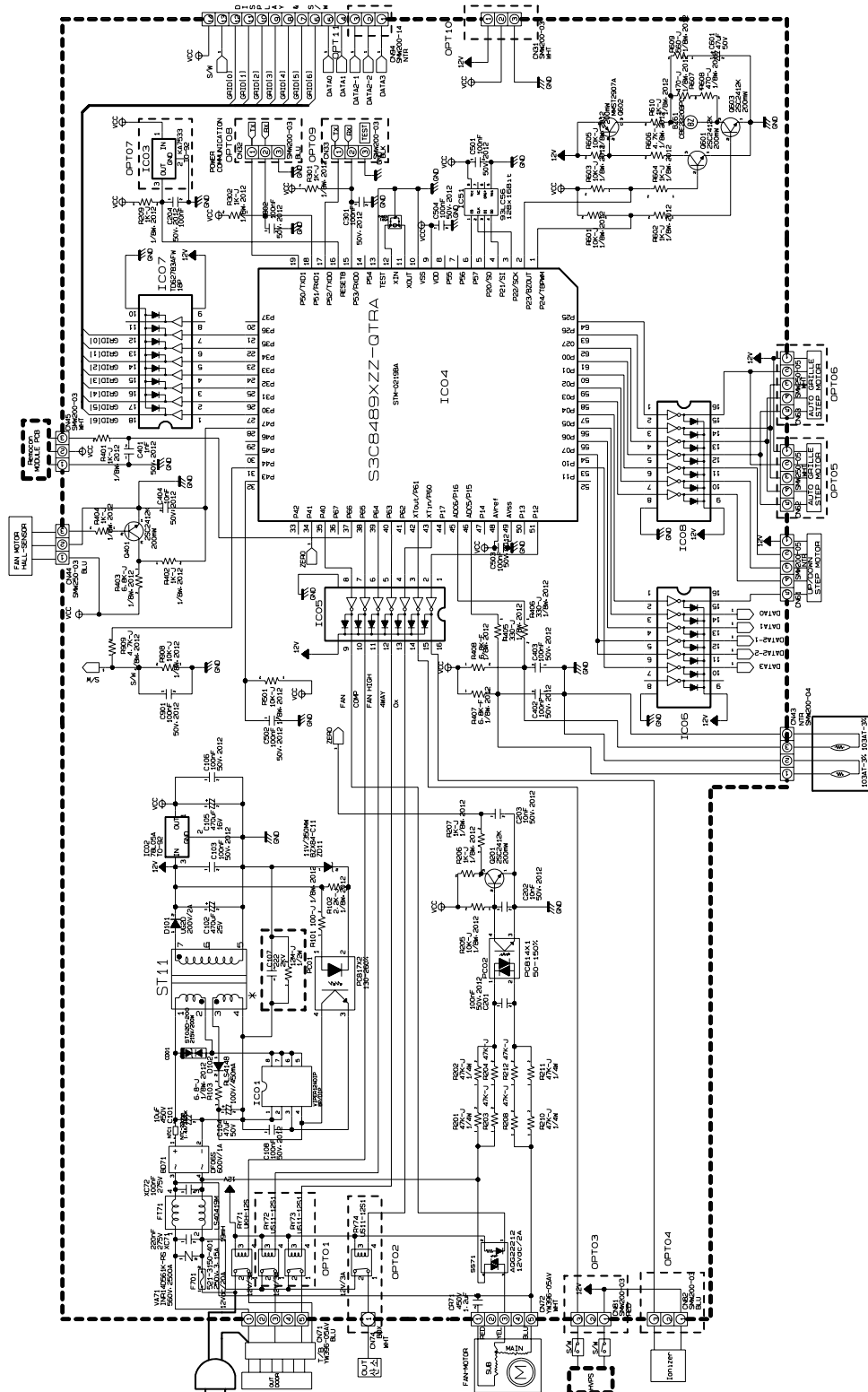
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■ SH07ZP2AX / SH09ZP2AX / SH12ZP4AX / UQ07P2GE / UQ09P2GE / UQ12P4GE



11. Schematic Diagram

11-1 Indoor Unit(7K/9K/12K)



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