

ROOM AIR CONDITIONER

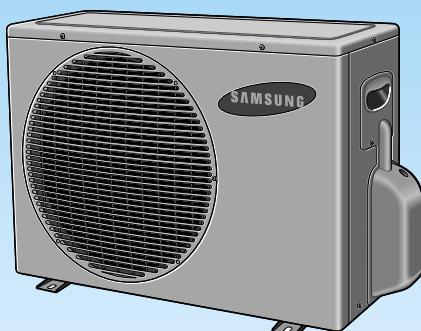
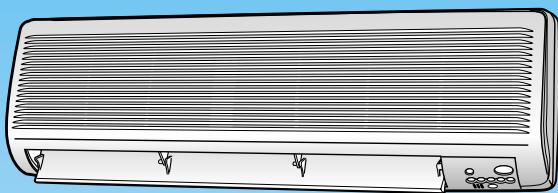
INDOOR UNIT

AS12*5(6)MB	AS07*5(6)MA	US12*5(6)MB	US07*5(6)MA
AS12*5(6)ME	AS09*5(6)MA	US12*5(6)ME	US09*5(6)MA
AS09*5(6)ME	AS12*A(B)ME	US09*5(6)ME	US12*A(B)ME
SC09Z*5(6)	AS09*5(6)MED	SC09Z*5(6)X	US09*5(6)MED
AS07*5(6)ME	AS07*5(6)MED	US07*5(6)ME	US07*5(6)MED
SC07Z*5(6)	SC12Z*A(B)	SC07Z*5(6)X	SC12Z*A(B)X
AS09*7(8)ME	SC09Z*5(6)D	US09*7(8)ME	SC09Z*5(6)DX
SC09Z*7(8)	SC07Z*5(6)D	SC09Z*7(8)X	SC07Z*5(6)DX
AS07*7(8)ME	AS12*A(B)MB	US07*7(8)ME	US12*A(B)MB
SC07Z*7(8)	AS14*A(B)TB	SC07Z*7(8)X	US14*A(B)TB
AS09*7(8)MD		US09*7(8)MD	
AS07*7(8)MD		US07*7(8)MD	
AS09*7(8)MB		US09*7(8)MB	
AS07*7(8)MB		US07*7(8)MB	
AS12*9(0)ME		US12*9(0)ME	
SC12Z*9(0)		SC12Z*9(0)X	

OUTDOOR UNIT

SERVICE *Manual*

AIR CONDITIONER



CONTENTS

1. Precautions
2. Product Specifications
3. Operating Instructions and Installation
4. Disassembly and Reassembly
5. Troubleshooting
6. Exploded Views and Parts List
7. Block Diagrams
8. PCB Diagrams
9. Wiring Diagrams
10. Schematic Diagrams

1. Precautions

1. Warning: Prior to repair, disconnect the power cord from the circuit breaker.
2. Use proper parts: Use only exact replacement parts. (Also, we recommend replacing parts rather than repairing them.)
3. Use the proper tools: Use the proper tools and test equipment, and know how to use them. Using defective tools or test equipment may cause problems later-intermittent contact, for example.
4. Power Cord: Prior to repair, check the power cord and replace it if necessary.
5. Avoid using an extension cord, and avoid tapping into a power cord. This practice may result in malfunction or fire.
6. After completing repairs and reassembly, check the insulation resistance.
Procedure: Prior to applying power, measure the resistance between the power cord and the ground terminal. The resistance must be greater than 30 megaohms.
7. Make sure that the grounds are adequate.
8. Make sure that the installation conditions are satisfactory.
Relocate the unit if necessary.
9. Keep children away from the unit while it is being repaired.
10. Be sure to clean the unit and its surrounding area.

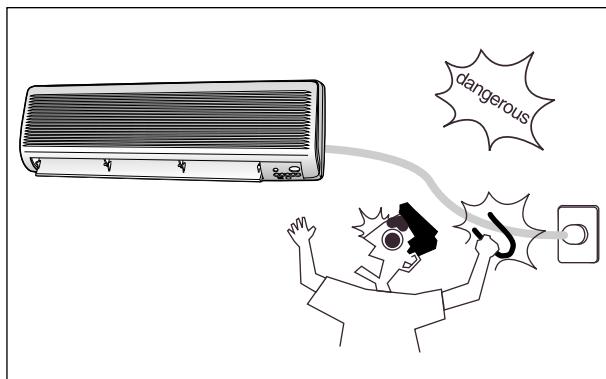


Fig. 1-1 Avoid Dangerous Contact

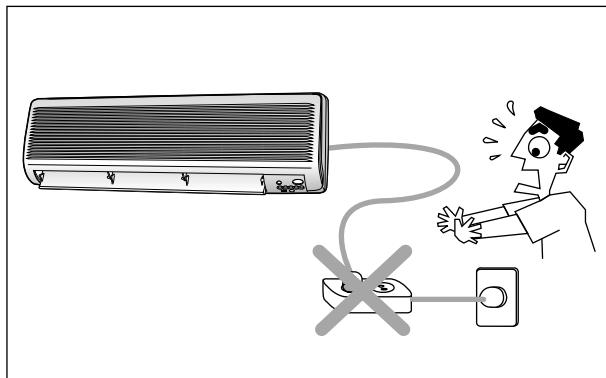


Fig. 1-2 No Tapping and No Extension Cords

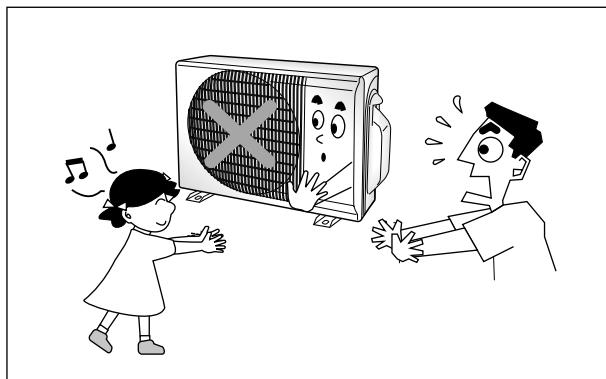


Fig. 1-3 No Kids Nearby!

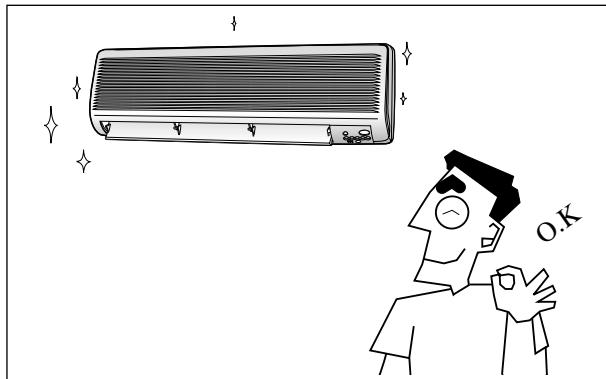


Fig. 1-4 Clean the Unit

2. Product Specifications

2-1 Table

Item	Model	AS12*5(6)MB		AS12*5(6)ME		AS09*5(6)ME/SC09Z*5(6)		AS07*5(6)ME/SC07Z*5(6)					
		Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit				
Type		Wall-mounting			Wall-mounting			Wall-mounting					
Performance	Cooling	BTU/h(KW)	12000		12000 (3.5)		9000 (2.72)		7500 (2.3)				
	Heating	BTU/h(KW)	-		-		-		-				
	Dehumidifying	l/h	1.9		1.9		1.4		0.9				
	Air volume	Cooling	m ³ /min	7.4	19	7.4	19	6.0	18				
		Heating		-	-	-	-	-	-				
	Noise	Cooling	dB	41	53	41	53	38	51				
		Heating		-	-	-	-	-	-				
	Energy efficiency ratio	Cooling	BTU/h•W (W/W)	9.375		10.3		9.474					
		Heating		-		-		-					
Power	Power		V-Hz	1-220 -60		1-220 / 240-50		1-220 / 240-50					
	Power Consumption	Cooling	W	1280		1170		950					
		Heating		-		-		-					
	Operating Current	Cooling	A	6.0		5.0		4.2					
		Heating		-		-		-					
	Power factor	Cooling	%	96.7		101.7		98.3					
		Heating		-		-		-					
	Starting current		A	30		30		30					
	Power cord	Length	m	-		-		-					
		Number of core wire		-		-		-					
Size	Fuse capacity		A	250V / 3.15A		250V / 3.15A		250V / 3.15A					
	Outer Dimension	Width x Height x Depth	mm	790 x 245 x 165	762 x 532 x 280	790 x 245 x 165	762 x 532 x 280	790 x 245 x 165	660 x 497 x 235				
			inch	31.1 x 9.6 x 6.5	30 x 20.9 x 11	31.1 x 9.6 x 6.5	30 x 20.9 x 11	31.1 x 9.6 x 6.5	31.1 x 9.6 x 6.5				
	Weight			7.7	34.5	7.7	34.5	7.7	28.5				
	Refrigerant pipe	Liquid	mm x L(MT)	ø6.35 x 5		ø6.35 x 5		ø6.35 x 5					
		GAS	mm x L(MT)	ø12.7 x 5		ø12.7 x 5		ø9.52 x 5					
	Drain hose		D x L(mm)	ø18 x 2000		ø18 x 2000		ø18 x 2000					
	Compressor	Type		Rotary		Rotary		Rotary					
		Motor	Type	-	-	-	-	-	-				
			Rated output	-	-	-	-	-	-				
	Blower	Type		Cross-flow	Propeller	Cross-flow	Propeller	Cross-flow	Propeller				
		Motor	Type	Resin	steel	Resin	steel	Resin	steel				
			Rated output	W	15	25	15	25	15				
Heat exchanger			2ROW 12STEP	1ROW 20STEP	2ROW 12STEP	1ROW 20STEP	2ROW 12STEP	1ROW 18STEP	2ROW 12STEP				
Refrigerant control unit			CAPILLARY TUBE		CAPILLARY TUBE		CAPILLARY TUBE		CAPILLARY TUBE				
Freezer oil capacity			410		410		360		360				
Refrigerant to change(R-22)			750		750		570		560				
Protection device			MRA 12002-9200 / MRA 12002-12008		MRA 12030-12008 / RAC12030-9622		RAC 12054-12008		RAC 12086-12008				
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					

AS09*7(8)ME/SC09Z*7(8)		AS07*7(8)ME/SC07Z*7(8)		AS12*A(B)ME/SC12Z*A(B)		AS09*5(6)MED/SC09Z*5(6)D		AS07*5(6)MED/SC07Z*5(6)D							
Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit						
Wall-mounting		Wall-mounting		Wall-mounting		Wall-mounting		Wall-mounting							
9000 (2.64)		7500 (2.2)		3.5		9000 (2.73)		7500 (2.3)							
-		-		-		-		-							
1.4		0.9		1.9		1.4		0.9							
6.0	20.5	6.0	20.5	7.4	23	6.0	18	5.6	18						
-	-	-	-	-	-	-	-	-	-						
38	50	38	50	41	53	38	51	35	50						
-	-	-	-	-	-	-	-	-	-						
9.47		10.0		2.99		9.375		10.0							
-		-		-		-		-							
1-220 / 240-50		1-220 / 240-50		1-220 / 240-50		1-220 / 240-50		1-220 / 240-50							
950		750		1170		960		750							
-		-		-		-		-							
4.1		3.2		5.4		4.2		3.3							
-		-		-		-		-							
100.7		101.9		96.0		99.4		98.8							
-		-		-		-		-							
30		30		30		30		30							
-		-		-		-		-							
250V / 3.15A		250V / 3.15A		250V / 3.15A		250V / 3.15A		250V / 3.15A							
790 x 245 x 165	660 x 470 x 242	790 x 245 x 165	660 x 470 x 242	790 x 245 x 165	740 x 530 x 230	790 x 245 x 165	660 x 497 x 235	790 x 245 x 165	660 x 497 x 235						
31.1 x 9.6 x 6.5	26 x 18.5 x 9.5	31.1 x 9.6 x 6.5	26 x 18.5 x 9.5	31.1 x 9.6 x 6.5	291 x 20.6 x 9.1	31.1 x 9.6 x 6.5	26 x 19.6 x 9.3	31.1 x 9.6 x 6.5	26 x 19.6 x 9.3						
7.7	24	7.7	24	7.7	34.0	7.7	28	7.7	28						
ø6.35 x 5		ø6.35 x 5		ø6.35 x 5		ø6.35 x 5		ø6.35 x 5							
ø9.52 x 5		ø9.52 x 5		ø12.7 x 5		ø9.52 x 5		ø9.52 x 5							
ø18 x 2000		ø18 x 2000		ø18 x 2000		ø18 x 2000		ø18 x 2000							
Rotary		Rotary		Rotary		Rotary		Rotary							
-	-	-	-	-	-	-	-	-	-						
-	-	-	-	-	-	-	-	-	-						
Cross-flow	Propeller	Cross-flow	Propeller	Cross-flow	Propeller	Cross-flow	Propeller	Cross-flow	Propeller						
Resin	steel	Resin	steel	Resin	steel	Resin	steel	Resin	steel						
15	25	15	25	15	25	15	25	15	25						
2ROW 12STEP	1ROW 18STEP	2ROW 12STEP	1ROW 18STEP	2ROW 12STEP	1ROW 24STEP	2ROW 12STEP	1ROW 22STEP	2ROW 12STEP	1ROW 22STEP						
CAPILLARY TUBE		CAPILLARY TUBE		CAPILLARY TUBE		CAPILLARY TUBE		CAPILLARY TUBE							
360		360		410		360		360							
600		600		970		425		470							
MRA 12110-12008 / RAC12054-9622		MRA 12086-12008 / RAC12086-9622		RAC12030-9622		RAC 12054-9622		RAC 12086-9622							
INDOOR UNIT : DB27°C WB19°C					OUTDOOR UNIT : DB35°C WB24°C										
INDOOR UNIT : DB32°C WB23°C					OUTDOOR UNIT : DB43°C WB26°C										

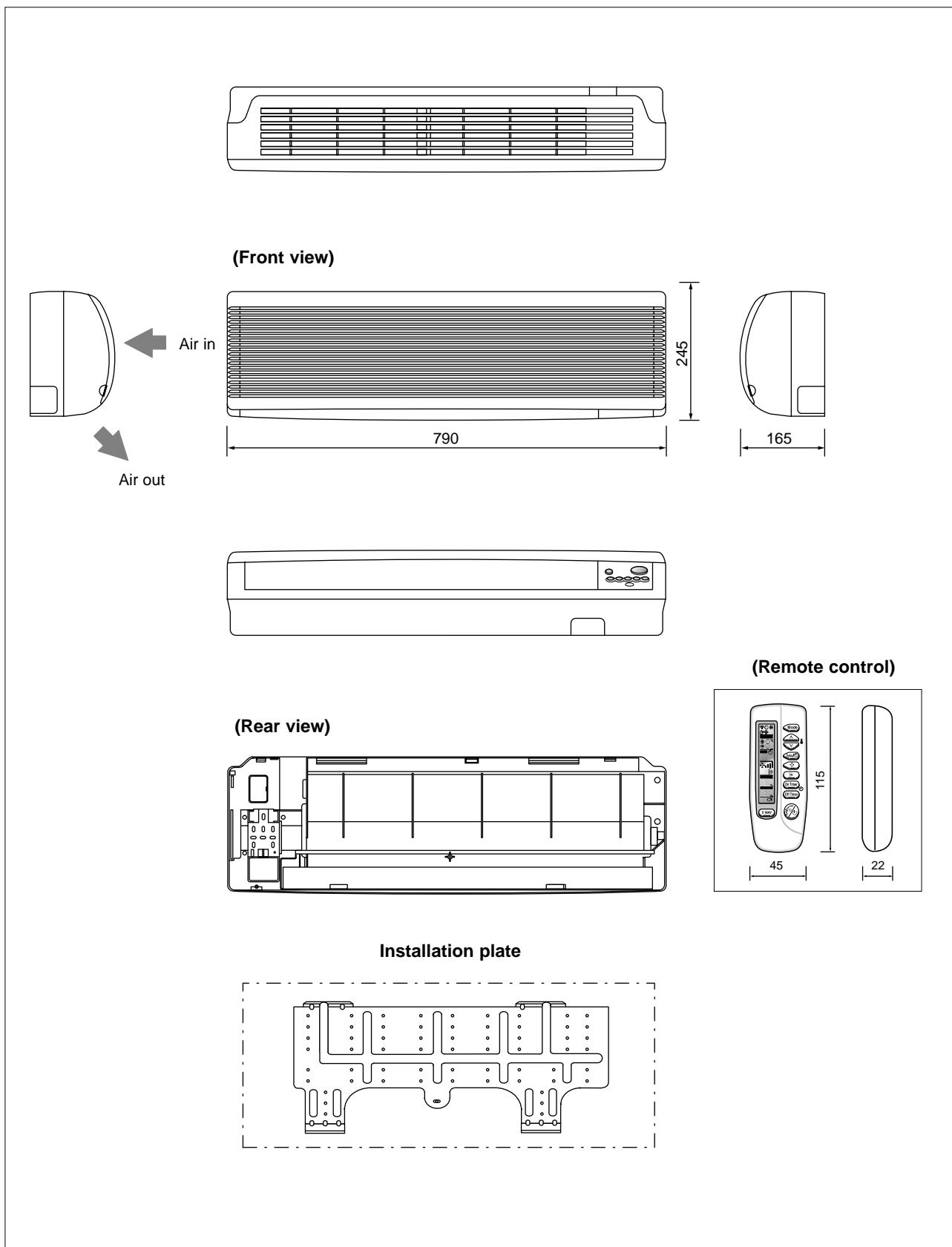
Table (Cont.)

Item		Model	AS09*7(8)MD		AS07*7(8)MD		AS09*7(8)MB		AS14*A(B)TB								
			Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit							
Type			Wall-mounting			Wall-mounting			Wall-mounting								
Performance			9000			7500			9000								
			BTU/h(KW)			-			-								
			1.4			0.9			1.4								
			Air volume	Cooling	m ³ /min	6.0	20.5	5.6	20.5	6.0							
				Heating		-	-	-	-	-							
			Noise	Cooling	dB	38	50	35	50	38							
				Heating		-	-	-	-	-							
			Energy efficiency ratio	Cooling	BTU/h•W (W/W)	9.47			10.0								
				Heating		-			-								
Power			V-Hz		1-220-50		1-220-50		1-220-60								
Power			Power Consumption	Cooling	W	950		750		950							
				Heating		-		-		-							
			Operating Current	Cooling	A	4.4		3.2		4.4							
				Heating		-		-		-							
			Power factor	Cooling	%	98.1		101.9		98.1							
				Heating		-		-		-							
			Starting current		A	30		30		30							
			Power cord	Length	m	-		-		-							
				Number of core wire		-		-		-							
Fuse capacity			A	250V / 3.15A		250V / 3.15A		250V / 3.15A		250V / 3.15A							
Size			Outer Dimension	W x H x D	mm	790 x 245 x 165	660 x 470 x 242	790 x 245 x 165	660 x 470 x 242	790 x 245 x 165	660 x 470 x 242						
					inch	31.1 x 9.6 x 6.5	26 x 18.5 x 9.5	31.1 x 9.6 x 6.5	26 x 18.5 x 9.5	31.1 x 9.6 x 6.5	26 x 18.5 x 9.5						
			Weight			7.7	24	7.7	24	7.7	24						
			Refrigerant pipe	Liquid	mm x L(MT)	06.35 x 5		06.35 x 5		06.35 x 5							
				GAS	mm x L(MT)	09.52 x 5		09.52 x 5		09.52 x 5							
			Drain hose		D x L(mm)	ø18 x 2000		ø18 x 2000		ø18 x 2000							
			Compressor	Type		Rotary		Rotary		Rotary							
				Motor	Type	-	-	-	-	-	-						
				Rated output		-	-	-	-	-	-						
			Blower	Type		Cross-flow	Propeller	Cross-flow	Propeller	Cross-flow	Propeller						
				Motor	Type	Resin	steel	Resin	steel	Resin	steel						
				Rated output	W	15	25	15	25	15	25						
Heat exchanger				2ROW 12STEP	1ROW 18STEP	2ROW 12STEP	1ROW 18STEP	2ROW 12STEP	1ROW 18STEP	2ROW 15STEP	2ROW 24STEP						
Refrigerant control unit				CAPILLARY TUBE		CAPILLARY TUBE		CAPILLARY TUBE		CAPILLARY TUBE							
Freezer oil capacity				360		360		360		360							
Refrigerant to charge(R-22)				600		600		600		800							
Protection device				MRA12067-12007		MST24AMM-12008		MRA12049-12008		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							

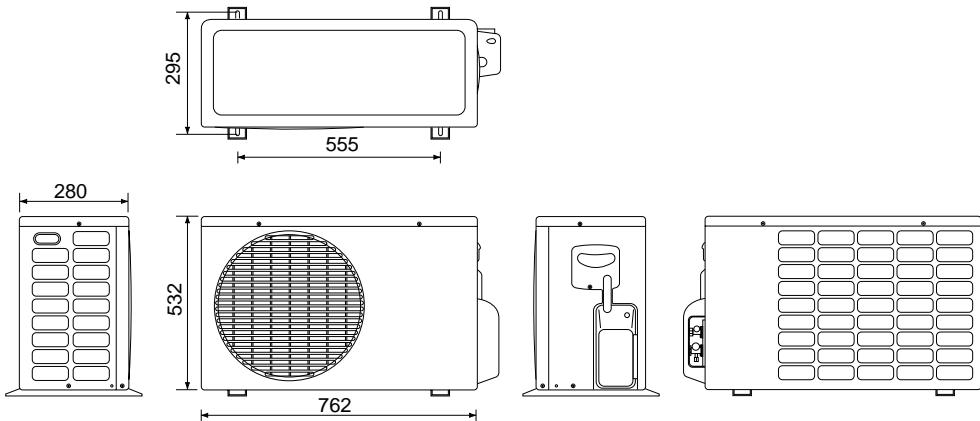
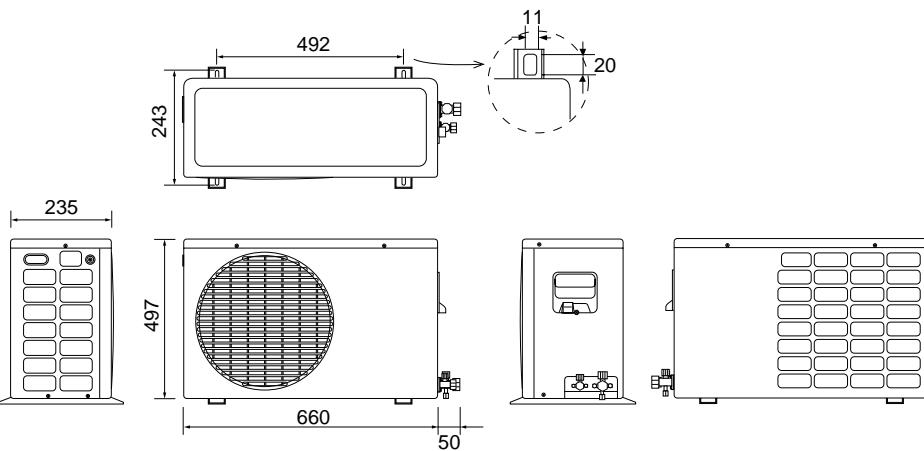
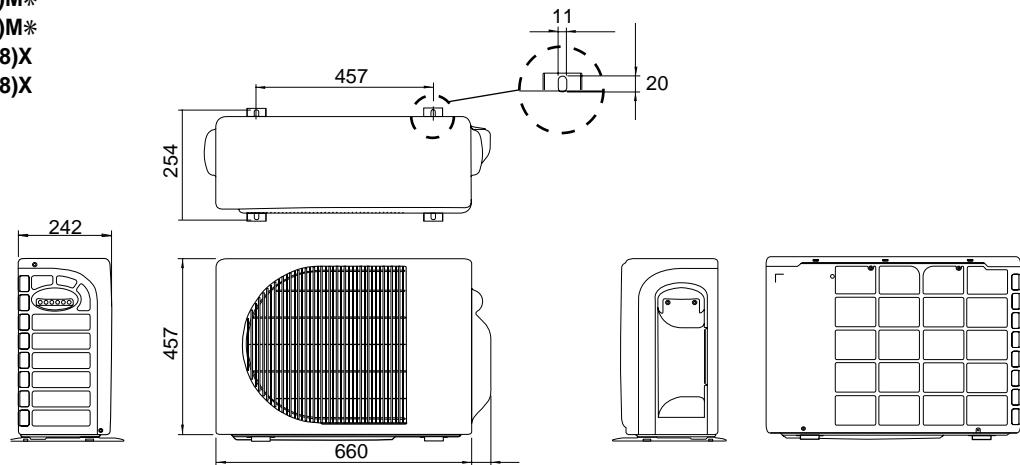
AS07*7(8)MB		AS07*5(6)MA		AS09*5(6)MA		AS12*9(0)ME/SC12Z*9(0)		AS12*A(B)MB							
Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit						
Wall-mounting		Wall-mounting		Wall-mounting		Wall-mounting		Wall-mounting							
7500		7500		9000		12000 (3.5)		12000							
-		-		-		-		-							
0.9		0.9		1.4		1.9		1.9							
5.6	20.5	5.6	20.5	6.0	20.5	7.4	19	7.4	19						
-	-	-	-	-	-	-	-	-	-						
35	50	35	50	38	50	41	53	41	53						
-	-	-	-	-	-	-	-	-	-						
11.5		11.0		10.0		10.3		10.6							
-		-		-		-		-							
1-220-60		1-115-60		1-115-60		1-220 / 240-50		1-220 / 240-50							
750		680		900		1170		1130							
-		-		-		-		-							
3.0		6.4		8.5		5.0		5.3							
-		-		-		-		-							
98.5		92.4		92.1		101.7		98.5							
-		-		-		-		-							
30		32A		47A		30		30							
-		-		-		-		-							
250V / 3.15A		250V / 3.15A		250V-3.15A		250V-3.15A		250V-3.15A							
790 x 245 x 165	660 x 470 x 242	790 x 245 x 165	660 x 470 x 242	790 x 245 x 165	660 x 470 x 242	790 x 245 x 165	720 x 532 x 245	790 x 245 x 165	720 x 532 x 245						
31.1 x 9.6 x 6.5	26 x 18.5 x 9.5	31.1 x 9.6 x 6.5	26 x 18.5 x 9.5	31.1 x 9.6 x 6.5	26 x 18.5 x 9.5	31.1 x 9.6 x 6.5	28.3 x 20.9 x 9.6	31.1 x 9.6 x 6.5	28.3 x 20.9 x 9.6						
7.7	24	7.7	24	7.7	24	7.7	32.5	7.7	32.5						
ø6.35 x 5		ø6.35 x 5		ø6.35 x 5		ø6.35 x 5		ø6.35 x 5							
ø9.52 x 5		ø9.52 x 5		ø9.52 x 5		ø12.7 x 5		ø12.7 x 5							
ø18 x 2000		ø18 x 2000		ø18 x 2000		ø18 x 2000		ø18 x 2000							
Rotary		Rotary		Rotary		Rotary		Rotary							
-	-	-	-	-	-	-	-	-	-						
-	-	-	-	-	-	-	-	-	-						
Cross-flow	Propeller	Cross-flow	Propeller	Cross-flow	Propeller	Cross-flow	Propeller	Cross-flow	Propeller						
Resin	steel	Resin	steel	Resin	steel	Resin	steel	Resin	steel						
15	25	15	25	15	25	15	25	15	25						
2ROW 12STEP	1ROW 18STEP	2ROW 12STEP	1ROW 18STEP	2ROW 12STEP	1ROW 18STEP	2ROW 12STEP	2ROW 20STEP	2ROW 12STEP	2ROW 20STEP						
CAPILLARY TUBE		CAPILLARY TUBE		CAPILLARY TUBE		CAPILLARY TUBE		CAPILLARY TUBE							
360		360		360		410		410							
600		600		600		1040		850							
MRA12043-12008		MRA98706-12008		MRA 12093-12007		MRA 12030-12008 / RAC12030-9622		RAC12074-9622							
INDOOR UNIT : DB27°C WB19°C					OUTDOOR UNIT : DB35°C WB24°C										
INDOOR UNIT : DB32°C WB23°C					OUTDOOR UNIT : DB43°C WB26°C										

2-2 Dimensions

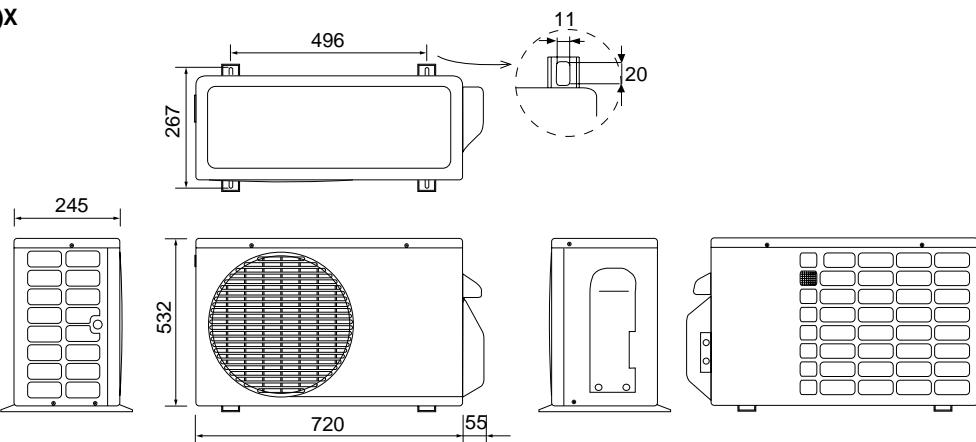
2-2-1 Indoor Unit



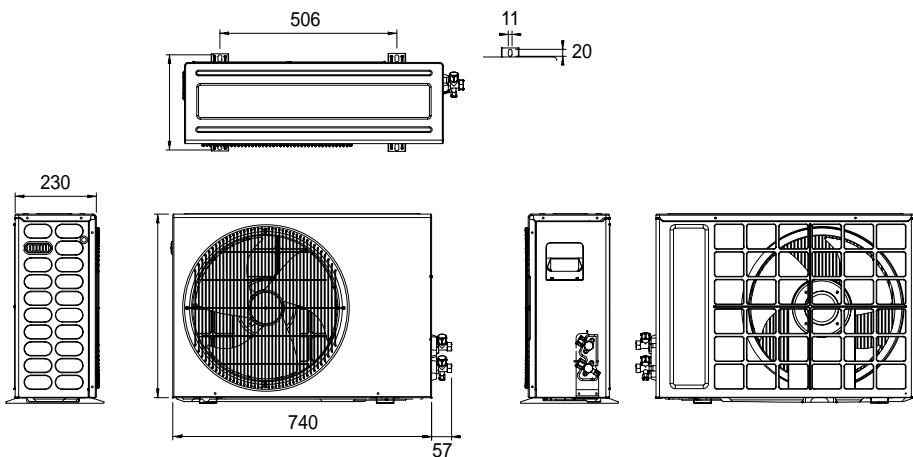
2-2-2 Outdoor Unit

US12*5(6)M***US09*5(6)M*****US07*5(6)M*****SC09Z*5(6)X*****SC07Z*5(6)X*****US09*5(6)M*D****US07*5(6)M*D****SC09Z*5(6)DX****SC07Z*5(6)DX****US09*7(8)M*****US07*7(8)M*****SC09Z*7(8)X****SC07Z*7(8)X**

US12*9(0)M*
SC12Z*9(0)X

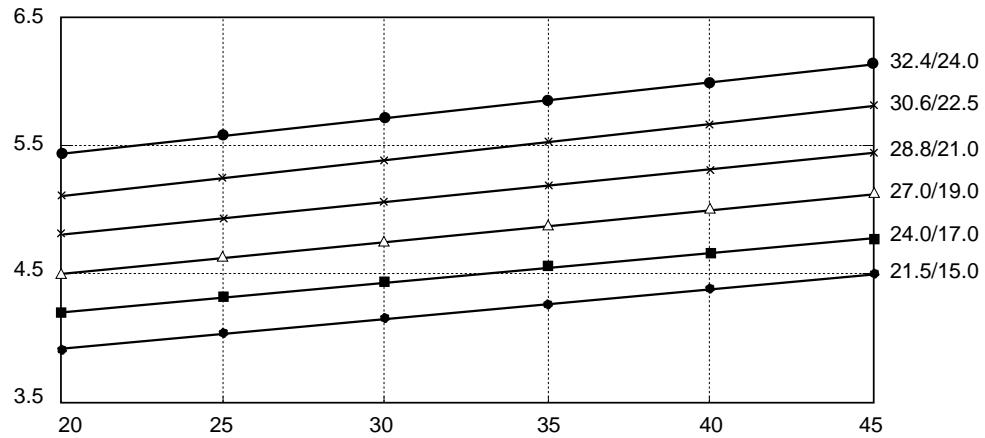


US12*A(B)M*
SC12Z*A(B)X
US14*A(B)TB

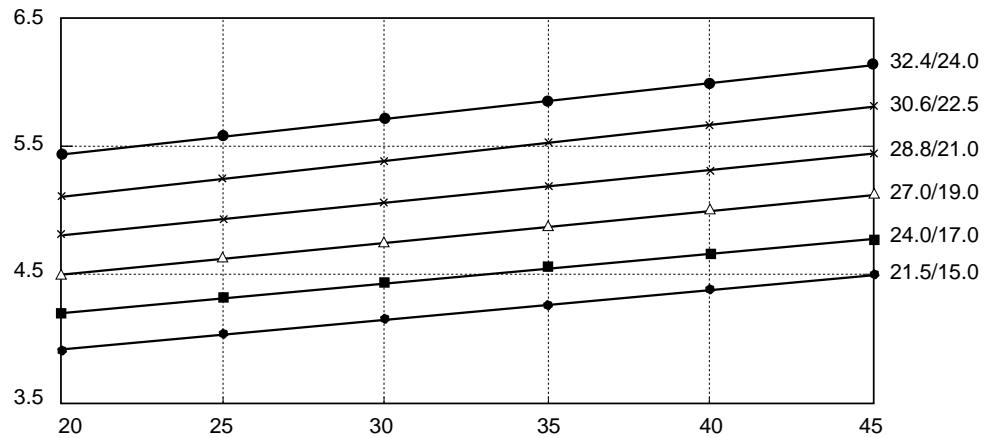


2-3 Pressure Graph

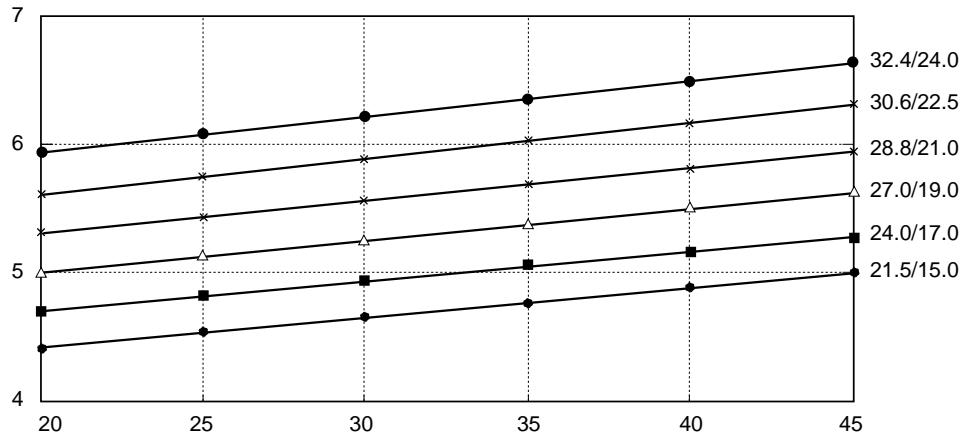
12K BTU



9K BTU



7K BTU

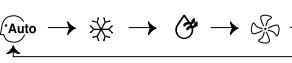
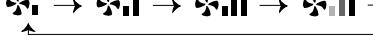


MEMO

3. Operating Instructions and Installation

3-1 Operating Instructions

3-1-1 The Feature of Key in remote controller

NO	NAMED OF KEY	FUNCTION OF KEY
1		Power On/Off button to start and stop airconditioner or timer set up.
2		Temp. up button. To increase the temperature by the pressing the temperature button.
2		Temp. down button. To decrease the temperature by the pressing the temperature button.
3		Each time you press this button Mode is changed in the following order   : Auto Mode  : Fan Only  : Cool Mode  : Dry Mode
4		Press TURBO until the appearance. the air condition cools or heats the room as quickly as possible. after 30minutes, the air, the airconditioner is reset automatically to the previous mode.
		Press  until the appearance. 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 six hours.
5		Each time you press this button, FAN SPEED is changed in the following order. 
6		Adjust air flow vertically.
7		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 cancel, press the  .
8		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 cancel, press the  .
9		To select the 5 way function with the remote control, press the 5 way button one or more times until the desired mode is selected. Each time you press the 5 way button.  Each 5 way indicator on the indoor unit comes on in order.

3-1-2 Name & Function of Key in remote controller

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

Operation Type	Room Temp.	
Cool Operation	$Tr \geq 25^{\circ}C + \Delta T$	Compressor ON
	$Tr \leq 24^{\circ}C + \Delta T$	Compressor OFF

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

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

*FAN SPEED : AUTO

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

3. 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)

4. TURBO MODE : This mode is available in AUTO, COOL, 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.

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

The operation will stop after 6 hours.

*In COOL mode : The setting temperature is automatically raised by $1^{\circ}C$ each 1hour When the temperature has been raised by total of $2^{\circ}C$, that temperature is maintained.

6. FAN SPEED : Manual (3 step), Auto (4 step) Fan speed automatically varies depending on both the difference between setting and the room temperature.

7. COMPULSORY OPERATION : For operating the air conditioner without the remote controller.

*AUTO : The operating is the same function that AUTO MODE in the remote controller. And each time you press the button the 5WAY function is changed as follow.

STD → NATURE → POWER → SAVING → SILENCE → POWER OFF
Each time you press This button, 5WAY function is changed in the following order
STD(standard) → NATURE → POWER(High-speed) → Saving(Power-Saving) → SILENCE → POWER OFF

* STD(standard)() : General operation Mode

* NATURE() : The unit is operated according to health pattern control

* POWER() : The unit is operated in powerful state

* SAVING() : The unit is operated in power saving state

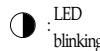
* SILENCE() : The unit is operated quietly

Each mode has Auto, Cool and SLEEP operation designed in advance.

8. 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.
9. 24-Hour ON/OFF Real Setting Timer. : The air conditioner is turned ON at a specified time using  .
OFF TIMER : The air Conditioner is turned OFF at a specified time using  .
*ON TIMER : Only timer LED lights on.
*OFF TIMER : Both timer and operation LED lights on.

10. SELF Diagnosis

Check Point	LED DISPLAY					
	TIMER	STD	NATURE	POWER	SAVING	SILENCE
						
Indoor unit room temperature sensor error(open or short)						
Indoor unit heat exchanger temperature sensor error(open or short)						
Indoor fan mal function						
EEPROM error						
Option error(option wasn't set up or option data error)						

 : LED
blinking  : LED off

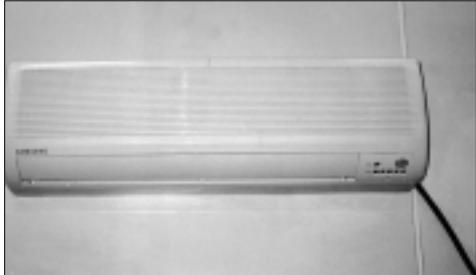
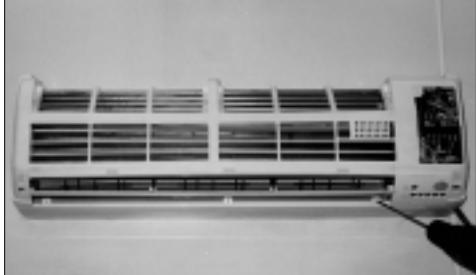
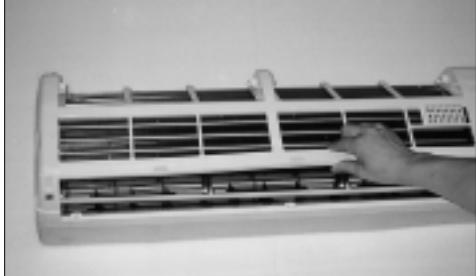
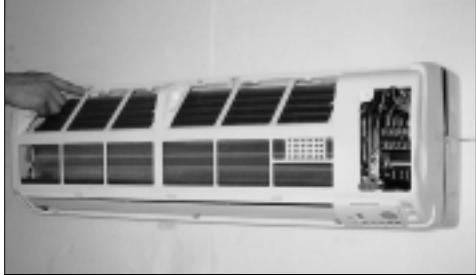
11. BUZZER SOUND : Whenever the ON/OFF button is pressed or whenever change occurs to the condition which is set up or select, the compulsory operation mode, buzzer is sounded "beep".

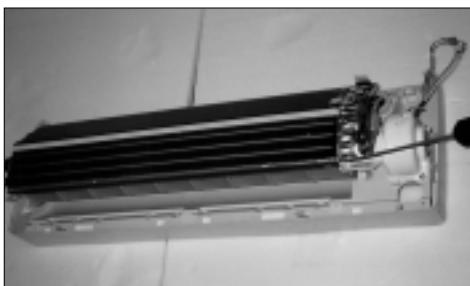
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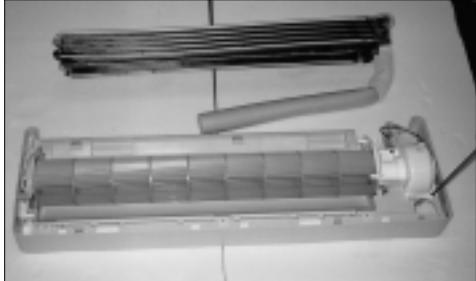
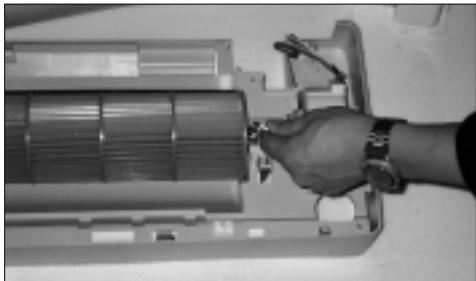
4. Disassembly and Reassembly

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

4-1 Indoor Unit

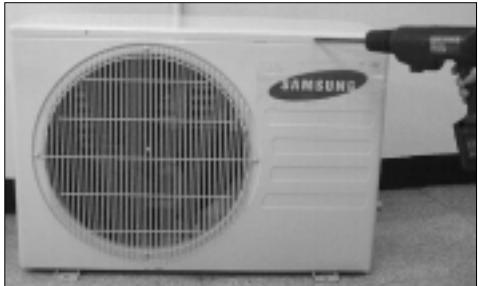
No	Parts	Procedure	Remark
1	Front Grille	<ol style="list-style-type: none">1) Stop the air conditioner operation and block the main power.2) Separate tape of front panel upper. 3) Contract the second finger to the left, and right handle and pull to open the inlet grille.4) Take the left and right filter out. <div style="border: 1px solid black; padding: 5px; text-align: center;">*Taking off the deodorizing filter.</div>5) Loosen one of the right fixing screw and separate the terminal cover.6) Loosen three fixing screws of front grille. 7) Pull the upper left and right of discharge softly for the outside cover to be pulled out. 8) Pull softly the lower part of discharge and push it up. Caution: Assemble the front panel and fix the hooks of left and right.	    

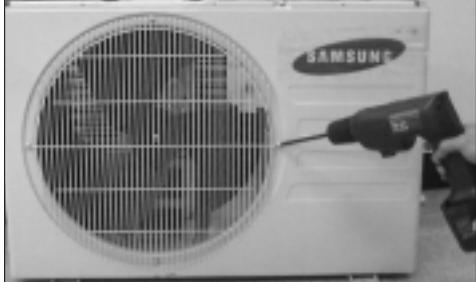
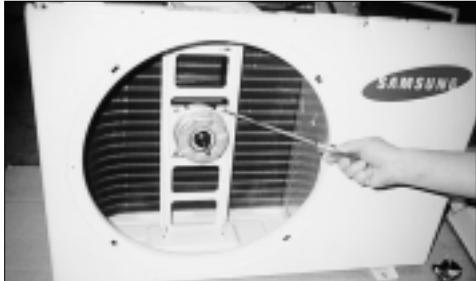
No	Parts	Procedure	Remark
2	Electrical Parts (Main PCB)	<p>1) Do "1" above.</p> <p>2) Take all the connector of PCB upper side out. (Inclusion Power cord)</p> <p>3) Separate the outdoor unit connection wire from the terminal block.</p> <p>4) If pulling the Main PCB up, it will be taken out.</p>	
3	Ass'y Tray Drain.	<p>1) Do "1", "2", above. Separate the drain hose from the extension drain hose.</p> <p>2) Pull tray drain out from the back body.</p>	
4	Heat Exchanger	<p>1) Do "1" and "2", "3", above.</p> <p>2) Loosen two fixing earth screws of right side.</p> <p>3) Separate the connection pipe.</p> <p>4) Separate the holder pipe at the rear side.</p> <p>5) Loosen the three fixing screws of right and left side.</p> <p>6) Lifting the heat exchanger up a little to push the up side for separation from the indoor unit.</p>	  

No	Parts	Procedure	Remark
5	Fan Motor and Cross Fan	<p>1) Do "1" "2" "3" "4", above.</p> <p>2) Loosen the fixing two screws and separate the motor holder.</p> <p>3) Loosen the fixing screw of fan motor. (By use of M3 wrench)</p> <p>4) Separate the fan motor from the fan.</p> <p>5) Separate the fan from the left holder bearing.</p>	 

4-2 Outdoor Unit

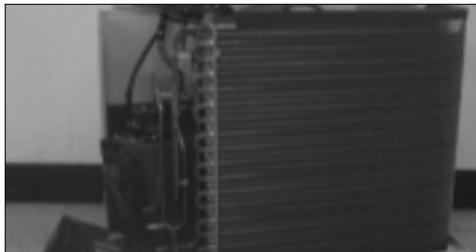
• US12*5(6)M*

No	Parts	Procedure	Remark
1	Common Work	<ol style="list-style-type: none">1) Loosen the fixing screw and separate the Handle-Cabi RH.2) Separate the connection wire from the terminal block. 3) Loosen 6 fixing screws and separate the upper cabinet. 4) Loosen the fixing screw of Ass'y E-part. 5) Loosen 5 fixing screws and separate the side cabinet.	   

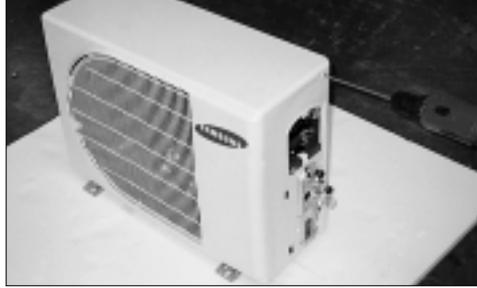
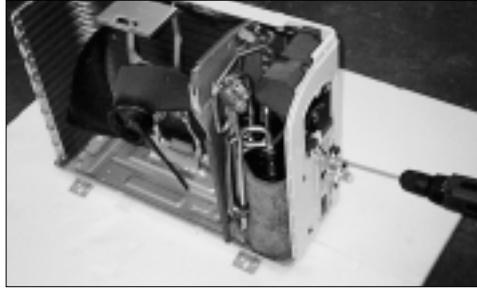
No	Parts	Procedure	Remark
2	Fan-Motor	<p>1) Loosen 4 fixing screw of the Guard-Fan.</p> <p>2) Remove the nut flange (Turn to the right to remove, as it is a left hand screw)</p> <p>3) Separate the fan.</p> <p>4) Loosen four fixing screws to separate the motor.</p>	  

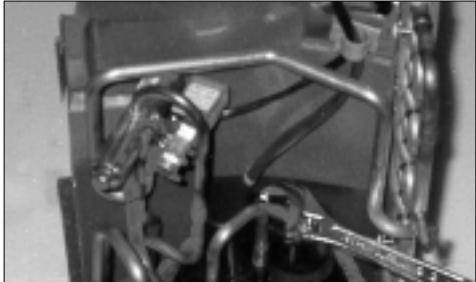
- **SC09Z*5(6)X** **US09*5(6)M*D**
- **US09*5(6)*** **US07*5(6)M*D**
- **SC07Z*5(6)X** **SC09Z*5(6)DX**
- **US07*5(6)*** **SC07Z*5(6)DX**

No	Parts	Procedure	Remark
1	Common Work	<p>1) Loosen the fixing two screws and separate the cover E-parts.</p> <p>2) Separate the connection wire from the terminal block.</p> <p>3) Loosen five fixing screws and separate the cabi Upper.</p> <p>4) Loosen two fixing screws of Ass'y E-part.</p> <p>5) Loosen nine fixing screws and separate the cabi side.</p>	   
2	Fan and Motor	<p>1) Do "1", above.</p> <p>2) Losen four serews and sepearaate Guard Fan from front cabinet.</p>	

No	Parts	Procedure	Remark
		<p>2) Remove the nut flange (Turn to the right to remove, as it is a left hand screw)</p> <p>3) Separate the fan.</p> <p>4) Loosen four fixing screws to separate the motor.</p>	 
3	Heat Exchanger	<p>1) Do "1", 2 above.</p> <p>2) Loosen two fixing screws of left and right side.</p> <p>3) Disassemble the inlet and outlet pipe by welding.</p> <p>4) Separate the heat exchanger.</p>	 
4	Compressor	<p>1) Do "1", above.</p> <p>2) Loosen the nut on the terminal cover and open the terminal cover.</p> <p>3) Disassemble the inlet and outlet pipe of compressor by welding.</p> <p>4) Disassemble the inlet and outlet pipe of condenser by welding.</p> <p>5) Loosen the three bolts of the lower part.</p> <p>6) Separate the compressor.</p>	

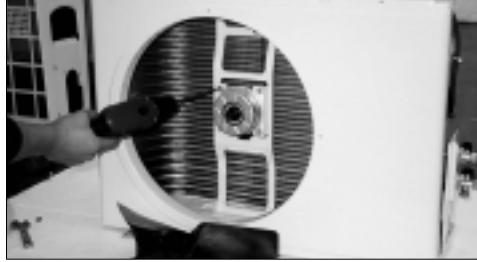
- **SC09Z*7(8)X/SC07Z*7(8)X**
- **US09*7(8)*/US07*7(8)***

No	Parts	Procedure	Remark
1	Common Work	<p>1) Loosen the fixing tow screws and separate the COVER TERMINAL.</p> <p>2) Loosen the fixing two screws and seperate the cover control.</p> <p>3) Separate the connection wire from the terminal block.</p> <p>4) Loosen six fixing screws and separate the cabi front.</p> <p>5) Loosen the one fixing screw of Ass'y E-part.</p> <p>6) Loosen 12 fixing screws and separate the cabi side.</p>	    

No	Parts	Procedure	Remark
2	Fan and Motor	<p>1) Do "1", above.</p> <p>2) Remove the nut flange (Turn to the right to remove, as it is a left hand screw)</p> <p>3) Separate the fan.</p> <p>4) Loosen Four fixing screws to separate the motor.</p> <p>5) Loosen two fixing screws and separate the motor bracket from the base.</p>	 
3	Heat Exchanger	<p>1) Do "1", "2", above.</p> <p>2) Loosen two fixing screws of left and right side.</p> <p>3) Disassemble the inlet and outlet pipe by welding.</p> <p>4) Separate the heat exchanger.</p>	
4	Compressor	<p>1) Do "1", "2", "3", above.</p> <p>2) Open the terminal cover of compressor and unscrew the connection terminal.</p> <p>3) Disassemble the inlet and outlet pipe of compressor by welding.</p> <p>4) Loosen the three bolts of the lower part.</p> <p>5) Separate the compressor.</p>	 

- US12*9(0)M*
- SC12Z*9(0)X

No	Parts	Procedure	Remark
1	Common Work	<p>1) Loosen the fixing two screws and separate the cover E-parts.</p> <p>2) Separate the connection wire from the terminal block.</p> <p>3) Loosen five fixing screws and separate the cabi Upper.</p> <p>4) Loosen two fixing screws of Ass'y E-part.</p> <p>5) Loosen seven fixing screws and separate the cabi side.</p>	   
2	Fan and Motor	<p>1) Do "1", above.</p> <p>2) Losen four serews and sepearaate Guard Fan from front cabinet.</p>	

No	Parts	Procedure	Remark
		<p>2) Remove the nut flange (Turn to the right to remove, as it is a left hand screw).</p> <p>3) Separate the fan.</p> <p>4) Loosen four fixing screws to separate the motor.</p>	 
3	Heat Exchanger	<p>1) Do "1", 2 above.</p> <p>2) Loosen two fixing screws of left and right side.</p> <p>3) Disassemble the inlet and outlet pipe by welding.</p> <p>4) Separate the heat exchanger.</p>	 
4	Compressor	<p>1) Do "1", above.</p> <p>2) Loosen the nut on the terminal cover and open the terminal cover.</p> <p>3) Disassemble the inlet and outlet pipe of compressor by welding.</p> <p>4) Disassemble the inlet and outlet pipe of condenser by welding.</p> <p>5) Loosen the three bolts of the lower part.</p> <p>6) Separate the compressor.</p>	

- **SC12Z*A(B)X**
- **US14*A(B)TB**
- **US12*A(B)ME**

No	Parts	Procedure	Remark
1	Common Work	<p>1) Loosen the fixing one screws and separate the COVER TERMINAL.</p> <p>2) Loosen the fixing one screws and separate the cover control.</p> <p>3) Separate the connection wire from the terminal block.</p> <p>4) Loosen 13 fixing screws and separate the cabi front.</p> <p>5) Loosen the one fixing screw of Ass'y E-part.</p> <p>6) Loosen 4 fixing screws and separate the cabi side.</p>	    

No	Parts	Procedure	Remark
2	Fan and Motor	<p>1) Do "1", above.</p> <p>2) Remove the nut flange (Turn to the right to remove, as it is a left hand screw).</p> <p>3) Separate the fan.</p> <p>4) Loosen four fixing screws to separate the motor.</p> <p>5) Loosen five fixing screws and separate the motor bracket from. the base.</p>	 
3	Heat Exchanger	<p>1) Do "1", "2", above.</p> <p>2) Loosen two fixing screws of left and right side.</p> <p>3) Disassemble the inlet and outlet pipe by welding.</p> <p>4) Separate the heat exchanger.</p>	
4	Compressor	<p>1) Do "1", "2", "3", above.</p> <p>2) Open the terminal cover of compressor and unscrew the connection terminal.</p> <p>3) Disassemble the inlet and outlet pipe of compressor by welding.</p> <p>4) Loosen the three bolts of the lower part.</p> <p>5) Separate the compressor.</p>	 

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5. Troubleshooting

5-1 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 3 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 STD operation indication LED 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 IN DOOR 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 AUTO or DRY mode.  	The speed of the indoor fan is set to LL in DRY mode. Fan speed is 5 steps 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 only 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.

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

NO	Display	Self Diagnosis
1	STD LED blinking (1Hz)	Restore from power failure (input initial power)
2	TIMER LED blinking (1Hz)	Indoor unit Room sensor Error (open or short)
3	STD and TIMER LED blinking (1Hz)	Indoor unit heat exchanger temperature sensor Error (open or short)
4	NATURE LED blinking (1Hz)	Indoor fan malfunctioning (for speed is Below 450rpm)

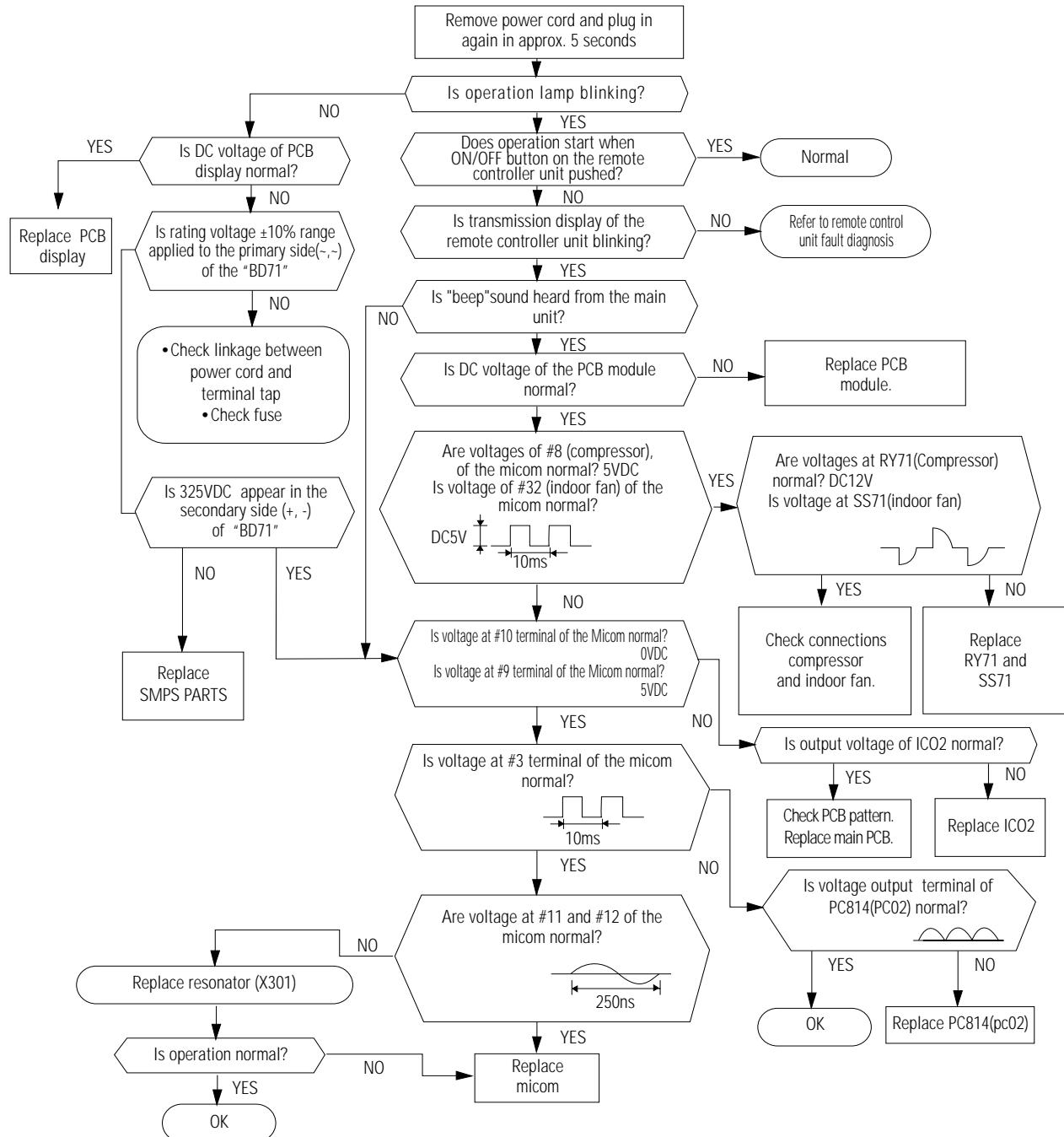
5-2 Fault Diagnosis by Symptom

5-2-1 No Power (completely dead)-Initial diagnosis

1) Checklist :

- (1) Is input voltage normal?
- (2) Is AC power linked correctly?
- (3) Is output voltage of DC regulator IC KA78L05 (IC02) normal? (4.5VDC-5.5VDC)

2) Troubleshooting procedure

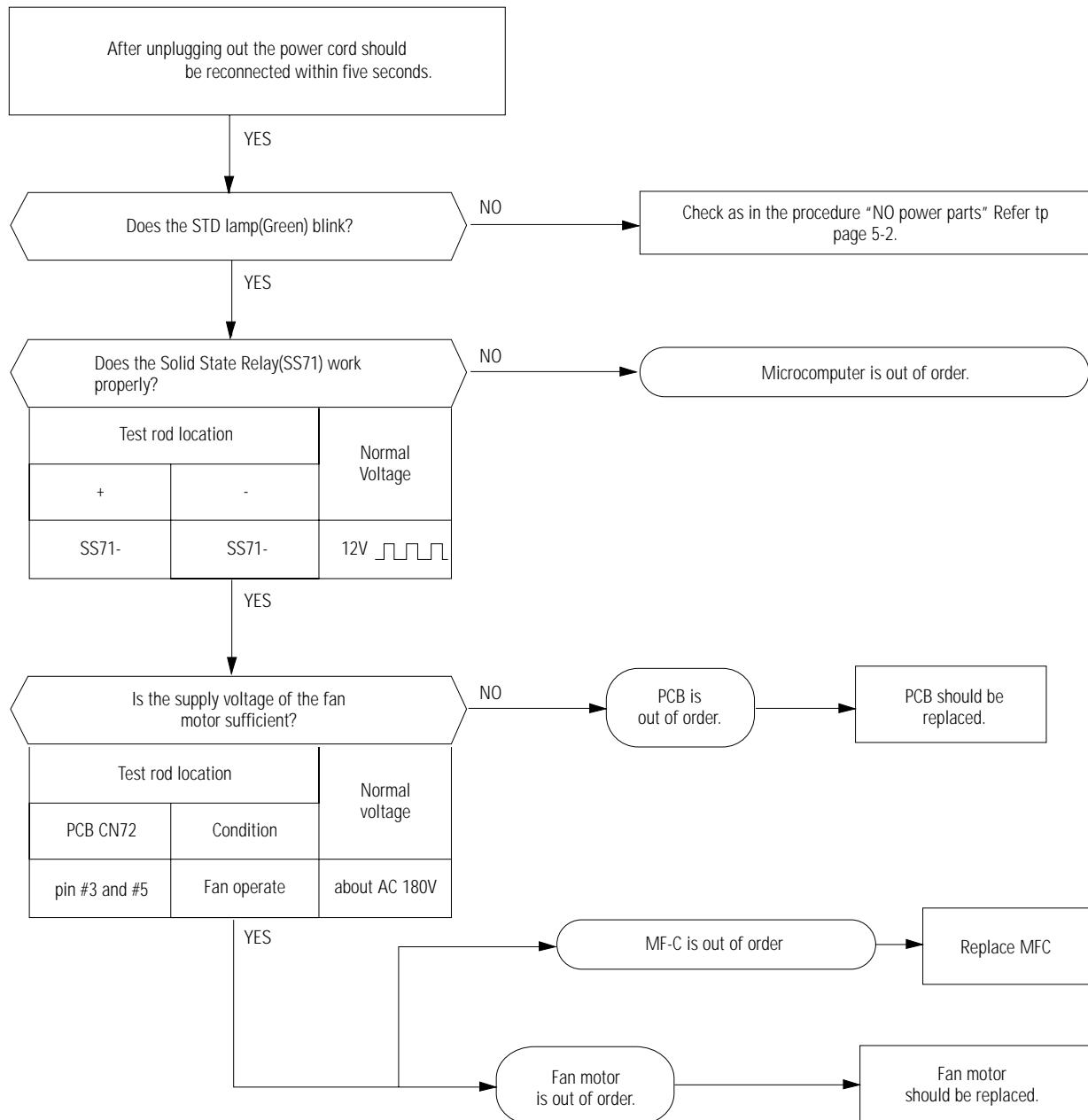


5-2-2 When the Indoor Unit Fan Does Not Operate. (Initial Diagnosis)

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 (CN42)?
- (4) Is the running capacitor (CR71) properly connected with PCB board?

2) Troubleshooting procedure

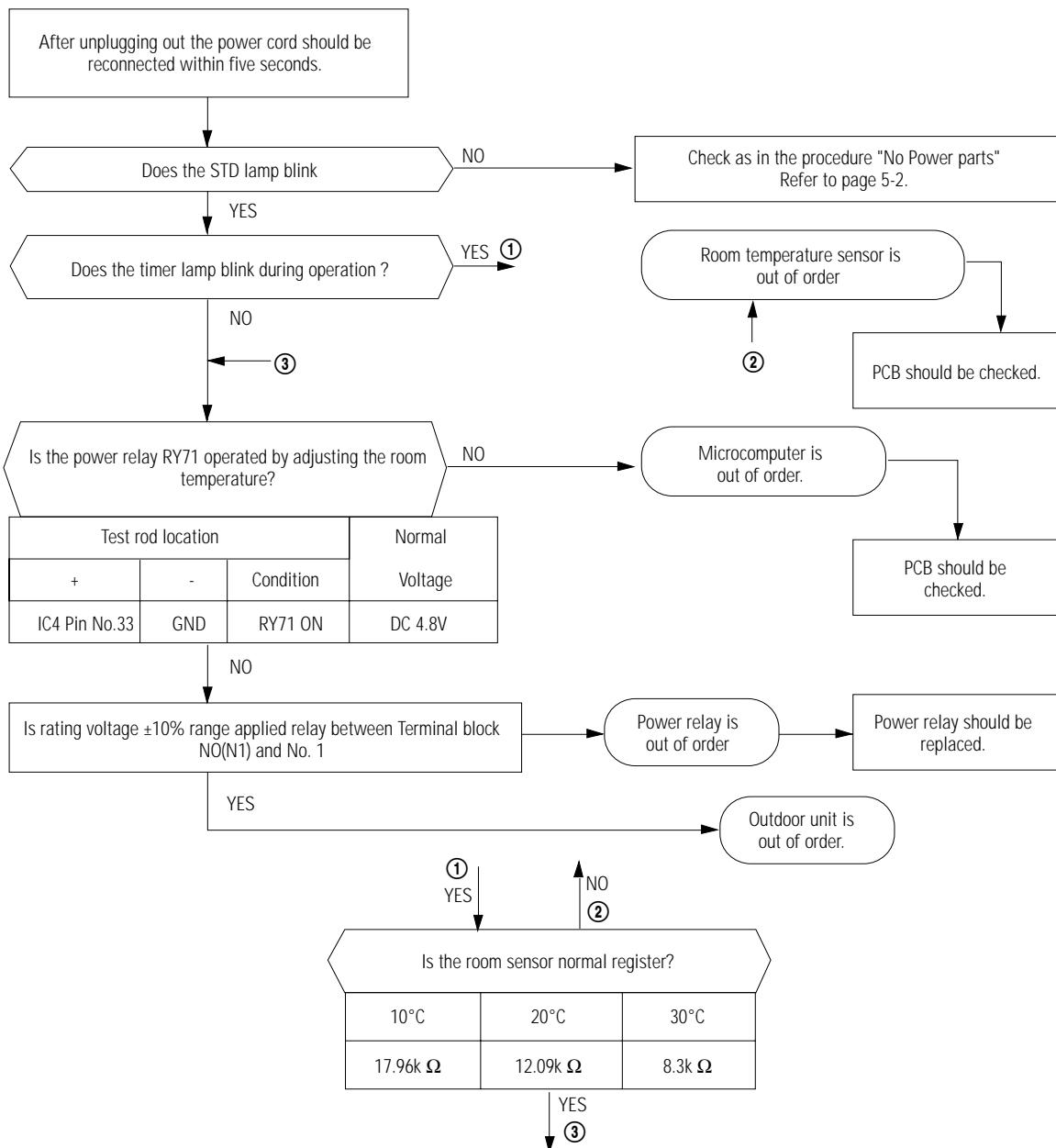


5-2-3 When the Outdoor Unit Does Not Operate. (Initial Diagnosis)

1) Checklist :

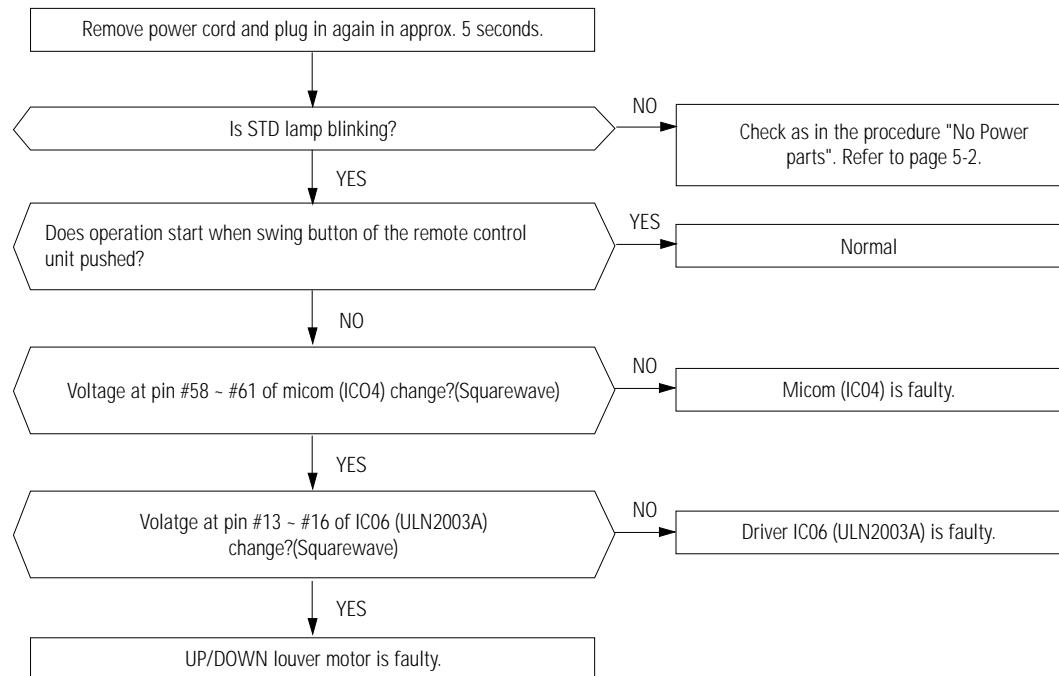
- (1) Is input voltage normal?
- (2) Is the set temperature of the remote control higher than room temperature in COOL mode?
- (3) Is the POWER IN connector (CN71) linked correctly?
- (4) Is the outdoor unit properly connected with the TERMINAL BLOCK connector((N1), 1)?

2) Troubleshooting procedure



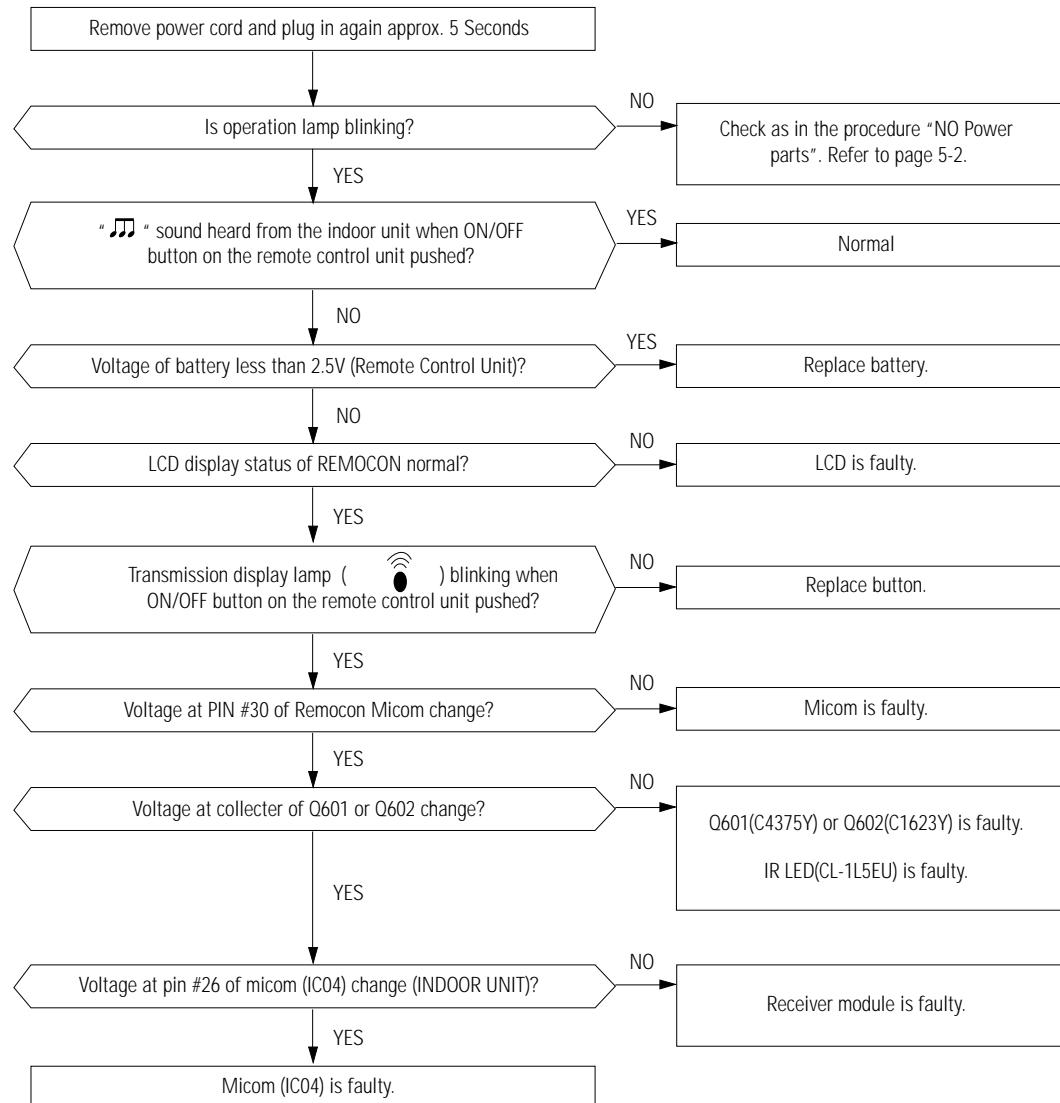
5-2-4 When the UP/DOWN Louver Motor Does Not Operate. (Initial Diagnosis)

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



5-2-5 If Operation By Remote Control Unit Is Impossible. (Initial Diagnosis)

1) Troubleshooting procedure



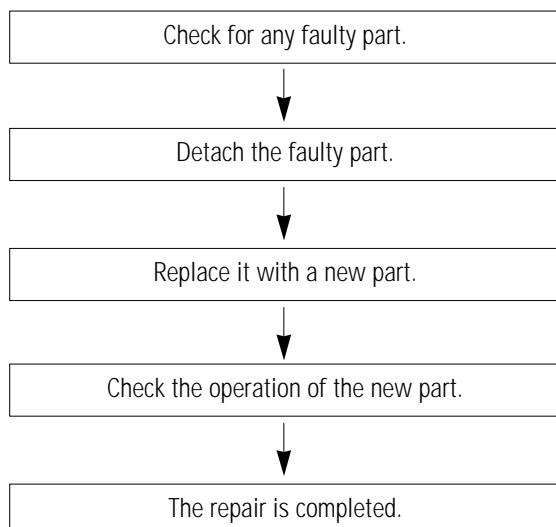
5-3 PCB Inspection

5-3-1 Cautions for Part Replacement

1. The human body carries much static electricity. Before touching a part for repair, replacement or the similar purpose, be sure to touch a grounded metallic portion by hand to let the static electricity go through the metallic portion to the earth. Especially when handling any micro computer or IC, carefully remove such static electricity before touching them.
2. When repairing any part on a work bench, be sure to place an insulative sheet on the bench and always keep the sheet surface neat without any metal fragments. If any such fragment touches a part, a secondary trouble will possibly be caused in the part.
3. Before replacing any parts, be sure to turn off the power supply. If such replacement is done with the power supply kept on, an electric shock, short circuit or destruction of a part may result.
4. During replacement or repair of a part, carefully handle it : The printed circuit board has fine lead wires (jumper wires) and glass-made parts (diode) on its substrate. So if a circuit board is roughly handled, such lead wires and parts will be easily broken or damaged by bending or shock.
5. When soldering the lead wires of any new part, be sure to polish them using an emery paper or the like before soldering them. Since the lead wires of any new part are covered with an oxide film, solder cannot adhere to the lead wires if not polished.
6. When soldering any part, care should be exercised not to apply any high-wattage soldering iron to the part for a long time. Some parts are of so low a heat resistance that they may be broken or have the properties changed if a soldering iron is so applied (Otherwise, the pattern may possibly be separated and raised).
7. The heat of the soldering iron should be transferred to the entire object to be soldered. If the solder pieces are not well fused due to insufficient transfer of the heat from the soldering iron, no satisfactory electrical continuity can be assured even if the soldered objects appear well connected to each other.
8. The solder used should be limited to a minimum. If excessive solder is used, it will cause inter-pattern contact, which may cause malfunction of the circuit.

5-3-2 Procedure

The parts should be replaced in the following procedure.



5-3-3 Detailed Procedure

No.	Malfunction	Checking point (symptoms)	Causes
1	Pull out the power plug from the AC terminal and confirm the fuse on the PCB assembly	1. Is the broken(open)?	▷ Voltage over ▷ Indoor unit fan motor short-circuit
2	Turn the power on.	Voltage check	SMPS circuit is faulty
		1. AC voltage at BD71(-,-)? : rating voltage $\pm 10\%$ range	▷ SMPS circuit is faulty
		2. DC voltage at BD71(+,-)? : about 325[v] $\pm 10\%$	
		3. DC voltage at IC02 : IN-GND \rightarrow DC12[v] : OUT-GND \rightarrow DC5[v]	▷ PC02, R202-R205
		4. Voltage waveform at Q201 : collector-GND \rightarrow squarewave	
3	Set the TURBO mode	Voltage check	SMPS circuit is faulty
		1. check voltage of IC06 (pin#10,pin#8) : relay on \rightarrow 0.7[v] : relay off \rightarrow 12[v]	▷ IC06 is faulty
		2. Voltage at terminal block ((N1) -1) \rightarrow rating voltage	▷ RY71 is faulty

5-4 Fault Diagnosis of Major Parts

Parts	Diagnosis																																							
Temp.Sensor	Measure resistance with a tester.																																							
Heat ex. Sensor	Normal	<table border="1"> <tr> <td>Ambient temperature</td> <td>15°C</td> <td>20°C</td> <td>25°C</td> <td>30°C</td> <td>35°C</td> <td>40°C</td> </tr> <tr> <td>Resistance of thermistor[KΩ]</td> <td>14.68</td> <td>12.09</td> <td>10</td> <td>8.31</td> <td>6.94</td> <td>5.83</td> </tr> </table>							Ambient temperature	15°C	20°C	25°C	30°C	35°C	40°C	Resistance of thermistor[KΩ]	14.68	12.09	10	8.31	6.94	5.83																		
Ambient temperature	15°C	20°C	25°C	30°C	35°C	40°C																																		
Resistance of thermistor[KΩ]	14.68	12.09	10	8.31	6.94	5.83																																		
	Abnormal	∞ , 0Ω ... open or short																																						
Indoor Fan Motor	Measure resistance between terminals (CN72) with a tester																																							
	Normal	At ambient temperature (10°C ~ 30°C)																																						
		<table border="1"> <tr> <td>between</td> <td>Voltage</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Red, Blue</td> <td>$410\pm10\%$</td> <td>Main</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Red, Yellow</td> <td>$325\pm10\%$</td> <td>Sub</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							between	Voltage							Red, Blue	$410\pm10\%$	Main						Red, Yellow	$325\pm10\%$	Sub													
between	Voltage																																							
Red, Blue	$410\pm10\%$	Main																																						
Red, Yellow	$325\pm10\%$	Sub																																						
	Abnormal	∞ , 0Ω ... open or short																																						
	Measure the voltage between ground and signal wire of the fan motor																																							
	Normal	<table border="1"> <tr> <td>between</td> <td>Voltage</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Gray, Orange</td> <td>$05V\sim4.5V$</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Yellow, Orange</td> <td>5V</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							between	Voltage							Gray, Orange	$05V\sim4.5V$							Yellow, Orange	5V														
between	Voltage																																							
Gray, Orange	$05V\sim4.5V$																																							
Yellow, Orange	5V																																							
	Abnormal	Abnormal if voltage does not change from 0V to 5V.																																						
Outdoor Fan Motor	Normal	At ambient temperature (10°C ~ 30°C)																																						
		<table border="1"> <tr> <td></td> <td>$***7(*8)**$</td> <td>$***5(*6)(*9)(*0)**$</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>between</td> <td colspan="6">Resistance</td><td></td> </tr> <tr> <td>Black, Red</td> <td>$304\pm10\%$</td> <td>$360\pm10\%$</td> <td>Main</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Black, White</td> <td>$289\pm10\%$</td> <td>$257\pm10\%$</td> <td>Sub</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>								$***7(*8)**$	$***5(*6)(*9)(*0)**$						between	Resistance							Black, Red	$304\pm10\%$	$360\pm10\%$	Main					Black, White	$289\pm10\%$	$257\pm10\%$	Sub				
	$***7(*8)**$	$***5(*6)(*9)(*0)**$																																						
between	Resistance																																							
Black, Red	$304\pm10\%$	$360\pm10\%$	Main																																					
Black, White	$289\pm10\%$	$257\pm10\%$	Sub																																					
	Abnormal	∞ , 0Ω ... open or short																																						
Stepping Motor (UP/DOWN swing motor)	Measure resistance between red wire and each terminal.																																							
	Normal	Approx. 380Ω at ambient temperature (20°C ~ 30°C)																																						
	Abnormal	∞ , 0Ω ... open or short																																						

5-5 Set up the Model option

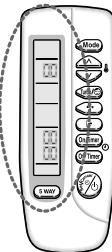
The Method for Setting up the model option with remocon

- **It is necessary to set up option code after replacing the main-PCB as a service parts.**

Make sure that you can set up the option of code the remote controller after you replace the main PBA otherwise, the unit won't be working properly and all LED lamps on display will be flickering.

Step 1 : Preparing the remocon to main PCB option set

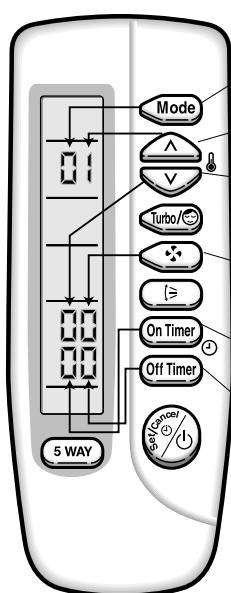
- 1st Remove the battery from the remocon.
- 2nd Press the temperature raise / down button simultaneously and insert the battery again.
- 3rd Make sure the remocon display shown as 0 0 0 0 0 0.



Step 2 : Second stage preparation of the remocon option set.

※ Note ; In case the wrong letter has been selected, continue to press the button until the correct letter appears.

- 1st If the first stage number “0” appears on the display, proceed to the second stage.
- 2nd Every time the ① and ⑦ button, “0” and “|” each continue to appear.
- 3rd Whenever pressing the ②, ③, ④, ⑤, ⑥, ⑧, ⑨, ⑩, ⑪, ⑫ button, the number increase from 0~9(0123456789) and A, b, C, d, E, F each time.



① If the first number is 0, it is correct otherwise press Mode until 0 appear.

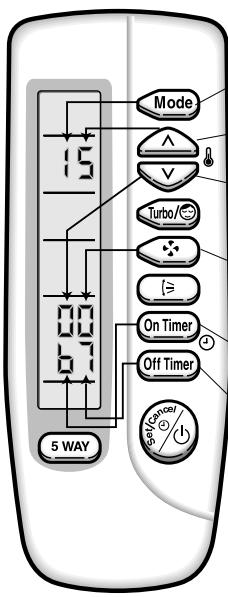
② When pressing the Up button 0 ~ F appear on the display, select one of them.

③ When pressing the Down button 0 ~ F appear on the display, select one of them.

④ When pressing the Left button 0 ~ F appear on the display, select one of them.

⑤ When pressing the On Timer button 0 ~ F appear on the display, select one of them.

⑥ When pressing the Off Timer button 0 ~ F appear on the display, select one of them.



① If the first number is **1**, it is correct otherwise press **Mode** until **1** appear.

② When pressing the **Up** button **0 ~ F** appear on the display, select one of them.

③ When pressing the **Down** button **0 ~ F** appear on the display, select one of them.

④ When pressing the **Left** button **0 ~ F** appear on the display, select one of them.

⑤ When pressing the **On Timer** button **0 ~ F** appear on the display, select one of them.

⑥ When pressing the **Off Timer** button **0 ~ F** appear on the display, select one of them.

Step 3 : Reconfirming option set after completion

(in case of ex. 010000-1500b7)

After pressing **Mode** selector for the **0** mode, the display shown as **01 00 00**.

After pressing **Mode** selector for the **1** mode, the display shown as **15 00 b7**.

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

When pressing the operation ON/OFF key with the direction of remote controller for unit, the sound “Ding” or “Diriring” is heard and the first LED lamp on the left side 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 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 and plug in again and pressing 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 it's model.

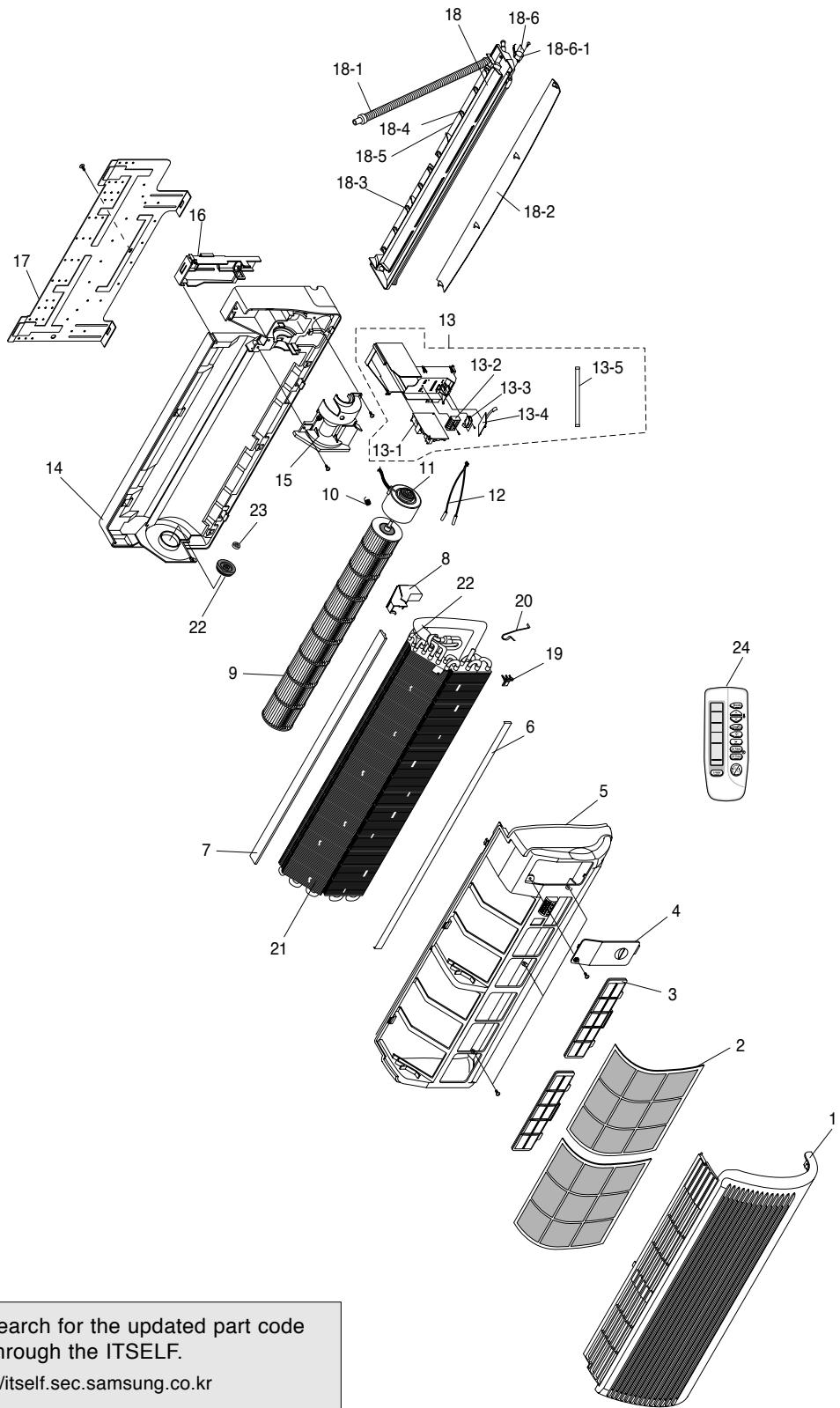
<Table of the option code>

MODEL	OPTION CODE
AS12*5MB	010000-17021F
AS12*6MB	000000-17021F
AS12*5ME	010000-17021d
AS12*6ME	000000-17021d
AS09*5ME SC09Z*5	010000-1700d9
AS09*6ME SC09Z*6	000000-1700d9
AS09*5MED, SC09Z*5D AS09C5MED, SC09ZC5D	010000-1700EA 010000-1700Fb
AS09*6MED, SC09Z*6D AS09C6MED, SC09ZC6D	000000-1700EA 000000-1700Fb
AS07*5ME/A, AS07*5MED, SC07Z*5, SC07Z*5D AS07C5MED, SC07ZC5D	010000-1500b7 010000-1500C8
AS07*6ME/A, AS07*6MED, SC07Z*6, SC07Z*6D AS07C6MED, SC07ZC6D	000000-1500b7 000000-1500C8
AS09*7ME/D/B/A, SC09Z*7 AS09C7ME/D/B/A, SC09ZC7	010000-1700d9 010000-1700EA
AS09*8ME/D/B/A, SC09Z*8 AS09C8MZ/D/B/A, SC09ZC8	000000-1700d9 000000-1700EA
AS07*7ME/D/B, SC07Z*7 AS07C7ME/D/B, SC07ZC7	010000-1700b7 010000-1700C8
AS07*8ME/D/B, SC07Z*8 AS07C8ME/D/B, SC07ZC8	000000-1700b7 000000-1700C8
AS12*9ME SC12Z*9	010000-17021d
AS12*0ME SC12Z*0	000000-17021d
AS12*AME, AS12*AMB, SC12Z*A AS12CAME, SC12ZCA	010000-17023F 010000-170340
AS12*BME, AS12*BMB, SC12Z*B AS12CBME, SC12ZCB	000000-17023F 000000-170340
AS14*ATB AS14*BTB	0C0000-1A00Fb

MEMO

6. Exploded Views and Parts List

6-1 Indoor Unit



You can search for the updated part code number through the ITSELF.

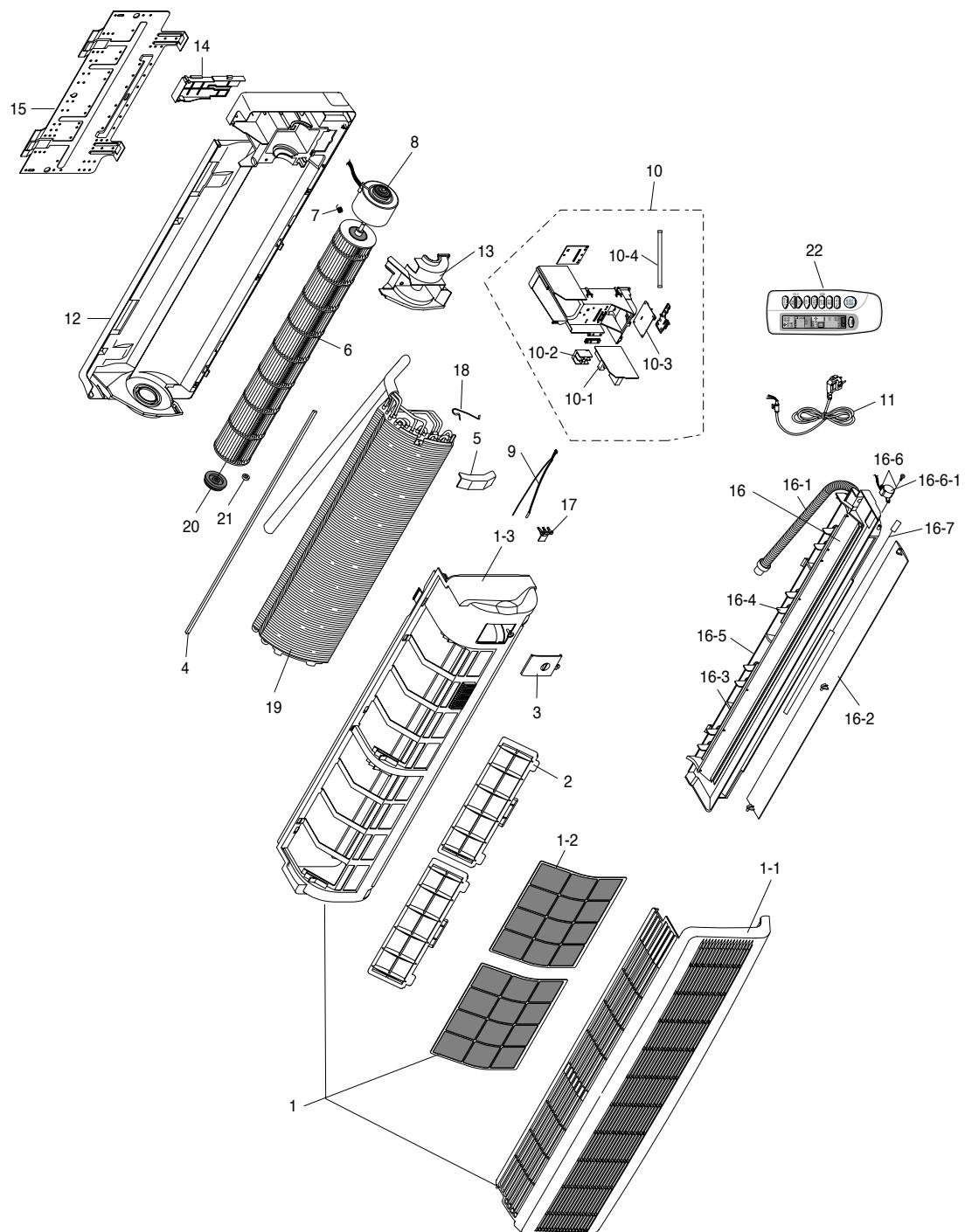
URL : <http://itself.sec.samsung.co.kr>

■ Parts List

①AS***A*M*/SC***ZA* ②AS***B*M*/SC***ZB* ③AS***C*M*/SC***ZC*

No.	CODE NO	Description	Q'TY											
			AS12*5(6)MB SC12Z*5(6)	AS12*5(6)ME SC09Z*5(6)	AS09*5(6)ME SC09Z*5(6)	AS07*5(6)ME SC07Z*5(6)	AS09*7(8)ME/B/D SC09Z*7(8)	AS07*7(8)ME/B/D SC07Z*7(8)	AS12*9(0)ME SC12Z*9(0)	AS09*5(6)MA SC09Z*5(6)	AS07*5(6)MA SC07Z*5(6)	AS07*5(6)MED SC07Z*5(6)D	AS09*5(6)MED SC09Z*5(6)D	AS12*5(6)ME/B SC12Z*5(6)A/B
1	DB64-00085A	GRILLE AIR INLET (①)	1	1	1	1	1	1	1	1	1	1	1	1
	DB64-00256A	GRILLE AIR INLET (②)	1	1	1	1	1	1	1	1	1	1	1	1
	DB64-00354A	GRILLE AIR INLET (③)	1	1	1	1	1	1	1	1	1	1	1	1
2	DB63-00064A	GUARD-AIR FILTER	2	2	2	2	2	2	2	2	2	2	2	2
3	DB74-00011A	FILTER CLEANER ASS'Y	1	1	1	1	1	1	1	1	1	1	1	1
4	DB63-00067A	COVER TEMINAL	1	1	1	1	1	1	1	1	1	1	1	1
5	DB92-00031E	ASS'Y PANEL (①)	1	1	1	1	1	1	1	1	1	1	1	1
	DB92-00031T	ASS'Y PANEL (②)	1	1	1	1	1	1	1	1	1	1	1	1
	DB92-00248D	ASS'Y PANEL (③)	1	1	1	1	1	1	1	1	1	1	1	1
6	DB67-00051A	SPACER EVAP LOW	1	1	1	1	1	1	1	1	1	1	1	1
7	DB67-00032A	SPACER EVAP UP	1	1	1	1	1	1	1	1	1	1	1	1
8	DB63-00083A	COVER U BEND	1	1	1	1	1	1	1	1	1	1	1	1
9	DB94-00040F	ASS'Y FAN CROSS(SF)	1	1	1	1	1	1	1	1	1	1	1	1
10	DB60-20011A	BOLT SPECIAL	1	1	1	1	1	1	1	1	1	1	1	1
11	DB31-00033A	MOTOR FAN IN	1	1	1	1	1	1	1	-	-	1	1	1
	DB31-00033B	MOTOR FAN IN	-	-	-	-	-	-	-	1	1	-	-	-
12	DB32-00020A	THERMISTOR WIRE ASS'Y	1	1	1	1	1	1	1	1	1	1	1	1
13	DB93-00458A	ASS'Y CONTROL IN	1	1	1	1	1	1	1	-	-	-	-	-
	DB93-00458E	ASS'Y CONTROL IN	-	-	-	-	-	-	-	-	-	1	1	1
	DB93-00270G	ASS'Y CONTROL IN	-	-	-	-	-	-	-	1	1	-	-	-
	DB93-00458F	ASS'Y CONTROL IN (③)	-	-	-	-	-	-	-	-	-	1	1	1
13-1	DB93-00438A	ASS'Y PCB MAIN	1	1	1	1	1	1	1	-	-	-	-	-
	DB93-00438E	ASS'Y PCB MAIN	-	-	-	-	-	-	-	-	-	-	-	1
	DB93-00266D	ASS'Y PCB MAIN	-	-	-	-	-	-	-	1	1	-	-	-
	DB93-01018A	ASS'Y PCB MAIN	-	-	-	-	-	-	-	-	-	1	1	-
	DB93-01029B	ASS'Y PCB MAIN	-	-	-	-	-	-	-	-	-	1	1	1
13-2	DB65-00032A	TERMINAL BLOCK ASS'Y	1	1	1	1	1	1	1	1	1	1	-	-
	DB65-00079A	TERMINAL BLOCK ASS'Y	-	-	-	-	-	-	-	-	-	1	1	1
13-3	DB61-00227A	HOLDER WIRE CLAMP	1	1	1	1	1	1	1	1	1	1	-	-
	DB61-00219B	HOLDER WIRE CLAMP	-	-	-	-	-	-	-	-	-	1	1	1
13-4	DB93-00268A	ASS'Y PCB DISPLAY	1	1	1	1	1	1	1	1	1	1	1	1
	DB93-00927A	ASS'Y PCB DISPLAY	-	-	-	-	-	-	-	-	-	1	1	1
13-5	DB39-00147A	CONNECT WIRE PCB	1	1	1	1	1	1	1	1	1	1	1	1
14	DB94-00056G	ASS'Y BACK BODY(RIGHT SIDE)	1	1	1	1	1	1	1	1	1	1	1	1
15	DB61-00162A	HOLDER MOTOR	1	1	1	1	1	1	1	1	1	1	1	1
16	DB61-00165A	HOLDER PIPE	1	1	1	1	1	1	1	1	1	1	1	1
17	DB70-00036A	PLATE HANGER	1	1	1	1	1	1	1	1	1	1	1	1
18	DB94-00058F	ASS'Y TRAY DRAIN(RIGHT SIDE)	-	1	1	1	1	1	1	1	-	-	1	1
	DB94-00058D	ASS'Y TRAY DRAIN(RIGHT SIDE)	1	-	-	-	-	-	-	1	1	-	-	-
	DB94-00058L	ASS'Y TRAY DRAIN(RIGHT SIDE) (③)	-	-	-	-	-	-	-	-	-	1	1	1
18-1	DB94-00062E	ASS'Y DRAIN HOSE	1	1	1	1	1	1	1	1	1	1	1	1
18-2	DB66-00127B	BLADE H	1	1	1	1	1	1	1	1	1	1	1	1
18-3	DB66-00128A	BLADE V,A	3	3	3	3	3	3	3	3	3	3	3	3
18-4	DB66-00128B	BLADE V,B	6	6	6	6	6	6	6	6	6	6	6	6
18-5	DB63-00082A	SCREEN SAFETY WIRE	-	1	1	1	1	1	1	1	1	1	1	1
18-6	DB95-20138A	ASS'Y MOTOR STEPPING	1	1	1	1	1	1	1	1	1	1	1	1
18-6-1	DB31-10129A	MOTOR STEPPING; GSP 24RW	1	1	1	1	1	1	1	1	1	1	1	1
19	DB61-40251A	HOLDER SENSOR	1	1	1	1	1	1	1	1	1	1	1	1
20	DB67-60030A	SPRING SENSOR	1	1	1	1	1	1	1	1	1	1	1	1
21	DB96-00784A	EVAPORATOR ASS'Y	1	1	-	-	-	-	1	-	-	-	-	-
	DB96-00783B	EVAPORATOR ASS'Y	-	-	1	1	1	1	-	1	1	-	-	-
	DB96-01366B	EVAPORATOR ASS'Y	-	-	-	-	-	-	-	-	-	1	1	-
	DB96-01443A	EVAPORATOR ASS'Y	-	-	-	-	-	-	-	-	-	-	-	1
22	DB94-40003A	RUBBER BEARING	1	1	1	1	1	1	1	1	1	1	1	1
23	DB94-40007A	BARING	1	1	1	1	1	1	1	1	1	1	1	1
24	DB93-00251K	ASS'Y REMOCON	1	1	1	1	1	1	1	1	1	1	1	1
	DB93-00861K	ASS'Y REMOCON	-	-	-	-	-	-	-	-	-	1	1	1

6-2 Indoor Unit



You can search for the updated part code number through the ITSELF.

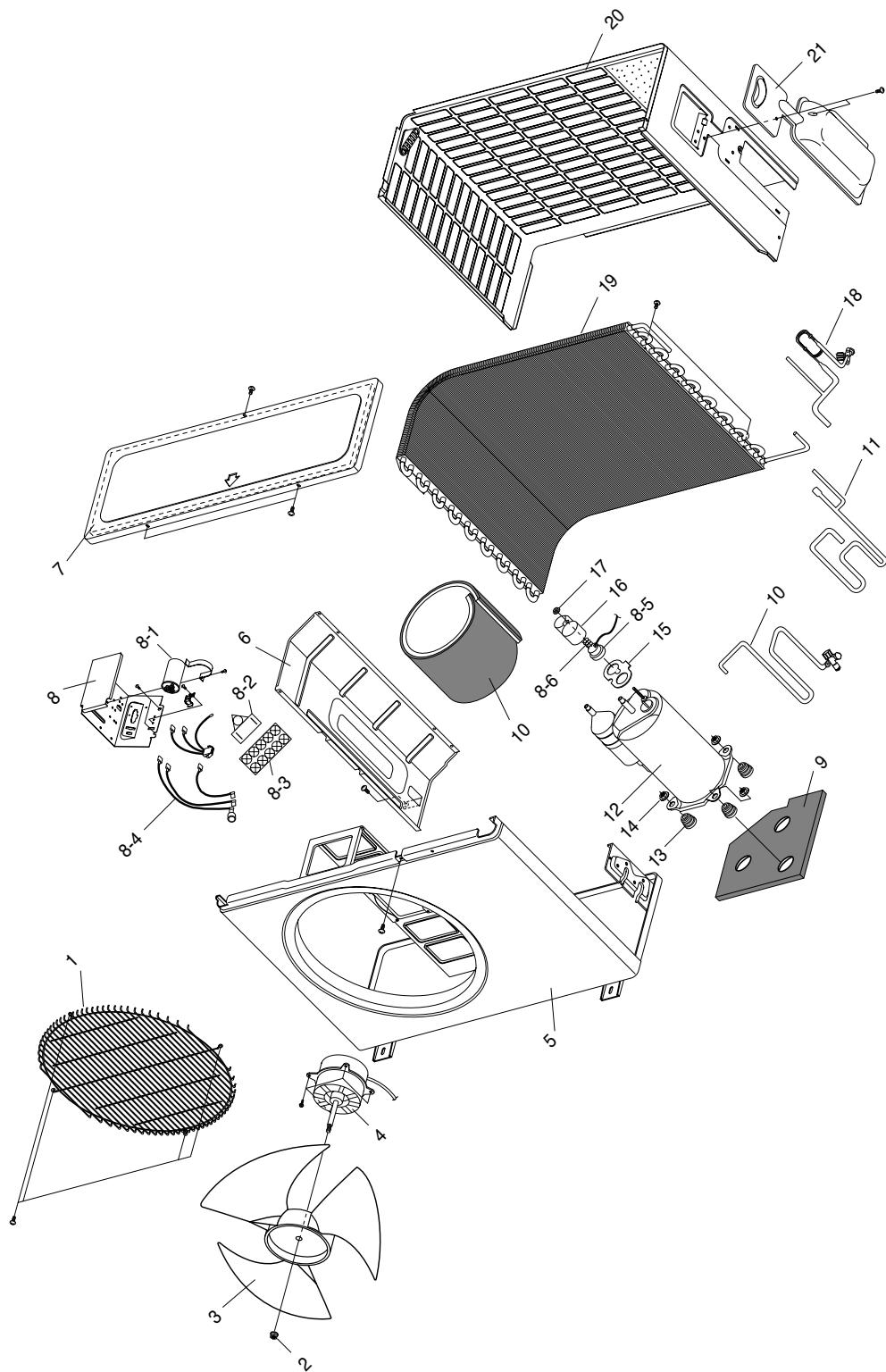
URL : <http://itself.sec.samsung.co.kr>

■ Parts List

No.	CODE NO	Description	Specification	Q'TY
				AS14*A(B)TB
1	DB92-00121D	ASS'Y PANEL-FRONT	ASS'Y	1
1-1	DB64-00296A	GRILL-AIR INLET	HIPS	1
1-2	DB63-00419A	GUARD-AIR FILTER	PP,T2,SF	1
1-3	DB64-00295A	PANEL-FRONT	HIPS	1
2	DB95-00287Q	ASS'Y-CLEANER FILTER	ASS'Y	1
3	DB63-00209A	COVER-TERMINAL	ABS,T2,UL94-VO	1
4	DB67-00058B	SPACER-EVAP	PVC,T0.5,GRY	1
5	DB63-00211A	COVER-DRAIN	PP,T2,BLK	1
6	DB94-00040M	ASS'Y-CROSS FAN	ø95 ANTIBACTERIAL	1
7	DB60-20011A	BOLT-SPECIAL	M6,L10,HRSC-3	1
8	DB31-10078G	MOTOR-FAN-IN	PFS-040WTVA	1
9	DB32-00020C	THERMISTOR-ASS'Y	103AT,10KOHM,3%,343	1
10	DB93-01130A	ASS'Y-CONTROL IN	220V/60Hz	1
10-1	DB93-01019B	ASS'Y-MAIN PCB	ASS'Y	1
10-2	DB65-00032A	ASS'Y-TERMINAL BLOCK	ASS'Y, 6P	1
10-3	DB93-00268A	ASS'Y-DISPLAY-PCB	ASS'Y	1
10-4	DB39-00147A	CONNECT WIRE-PCB	5P,UL1007AWG#28,L350	1
11	DB39-00170F	POWER-CORD	ASS'Y	1
12	DB94-00096C	ASS'Y BACK BODY	ASS'Y	1
13	DB90-00325A	ASS'Y HOLDER-MOTOR	ASS'Y	1
14	DB90-00342A	ASS'Y HOLDER-PIPE	ASS'Y	1
15	DB70-00098A	PLATE-HANGER	SGCC-M,T0.8	1
16	DB94-00091A	ASS'Y TRAY DRAIN	ASS'Y	1
16-1	DB94-00062F	ASS'Y-DRAIN-HOSE	ASS'Y	1
16-2	DB66-00188A	BLADE-H	HIPS	1
16-3	DB66-00189A	BLADE-V,A	PP,BLK,T2	6
16-4	DB66-00189B	BLADE-V,B	PP,BLK,T2	2
16-5	DB63-00208A	TRAY-DRAIN	ABS,T2,BLK	1
16-6	DB31-10129A	MOTOR STEPPING	ASS'Y	1
16-6-1	DB39-20357A	LEAD WIRE MOTOR	ASS'Y	1
16-7	DB93-00860A	ASS'Y CENTER DISPLAY	ASS'Y	-
17	DB61-40251A	HOLDER-SENSOR	PP,T1.5,BLK	1
18	DB67-60030A	SPRING-SENSOR	STS-202,T0.4	1
19	DB96-01603C	ASS'Y EVAPORATOR	ASS'Y	1
20	DB94-40003A	BEARING MOLD	RUBBER	1
21	DB94-40007A	BEARING	POLYSLIDER-PG5 ASS'Y	1
22	DB93-00251K	ASS'Y REMOCON	ASS'Y, ARC-406	1

6-2 Outdoor Unit

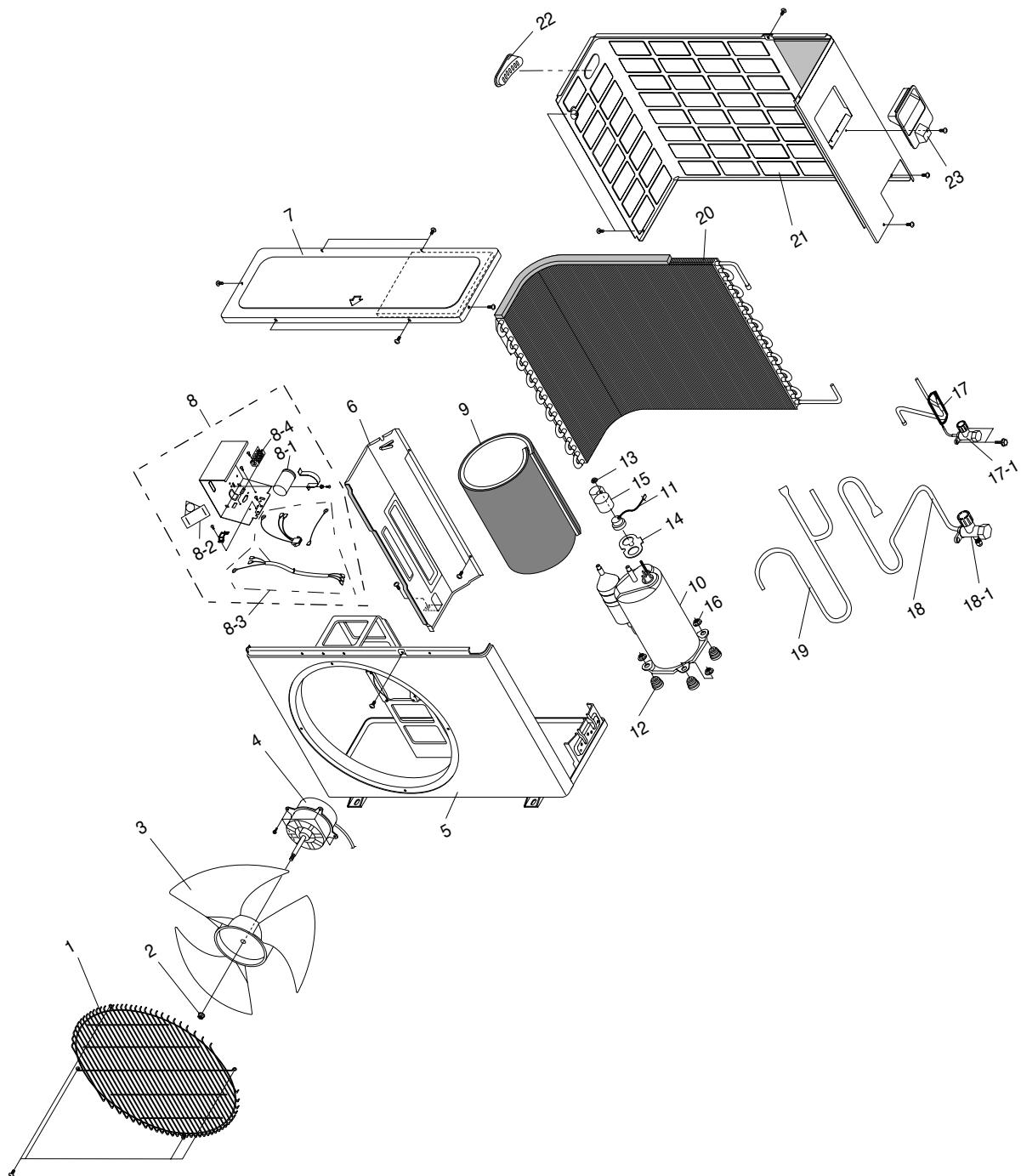
- US12*5(6)MB(E)



■ Parts List (OUTDOOR UNIT)

No.	CODE NO	Description	Specification	Q'TY		Remark
				US12*5(6)MB	US12*5(6)ME	
1	DB63-00071A	GUARD FAN	HSER	1	1	
2	DB60-30004A	NUT FLANGE	2C SM20C M6 NTR	1	1	
3	DB67-50063A	PROPELLER-FAN	AS+G/F, Ø405	1	1	
4	DB31-10058C	MOTOR FAN OUT	ASSO20WTVA	1	1	
5	DB90-00272A	ASS'Y FRAME(PAINT)	ASS'Y	1	-	
6	DB94-50077A	ASS'Y PARTITION	ASS'Y	1	1	
7	DB90-00085B	CABINET UPPER	SECC-P	1	1	
8	DB93-00452C	ASS'Y CONTROL OUT	ASS'Y	1	-	
	DB93-00477C or DB93-00452A	ASS'Y CONTROL OUT	ASS'Y 2 stage OLP Single OLP	-	1	
8-1	2501-001226	CAPACITOR COMP	25µF 370VAC	1	-	
	2501-001236	CAPACITOR COMP	30µF 450VAC	-	1	
8-2	2301-001377	CAPACITOR MOTOR	1.2µF 450VAC	1	1	
8-3	DB65-40049E	TERMINAL BLOCK	4P DFT-20A	1	1	
8-4	DB93-00480A or DB93-00412A	ASS'Y LEAD WIRE	ASS'Y 2 stage OLP Single OLP	1	1	
8-5	DB47-20001G/L	O L P	MRA12002-9200/MRA12002-12008	1	-	
	DB35-00015G or DB35-00010B	O L P	RAC12030-9622 2 stage OLP MRA12030-12008 Single OLP	-	1	
8-6	DB67-60020A	O L P SPRING	STS304	1	1	
9	DB72-50574D	CLOTH COMP BOTTOM	FELT	1	1	
10	DB96-00489A	ASS'Y SUCTION	ASS'Y	1	-	
	DB96-00538A	ASS'Y SUCTION	ASS'Y	-	1	
11	DB96-00488A	ASS'Y DISCHARGE	ASS'Y	1	-	
	DB96-00539A	ASS'Y DISCHARGE	ASS'Y	-	1	
12	48A135IV1EL	COMPRESSOR	220V 60Hz	1	-	
	48A124JV1EL	COMPRESSOR	220V-240V/50Hz	-	1	
13	DB73-10004B	GROMMET-ISOLATOR	SILICON	3	3	
14	DB60-30028A	NUT-WASHER	HEX 2C MB ZPC	3	3	
15	DB63-20002A	GASKET	EPDM	1	1	
16	DB63-10165D	COVER TERMINAL	PBT	1	1	
17	DB60-30018A	NUT-FLANGE	M5, SM20C	1	1	
18	DB96-00492B	ASS'Y-CAPILLARY	ASS'Y(1.7 51100)	1	1	
19	DB96-00510B	ASS'Y COND	ASS'Y(SF)	1	-	
	DB96-00510A	ASS'Y COND	ASS'Y	-	1	
20	DB64-00136B	CABINET SIDE	ASS'Y(BENDING)	1	1	
21	DB67-90025A	HANDLE CABI, RH	ABS	-	1	

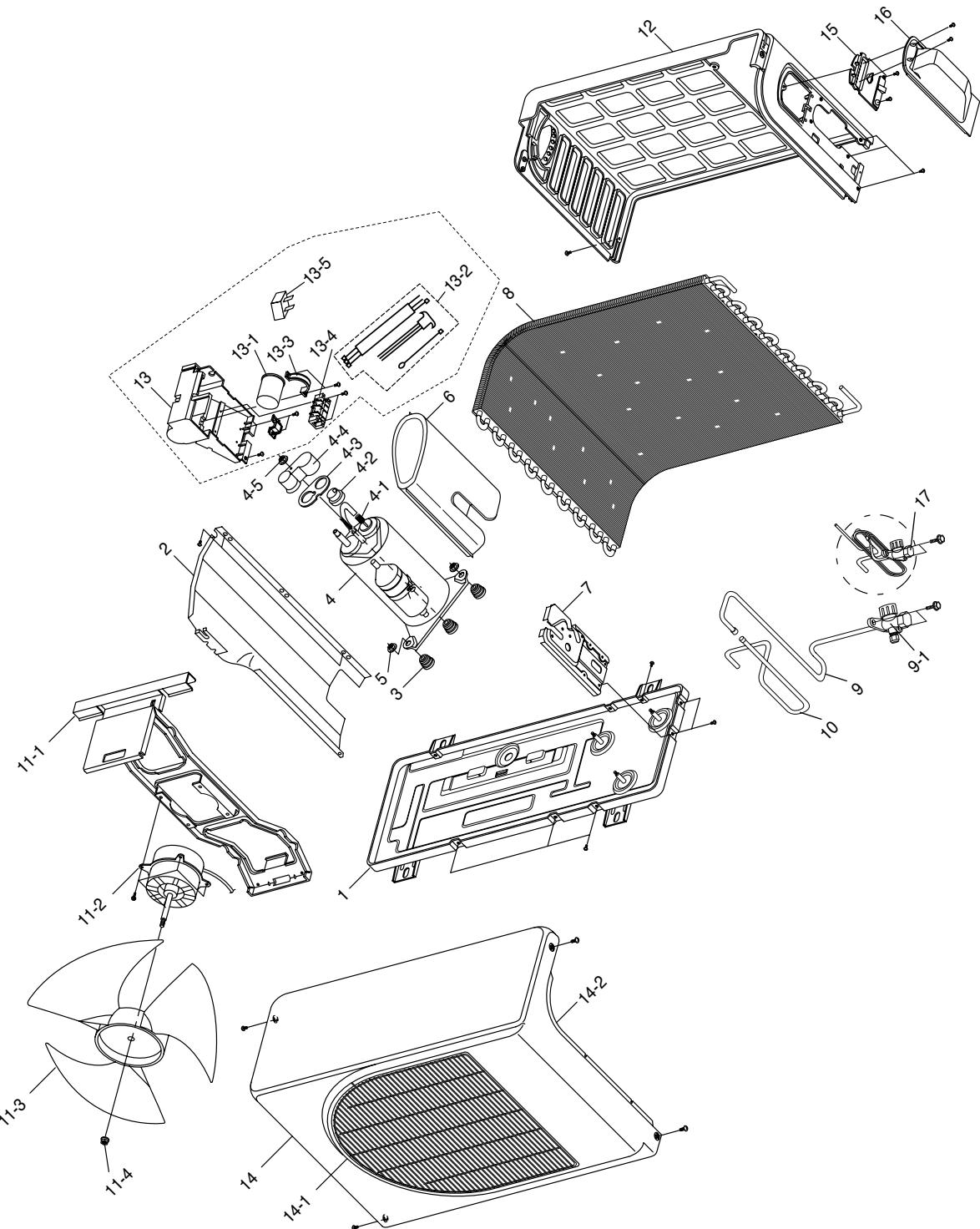
- US07*5(6)ME/A US07*5(6)MED
- SC07Z*5(6)X SC07Z*5(6)DX
- US09*5(6)ME/A US09*5(6)MED
- SC09Z*5(6)X SC09Z*5(6)DX



■ Parts List

No.	CODE NO	Description	Specification	Q'TY					
				US07*5(6)ME SC07Z*5(6)X	US09*5(6)ME SC09*A5(6)X	US07*5(6)MA	US09*5(6)MA	US07*5(6)MED SC07Z*5(6)D	US09*5(6)MED SC09Z*5(6)D
1	DB63-00086B	GUARD-FAN	HSWR, IP2, 5&3, SC-90073T, 375FAN	1	1	1	1	1	1
2	DB60-30004A	NUT-FLALNGE	2C, M6, SM20C, NTR	1	1	1	1	1	1
3	DB67-00036A	FAN-PROPELLER	AS+G/F20%, PI 375, BLK	1	1	1	1	1	1
4	DB31-10058C	MOTOR-FAN OUT	AMASS-020WTVA, FAN OUT, 220/240V	1	1	-	-	-	-
	DB31-10058G	MOTOR-FAN OUT	AMASS-020EREA, FAN OUT, 115V	-	-	1	1	1	1
5	DB90-00264A	ASS'Y FRAME (PAINT)	SC-90073T	1	1	1	1	1	1
6	DB94-00078A	ASS'Y PARTITION	ASS'Y 620mm COND	1	1	1	1	-	-
	DB94-00141A	ASS'Y PARTITION	ASS'Y 636mm COND, ø7	-	-	-	-	1	1
7	DB90-00077B	ASS'Y CABI-UPPER	ASS'Y	1	1	1	1	-	-
	DB90-00077D	ASS'Y CABI-UPPER	ASS'Y	-	-	-	-	1	1
8	DB93-00477B	ASS'Y CONTROL OUT	ASS'Y 2 Stage OLP	1	-	-	-	1	-
	DB93-00452H	ASS'Y CONTROL OUT	ASS'Y Single OLP	-	-	1	-	-	-
	DB93-00477A	ASS'Y CONTROL OUT	ASS'Y 2 Stage OLP	-	1	-	-	-	1
	DB93-00452G	ASS'Y CONTROL OUT	ASS'Y Single OLP	-	-	-	1	-	-
8-1	2501-001228	C-OIL (COMP)	35µF, 370VAC	1	-	-	-	1	-
	2501-001226	C-OIL (COMP)	25µF, 370VAC	-	-	1	-	-	-
	2501-001229	C-OIL (COMP)	40µF, 370VAC	-	1	-	-	-	1
	2501-001230	C-OIL (COMP)	45µF, 370VAC	-	-	-	1	-	-
8-2	2301-001375	C-OIL (MOTOR)	1.0µF, 450VAC	1	1	-	-	1	1
	2301-001379	C-OIL (MOTOR)	4.0µF, 450VAC	-	-	1	1	-	-
8-3	DB93-00480A	ASS'Y LEAD WIRE	V2 P/D (105°C)	1	1	-	-	1	1
	DB93-00412A	ASS'Y LEAD WIRE	V2 P/D (105°C)	-	-	1	1	-	-
8-4	DB65-40049E	TERMINAL BLOCK	4P, (N1), 1, 2, 3, AWG16, 67.5 x 29.4	1	1	1	1	1	1
9	DB72-00453A	CLOTH-COMP	T8, 425, 225, 44F COMP	1	1	1	1	1	1
10	44B080 JW1EL	ROTARY COMP	1Ph, 50Hz, 220-240V	1	-	-	-	1	-
	44A072HW1EB	ROTARY COMP	1Ph, 60Hz, 115V	-	-	1	-	-	-
	44B102 JW1EL	ROTARY COMP	1Ph, 50Hz, 220-240V	-	1	-	-	-	1
	44B092HW1EL	ROTARY COMP	1Ph, 60Hz, 115V	-	-	-	1	-	-
11	DB35-00015F	PROTECTOR O/L	RAC 12086-9622 2 Stage OLP	1	-	-	-	1	-
	DB47-20001V	PROTECTOR O/L	MRA98706-12008 Single OLP	-	-	1	-	-	-
	DB35-00015B	PROTECTOR O/L	RAC 12054-9622 2 Stage OLP	-	1	-	-	-	1
	DB47-20066E	PROTECTOR O/L	MRA12093-12007 Single OLP	-	-	-	1	-	-
12	DB73-00070A	GROMMET-ISOLATOR	EPDM	3	3	3	3	3	3
13	DB60-30018A	NUT-FLANGE	PI0.8, M5, SM20C	1	1	1	1	1	1
14	DB63-20002A	GASKET	EPDM, TO.8	1	1	1	1	1	1
15	DB63-10165D	COVER-TERMINAL	PBT	1	1	1	1	1	1
16	DB60-30028A	NUT-WASHER	HEX, 2C, M8, ZPC	3	3	3	3	3	3
17	DB96-00553A	ASS'Y TUBE CAPILLARY	ID1.5 x 900+1/4"	1	1	-	1	1	-
	DB96-01234A	ASS'Y TUBE CAPILLARY	ID1.5 x 1000+1/4"	-	-	-	-	-	-
	DB96-00553B	ASS'Y TUBE CAPILLARY	ID1.42 x 800+1/4"	-	-	1	-	-	-
	DB96-01234B	ASS'Y TUBE CAPILLARY	ID1.5 x 900+1/4"	-	-	-	-	-	1
17-1	DB62-00254B	VALVE-SERVICE	1/4INCH	1	1	1	1	1	1
18	DB96-00585A	ASS'Y -SUCTION	ASS'Y	1	1	-	1	-	-
	DB96-00585B	ASS'Y -SUCTION	ASS'Y	-	-	-	-	1	1
	DB96-00615A	ASS'Y -SUCTION	ASS'Y	-	-	1	-	-	-
18-1	DB62-40073B	VALVE-SERVICE	3/8INCH	1	1	1	1	1	1
19	DB96-00514A	ASS'Y -DISCHARGE	ASS'Y	1	1	-	1	-	-
	DB62-00835A	TUBE-DISCHARGE	C1220T-0	-	-	-	-	1	1
	DB96-00616A	ASS'Y -DISCHARGE	ASS'Y	-	-	1	-	-	-
20	DB75-00029B	ASS'Y COND	1.5D-FIN, 620mm	1	1	1	1	-	-
	DB96-01287A	ASS'Y COND	1.5 LOUVER, 636mm	-	-	-	-	1	1
21	DB64-60171B	CABINET-SIDE	SECC-P, T 0.8, A-P/J	1	1	1	1	-	-
	DB64-60171C	CABINET-SIDE	SECC-P, T 0.8, A-P/J	-	-	-	-	1	1
22	DB67-00091A	HANDLE-CABI LF	ABS	1	1	1	1	-	-
	DB67-00171A	HANDLE-CABI LF	ABS	-	-	-	-	1	1
23	DB63-10443C	COVER-E, PARTS ASS'Y	SC-90073R	1	1	1	1	1	1

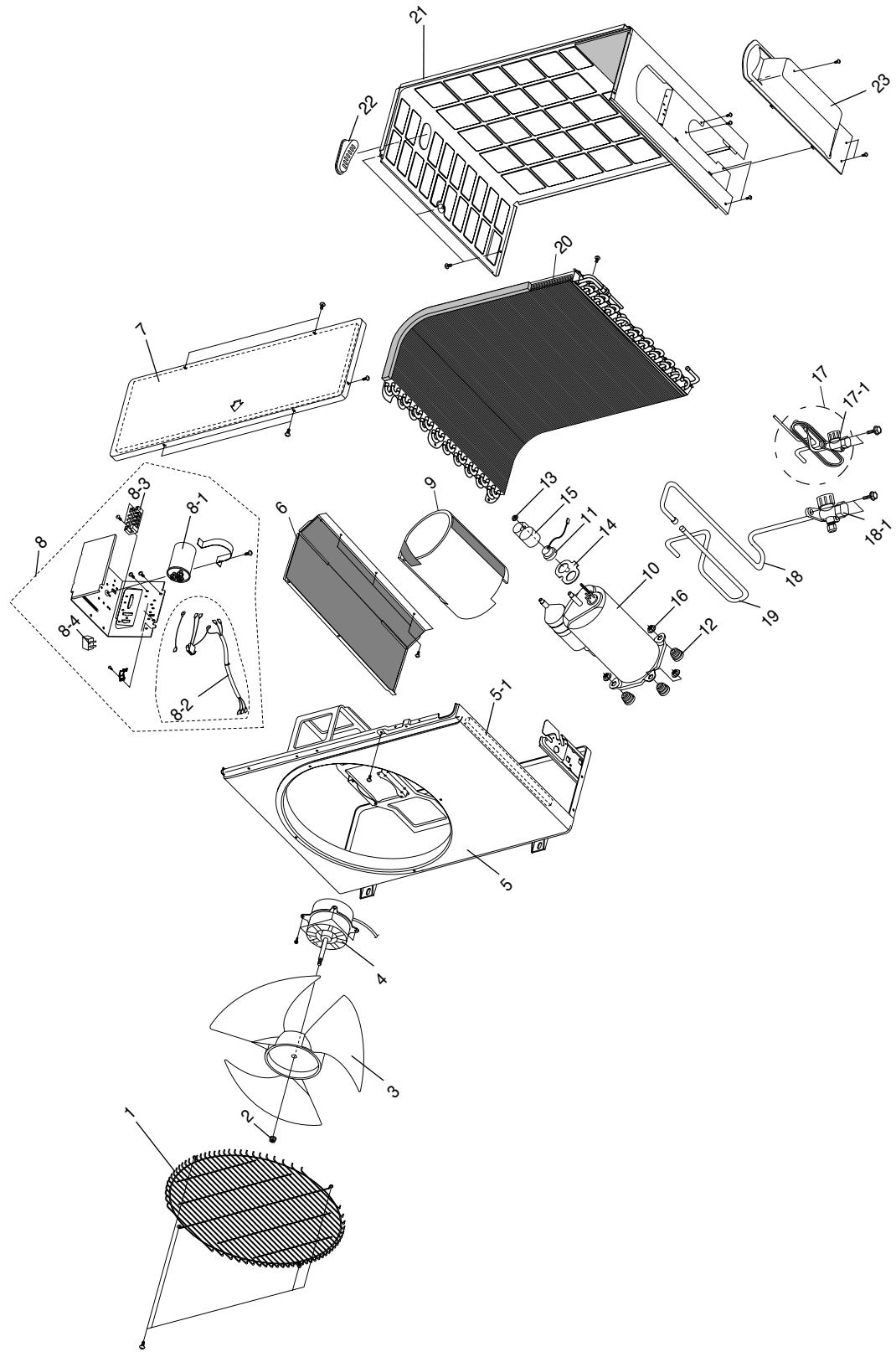
- SC07Z*7(8)X/US07*7(8)M*
- SC09Z*7(8)X/US09*7(8)M*



■ Parts List

No.	CODE NO	Description	Q'TY					
			Mold					
			US09*7(8)ME SC09Z*7(8)X	US07*7(8)ME SC07Z*7(8)X	US09*7(8)MD	US07*7(8)MD	US09*7(8)MB	US07*7(8)MB
1	DB90-00262A	ASS'Y BASE OUT	1	1	1	1	1	1
2	DB94-00045A	ASS'Y PARTITION	1	1	1	1	1	1
3	DB73-10004A	GROMMET ISOLATOR:EPDM	3	3	3	3	3	3
4	44B102JW1EL	ROTARY COMP	1	-	-	-	-	-
	44B080JW1EL	ROTARY COMP	-	1	-	-	-	-
	44B0102MW1EL	ROTARY COMP	-	-	1	-	-	-
	44A070MW1EB	ROTARY COMP	-	-	-	1	-	-
	44B102JW1EL	ROTARY COMP	-	-	-	-	1	-
	44072IW1EB	ROTARY COMP	-	-	-	-	-	1
4-1	DB68-60020A	SPRING OLP	1	1	1	1	1	1
4-2	DB35-00015B	PROTECTOR O/L RAC12054-9622 2 stage OLP	1	-	-	-	-	-
	DB35-00010E or	PROTECTOR O/L MRA12110-12008 Single OLP	-	-	-	-	-	-
	DB35-00015F	PROTECTOR O/L MRA12086-12008 2 stage OLP	-	-	-	-	-	-
	DB35-00010F or	PROTECTOR O/L MRA12086-12008 Single OLP	-	-	-	-	-	-
	DB35-00011A	PROTECTOR O/L MRA12067-12007	-	-	1	-	-	-
	DB47-20001X	PROTECTOR O/L MRT12AMM-12008	-	-	-	1	-	-
	DB35-00010D	PROTECTOR O/L MRA12049-12008	-	-	-	-	1	-
	DB35-00010C	PROTECTOR O/L MRA12043-12008	-	-	-	-	-	1
4-3	DB63-20002A	GASKET : EPDM	1	1	1	1	1	1
4-4	DB63-10165D	COVER TERMINAL (PBT)	1	1	1	1	1	1
4-5	DB60-30018A	NUT FLANGE	1	1	1	1	1	1
5	DB60-30028A	NUT WASHER	3	3	3	3	3	3
6	DB72-00453A	CLOTH COMP SIDE	1	1	1	1	1	1
7	DB61-00168A	BRAKET VALVE	1	1	1	1	1	1
8	DB75-00029A	CONDENSER ASS'Y	1	1	1	1	-	-
	DB75-00029B	CONDENSER ASS'Y	-	-	1	-	1	1
9	DB96-00557A	ASS'Y SUCTION	1	1	1	-	1	-
	DB96-00558A	ASS'Y SUCTION	-	-	-	1	-	1
9-1	DB62-00251A	VALVE SERVICE	1	1	1	1	1	1
10	DB62-00556A	TUBE DISCHARGE	1	1	1	-	1	-
	DB62-00624A	TUBE DISCHARGE	-	-	-	1	-	1
11-1	DB90-00110A	ASS'Y BRACKET MOTOR	1	1	1	1	1	1
11-2	DB31-00034A	MOTOR FAN OUT	1	1	1	1	1	1
11-3	DB67-00036A	FAN PROPELLER	1	1	1	1	1	1
11-4	DB60-30004A	NUT FLANGE	1	1	1	1	1	1
12	DB90-00109A	ASS'Y CABINET SIDE	1	1	1	1	1	1
13	DB93-00667A or	ASS'Y CONTROL OUT 2 stage OLP	1	-	-	-	-	-
	DB93-00434A	ASS'Y CONTROL OUT Single stage OLP	-	-	-	-	-	-
	DB93-00667B or	ASS'Y CONTROL OUT 2 stage OLP	-	1	-	-	-	-
	DB93-00434B	ASS'Y CONTROL OUT Single stage OLP	-	-	-	-	-	-
	DB93-00434C	ASS'Y CONTROL OUT	-	-	1	-	-	-
	DB93-00434D	ASS'Y CONTROL OUT	-	-	-	1	-	-
	DB93-00434E	ASS'Y CONTROL OUT	-	-	-	-	1	-
	DB93-00434F	ASS'Y CONTROL OUT	-	-	-	-	-	1
13-1	2501-001229	C OIL : 40 μ F,370VAC	1	-	1	-	-	-
	2501-001228	C OIL : 35 μ F,370VAC	-	1	-	-	-	-
	2501-001225	C OIL : 20 μ F,370VAC	-	-	-	1	-	1
	2501-001226	C OIL : 25 μ F,370VAC	-	-	-	-	1	-
13-2	DB93-00480A or	ASS'Y LEAD WIRE 2 stage OLP	-	-	-	-	-	-
	DB93-00412A	ASS'Y LEAD WIRE Single stage OLP	1	1	1	1	1	1
13-3	DB61-00174A	HOLDER CAPACITOR	1	1	1	1	1	1
13-4	DB65-40049D	TERMINAL BLOCK	1	1	1	1	1	1
13-5	2301-001375	C OIL : 1.5 μ F,450VAC	1	1	1	1	1	1
14	DB90-00108B	ASS'Y CABINET FRONT	1	1	1	1	1	1
14-1	DB63-00099A	GUARD FAN WIRE	1	1	1	1	1	1
14-2	DB61-00173A	GUIDE BELL MOUTH	1	1	1	1	1	1
15	DB90-00152A	ASS'Y COVER CONTROL	1	1	1	1	1	1
16	DB94-00021A	ASS'Y COVER VALVE	1	1	1	1	1	1
17	DB96-00195A	ASS'Y-CAPILLARY	1	1	1	-	1	-
	DB96-00195B	ASS'Y-CAPILLARY	-	-	-	1	-	1

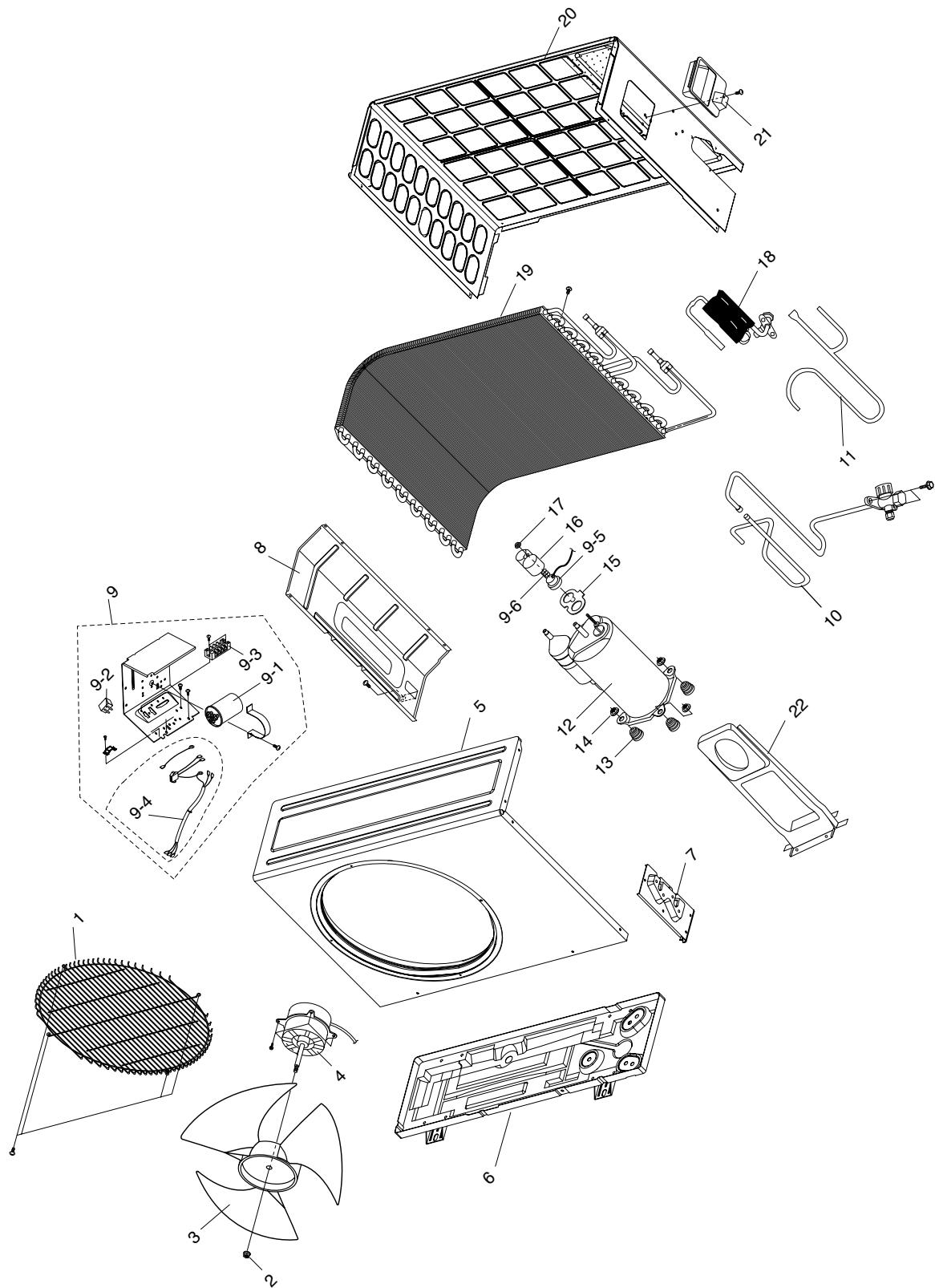
- US12*9(0)ME
 - SC12Z*9(0)X



■ Parts List

No.	CODE NO	Description	Specification	Q'TY	Remarks
				US12*9(0)ME SC12Z*9(0)X	
1	DB63-00071A	GUARD-FAN	HSER, IP2, SC-90073T, NEW V-P/J 405FAN	1	
2	DB60-30004A	NUT-FLALNGE	-, 2C, M6, -, SM20C, NTR	1	
3	DB67-50063A	FAN-PROPELLER	AS+G/F20%, PI 405, BLK	1	
4	DB31-10058C	MOTOR-FAN OUT	AMASS-020WTVA, FAN OUT, 220/241	1	
5	DB90-00372A	ASS'Y FRAME	V2 P/D, 48F, SAMSUNG, SILK ELCOMP	1	
5-1	DB72-00194J	SEAL-FRONT, RH	30FOAM-PU, T15, 15, 400, BLK, -	1	
6	DB94-00098A	ASS'Y PARTITION	V2 P/D, 12K, 2ROW COND	1	
7	DB90-00374A	ASS'Y CABI-UPPER	V2 P/D, SC90073 T+FOAM-PU	1	
8	DB93-00477C or DB93-00452A	ASS'Y CONTROL OUT	<div style="display: flex; align-items: center; gap: 10px;"> < <div style="display: flex; gap: 10px;"> 2 stage OLP Single OLP </div> </div>	1	
8-1	2501-001236	C-OIL	30μF, 450VAC	1	
8-2	DB93-00480A DB93-00412A	ASS'Y LEAD WIRE	<div style="display: flex; align-items: center; gap: 10px;"> < <div style="display: flex; gap: 10px;"> 2 stage OLP Single OLP </div> </div>	1	
8-3	DB65-40049E	TERMINAL BLOCK	4P, (N1), 1, 2, 3	1	
8-4	2301-001377	C-OIL	1.2μF, 450VAC	1	
9	DB72-00453A	CLOTH-COMP SIDE	8t	1	
10	48A124JV1EL	ROTARY COMP	1ph, 208-240V-, 50Hz, 124000BTU	1	
11	DB35-00010A DB35-00010B	PROTECTOR O/L	<div style="display: flex; align-items: center; gap: 10px;"> < <div style="display: flex; gap: 10px;"> RAC02030-9622 2 stage OLP MRA12030-12008 Single OLP </div> </div>	1	
12	DB73-10004B	GROMMET-ISOLATOR	SILICON	3	
13	DB60-30018A	NUT-FLANGE	PI0.8, -, M5, -, SM20C, -	1	
14	DB63-20002A	GASKET	EPDM, TO.8, -, -, -	1	
15	DB63-10165D	COVER-TERMINAL	PBT	1	
16	DB60-30028A	NUT-WASHER	HEX, 2C, MB, ZPC, -, -	3	
17	DB96-00350C	ASS'Y TUBE CAPILLARY	ID1.7*1200+1/4"	1	
17-1	DB62-00254A	VALVE-SERVICE 1/4"	ASS'Y, -, 1/4", 45KG/CM2G, -	1	
18	DB96-00761A	ASS'Y TUBE SUCTION	ASSY	1	
18-1	DB62-00251A	VALVE-SERVICE	1/2"+9.52, 45/30KG	1	
19	DB62-00762A	TUBE-DISCHARGE	ASSY	1	
20	DB96-00291A	ASS'Y COND	1.7D-FIN, NORMAL	1	
21	DB64-00090A	CABINET-SIDE	SECC-P, T 0.8, -, SC-90073T, NEW V-P/J, -	1	
22	DB67-90024A	HANDLE-CABI LF	ABS, T2, -	1	
23	DB63-00070A	COVER VALVE	V2 P/D, PP	1	

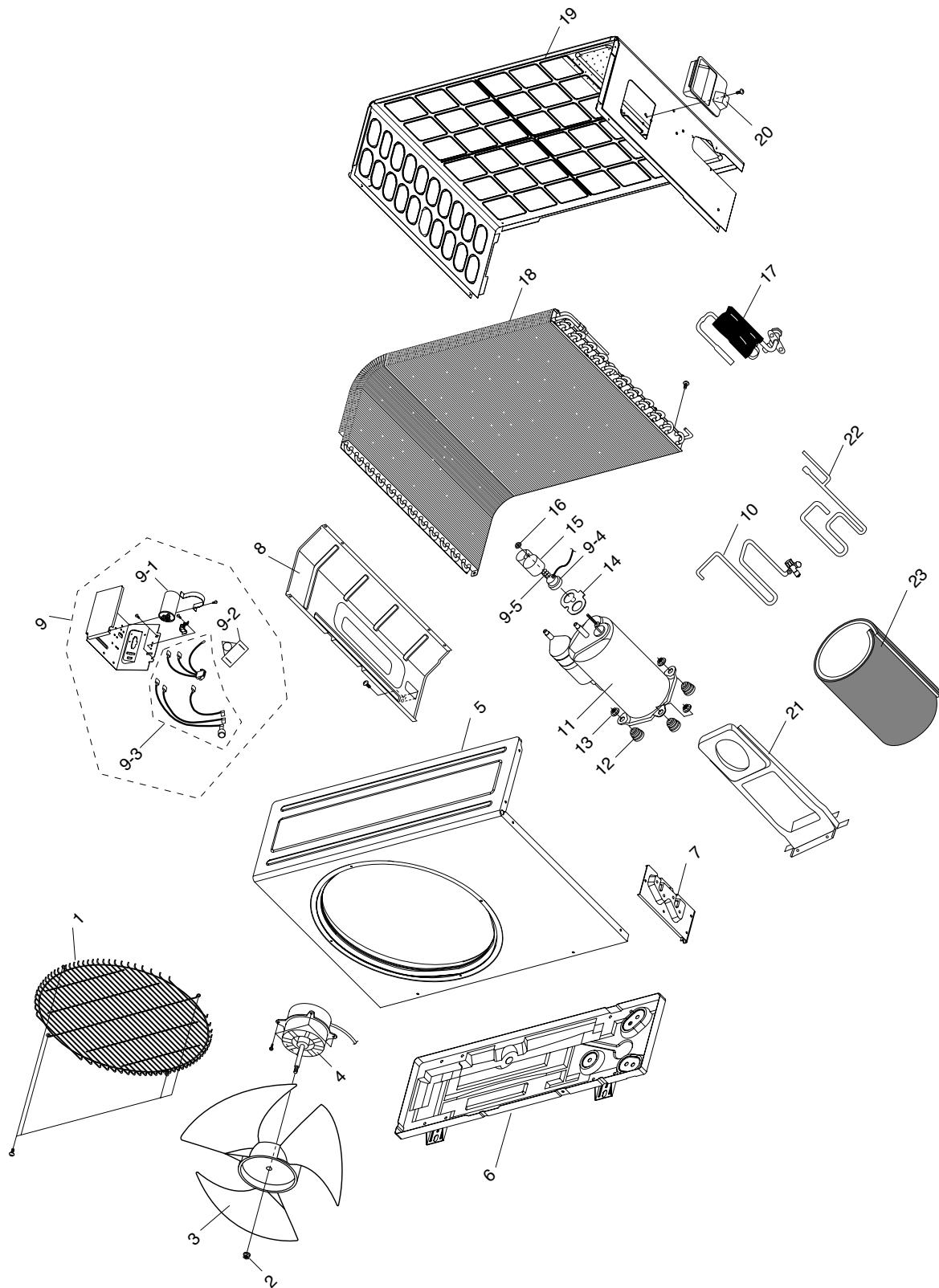
- US12*A(B)ME(B)
- SC12Z*A(B)X



■ Parts List (OUTDOOR UNIT)

No.	CODE NO	Description	Specification	Q'TY		Remark
				US12*A(B)ME SC12Z*A(B)X	US12*A(B)MB	
1	DB63-00071A	GUARD FAN	HSER, CD 2.0	1	1	
2	DB60-30020A	NUT FLANGE	2C SM20C M6 NTR	1	1	
3	DB67-50063A	PROPELLER-FAN	AS+G/F, ø405	1	1	
4	DB31-10058C	MOTOR FAN OUT	220/240V, 60/50HZ	1	1	
5	DB90-00633E	ASS'Y CABINET FRONT	ASS'Y	1	1	
6	DB90-00635B	ASS'Y BASE OUT	ASS'Y	1	-	
	DB90-00687C	ASS'Y BASE OUT	ASS'Y	-	1	
7	DB61-00803A	BRACKET VALVE	SECC-P, T1.6	1	1	
8	DB94-00163A	ASS'Y PARTITION	ASS'Y	1	1	
9	DB93-00477L	ASS'Y CONTROL OUT	ASS'Y	1	-	
	DB93-00477T	ASS'Y CONTROL OUT	ASS'Y	-	1	
9-1	2501-001236	CAPACITOR COMP	30µF 450VAC	1	-	
	2501-001237	CAPACITOR COMP	35µF 450VAC	-	1	
9-2	2301-001375	CAPACITOR MOTOR	1.5µF 450VAC	1	1	
9-3	DB65-40049E	TERMINAL BLOCK	4P, (N1), 1, 2, 3, AWG16	1	1	
9-4	DB93-00481A	ASS'Y LEAD WIRE	ASS'Y	1	1	
9-5	DB35-00015G	O L P	RAC12030-9622	1	-	
	DB35-00015H	O L P	RAC12074-9622	-	1	
9-6	DB67-60020A	O L P SPRING	STS304	1	1	
10	DB62-00975A	SUCTION	C1220T-0, 0.7, 9.52	1	1	
11	DB62-00974A	DISCHARGE	C1220T-0, 0.7, 7.9	1	1	
12	48A124JV1EL	COMPRESSOR	220-240V/50Hz	1	-	
	44B135IX1EL	COMPRESSOR	220V/60Hz	-	1	
13	DB73-00067A	GROMMET-ISOLATOR	NR	3	3	
14	DB60-30028A	NUT-WASHER	HEX 2C MB ZPC	3	3	
15	DB63-20002A	GASKET	EPDM	1	1	
16	DB63-10165D	COVER TERMINAL	PBT	1	1	
17	DB60-30018A	NUT-FLANGE	M5, SM20C	1	1	
18	DB96-00157A	ASS'Y CAPILLARY	ASS'Y(1.5x700)	1	-	
	DB96-01547J	ASS'Y CAPILLARY	ASS'Y(1.7x800)	-	1	
19	DB96-01533A	ASS'Y COND	ASS'Y	1	-	
	DB96-01533C	ASS'Y COND	ASS'Y(SF)	-	1	
20	DB90-00634A	CABINET SIDE	ASS'Y(BENDING)	1	1	
21	DB63-10443C	HANDLE CABI, RH	ABS	1	1	
22	DB61-00802A	BRACKET MOTOR	SGCC-M, T1.2	1	1	

• US14*A(B)TB

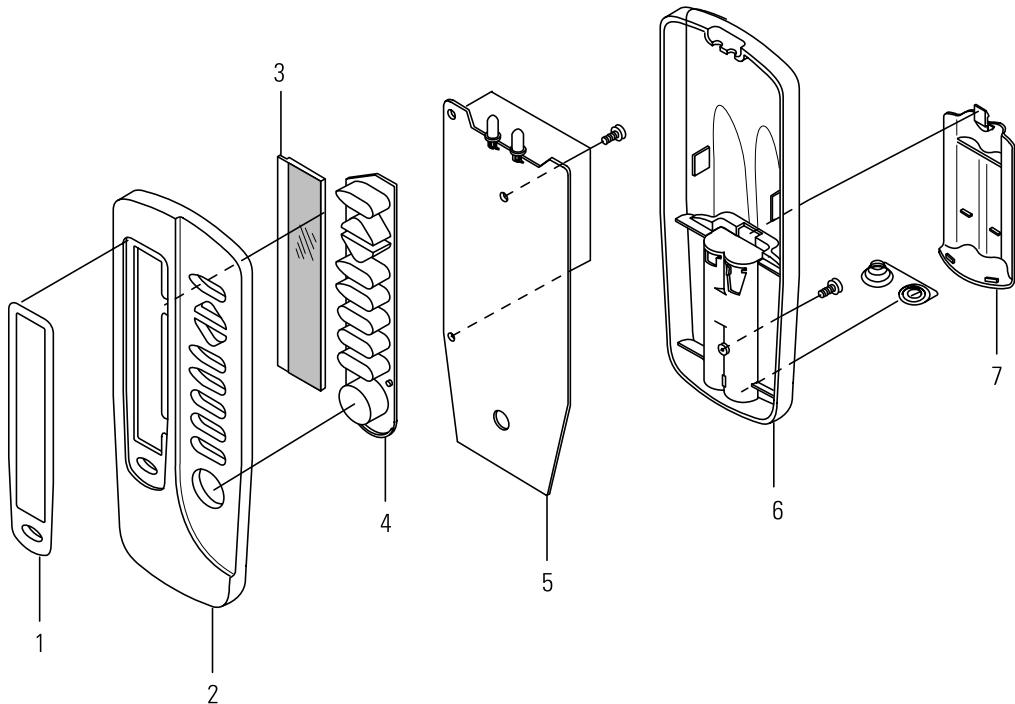


■ Parts List

No.	CODE NO	Description	Specification	Q'TY
				US14*A(B)TB
1	DB63-00071A	GUARD FAN	HSER, CD2.0	1
2	DB60-30020A	NUT FLANGE	2C SM20C M6 NTR	1
3	DB67-50063A	PROPELLER-FAN	AS+G/F, ø405	1
4	DB31-10058C	MOTOR FAN OUT	220/240V, 60/50Hz	1
5	DB90-00633E	ASS'Y CABINET FRONT	ASS'Y	1
6	DB90-00687E	ASS'Y BASE OUT	ASS'Y	1
7	DB61-00887A	BRAKET VALVE	SECC-P,T1.6	1
8	DB94-00163C	ASS'Y PARTITION	ASS'Y	1
9	DB93-00477T	ASS'Y CONTROL OUT	ASS'Y	1
9-1	2501-001237	CAPACITOR COMP	35µF 450VAC	1
9-2	2301-001375	CAPACITOR MOTOR	1.5µF 450VAC	1
9-3	DB93-00487B	ASS'Y LEAD WIRE	ASS'Y	1
9-4	DB35-00015H	OLP	RAC12074-9622	1
9-5	DB67-60020A	OLP SPRING	STS304	1
10	DB96-01704A	ASS'Y SUCTION	ASS'Y	1
11	44B135IX1EL	COMPRESSOR	220V, 60Hz	1
12	DB73-00067A	GROMMET-ISOLATOR	NR	3
13	DB60-30028A	NUT-WASHER	HEX 2C MB ZPC	3
14	DB63-20002A	GASKET	EPDM	1
15	DB63-10165D	COVER TERMINAL	PBT	1
16	DB60-30018A	NUT-FLANGE	M5, SM20C	1
17	DB96-01705A	ASS'Y CAPILLARY	ASS'Y(1.7 x 900)	1
18	DB96-01533D	ASS'Y COND	ASS'Y	1
19	DB90-00634A	CABINET SIDE	ASS'Y(BENDING)	1
20	DB63-10443C	HANDLE CABINET, RH	ABS	1
21	DB61-00802A	BRACKET MOTOR	SGCC-M, T1.2	1
22	DB62-01165B	TUBE-DISCHARGE	C1220T-0	1
23	DB72-00694A	SPONGE COMP SIDE	FELT, T8.0	1

6-3 Remote Control & PCB Box

6-3-1 ASS'Y REMOCON : DB93-00251K

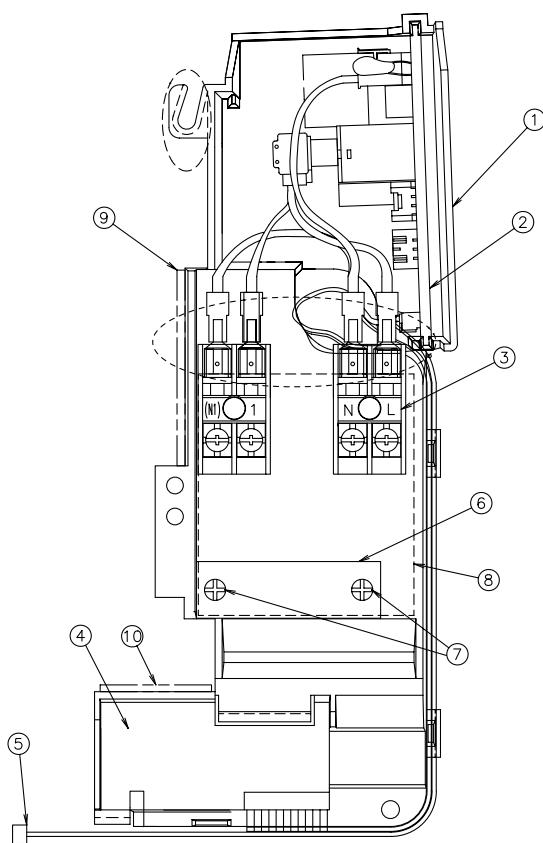


■ Parts List

No	Description	Q'TY	Remark
1	INLAY LCD	1	
2	CASE TOP	1	
3	LCD	1	
4	KEY RUBBER	1	
5	ASS'Y PCB REMOCON	1	
6	CASE LOW	1	
7	BATTERY COVER	1	

6-4 Indoor Control Unit

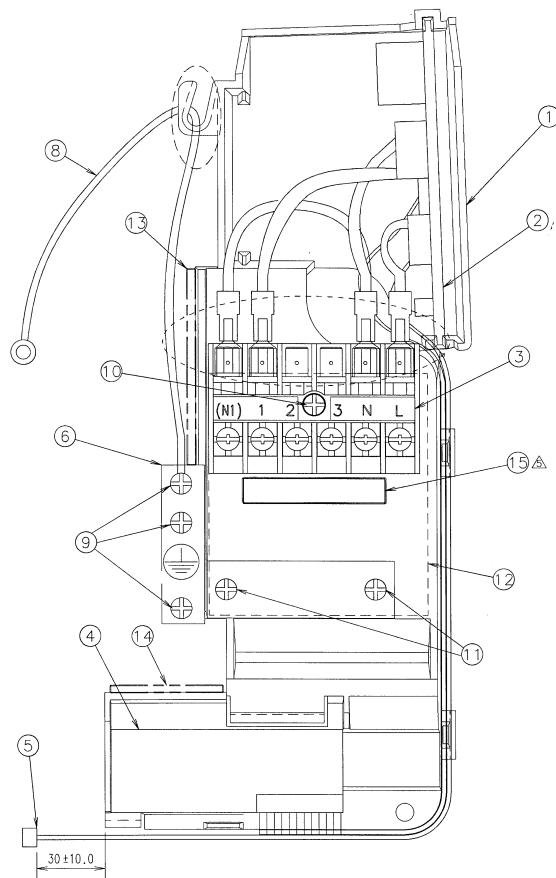
6-4-1 ASS'Y CONTROL-IN : DB93-00458E(AS****ME(D)(B)/MED, SC****D)



■ Parts List

No	Description	Specification	Remark
1	HOLDER CONTROL	ABS	
2	ASS'Y MAIN PCB	ASS'Y	
3	ASS'Y TERMINAL BLOCK	2P x 2	
4	ASS'Y DISPLAY PCB	ASS'Y	
5	CONNECTOR WIRE PCB U/D	5P	
6	HOLDER-WIRE CLAMP		
7	SCREW	TH + M4 x L16, ZPC(YEL), SWRCH	
8	HOLDER CLAMP IN		
9	SEAL-PANEL FRONT RH		
10	SEAL-HI CONTROL FRONT		

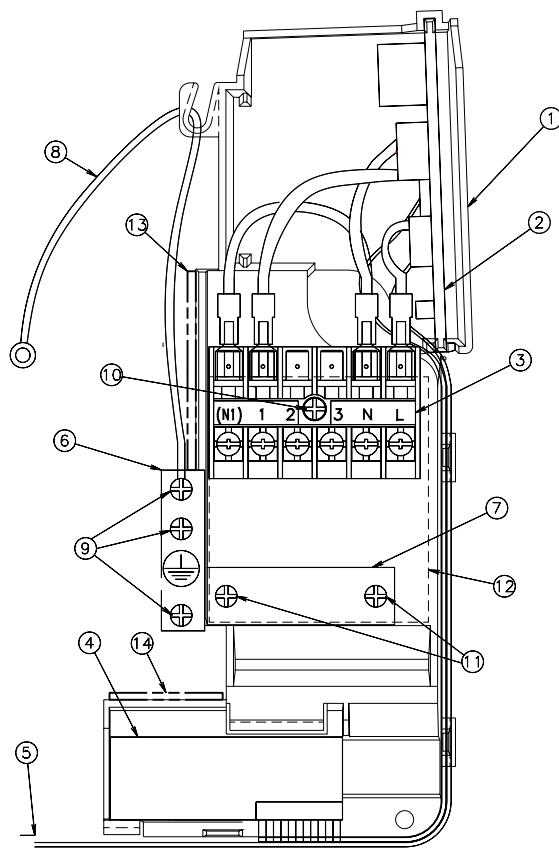
6-4-2 ASS'Y CONTROL-IN : DB93-00270G (AS****MA)



■ Parts List

No	Description	Specification	Remark
1	HOLDER CONTROL	ABS	
2	ASS'Y MAIN PCB		
3	ASS'Y TERMINAL BLOCK	6P	
4	ASS'Y DISPLAY PCB		
5	CONNECTOR WIRE PCB U/D		
6	BRACKET EARTH	SGCC-M	
7	HOLDER-WIRE CLAMP		
8	CONNECTOR WIRE EARTH	AWG#16	
9	SCREW	WP, TH + M4 x L8, ZPC(WHT), T.C	
10	SCREW	PH, M3 x L22	
11	SCREW	TH + M4 x L16, ZPC(YEL), SWRCH	
12	HOLDER CLAMP IN		
13	SEAL-PANEL FRONT RH		
14	SEAL-H/CONTROL FRONT		
15	LABEL		

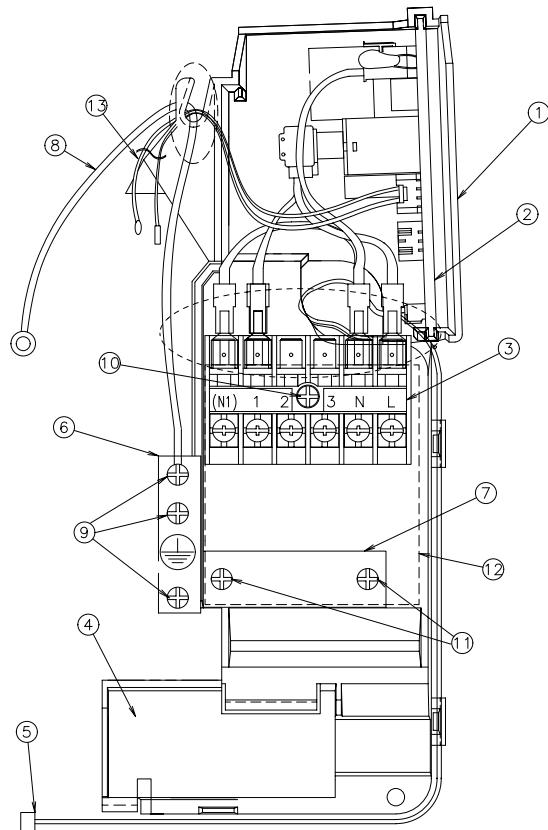
6-4-3 ASS'Y CONTROL-IN : DB93-00459A



■ Parts List

No	Description	Specification	Remark
1	HOLDER CONTROL	ABS	
2	ASS'Y MAIN PCB	ASS'Y	
3	ASS'Y TERMINAL BLOCK	6P	
4	ASS'Y DISPLAY PCB	ASS'Y	
5	CONNECTOR WIRE PCB U/D	5P	
6	BRACKET EARTH	SGCC-M	
7	HOLDER WIRE CLAMP	-	
8	CONNECTOR WIRE EARTH	AWG#16	
9	SCREW	WP, TH + M4 x L8, ZPC(WHT), T.C	
10	SCREW	PH, M3 x L22	
11	SCREW	TH + M4 x L16, ZPC(YEL), SWRCH	
12	HOLDER CLAMP IN	-	
13	SEAL PANEL FRONT RH	-	
14	SEAL H/CONTROL FRONT	-	

6-4-4 ASS'Y CONTROL-IN : DB93-01130A(AS14*A(B)TB)

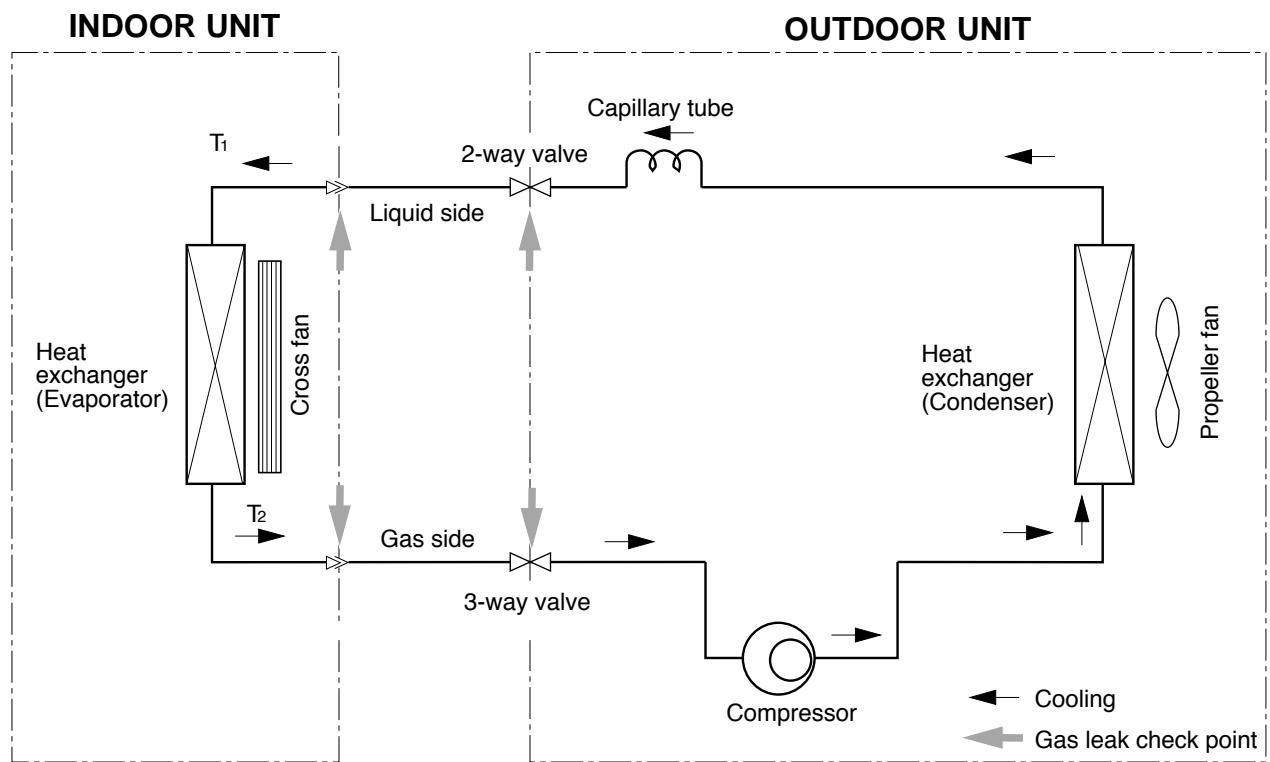


■ Parts List

No	Description	Specification	Code No	Q'TY	Remark
1	HOLDER CONTROL	ABS	DB61-00493A	1	
2	ASS'Y MAIN PCB	ASS'Y	DB93-01019B	1	
3	ASS'Y TERMINAL BLOCK	6P	DB65-00032A	1	
4	ASS'Y DISPLAY PCB	ASS'Y	DB93-00268A	1	
5	CONNECTOR WIRE PCB U/D	5P	DB39-00147A	1	
6	BRACKET EARTH	SGCC-M	DB61-00163A	1	
7	HOLDER-WIRE CLAMP		DB61-00171A	1	
8	CONNECTOR WIRE EARTH	AWG#16	DB61-00148A	1	
9	SCREW	WP, TH + M4 x L8, ZPC(WHT), T, C	6009-001001	3	
10	SCREW	PH, M3 x L20	-	1	
11	SCREW	TH + M4 x L16, ZPC(YEL), SWRCH	6001-000725	2	
12	HOLDER CLAMP IN		DB61-00495A	1	
13	ASS'Y THERMISTOR	4P(2mm PITCH) 103AT	DB32-00020C	-	

7. Block Diagrams

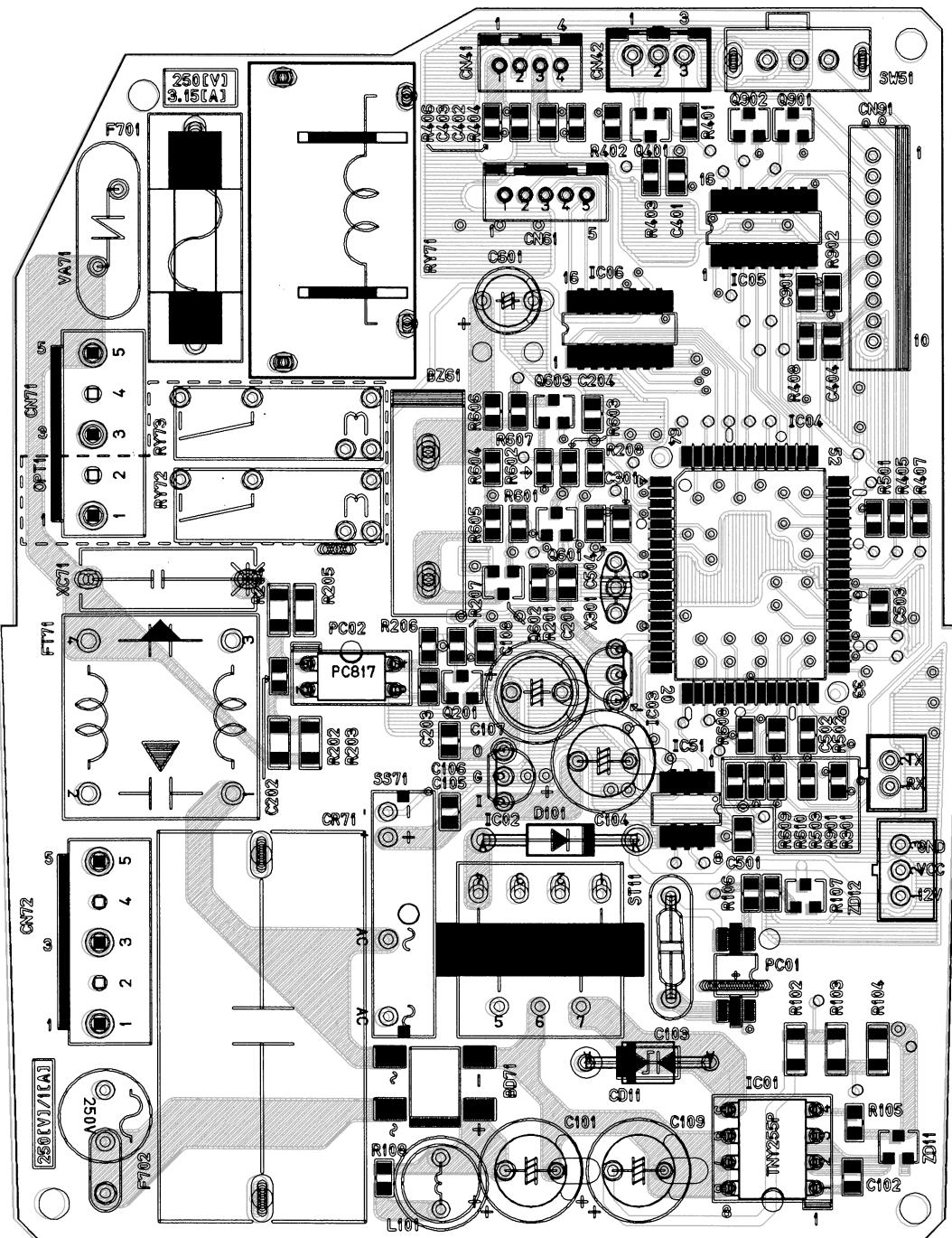
7-1 Refrigerating Cycle Block Diagram



8. PCB Diagrams

8-1 ASS'Y MAIN PCB; DB93-00438A(AS*****ME/D/B, SC*****)

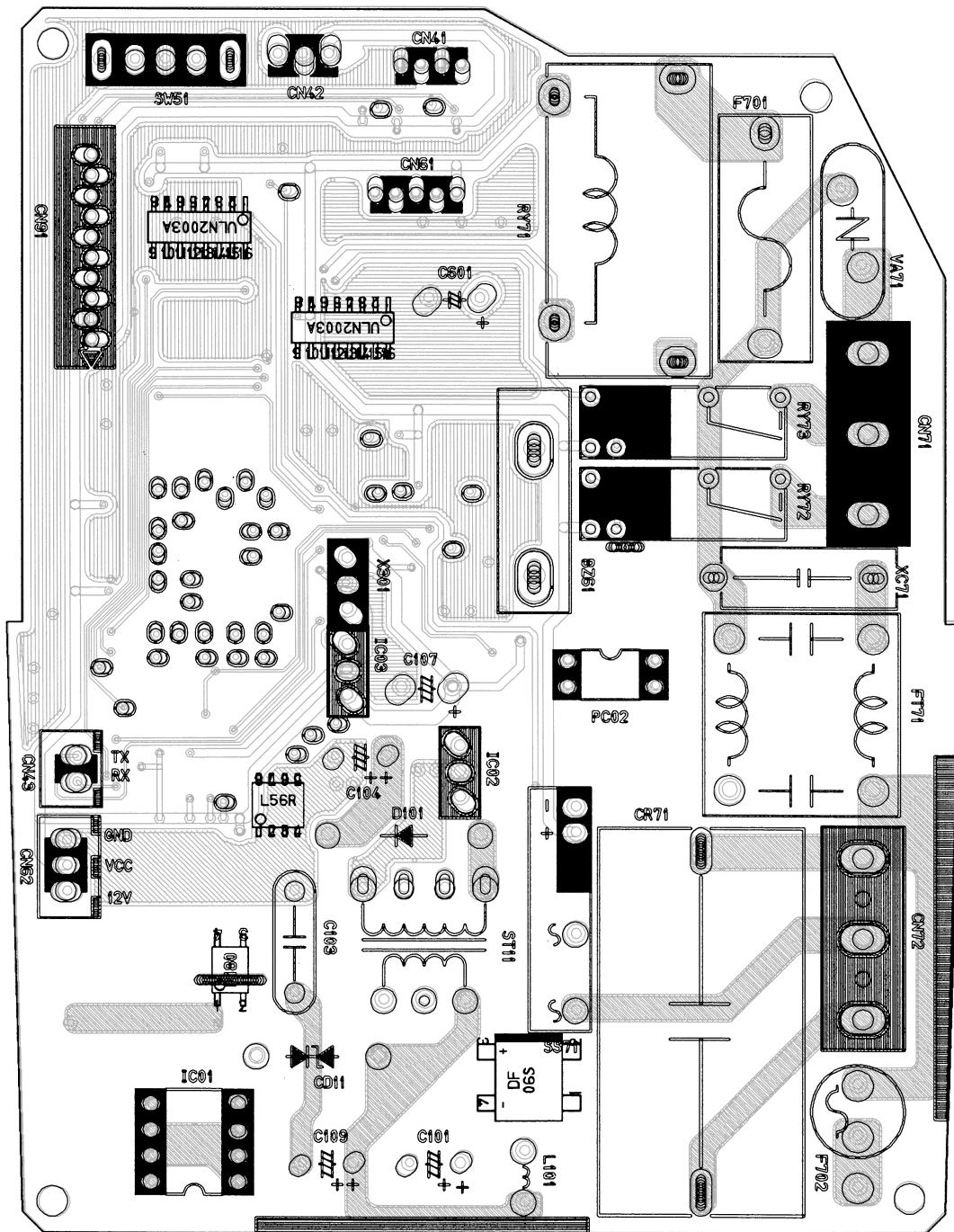
■ TOP PATTERN



■ Parts List

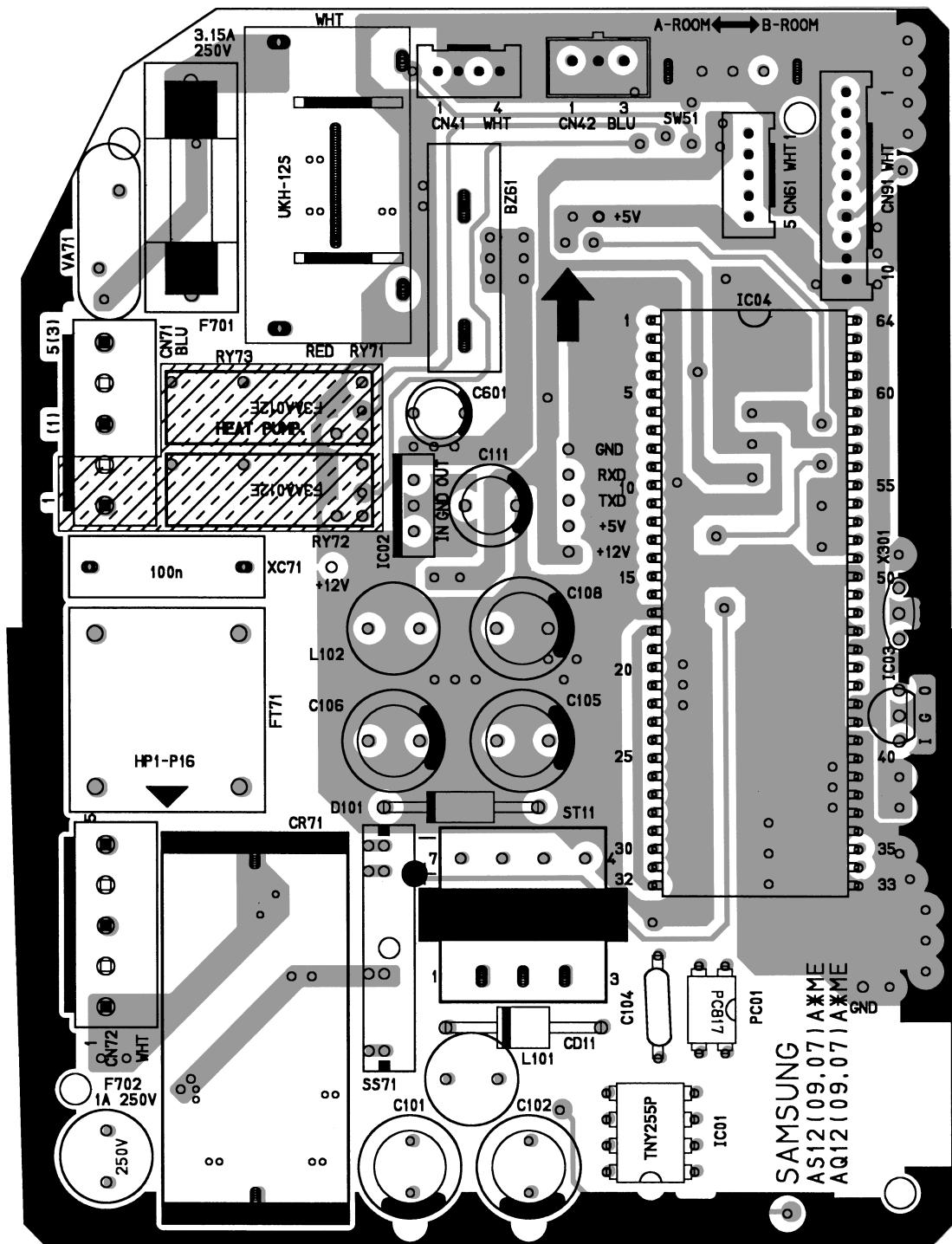
No	Description	Location No.	Specification
1	PCB		FR-4, T1.6
2	IC-MCU	IC04	S3C8469X21-QTR9(STM-0015-OA)
3	SSR	SS71	G3MB202PL
4	IC VOLT REGULATOR	IC02	KA78L05AZ
5	IC-RESET	IC03	KA7533Z
6	PHOTO-COUPLER	PC02	TLP620GR PC814X1
7	FR-DIODE	D101	UG2B
8	T.V.S	CD11	ST02D-220
9	VARISTOR	VA71	INR14D561K
10	RESONATOR	X301	10MHz
11	SW TRANS	ST11	EI1916(12V, 15V)-"I"TYPE
12	FILTER NOISE	FT71	250V/1.0A HP1-P10
13	COIL	L101	5mH, 50mA
14	EEPROM	OC51	93LC56B-I/SN
15			
16	RELAY POWER	RY71	20A, 12Vdc
17	BUZZER	BZ61	CBE2220BA
18	HOLDER FUSE	F701	FB58(FH-51H)
19	FUSE	F701	250V, 3.15A
20	FUSE	F702	250V, 1A
21	CONNECTOR HEADER	CN71	YW396-03AV BLU
22	CONNECTOR HEADER	CN72	YW396-05AV WHT
23	CONNECTOR HEADER	CN91	SMW200-10P WHT
24	CONNECTOR HEADER	CN61	SMW200-05P WHT
25	CONNECTOR HEADER	CN42	SMW250-03P BLU
26	CONNECTOR HEADER	CN41	SMW200-4P WHT
27	C-FILM	CR71	1.2 μ F/450Vac
28	C-ELEC	C104	1000 μ F / 450Vac
29	C-ELEC	C601	47 μ F 50V
30	C-ELEC	C107	470 μ F 16V
31	C-ELEC	C101, C109	SD 6.8 μ F 450V
32	C-CERAMIC	C103	SDE2G222M112BL1
33	C-FILM	XC71	104M 275V x 2
34	TR SWITCH	IC01	TNY255P
35	TR SMALL SIGNAL	Q603	MMST2907A
36	TR SMALL SIGNAL	Q201, Q401, Q601, Q602	2SC2412K
37	TR DIGITAL	Q901, Q902	DTA114EKA
38	PHOTO COUPLER	PC01	TLP181
39	IC DRIVE	IC05, IC06	ULN2003AFW
40	C-CHIP	C102, 105, 106, 108, 201, 202, 301, 402, 403, 501, 502, 503, 504, 901	CS2012Y5V104Z500
41	C-CHIP	C203, C204, C401	CL21C103K
42	C-CHIP	C404	CS2012X7R102K5
43	R-CHIP	R102, R103, R104	220K, 1/8W-J
44	R-CHIP	R402	RMC 1/10 6.8K-J
45	R-CHIP	R202, R203, R204, R205	100K, 1/8W-J
46	R-CHIP	R405, R407	330K, 1/10W-J
47	R-CHIP	R108, R901, R603	RMC 1/10 6.8K-J
48	R-CHIP	R107, R106	220, 1/10W-J
49	R-CHIP	R105, R604, R605	470, 1/10W-J
50	R-CHIP	R206, 501, 502, 503, 602, 609, 610, 902	RMC 1/10 10K-J
51	R-CHIP	R404, 406	RMC 1/10 6.8K-F
52	R-CHIP	R201, 207, 208, 301, 401, 403, 408, 601, 607, 608	RMC 1/10 1K-J
53	R-CHIP	R606	1/10W 560 Ω -J
54	ZENER DIODE	ZD12	BZX84-C11
55	ZENER DIODE	ZD11	BZX84-C3V6
56	DIODE BRIDGE	BD71	DF06S

■ BOTTOM PATTERN



8-2 ASS'Y MAIN PCB;DB93-00266D(AS***MA)

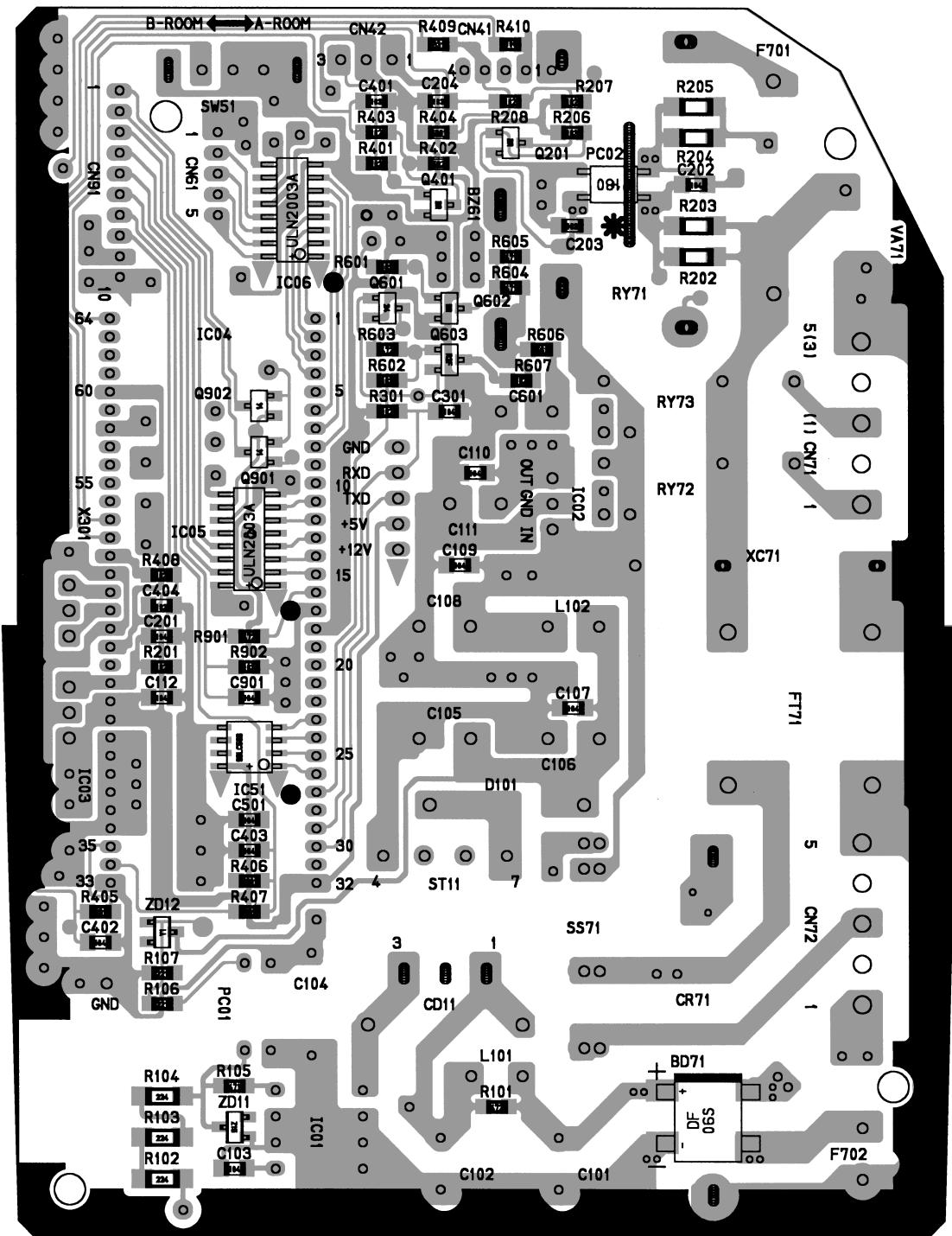
■ TOP PATTERN



■ Parts List

No	Description	Location No.	Specification
1	PCB		120*93
2	IC-MCU	IC4	UPD780024CW
3	SSR	SSS71	G3MB202PL
4	IC VOLT REGULATOR	OC02	KA7805A
5	IC-RESET	IC03	KA7533Z
6	PHOTO-COUPLER	IC01	PC817
7	FR-DIODE	D101	UG2B
8	T.V.S	CD11	SYT02D-200
9	VARISTOR	VA71	INR14D471K-BS
10	RESONATOR	X301	4MHz
11	SW TRANS	ST11	V2(JT1916-1701P)
12	FILTER NOISE	FT71	HP1-P10
13	COIL	L101	5mH, 50mA
14	COIL	L102	4.7μH 0.5A
16	RELAY POWER	RY71	YKH-12S
17	BUZZER	BZ61	CBE2220BA
18	HOLER FUSE	F701	FB58(FH-51H)
19	FUSE	F701	250V, 3.15A
20	FUSE	F702	250V, 1A
21	CONNECTOR HEADER	CN71	YW396-03AV BLU
22	CONNECTOR HEADER	CN72	YW396-05AV WHT
23	CONNECTOR HEADER	CN91	SMW200-10P WHT
24	CONNECTOR HEADER	CN61	SMW200-05P WHT
25	CONNECTOR HEADER	CN42	SMW250-03P BLUE
26	CONNECTOR HEADER	CN41	SMW200-4P WHT
27	C-FILM	CN71	4μF 450V
28	C-AL	C105, C106, C108	SD 470μF 25V
29	C-AL	C601	47μF 50V
30	C-AL	C111	470μF 16V
31	C-ELEC	C101, C102	SD 6.8μF 450V
32	C-CERAMIC	C104	SDE2G222M12BL1
33	C-FILM	XC71	104M 275V x2
34	TR SWITCH	IC01	TNY255P

■ BOTTOM PATTERN

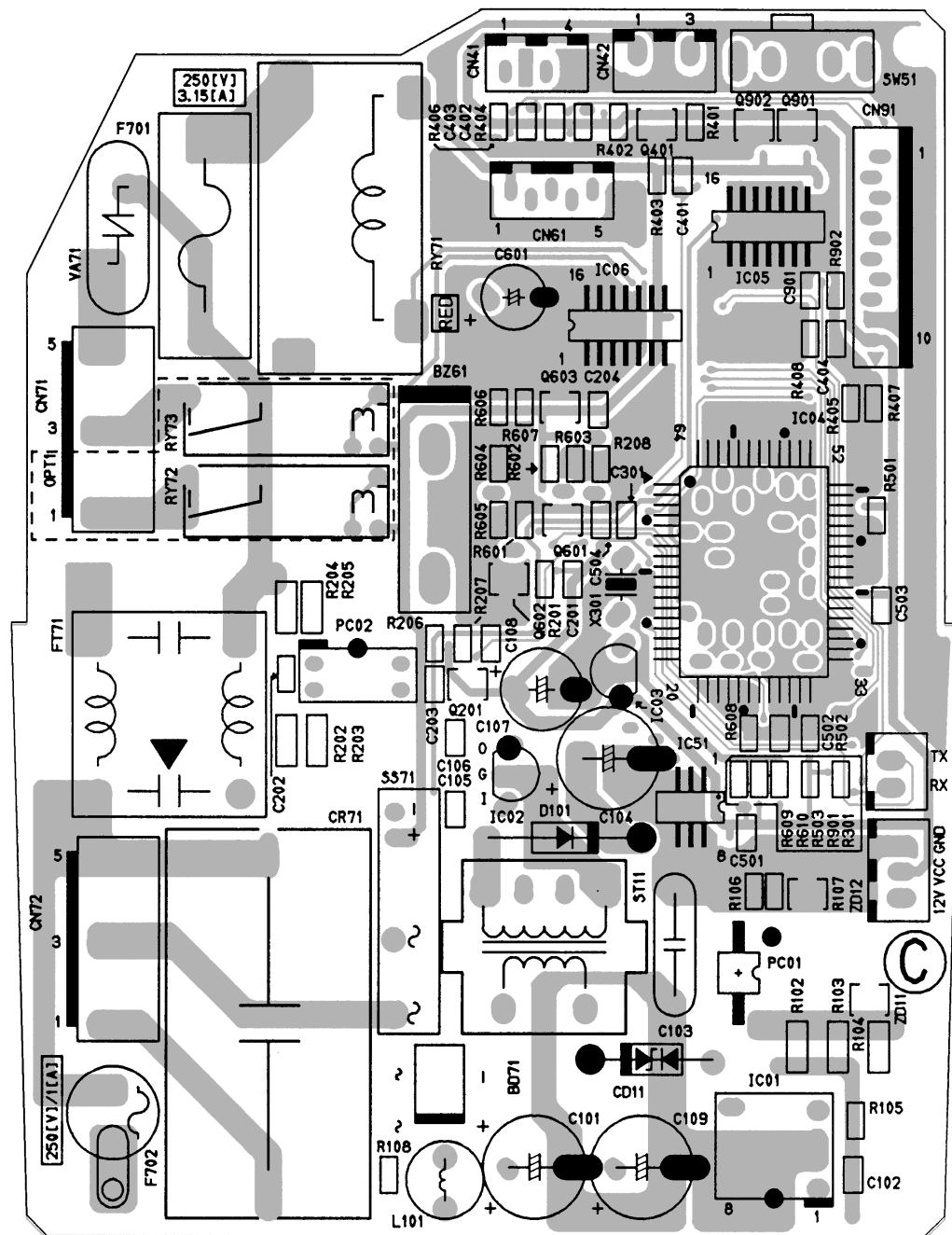


■ Parts List

No	Description	Location No.	Specification
1	TR SMALL SIGNAL	Q603	MMST2907A
2	TR SMALL SIGNAL	Q201, Q401, Q602	2SC2412K
3	TR DIGITAL	Q901, Q902	DTA114EKA
4	TR DIGITAL	Q601	DTC114EKA
5	IC DRIVE	IC05, IC06	ULN2003AFW
6	C-CHIP	C103, C107, C109, C110, C112, C201, C202, C301, C402, C403, C501, C901	CS2012Y5V104Z500
7	C-CHIP	C203, C204, C401	CS2012Y5V104Z500
8	C-CHIP	C404	CS2012Y7V102K500
9	R-CHIP	R102, R103, R104	R3216 220kΩ ±5
10	R-CHIP	R402	R2012 6.8kΩ ±5
11	R-CHIP	R202, R203, R204, R205	R3216 100kΩ ±5
12	R-CHIP	R405, R407, R409	R2012 330kΩ ±5
13	R-CHIP	R101, R901, R603	R2012 4.7kΩ ±5
14	R-CHIP	R107, R106	R2012 220kΩ ±5
15	R-CHIP	R105, R604, R605	R2012 470kΩ ±5
16	R-CHIP	R206, R601, R602, R902	R2012 10kΩ ±5
17	R-CHIP	R404, R406	R2012 6.8kΩ ±1
18	DIODE DRIDGE	R201, R207, R208, R301, R401, R403, R408, R607	R2012 1kΩ ±5
19	R-CHIP	R410	R2012 0kΩ ±5
20	R-CHIP	R606	R2012 560kΩ ±5
21	DIODE DRIDGE	DB71	OF06S
22	PHOTO COUPLER	PC02	TLP180(GB-TPL)
23	ZENER DIODE	ZD12	BZX84-C11
24	ZENER DIODE	ZD11	BZX84-C3V6
25	EEPROM	IC51	93LC56B-I/SN

8-3 ASS'Y MAIN PCB;DB93-01018A

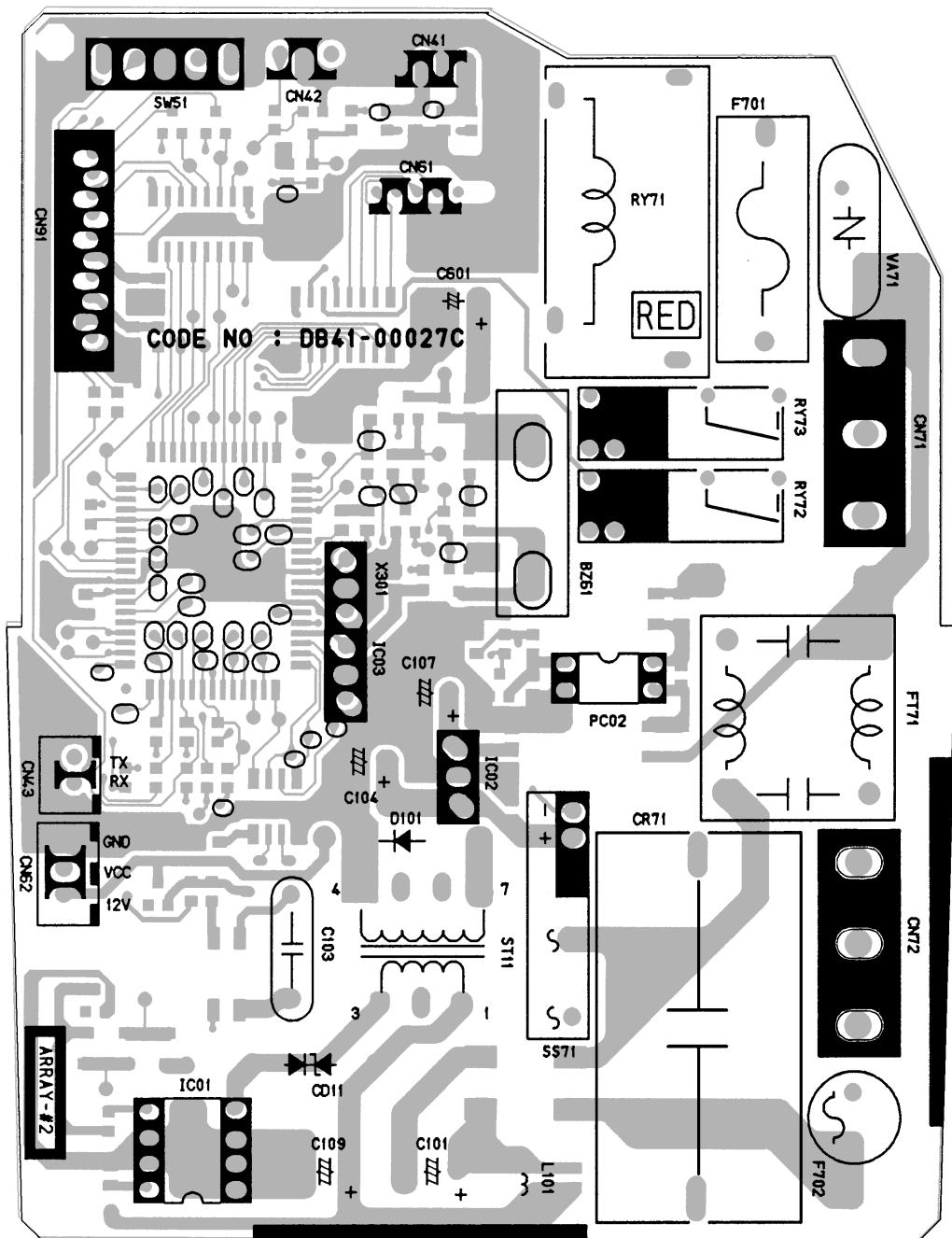
■ TOP PATTERN



■ Parts List

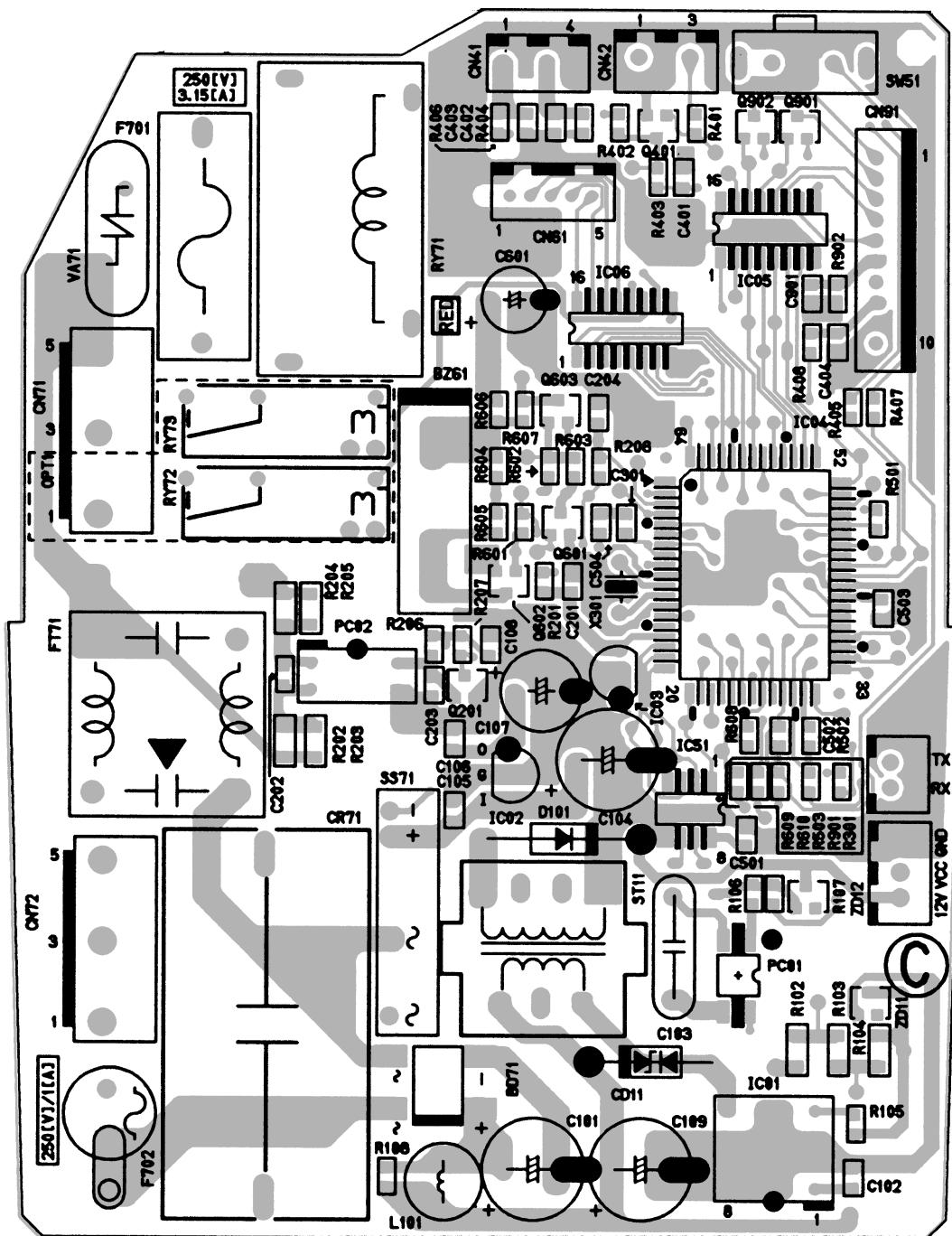
No	Description	Specification	Location No.
1	PCB-MAIN	120x93	
2	IC-MCU	KS88C4632	IC04
3	IC DRIVE	ULN2003AFW	IC05, IC06
4	EEPROM	93LC56B-I/SN	IC51
5	PHOTO COUPLER	TLP181	PC01
6	TR SMALL SIGNAL	MMST2907A	Q603
7	TR SMALL SIGNAL	2SC2412K	Q201, Q401, Q601, Q602
8	TR DIGITAL	DTA114EKA	Q901, Q902
9	DIODE BRIDGE	DF06S	BD71
10	ZENER	BZX84-C11	ZD12
11	ZENER	BZX84-C3V6	ZD11
12	SSR	G3MB202PL	SS71
13	TR SWITCH	TNY255P	IC01
14	IC VOLT REGULATOR	KA78L05	IC02
15	IC	KA7533Z	IC03
16	PHOTO COUPLER	PC814	PC02
17	FR-DIODE	UG2B	D101
18	T.V.S	ST02D-200	CD11
19	VARISTOR	INR14D561K-BS	VA71
20	RESONATOR CERAM IC	10MHZ	X301
21	SW TRANS	JT1916	ST11
22	FILTER NOISE	HP1-P10 / NFP-1010	FT71
23	COIL	5mH/50mA	L101
24	RELAY POWER	UKH-12S	RY71
25	BUZZER	CBE2220BA	BZ61
26	HOLDER FUSE	FB58	F701
27	FUSE	250V, 3.15A	F701
28	FUSE	250V, 1A	F702
29	CONNECTOR HEADER	YW396-05AV WHT	CN72
30	CONNECTOR HEADER	YW396-05AV BLU	CN71
31	CONNECTOR HEADER	SMW200-10 WHT	CN91
32	CONNECTOR HEADER	SMW200-5PWHT	CN61
33	CONNECTOR HEADER	SMW300-3P WHT	CN42
34	CONNECTOR HEADER	SMW200-4P WHT	CN41
35	C-FILM	1.2 μ F, 450V	CR71
36	C-AL	SD 1000 μ F, 25	C104
37	C-AL	47 μ F, 50V	C601
38	C-AL	470 μ F, 16V	C107
39	C-ELEC	SD 6.8 μ F/450V	C101, C109
40	C-CERAMIC	SDE 2G 222M	C103
41	C-CHIP	CS2012Y5V104Z500NR	C102, C105, C106, C108, C201, C202, C301, C402, C403, C501, C502, C503, C504, C901
42	C-CHIP	CS2012Y5V103Z500NR	C203, C204, C401
43	C-CHIP	CS2012X7R102K500NR	C404
44	R-CHIP	MCR18EZHJ224	R102, R103, R104
45	R-CHIP	MCR18EZHJ104	R202, R203, R204, R205
46	R-CHIP	MCR10EZHF6801	R404, R406
47	R-CHIP	MCR10EZHJ103	R206, R501, R502, R503, R602, R609, R610, R902
48	R-CHIP	MCR10EZHJ682	R402
49	R-CHIP	MCR10EZHJ472	R108, R603, R901
50	R-CHIP	MCR10EZHJ102	R201, R207, R208, R301, R401, R403, R408, R601, R607, R608
51	R-CHIP	MCR10EZHJ561	R606
52	R-CHIP	MCR10EZHJ471	R105, R604, R605
53	R-CHIP	MCR10EZHJ331	R405, R407
54	R-CHIP	MCR10EZHJ221	R106, R107
55	RELAY-MINIATURE	F3AA012E	RY72, RY73

■ BOTTOM PATTERN



8-4 ASS'Y MAIN PCB;DB93-01019B(AS14*A(B)TB)

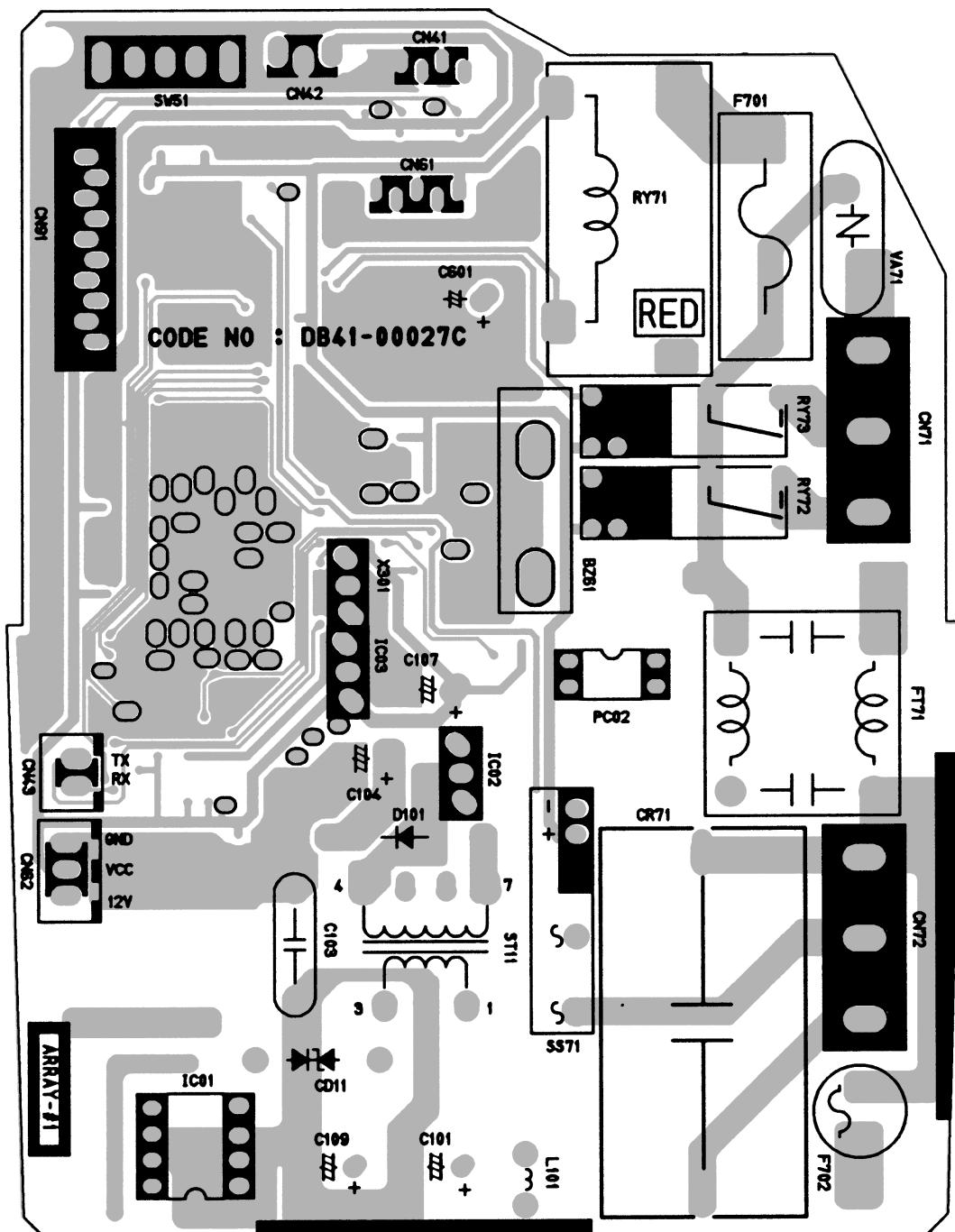
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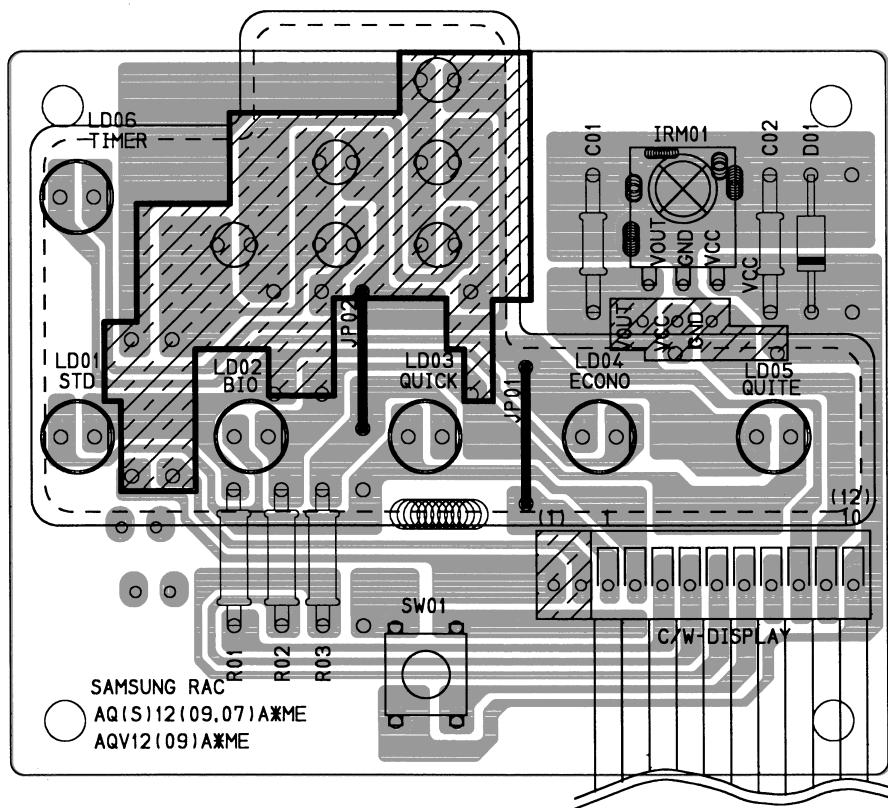
■ Parts List

No	Description	Specification	Location No.
3	PCB-MAIN	120x93	
4	IC-MCU	KS88C4632	IC04
5	IC DRIVE	ULN2003AFW	IC05, IC06
6	EEPROM	93LC56B-I/SN	IC51
7	PHOTO COUPLER	TLP181	PC01
8	TR SMALL SIGNAL	MMST2907A	Q603
9	TR SMALL SIGNAL	2SC2412K	Q201, Q401, Q601, Q602
10	TR DIGITAL	DTA114EKA	Q901, Q902
12	DIODE BRIDGE	DF06S	BD71
13	ZENER	BZX84-C11	ZD12
14	ZENER	BZX84-C3V6	ZD11
15	SSR	G3MB202PL	SS71
16	TR SWITCH	TNY255P	IC01
17	IC VOLT REGULATOR	KA78L05	IC02
18	IC	KA7533Z	IC03
19	PHOTO COUPLER	PC814	PC02
20	FR-DIODE	UG2B	D101
21	T.V.S	ST02D-200	CD11
22	VARISTOR	INR14D561K-BS	VA71
23	RESONATOR CERAM IC	10MHZ	X301
24	SW TRANS	JT1916	ST11
25	FILTER NOISE	HP1-P10-21	FT71
26	COIL	5mH/50mA	L101
29	RELAY POWER	UKH-12S	RY71
30	BUZZER	CBE2220BA	BZ61
31	HOLDER FUSE	FB58	F701
32	FUSE	250V, 3.15A	F701
33	FUSE	250V, 1A	F702
35	CONNECTOR HEADER	YW396-05AV WHT	CN72
37	CONNECTOR HEADER	YW396-03AV BLU	CN71
38	CONNECTOR HEADER	SMW200-10 WHT	CN91
39	CONNECTOR HEADER	SMW200-5PWHT	CN61
40	CONNECTOR HEADER	SMW300-3P WHT	CN42
41	CONNECTOR HEADER	SMW200-4P WHT	CN41
42	C-FILM	1.5 μ F, 450V	CR71
43	C-AL	SD 1000 μ F, 25	C104
44	C-AL	47 μ F, 50V	C601
45	C-AL	470 μ F, 16V	C107
46	C-ELEC	SD 6.8 μ F/450V	C101, C109
47	C-CERAMIC	SDE 2G 222M	C103
48	C-CHIP	CS2012Y5V104Z500NR	C102, C105, C106, C108, C201, C202, C301, C402, C403, C501, C502, C503, C504, C901
49	C-CHIP	CS2012Y5V103Z500NR	C203, C204, C401
50	C-CHIP	CS2012X7R102K500NR	C404
51	R-CHIP	MCR18EZHZ224	R102, R103, R104
52	R-CHIP	MCR18EZHZ104	R202, R203, R204, R205
53	R-CHIP	MCR10EZHF6801	R404, R406
54	R-CHIP	MCR10EZHZ103	R206, R501, R502, R503, R602, R609, R610, R902
55	R-CHIP	MCR10EZHZ682	R402
56	R-CHIP	MCR10EZHZ472	R108, R603, R901
57	R-CHIP	MCR10EZHZ102	R201, R207, R208, R301, R401, R403, R408, R601, R607, R608
58	R-CHIP	MCR10EZHZ561	R606
59	R-CHIP	MCR10EZHZ471	R105, R604, R605
60	R-CHIP	MCR10EZHZ331	R405, R407
61	R-CHIP	MCR10EZHZ221	R106, R107

■ BOTTOM PATTERN



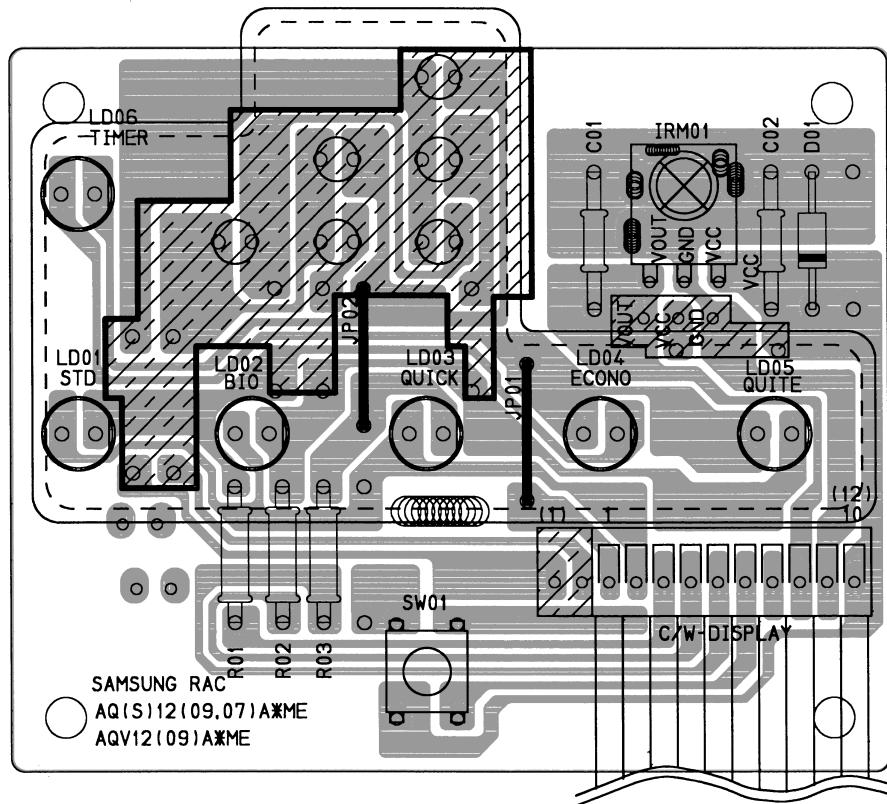
8-5 ASS'Y DISPLAY PCB;DB93-00268A



■ Parts List

No	Description	Specification	Q'TY	Remark
1	PCB-DISPLAY	FR-1 T1.6	1	
2	LED-LAMP	SY5511(YEL)	1	
3	LED-LAMP	S05511(ORG)	5	
4	MODULE REMOCON	KSM-713TH5	1	
5	C-CERAMIC	CA 0A 50V 102K	1	
6	C-CERAMIC	CA 0A 50V 104Z	1	
7	R-CARBON	470 1/2W 5%	3	
8	DIODE SWITCHING	1N4148	1	
9	JUMP-WIRE	10mm	2	
10	TACT SWITCH	KPT-1105A	1	
11	COVER DISPLAY UP	ABS	1	
12	C/W DIS & MODULE	UL1007 AWG#26/10	1	
13	JUMP-WIRE	7.5mm	1	
14	LED-LAMP	SR3511(RED)	0	
15	JUMP-WIRE	7.5mm	0	
16	JUMP-WIRE	10mm	0	

8-6 ASS'Y DISPLAY PCB;DB93-00268E

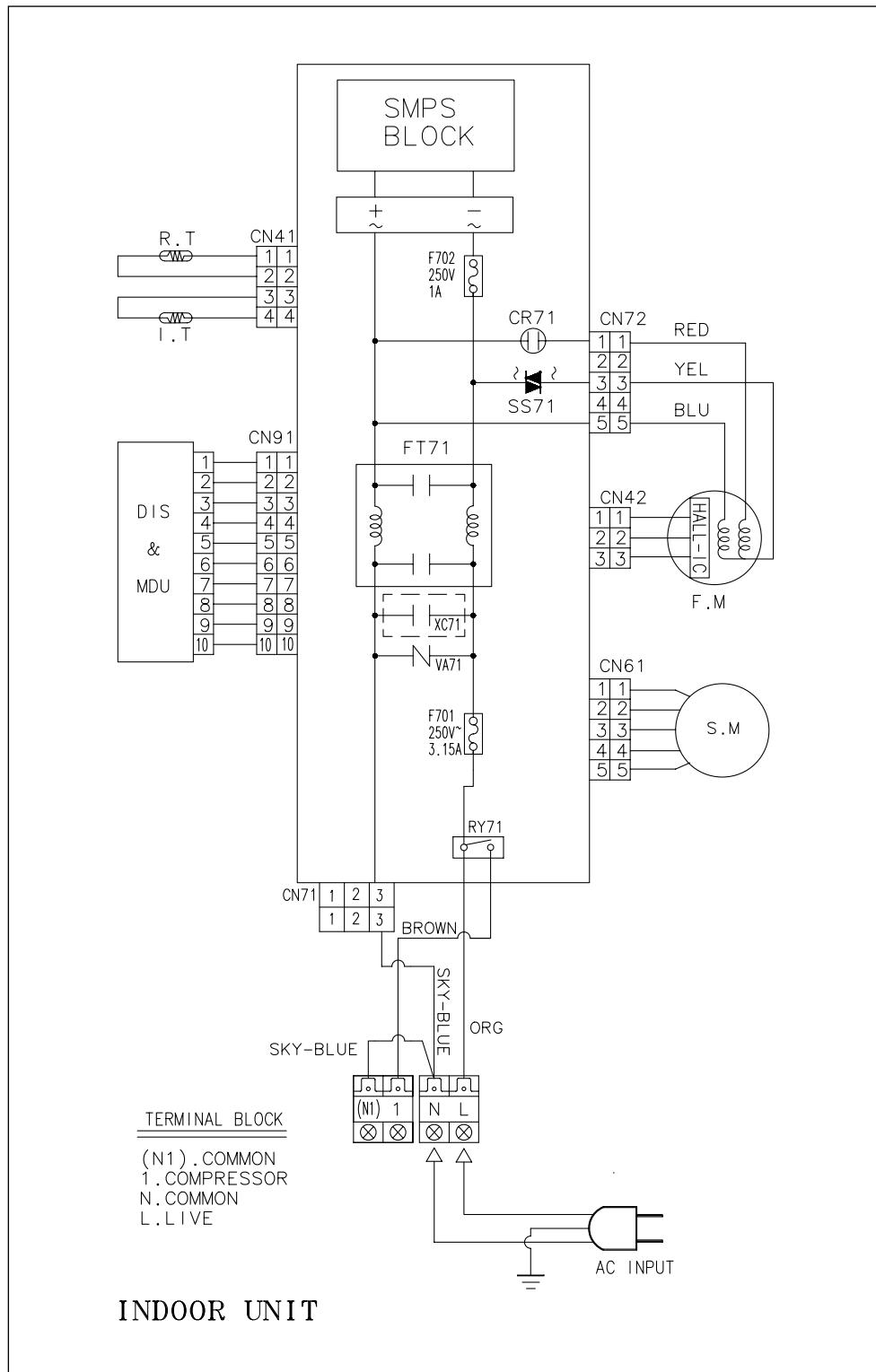


■ Parts List

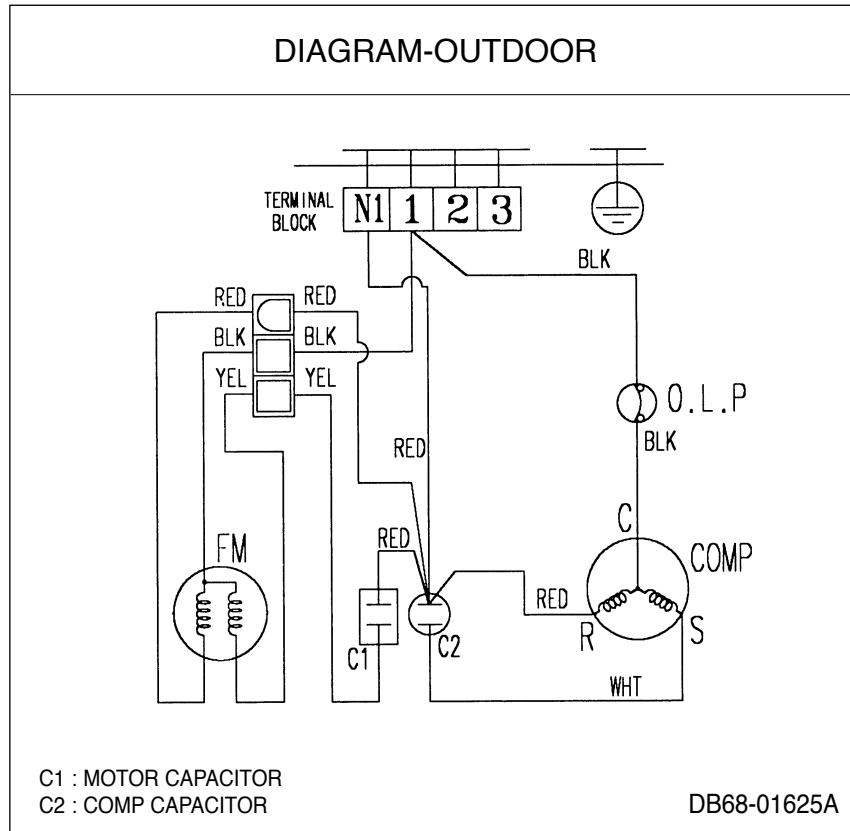
No	Description	Specification	Q'TY	Remark
1	PCB-DISPLAY	FR-1 T1.6	1	
2	LED-LAMP	SY5511(YEL)	1	
3	LED-LAMP	SO05511(ORG)	5	
4	MODULE REMOCON	PNA4612MOOHB	1	
5	C-CERAMIC	CA 0A 50V 102K	1	
6	C-CERAMIC	CA 0A 50V 104K	1	
7	R-CARBON	470 1/2W 5%	3	
8	DIODE SWITCHING	1N4148	1	
9	JUMP-WIRE	10mm	2	
10	TACT SWITCH	KPT-1105A	1	
11	COVER DISPLAY YP	ABS	1	
12	C/W DIS & MODULE	UL1007 AWG#26/10	1	
13	JUMP-WIRE	7.5	-	
14	LED-LAMP	SR3511(RED)	-	
15	JUMP-WIRE	7.5mm	-	
16	JUMP-WIRE	10mm	-	

9. Wiring Diagrams

9-1 Indoor Unit



9-2 Outdoor Unit

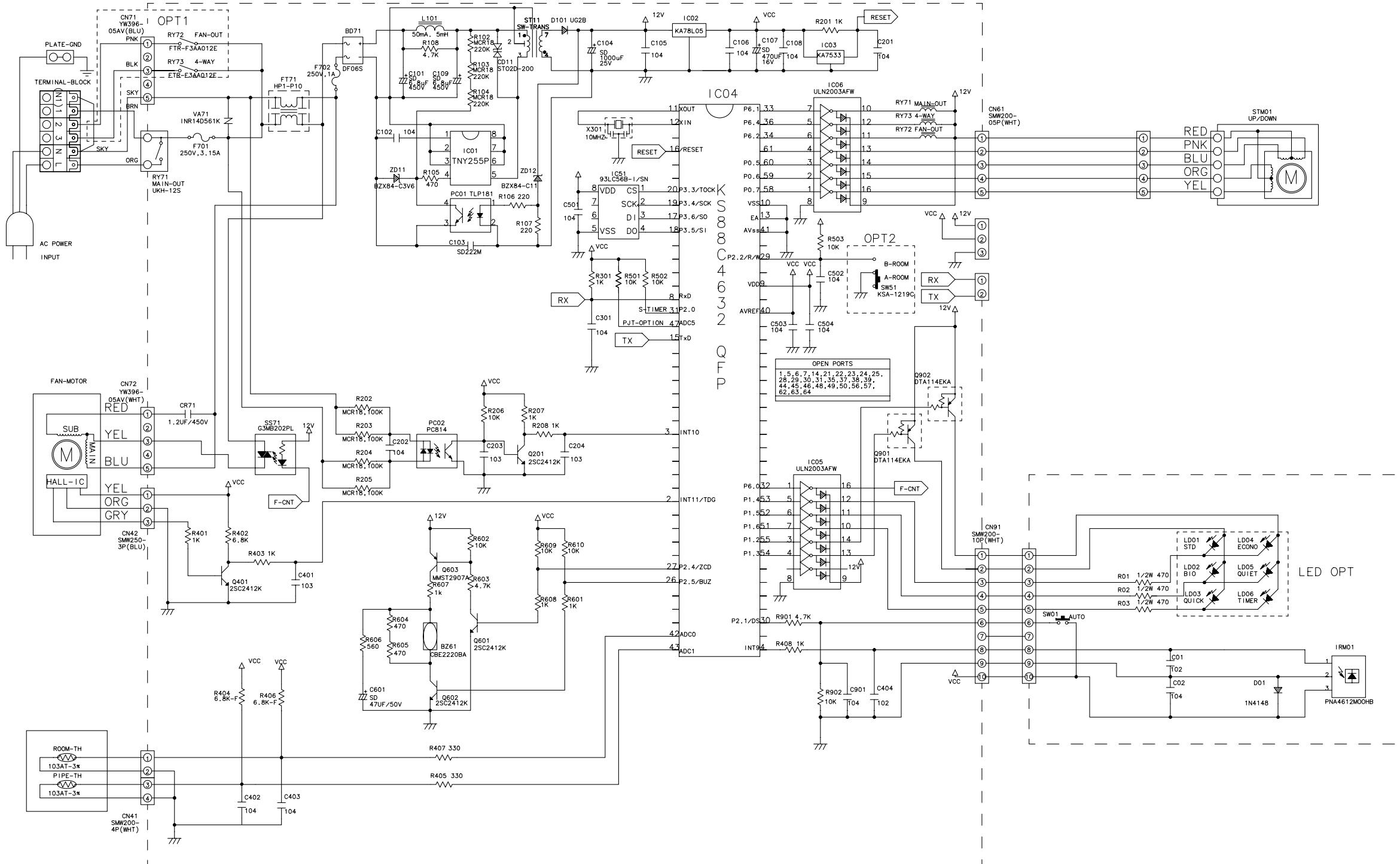


MEMO

10. Schematic Diagrams

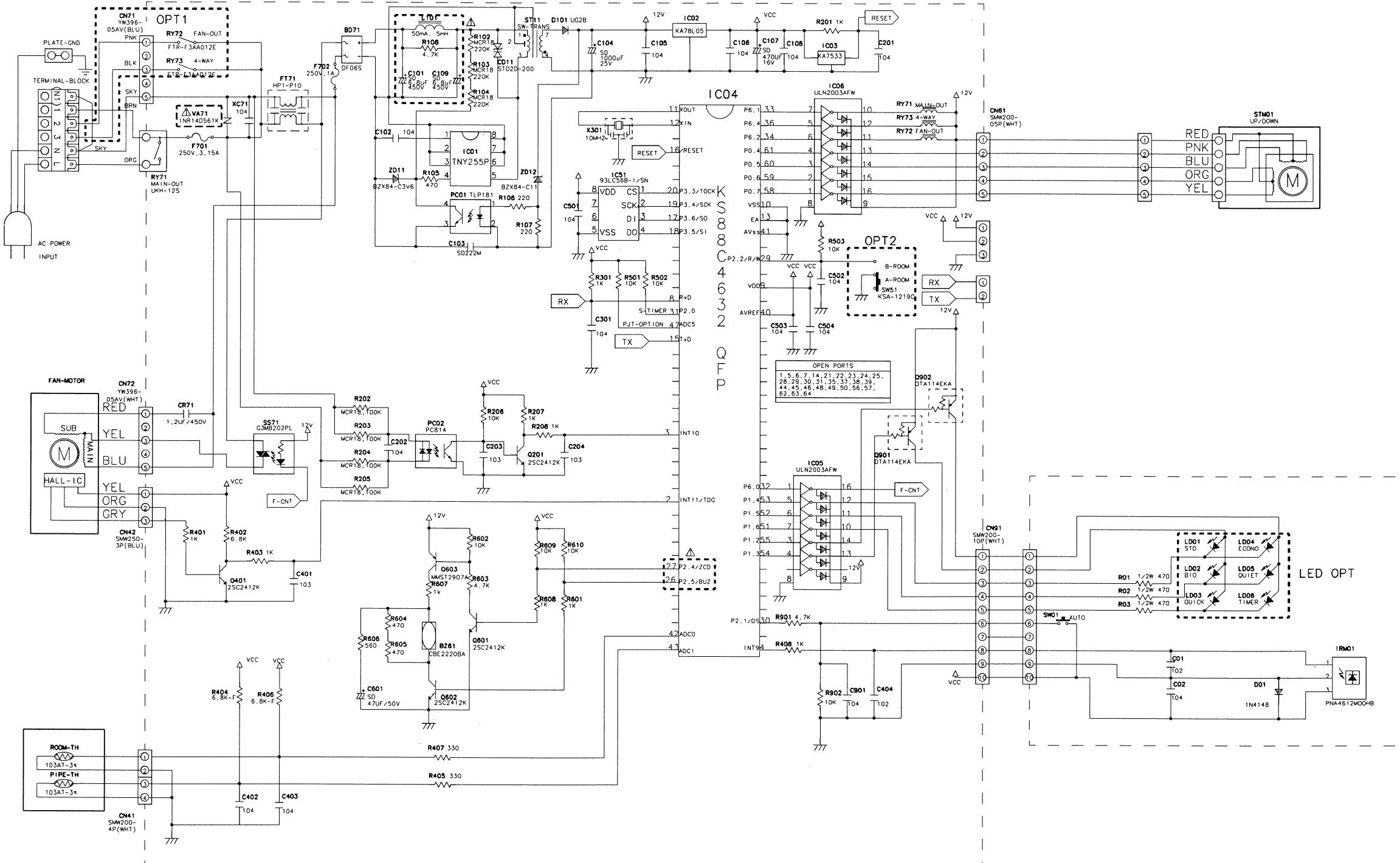
10-1 Indoor Unit

- AS*****MED/MBD/MDD
SC*****D



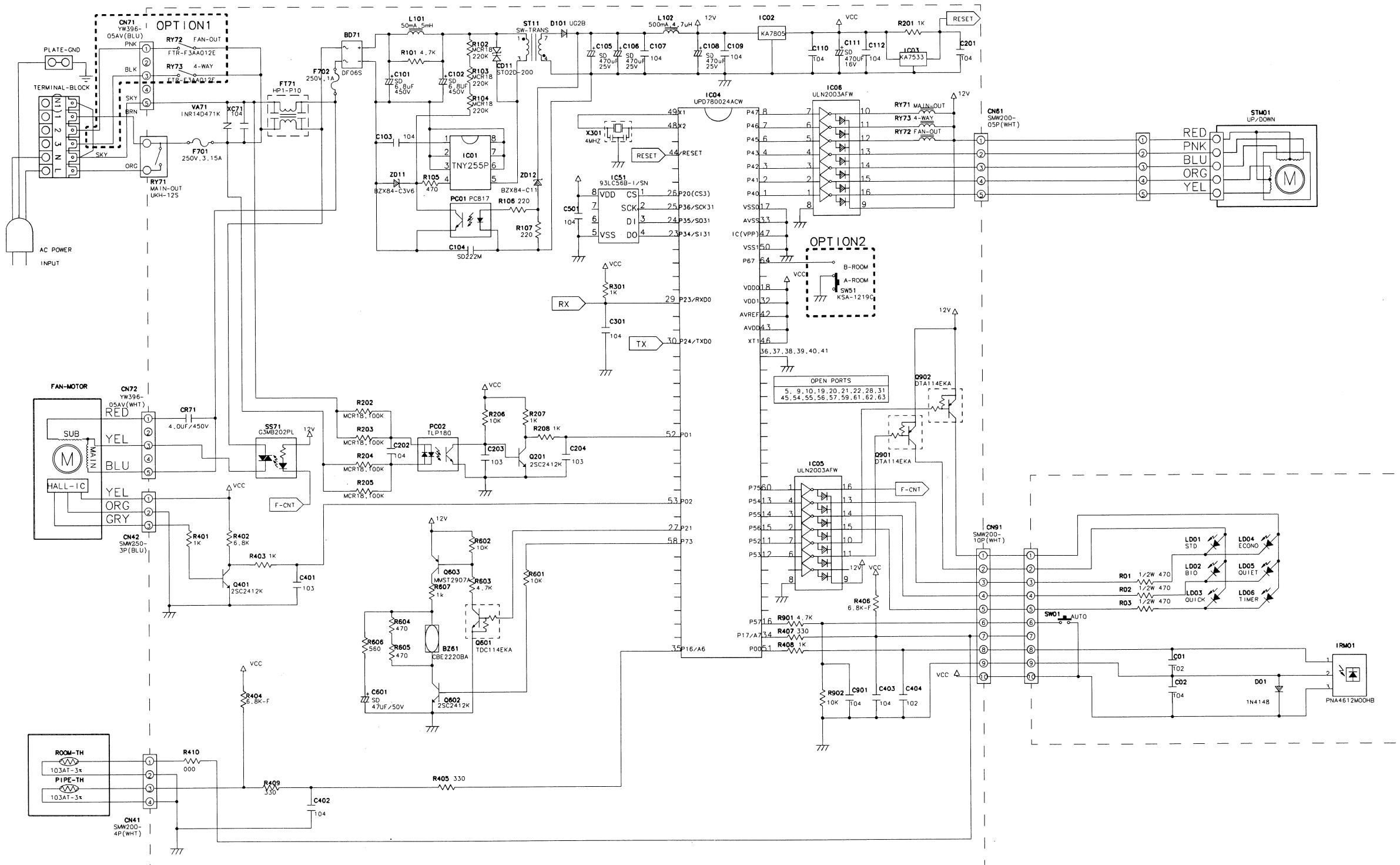
10-2 Indoor Unit

- AS*****ME/D/B
SC*****



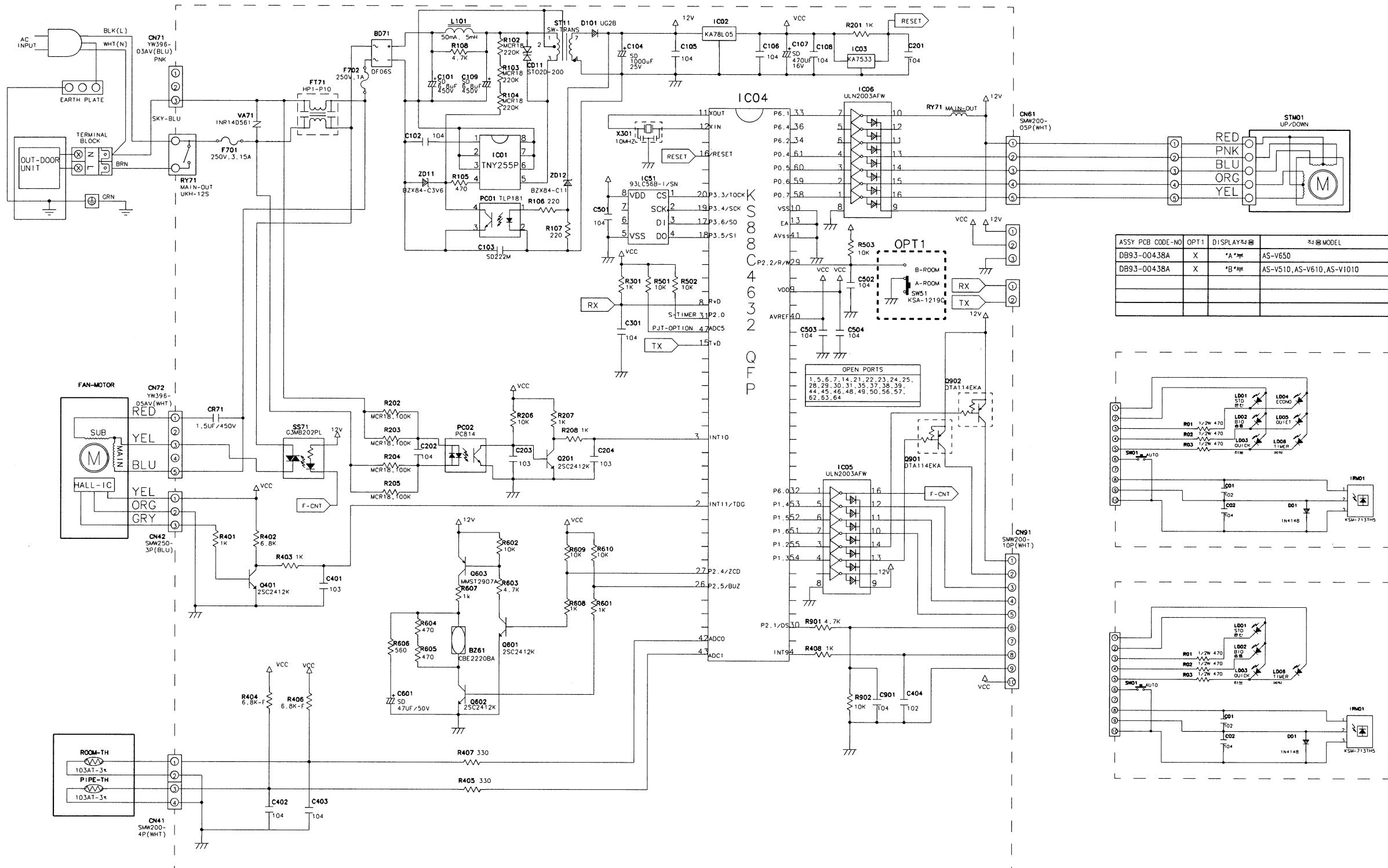
10-3 Indoor Unit

- ## • AS*****MA



10-4 Indoor Unit

- AS14*A(B)TB



MEMO

UPDATE LOG SHEET

Use this page to keep any special servicing information. (Service Bulletin, etc.)

If only parts number changes, Just change parts number directly on parts list.

And if you need more information, please see the service website.

Itself Solution Integrated technology supporting electronic library
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