

SAMSUNG

SPLIT-TYPE AIR CONDITIONER

INDOOR UNIT

OUTDOOR UNIT

Basic : AQ36WBN

UH105CAV

Model : AQV36JAKCV

Model Code : AQV36JANKCV AQV36JAXKCV

SERVICE Manual

AMG
Air Marketing Group LLC

AIR CONDITIONER



AQV36JAN



AQV36JAX

THE FEATURE OF PRODUCT

- **Energy Saving Function**
- **Multi Functional Cleaning System**
: The Bio-pure filter and activated deodorizing filter are adopted.
- **Human Touch Remote control**

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

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1. Precautions

1-1 Installing the air conditioner

- Users should not install the air conditioner by themselves.
Ask the dealer or authorized company to install the air conditioner except the window-type air conditioner in U.S.A and Canada.
- If you don't install the air conditioner properly, it may cause a fire, a water leakage or an electric shock.
- You must install the air conditioner according to the national wiring regulations and safety regulations.
- Install the indoor unit higher than 8.2ft(2.5m) from the floor to avoid the injury caused by the operation of the fan.
(except the window-type air conditioner)
- The manufacturer is not responsible for any accidents or injury caused by an incorrect installation.
- When installing the built-in type air conditioner, keep all electric cables such as the power cable and the connection cord in pipes, ducts, or cable channels to protect them from the danger of impact or any other incidents.

1-2 Power supply and circuit breaker

- If the power cord of the air conditioner is damaged, it must be replaced by the manufacturer or a qualified person in order to avoid a hazard.
- The air conditioner must be plugged into an independent circuit if applicable or connect the power cable to the auxiliary circuit breaker.
An all pole disconnection from the power supply must be incorporated in the fixed wiring with a contact opening of >0.12inch(3mm).
- Do not extend an electric cord to the air conditioner.
- The air conditioner must be plugged in after you complete the installation.



1-3 During operation

- Do not repair the air conditioner at your discretion.
It is recommended to contact a service center directly.
- Never spill any kind of liquid on the air conditioner.
If this happens, turn off the air conditioner and contact an authorized service center.
- Do not insert anything between the airflow blades to prevent damage of the inner fan and consequent injury.
Keep children away from the air conditioner.
- Do not place any obstacles in front of the air conditioner.
- Do not spray any kind of liquid into the indoor unit. If this happens, turn off the air conditioner and contact a service center.
- Make sure that the air conditioner is well ventilated at all times:
Do not place a cloth or other materials over it.
- Remove the batteries if you don't use the remote control for a long time. (If applicable)
- Use the remote control within 23ft(7m) from the indoor unit. (If applicable)

1-4 Disposing of the unit

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

1-5 Others

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



2. Product Specifications

2-1 The Feature of Product

■ **Energy saving function**

Makes a room cool with energy saving and arises the efficiency of air conditioner.

■ **Multi functional cleaning system**

With a Bio-pure filter and activated deodorizing filter, it removes minute dust particles as well as tobacco odor.

■ **Human touch remote control**

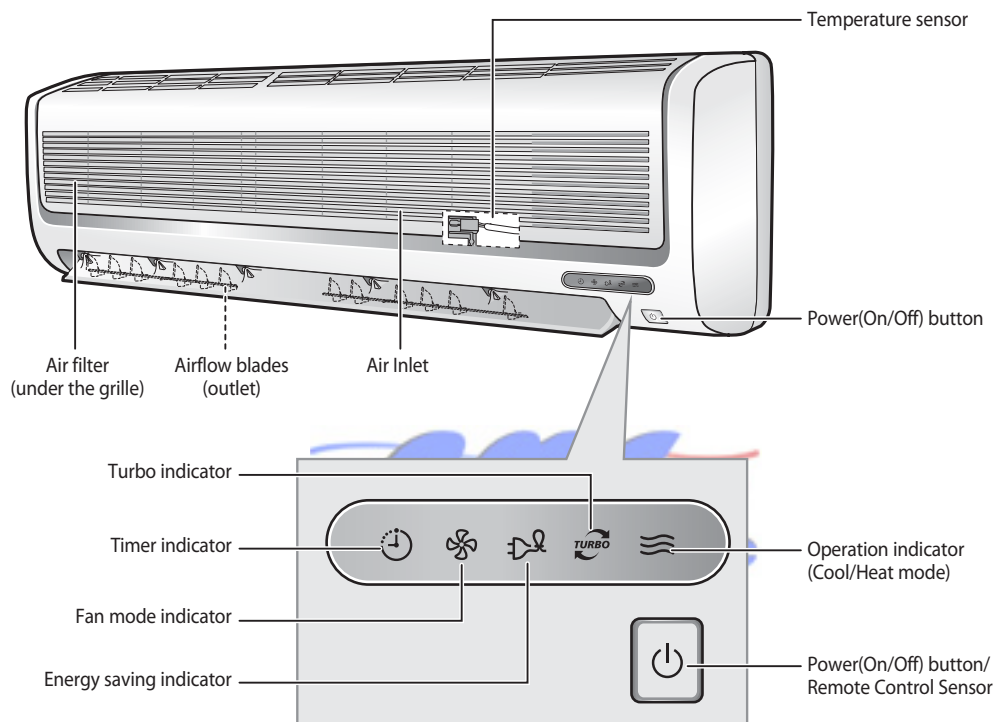
The use of air conditioner is easier and more convenient by the human touch remote control of new design.



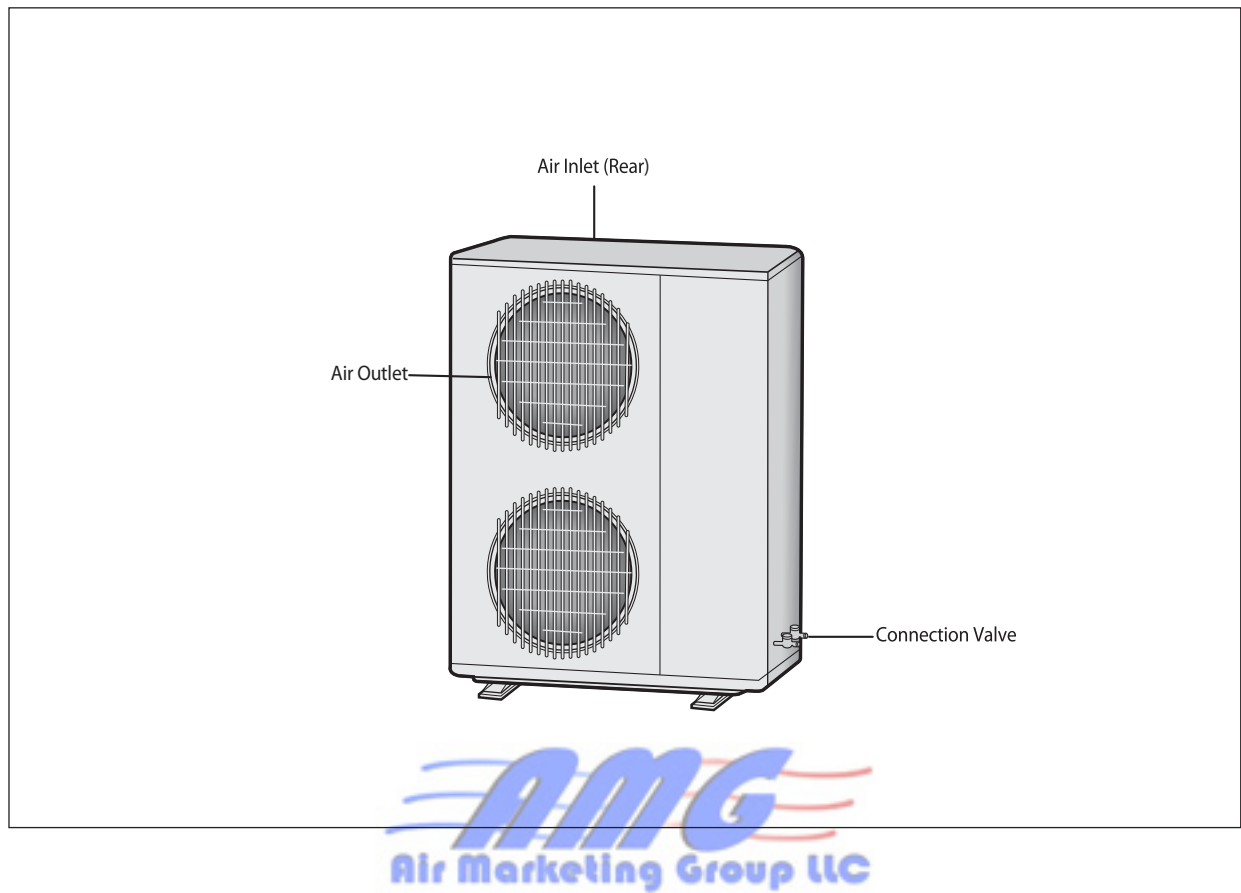
2-2 Name of Each Part

2-2-1 Indoor Unit

The design and shape can be changed according to the model.



2-2-2 Outdoor Unit



2-3 Product Specifications

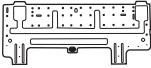
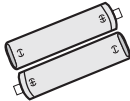
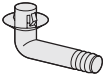
Item				Model		AQV36JA		
						Indoor Unit	Outdoor Unit	
Type				Wall-mounted				
Performance	Capacity	Cooling	Btu/hr (Low / Std / Max)	9,000 / 33,000 / 38,000				
		Heating		9,000 / 34,000 / 45,000				
	Running Frequency	Cooling	Hz (Low / Std / Max)	15 / 55 / 63				
		Heating		15 / 50 / 69				
	Dehumidifying			Pints/hr	7.6			
	Air Volume	Cooling	m³/min (H/M/L)	10.1/8.8/7.6	29			
		Heating		10.5/9.1/7.6	28			
	Noise	Cooling	dB	56	66			
		Heating		56	66			
	SEER	Cooling	(Std)	18.0				
HSPF	Heating	9.0						
Power			ph-V-Hz	1-208/230-60				
Power	Power Consumption	Cooling	W (Low / Std / Max)	680 / 3,000 / 3,500				
		Heating		620 / 3,200 / 4,500				
	Operating Current	Cooling	A (Low / Std / Max)	3.3 / 13.0 / 15.5				
		Heating		3.0 / 14.5 / 21.0				
	Power Factor	Cooling	%	80 / 90 / 90				
		Heating		80 / 90 / 90				
	Breaker Size			A	10			
	MCA			20				
MOP			30					
Size	Outer Dimension	Width x Height x Depth	inch	50.4 X 9.0 X 13.6		34.6 X 37.4 X 12.6		
			mm	1,279 X 229 X 345		880 X 950 X 320		
	Weight (Net)		lb	44.1		198.5		
			kg	20.0		90		
	Drain Hose		D(inch) x L(ft)	Φ0.7 x 2.6				
			D(mm) x L(mm)	Φ18 x 780				
Compressor	Type			Rotary, G8T360FUA EK				
	Motor	Type	Hermetic					
		Rated Output	W	853W				
	Oil Type			FREOLa68ES-T				
RLA			A	14.0				
Blower	Type			Cross-flow	Propeller			
	Motor	Type	Resin / Steel, DC		Resin / Steel, DC			
		Rated Output	W	27		25		
		FLA	0.25A 75W		2.0A 150W			
Piping	Maximum Spec.	Length	ft (m)	49.2 (15)				
		Height	ft (m)	26.2 (8)				
	Refrigerant Pipe	Liquid	OD(inch) x L(ft)	Φ1/4 x 24.6				
			OD(mm) x L(m)	Φ6.35 x 7.5				
		Gas	OD(inch) x L(ft)	Φ5/8 x 24.6				
			OD(mm) x L(m)	Φ15.88 x 7.5				
Heat Exchanger				2 Row 18 Step	2 Row 52 Step			
Refrigerant Control Unit				EEV				
Freezer Oil Capacity			gal	0.35				
			cc	1,331				
Refrigerant to be Charged (R410A)			oz	88.1				
			g	2500				
Refrigerant to be Added (R410A)			oz/ft	Chargeless				
			g/m	Chargeless				
Protection Device (OLP)				None				
Cooling Test Condition				Outdoor Unit : DB95°F WB75°F Outdoor Unit : DB35°C WB23.9°C				
Heating Test Condition				Outdoor Unit : DB47°F WB43°F Outdoor Unit : DB8.3°C WB6.1°C				
Operation conditon range		cooling	indoor	61°F to 90°F approx. 16°C to 32°C approx.				
			Outdoor	14°F to 115°F approx. -10°C to 46°C approx.				
		heating	indoor	80°F or less 27°C or less				
			Outdoor	5°F to 75°F approx. -15°C to 24°C approx.				

2-4 The Comparative Specifications of Product

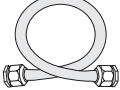
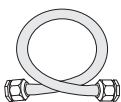
Item		Development Model	Comparative Model
		AQV36JA	AQ36WB
Design	Indoor Unit		
			
Net Weight	Indoor Unit	44.1lb(20.0kg)	44.1lb(20Kg)
	Outdoor Unit	198.5lb(90Kg)	176.4lb(80Kg)
Outer Dimension	Indoor Unit	50.4 X 9.0 X 13.6 (inch) 1279 X 229 X 345 (mm)	50.4 X 9.0 X 13.6 (inch) 1279 X 229 X 345 (mm)
	Outdoor Unit	34.6 X 37.4 X 12.6 (inch) 880 X 950 X 320 (mm)	34.6 X 37.4 X 12.6 (inch) 880 X 950 X 320 (mm)
Noise	Indoor Unit	56dB↓	53dB↓
	Outdoor Unit	66dB↓	64dB↓
Air Purifying System		Silver Nano Bio-Pure Filter Deodorizing Filter	Silver Nano Bio-Pure Filter Deodorizing Filter

2-5 Accessory and Option Specifications

2-5-1 Accessories

Item	Descriptions	Code-No.	Q'TY	Remark
	Plate Hanger	DB70-00787A	1	Indoor Unit
	Remote Control	DB93-03012N	1	
	Batteries for Remote Control	DB47-90024A	2	
	User's Manual	DB98-29386A	1	
	Installation Manual	DB98-29387A	1	
	3-wire Power Cable	-	1	Outdoor Unit
	2-wire Assembly Cable	-	1	
	5-wire Assembly Cable	-	1	
	Drain Plug	DB67-00477A	1	

Accessories(cont.)

Item	Descriptions	Code-No.	Q'TY	Remark
	Assembly Pipe, Ø1/4 inch (Ø6.35mm)	DB96-04578P	1	Accessory Box
	Assembly Pipe, Ø5/8 inch (Ø15.88mm)	DB96-04578B	1	
	KWS3,000 Tube Insulation	DB62-05038C	1	
	Vinyl Tape, Width 1.97 inch (50mm)	DB72-00459A	1	
	M4x16 Tapping Screws 	6002-000215	6	
	Drain Hose, length 18.7 inch (2m)	DB67-00461A	1	
	Putty 100g	DB98-10568A	1	

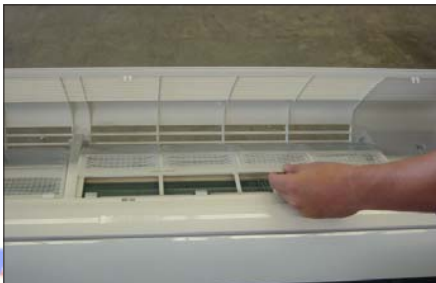
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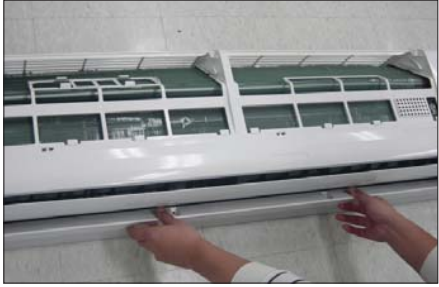
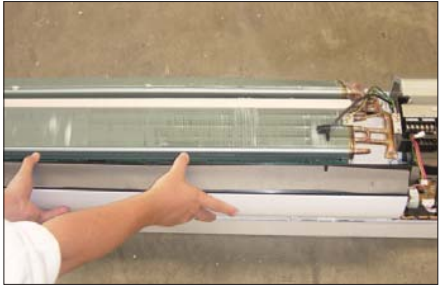
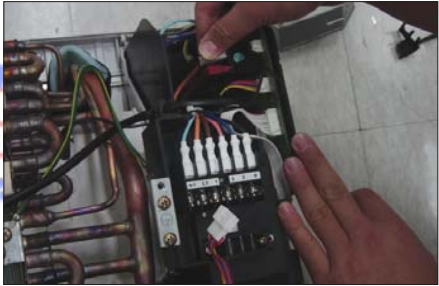


3. Disassembly and Reassembly

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 Grille	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. 5) Loosen 1 of the right fixing screw and separate the Terminal Cover. * Take the Deodorizing and Electrostatic filter out.(Optional) 6) Detach the connected wire of Ass'y Display. 7) Loosen 4 screws of Front Grille. 8) Pull the upper 4 parts of discharge softly for the outside cover to be pulled out.	    

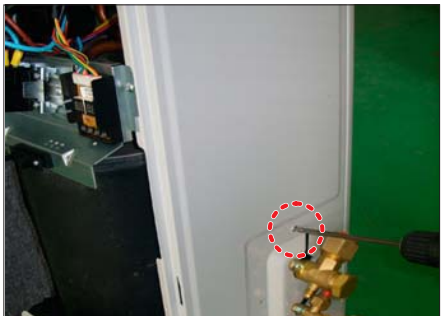
No	Parts	Procedure	Remark
		9) Pull softly the lower part of discharge and push it up. ! Fix the hook of 4 parts and assembly the Front Panel.	
2	Tray Drain	1) Pull Tray Drain out from the Back Body.	
3	Electrical Parts (Main PCB)	1) Take all the connector of PCB upper side out. (Inclusion Earth Wire) 2) Separate the outdoor unit connection wire from the Terminal Block. 3) If pulling the Main PCB up, it will be taken out.	
4	Heat Exchanger	1) Loosen 1 fixing screw of right side. 2) Separate the Holder-Back Body at the upper side and Holder at the rear side. 3) Loosen the 1 fixing screw of left side. 4) Lifting the Heat Exchanger up a little to push the up side for separation from the indoor unit.	 

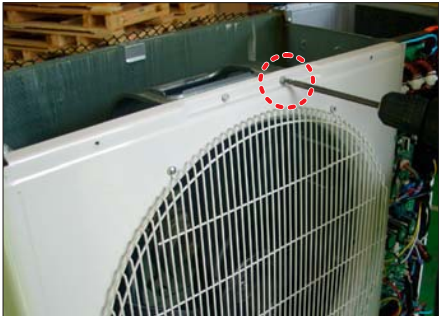
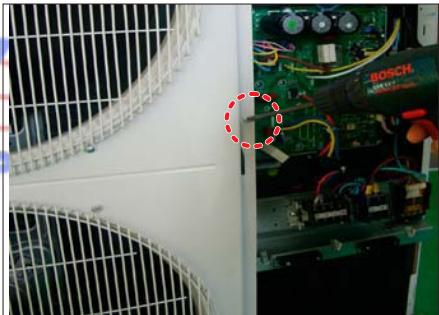
No	Parts	Procedure	Remark
5	Fan Motor & Cross Fan	1) Loosen the fixing 5 screws and separate the Holder Motor. 2) Loosen the fixing screw of Fan Motor. 3) Separate the Fan Motor from the Right Fan. 4) Loosen the fixing screw of the Left Fan. 5) Separate the both Fan from the Back Body.	  

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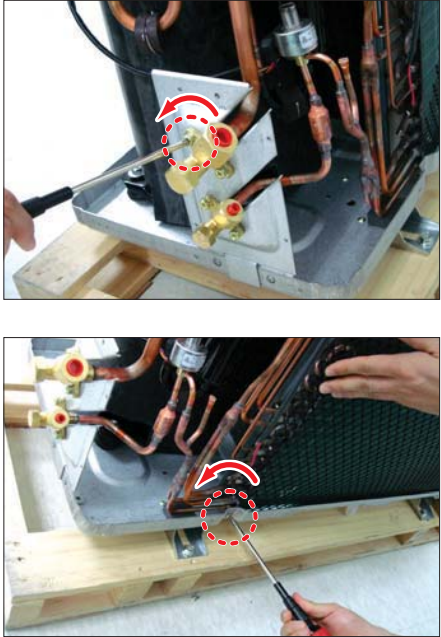


3-2 Outdoor Unit

No	Parts	Procedure	Remark
1	Common Work	1' Loosen 2 fixing screws of the Cabi Front Rh and detach the Cabi Front Rh. 2' Loosen each 8 fixing screws and detach the Cabi Top Cover. 3' Loosen 2 screws fixed to assemble Control Box with Cabi Back Rh. 4' Loosen fixing screws and detach the Cabi Back Rh.	   

No	Parts	Procedure	Remark
		5' Loosen 2 screws fixed on the Cabi Back Lf. 6' Loosen fixing screws of the Cabi Front Lf.	  

No	Parts	Procedure	Remark
2	Fan & Motor	1' Detach the Nut Flange like the picture on the right side.(Turn clockwise because the screw is left-handed) (Use Monkey Spanner) 2' Detach the Fan Propeller. 3' Loosen 4 fixing screws to detach the Motor.(Use Monkey Spanner) 4' Disconnect the wire between Ass'y Control Out and Motor. 5' Loosen 2 fixing bolts and detach the Bracket Motor.(Use Monkey Spanner)	   

No	Parts	Procedure	Remark
3	Ass'y Control Out	1' Detach several connectors from the Ass'y Control Out. 2' Detach several connectors from the PCB of Ass'y Control Out. 3' Pull up the Ass'y Control Out.	
4	Heat Exchanger	1' Release the refrigerant at first. 2' Loosen fixing screw on both sides. 3' Disassemble the pipes in both inlet and outlet with welding torch. 4' Detach the Heat Exchanger.	

No	Parts	Procedure	Remark
5	Compressor	1' Loosen the fixing nut and detach the Compressor Lead Wire. (Use Monkey Spanner) 2' Disassemble the Felt Comp Sound. 3' Loosen the 3 bolts at the bottom of Compressor like the picture on the right side.(Use Monkey Spanner)	  

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4. Display error mode and Check method

4-1 Indoor error mode

Error Mode	LED LAMP				
					
Indoor unit room temperature sensor error (open or short)	●	●	●	●	●
Indoor unit heat exchanger temperature sensor error (open or short)	●	●	●	●	●
Indoor fan motor malfunction	●	●	●	●	●
EEPROM error	●	●	●	●	●
Option error (option wasn't set up or option data error)	●	●	●	●	●
Indoor<->outdoor communication error	●	●	●	●	●
Outdoor unit error	●	●	●	●	●

○ : Lamp ON, ● : 0.5 sec Lamp ON/OFF, ● : Lamp OFF



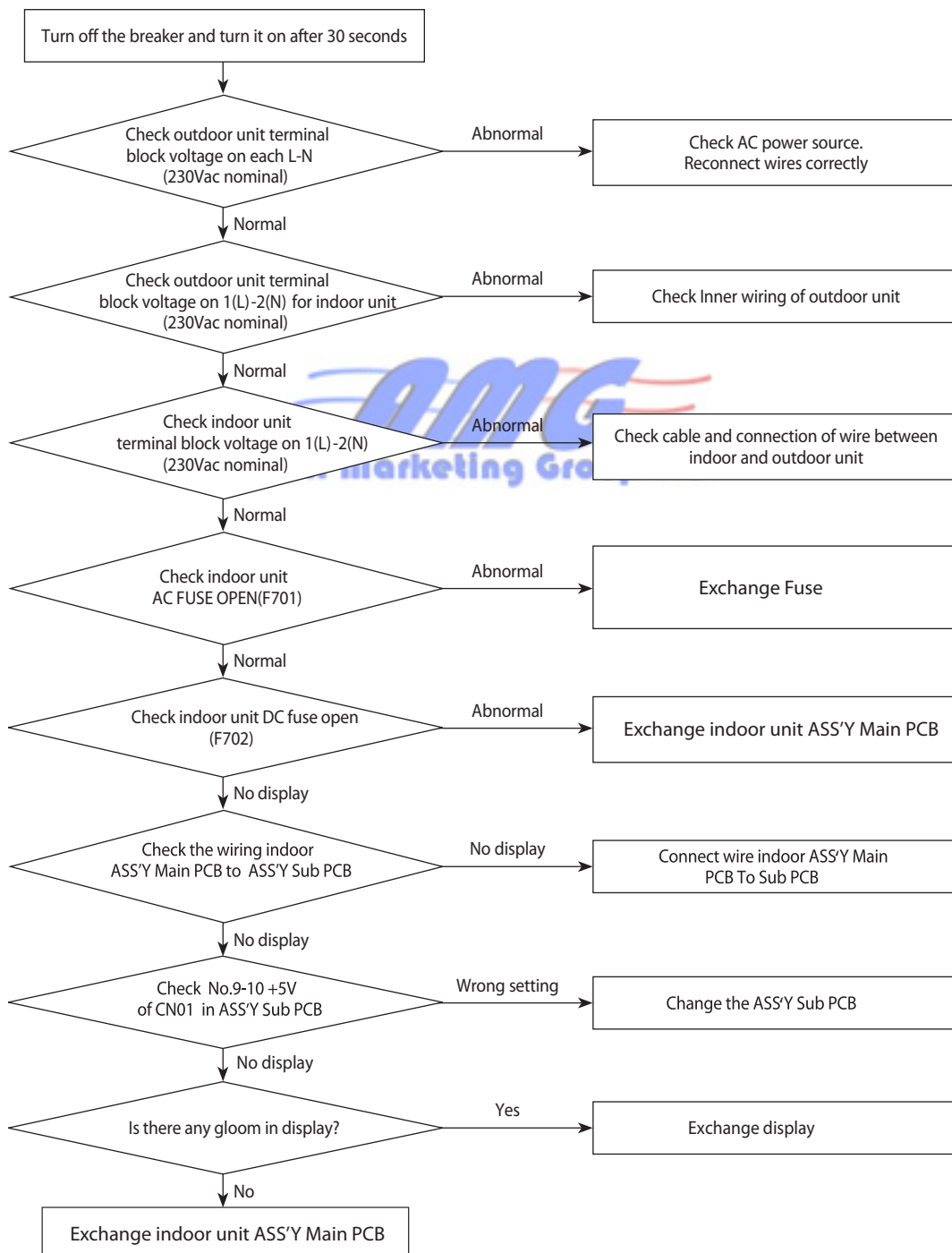
4-2 Outdoor error mode

Display	Explanation	Remark
E101/E102	Indoor-OutdoorCommunication(1minute Time Out Error/60 Packet Over time data)	
E201/E202/E203	Indoor-Outdoor Communication(1minute Time Out Error/60 Packet Over time data)	
E221	Outdoor Temp. Sensor Error (Open/Short Error)	
E237	Cond Temp. Sensor Error (Open/Short Error)	
E251	Discharge Temp. Sensor Error (Open/Short Error)	
E416	Discharge Over Temperature	
E440	Operation Condition Secession (Out Temp. Over 30°C at Heating)	
E441	Operation Condition Secession (Out Temp. Under -5°C at Cooling)	
E458	Fan 1 Error	
E460	Comunication Voltage Error	
E461	Comp Starting Error	
E462	I_Trip Error / PFC Over Current	
E464	IPM Over Current(O.C)	
E465	Comp Vlimit Error	
E466	DC-Link Voltage under/over Error	
E467	Comp Rotation Error	
E468	Current Sensor Error	
E469	DC-Link Voltage Sensor Error	
E471	OTP Error	
E472	AC Line Zero Cross Signal out	
E474	Heat Sink Sensor Error	
E475	Fan 2 Error	
E554	GAS Leak Error	
E556	Capacity Miss Match	

4-3 Fault Diagnosis by Symptom

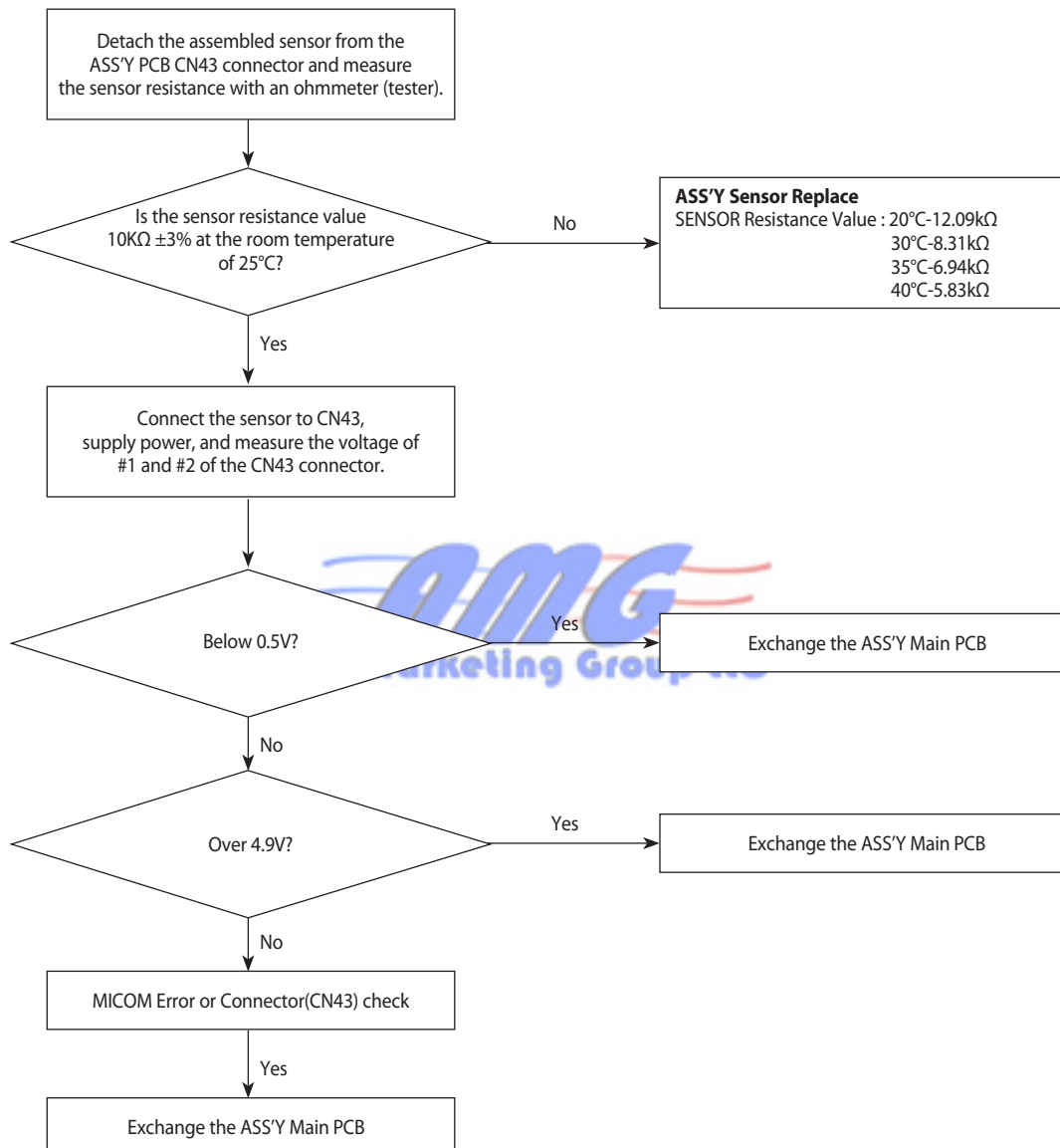
4-3-1 Indoor Power Unit Error

1. Checklist:
 - 1' Is Power source voltage normal?
 - 2' Is AC power linked correctly?(miss-wiring, wire detaching etc.)
 - 3' Is any LED on the display PCB of indoor unit lit?
 - 4' Is terminal voltage for indoor unit normal?(230Vac nominal)
2. Troubleshooting procedure



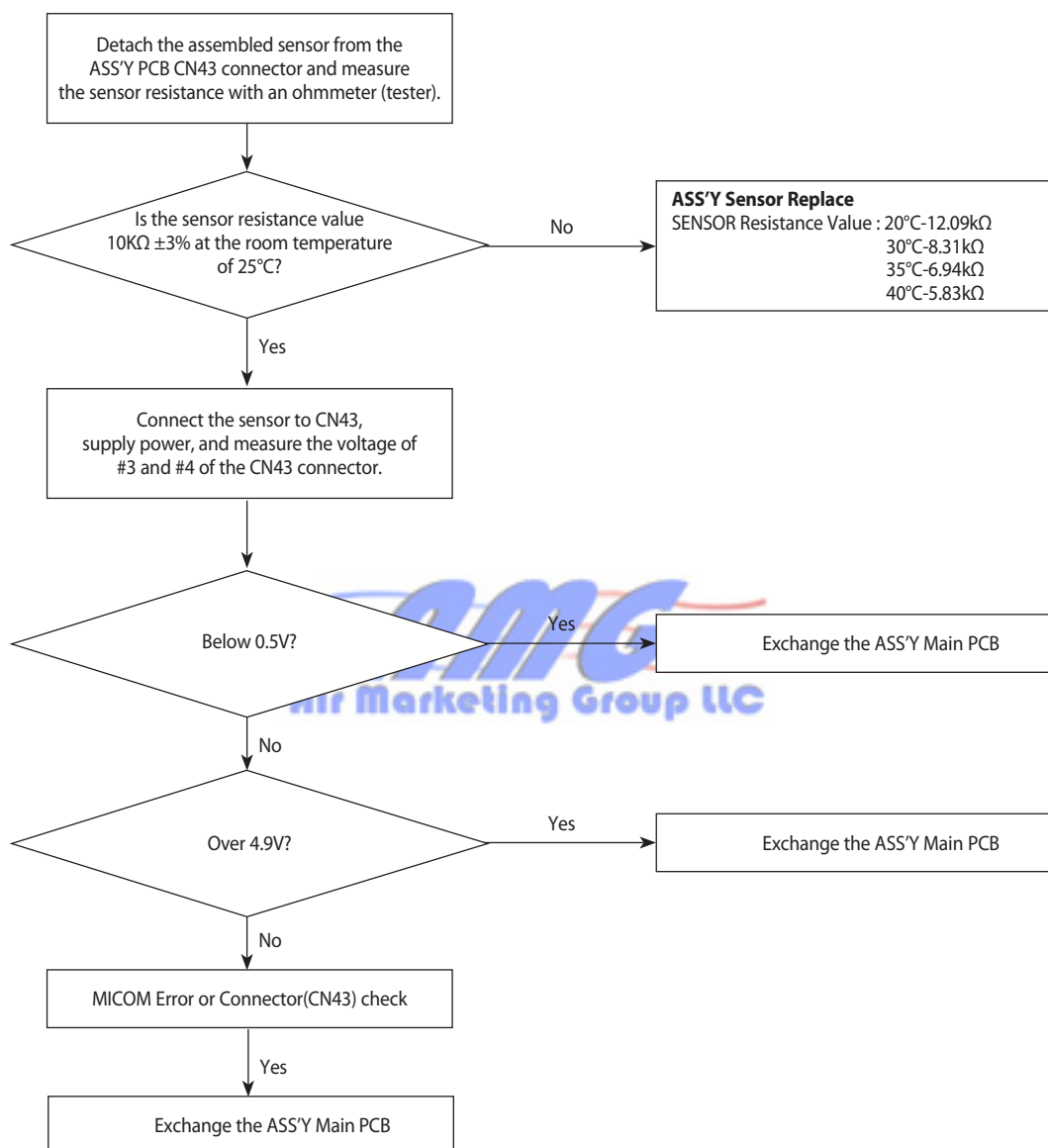
4-3-2 Indoor Temperature Sensor Error

1. Checklist :
 - 1' Is the indoor units temperature sensor connected correctly?
2. Troubleshooting procedure



4-3-3 Indoor Heat Exchanger Temperature Sensor Error

1. Checklist :
 - 1' Is the indoor units temperature sensor connected correctly?
2. Troubleshooting procedure

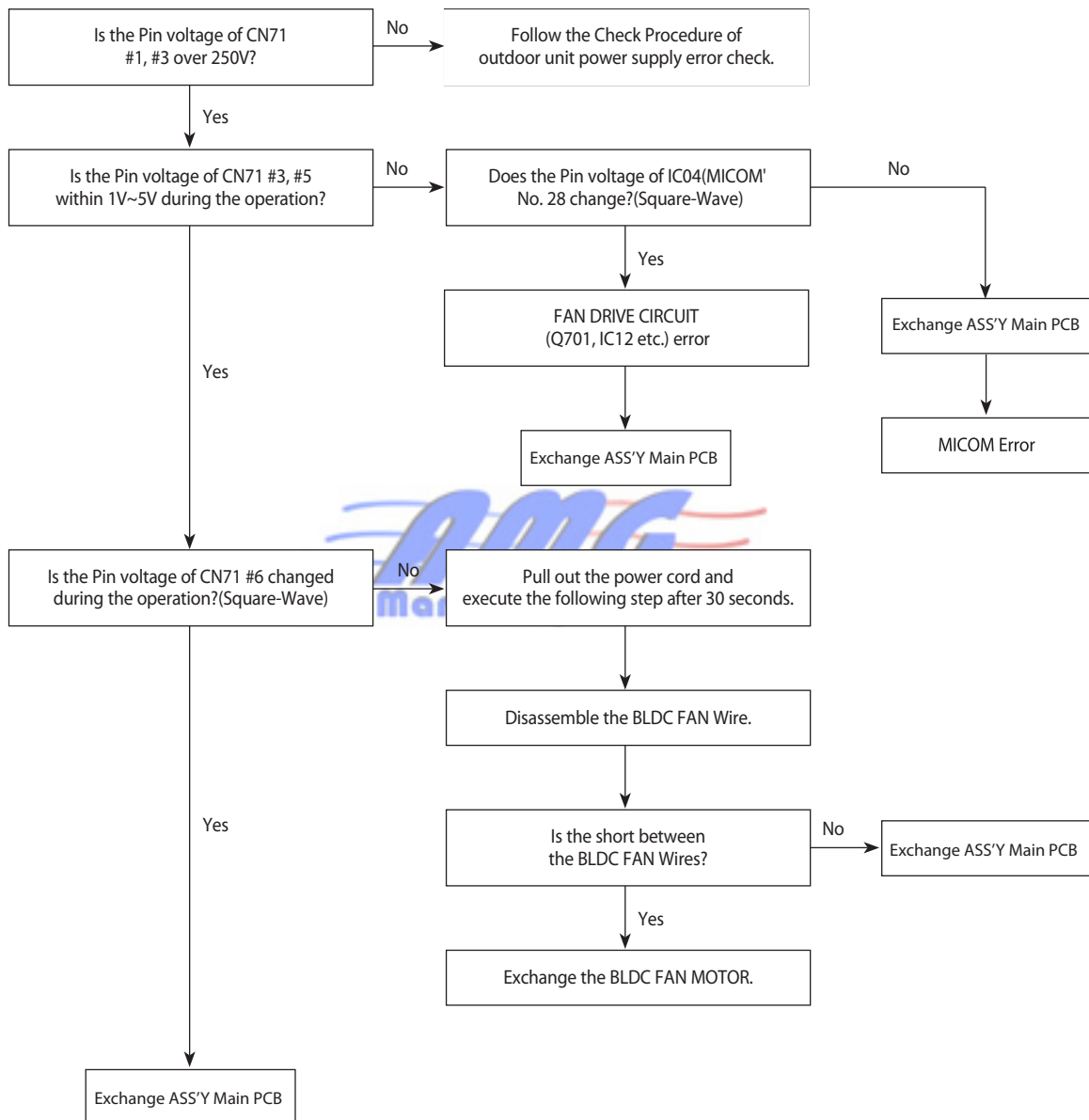


4-3-4 The Indoor unit Fan Error

1. Checklist :

- 1' Are the input power voltage and the power connection correct?
- 2' Is the motor wire connected to the Indoor ASS'Y Main PCB correctly?
- 3' Is there no obstacle at the surrounding of motor and propeller?

2. Troubleshooting procedure



4-3-5 EEPROM Error/ Option Error

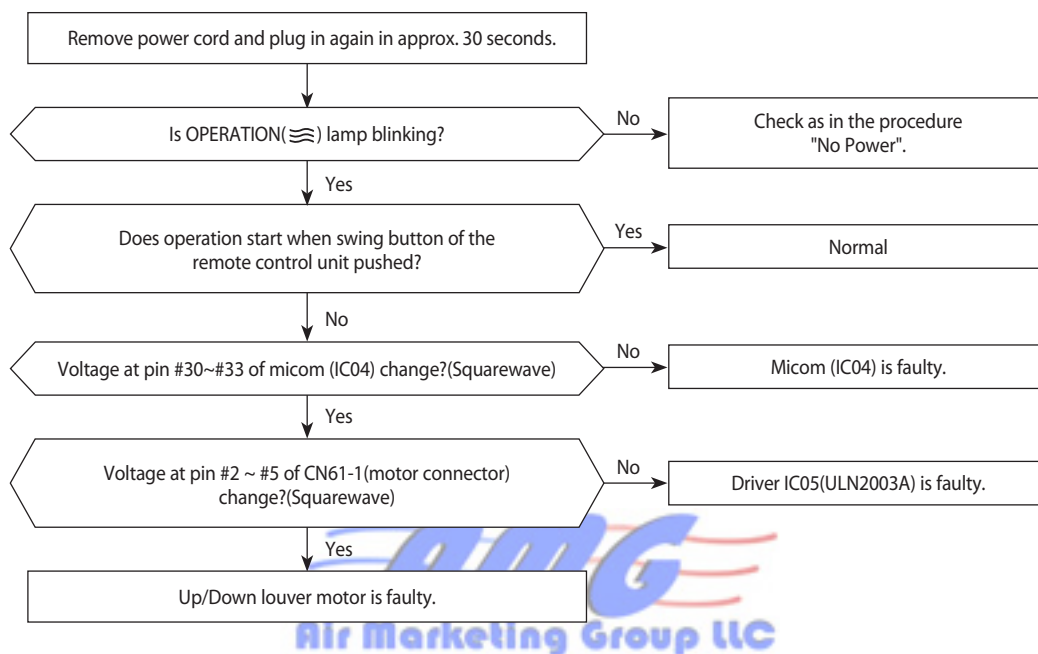
1. Feed option again
2. Check the IC09 soldering
-> adnormal : Exchange the ASS'Y Main PCB

4-3-6 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



4-3-7 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. 8(+) and No. 9(-) of the main PCB CN91-1 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 ASS'Y Main PCB.
3. Replace the assembly display PCB because the ASS'Y Sub PCB is poor if the voltage between No. 8~9 of CN91 maintains 5V after the remote control starts operation.

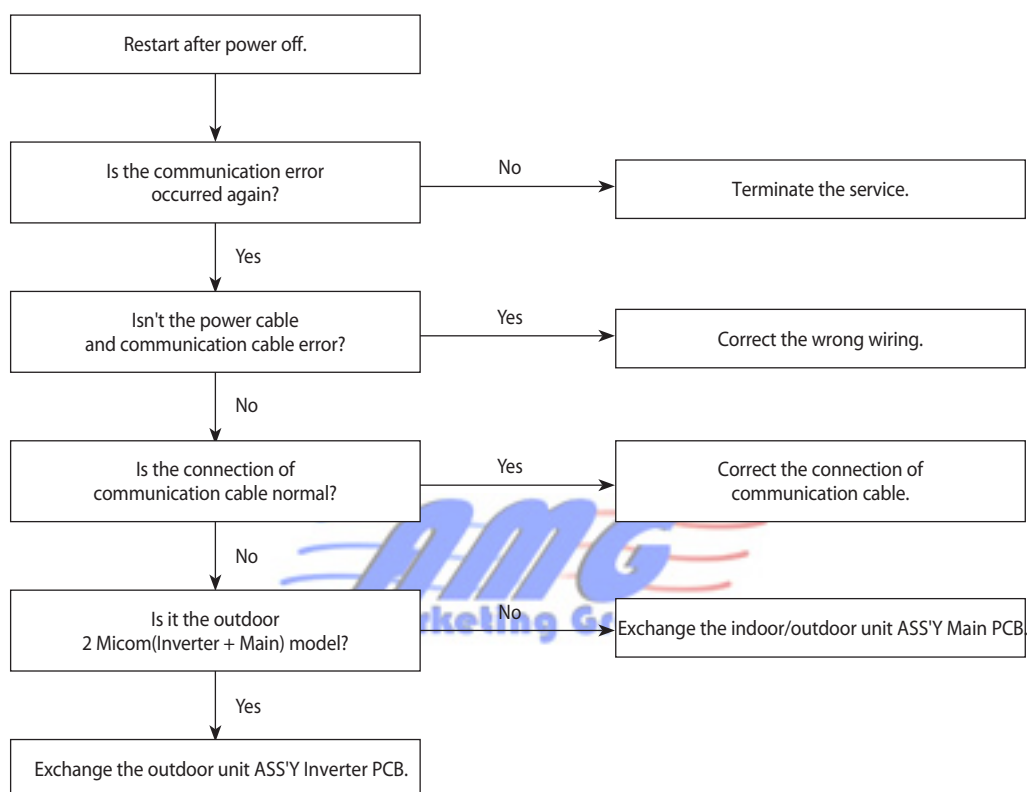


4-3-8 Communication Error

1. Checklist :

- 1) Is the communication cable between the indoor unit and outdoor unit connected correctly?
- 2) Isn't the power cable and communication cable error?

2. Troubleshooting procedure

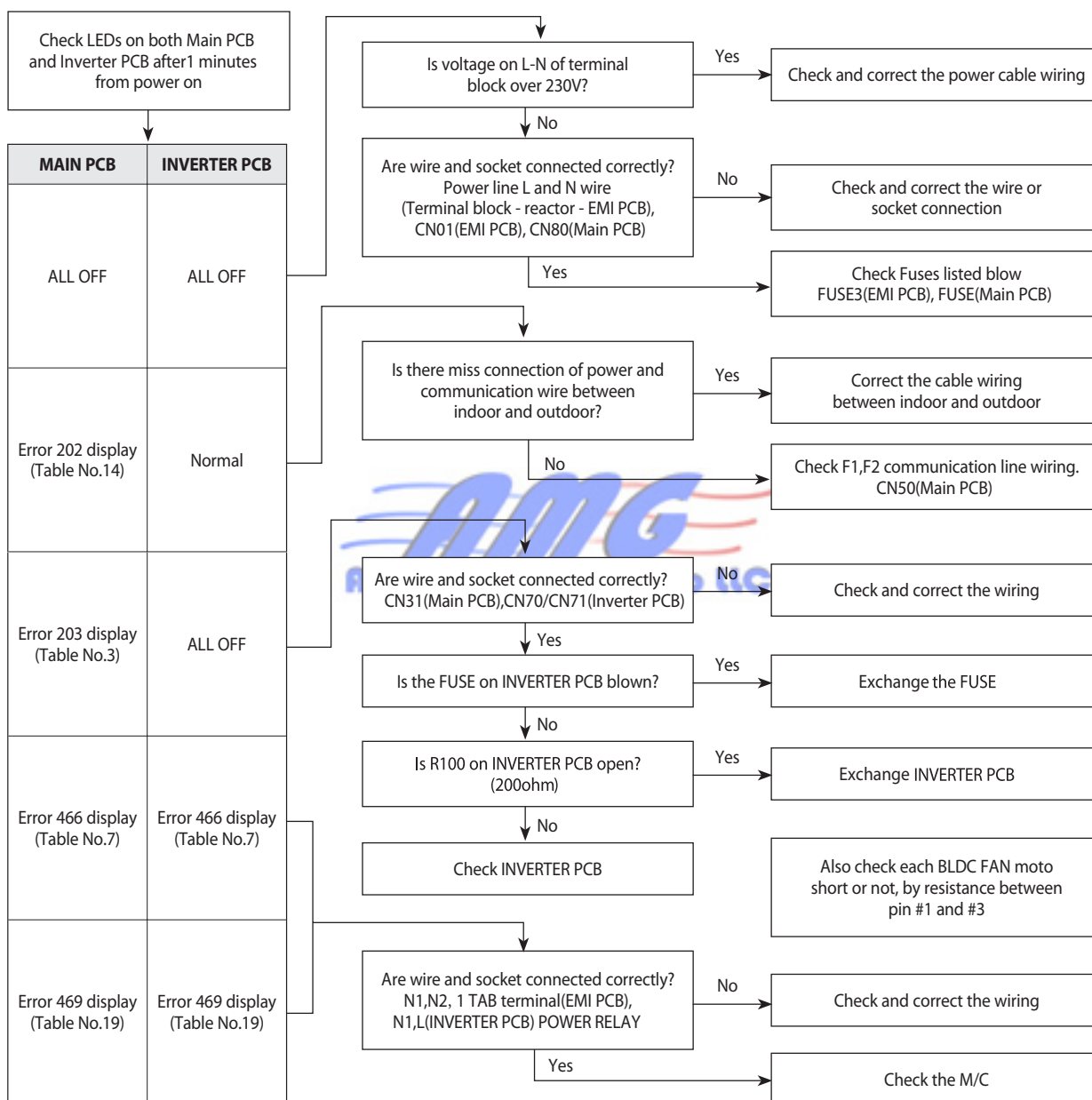


4-3-9 The Outdoor unit Power Supply Error

1. Checklist:

- 1) Are the input power voltage and power connection correct?
- 2) Is there any Fuse Open of the outdoor unit?
- 3) Is any LED lit on both MAIN PCB and INVERTER PCB?
- 4) Are Reactor wires of the outdoor unit connected correctly?

2. Troubleshooting procedure

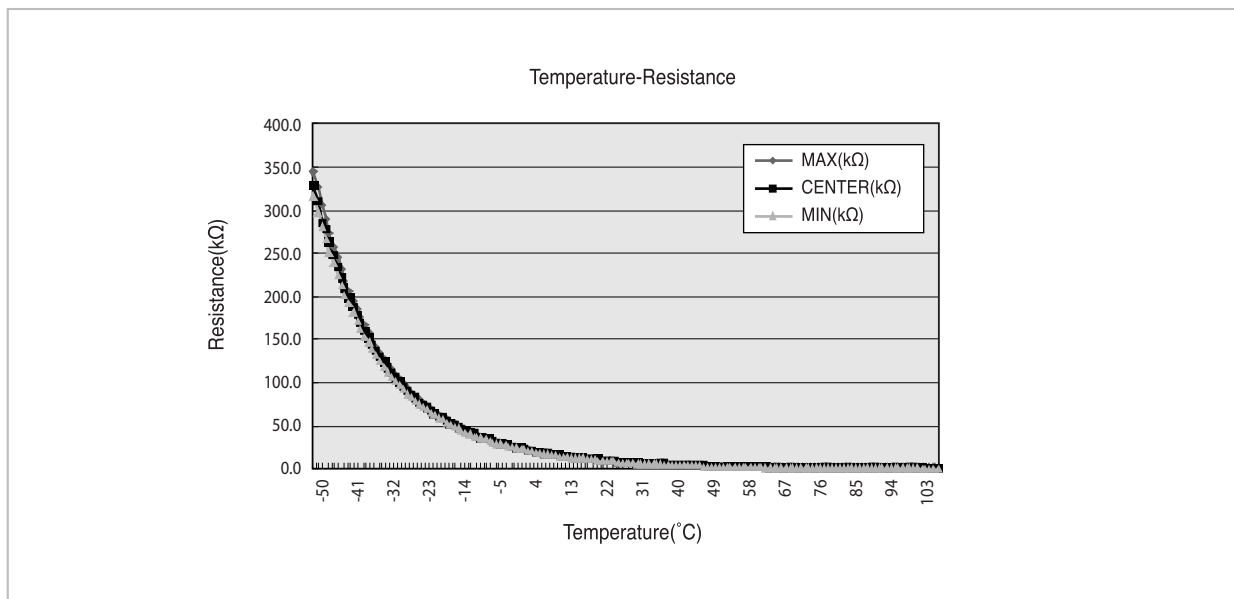
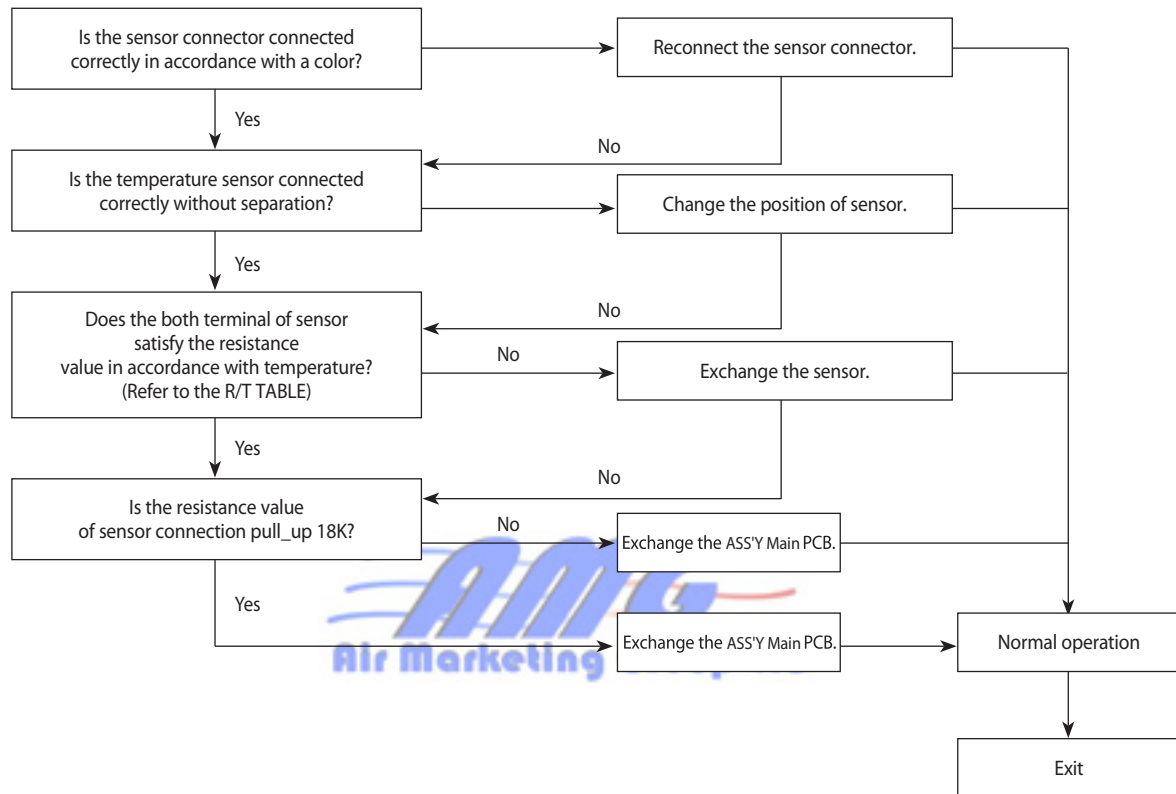


4-3-10 Outdoor Temperature Sensor Error

1. Checklist :

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

2. Troubleshooting procedure

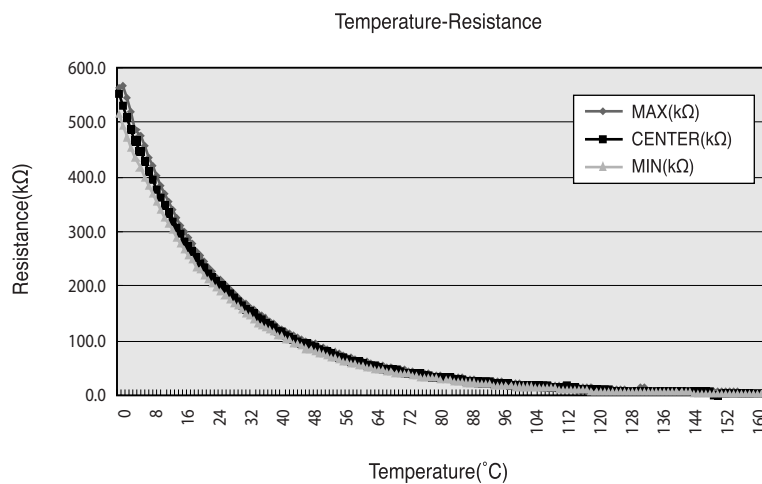
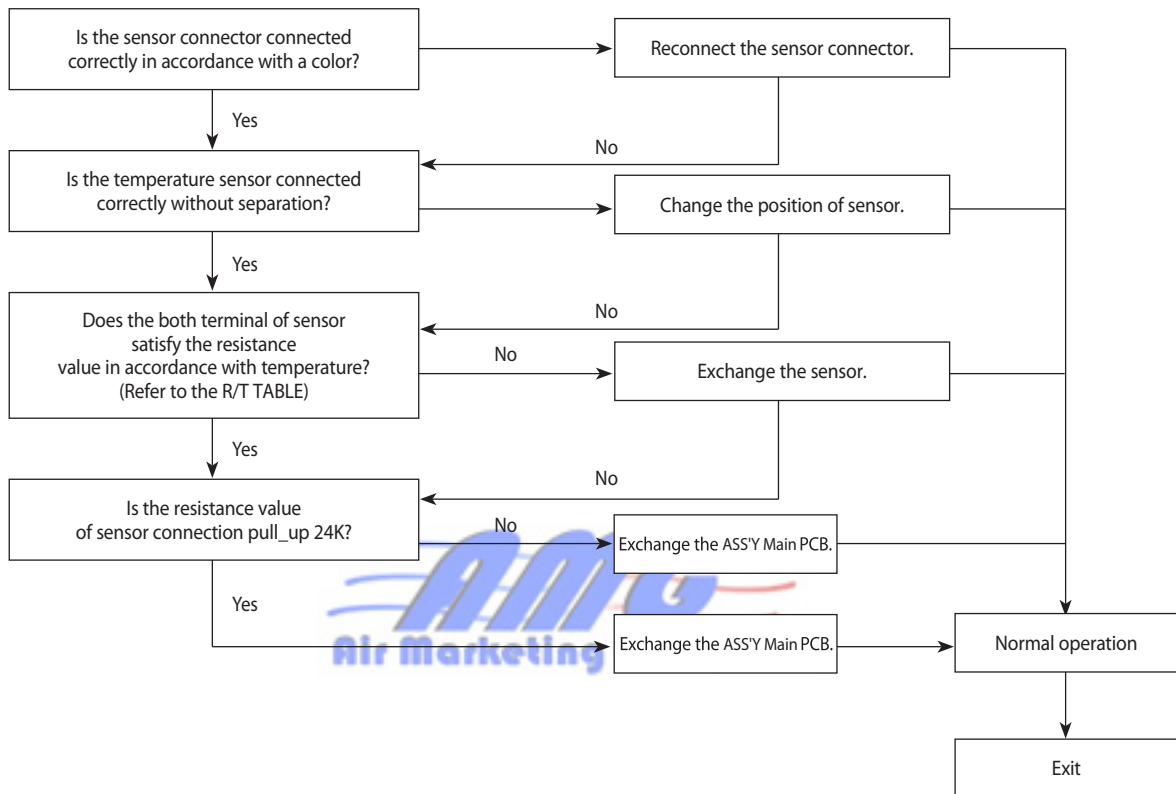


4-3-11 Discharge Temperature Sensor Error

1. Checklist :

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

2. Troubleshooting procedure

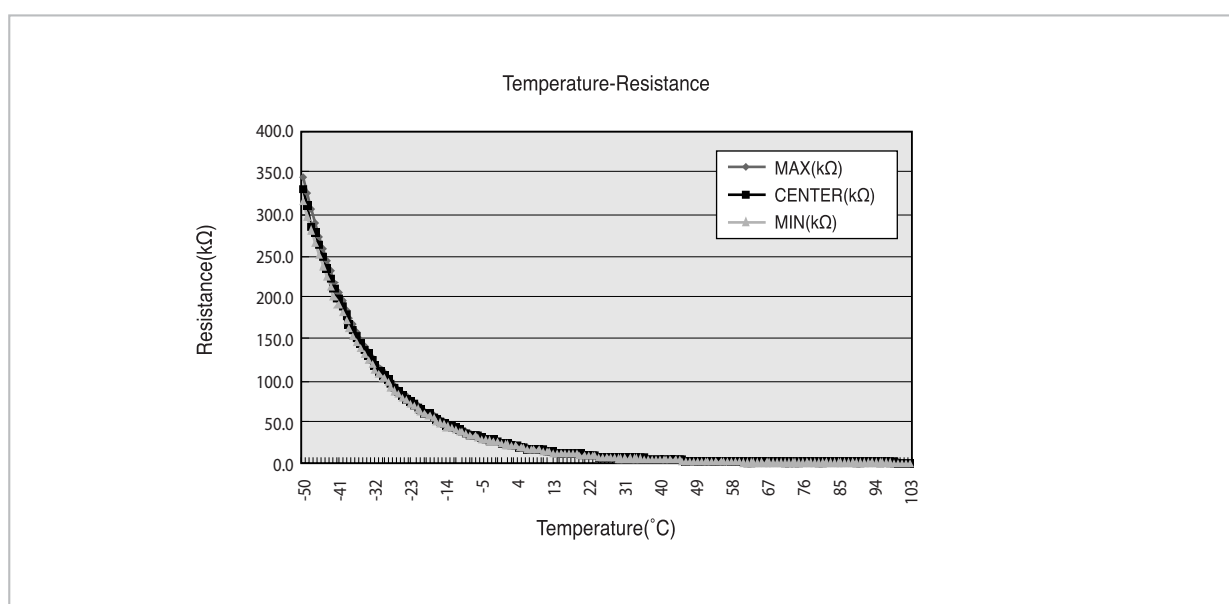
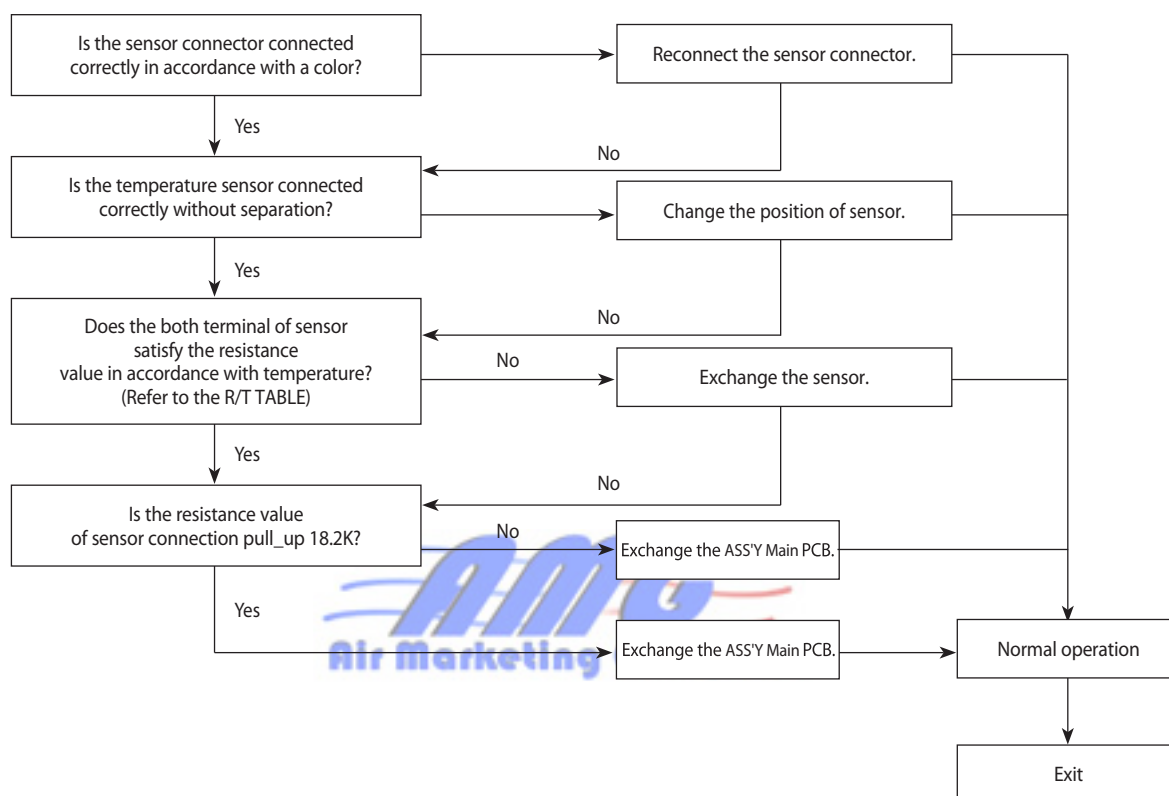


4-3-12 Coil Temperature Sensor Error

1. Checklist :

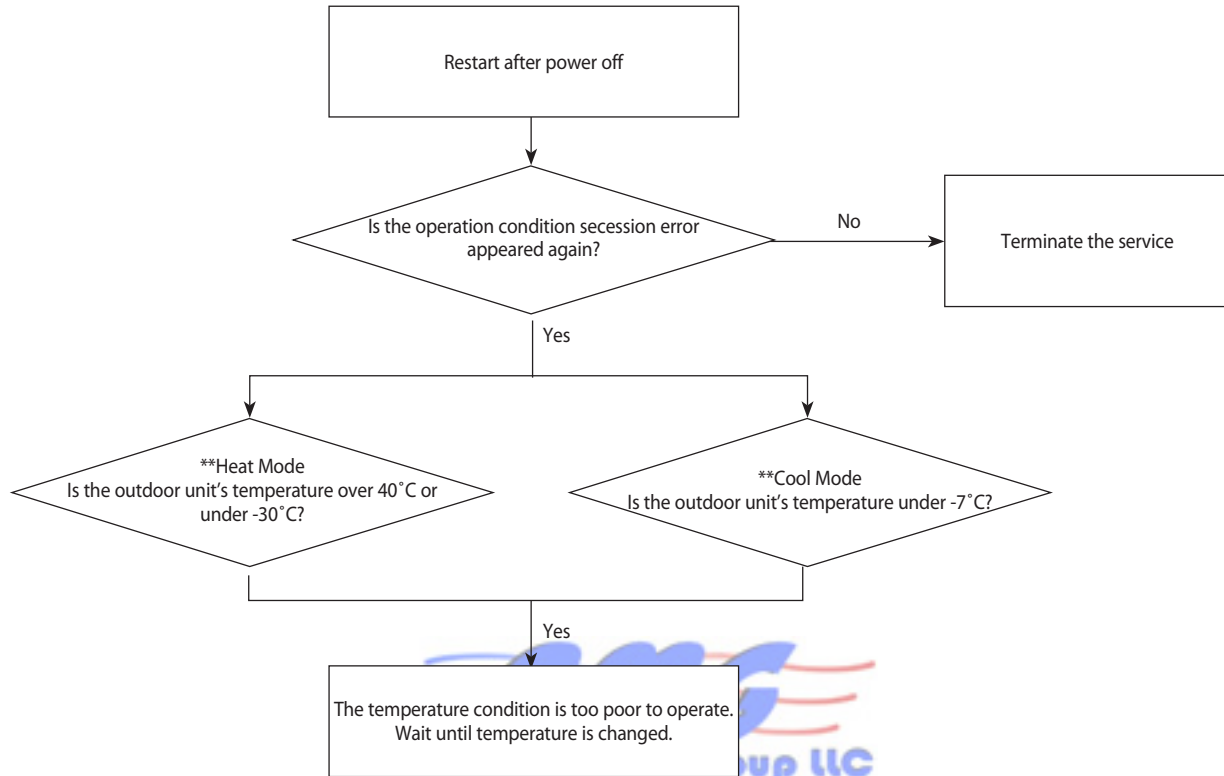
- 1) Is the sensor connector connected correctly?
- 2) Is the sensor placed correctly?
- 3) Does the both terminal of sensor satisfy the resistance value in accordance with temperature?
- 4) Is the resistance value of sensor connection pull_up correct?

2. Troubleshooting procedure



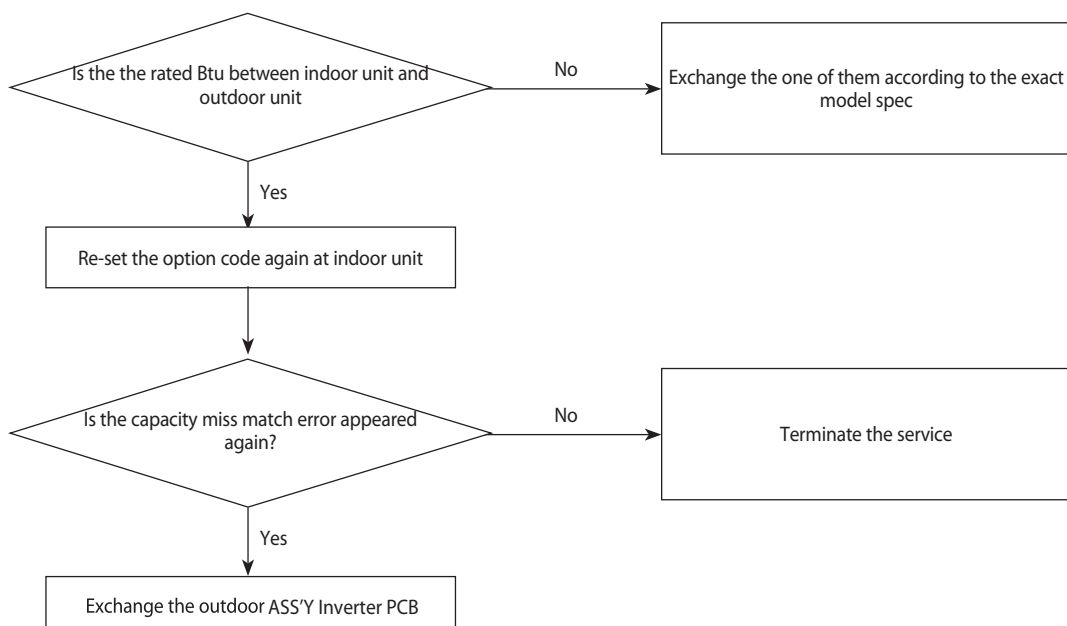
4-3-13 Operation Condition Seccession Error

1. Checklist :
 - 1) Check the temperature around the outdoor unit.
2. Troubleshooting procedure



4-3-14 Capacity Miss Match Error

1. Checklist :
 - 1) Check the Btu between indoor unit and outdoor unit
 - 2) Check the indoor unit's option code and outdoor unit's EEPROM data.
2. Troubleshooting procedure

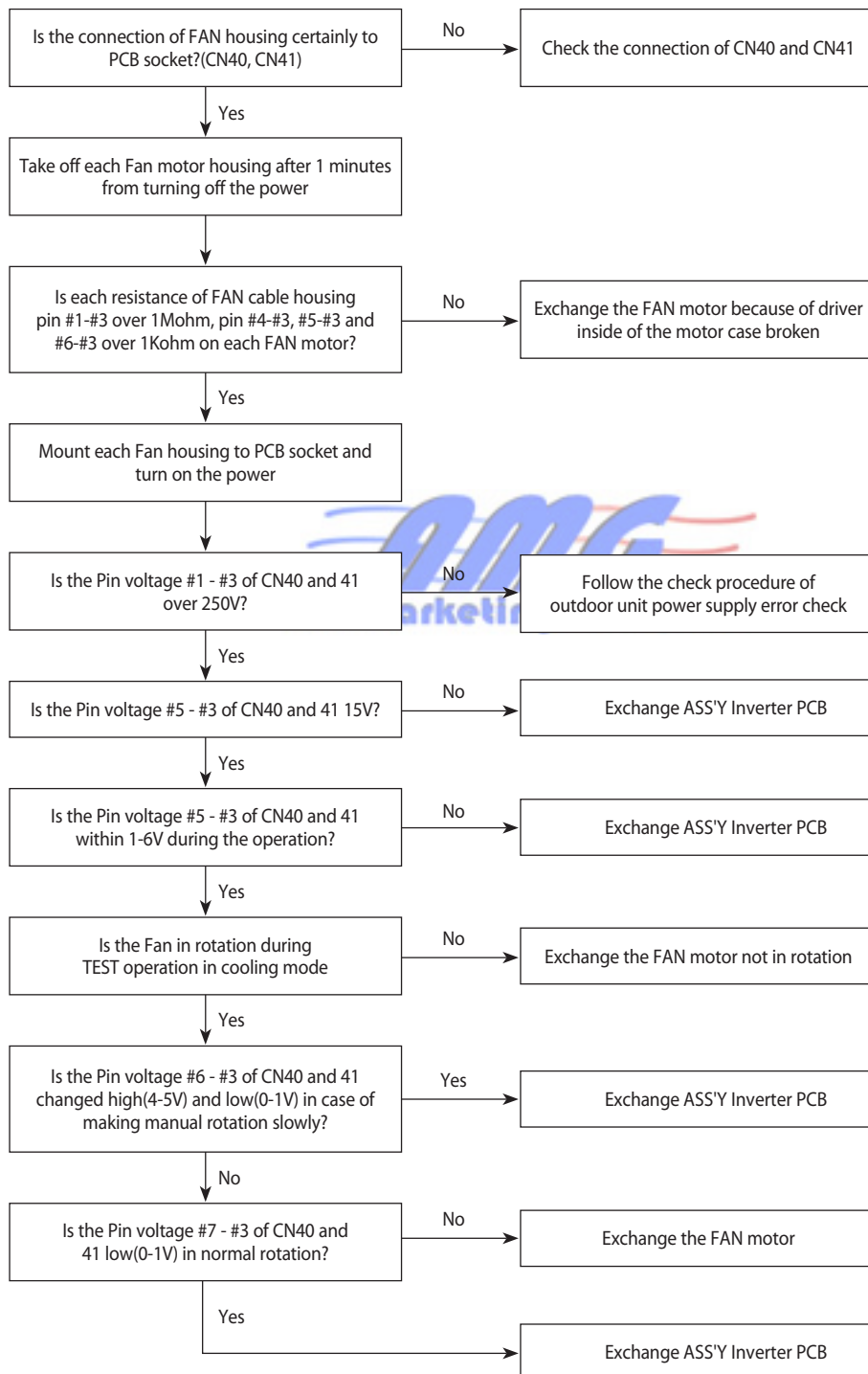


4-3-15 The Outdoor unit Fan Error

1. Checklist:

- 1) Are the input power voltage and power connection correct?
- 2) Is the motor wire connected to the outdoor PCB correctly?
- 3) Is there no obstacle at the surrounding of motor and propeller?
- 4) Does the driver in the motor case broken?

2. Troubleshooting procedure

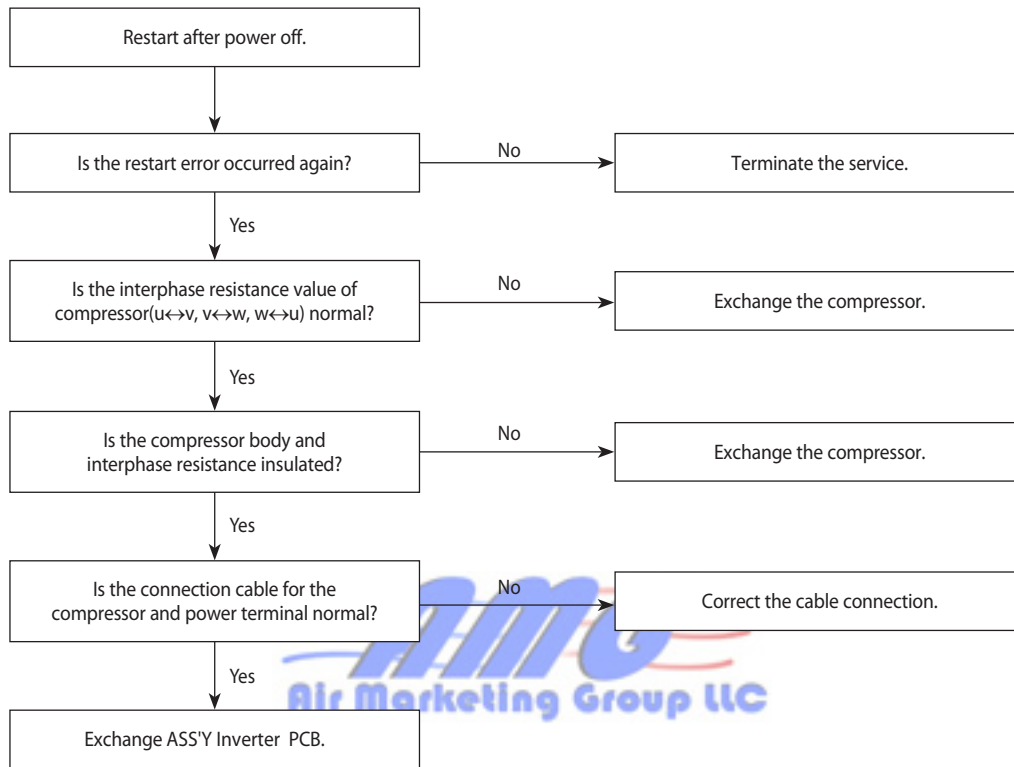


TEST operation #
press K900 button on the Main PCB after power on.

- once : cooling mode
- twice in a second : heating mode

4-3-16 Compressor Start Error

1. Checklist :
 - 1) Is the connection of cable for the compressor and power?
 - 2) Is the interphase resistance of compressor normal?
2. Troubleshooting procedure

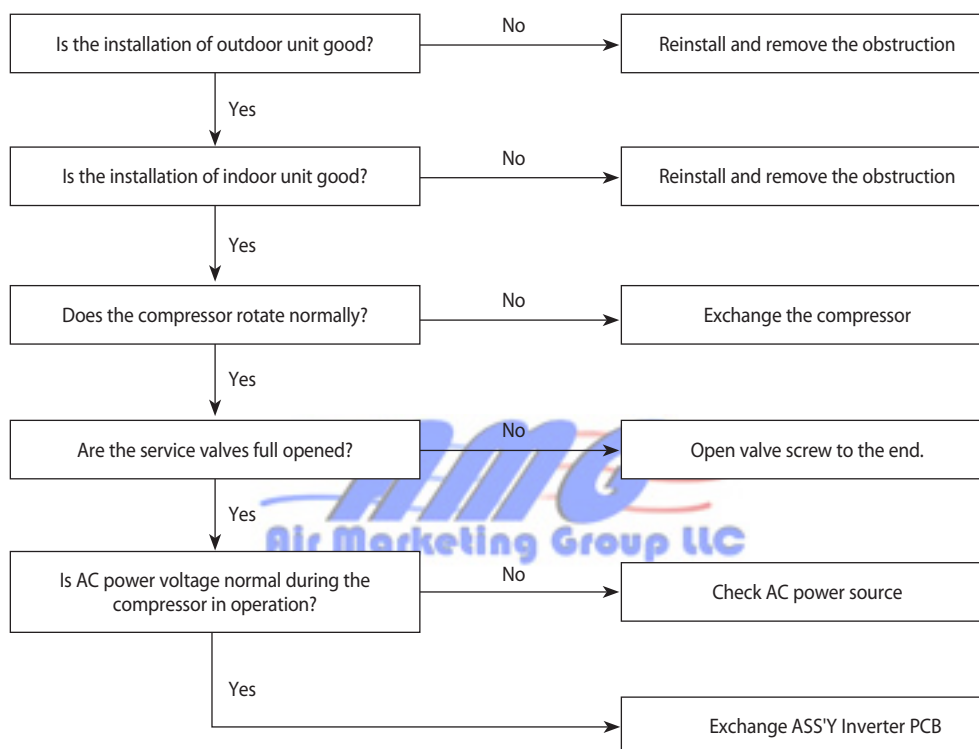


4-3-17 Total Current Trip Error

1. Checklist :

- 1) Is the input power voltage proper?
- 2) Is the refrigerant charged properly?
- 3) Does the compressor rotate normally?(Reverse rotation, Locking etc.)
- 4) Does the outdoor fan operate normally?(Fan propeller loss, Motor error ect.)
- 5) Is the installation condition of outdoor unit good?(Piping, Space etc.)
- 6) Is there no ventilation obstruction at the surrounding of outdoor unit?(Outdoor unit cover, Fan front obstruction etc.)
- 7) Is there no ventilation obstruction at the surrounding of indoor unit?(Overload condition in heating mode)

2. Troubleshooting procedure

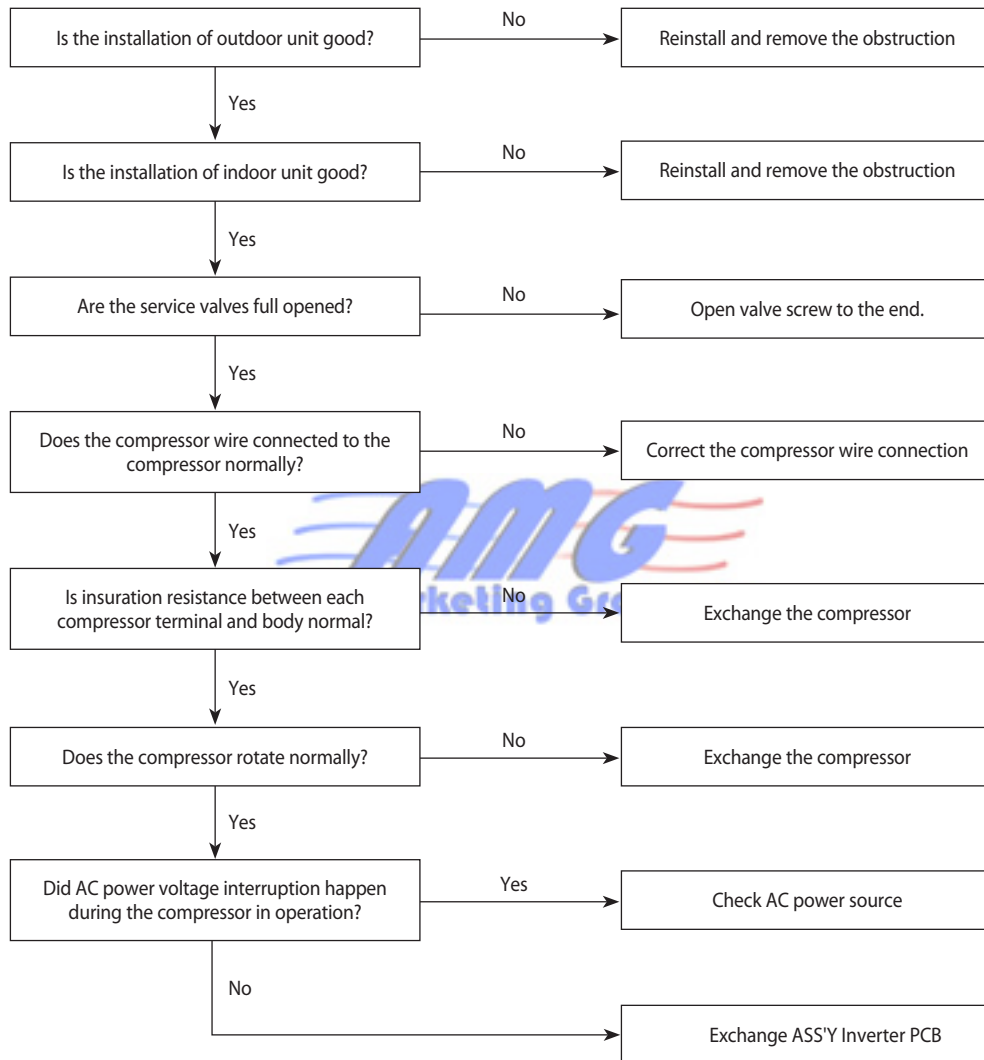


4-3-18 O.C.(Over Current) Error

1. Checklist :

- 1) Is the refrigerant charged properly?
- 2) Does the compressor rotate normally?(Reverse rotation, Locking etc.)
- 3) Is connection of compressor wire normal?
- 4) Is compressor motor normal?(Insulation, Coil resistance etc.)
- 5) Does a temporary cycle overload condition happened?

2. Troubleshooting procedure

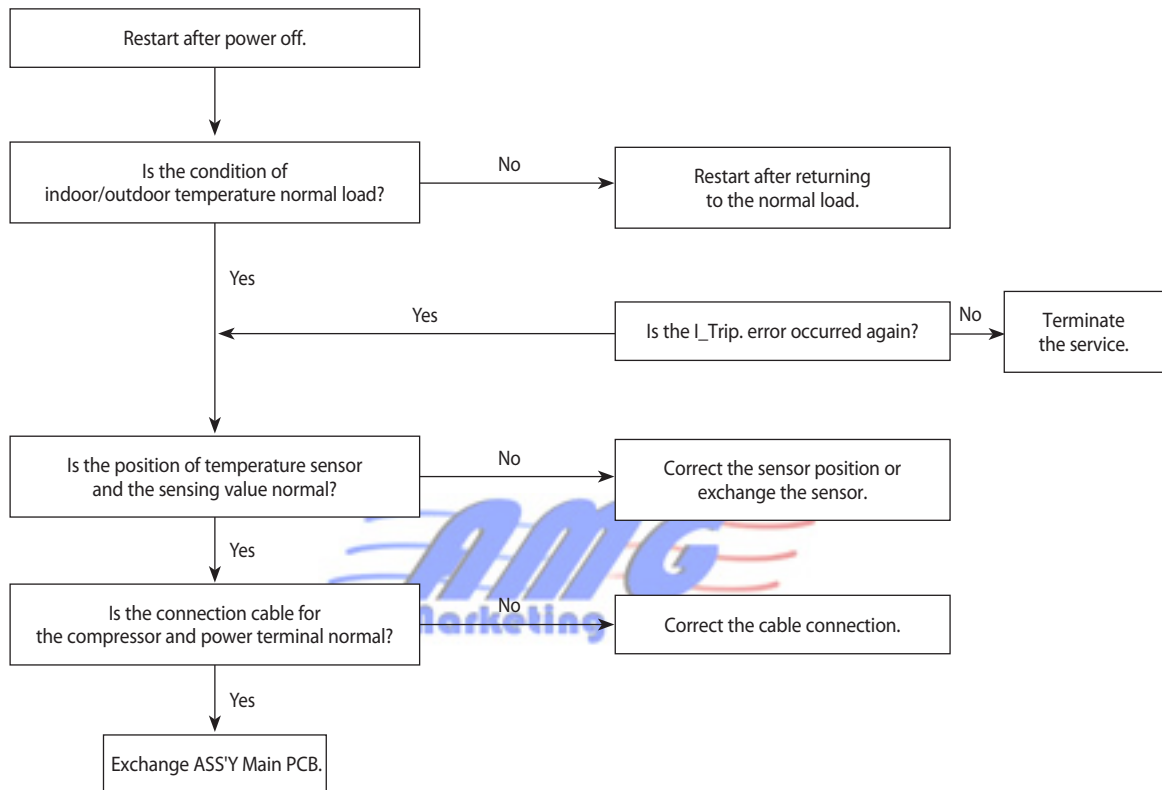


4-3-19 I_Trip Error

1. Checklist :

- 1) Is the Shunt resistance value correct?
- 2) Is the condition of surrounding temperature abnormal overload?
- 3) Is there any problem as like the temperature sensor separation or measurement value error?
- 4) Is the interphase resistance of compressor normal?

2. Troubleshooting procedure

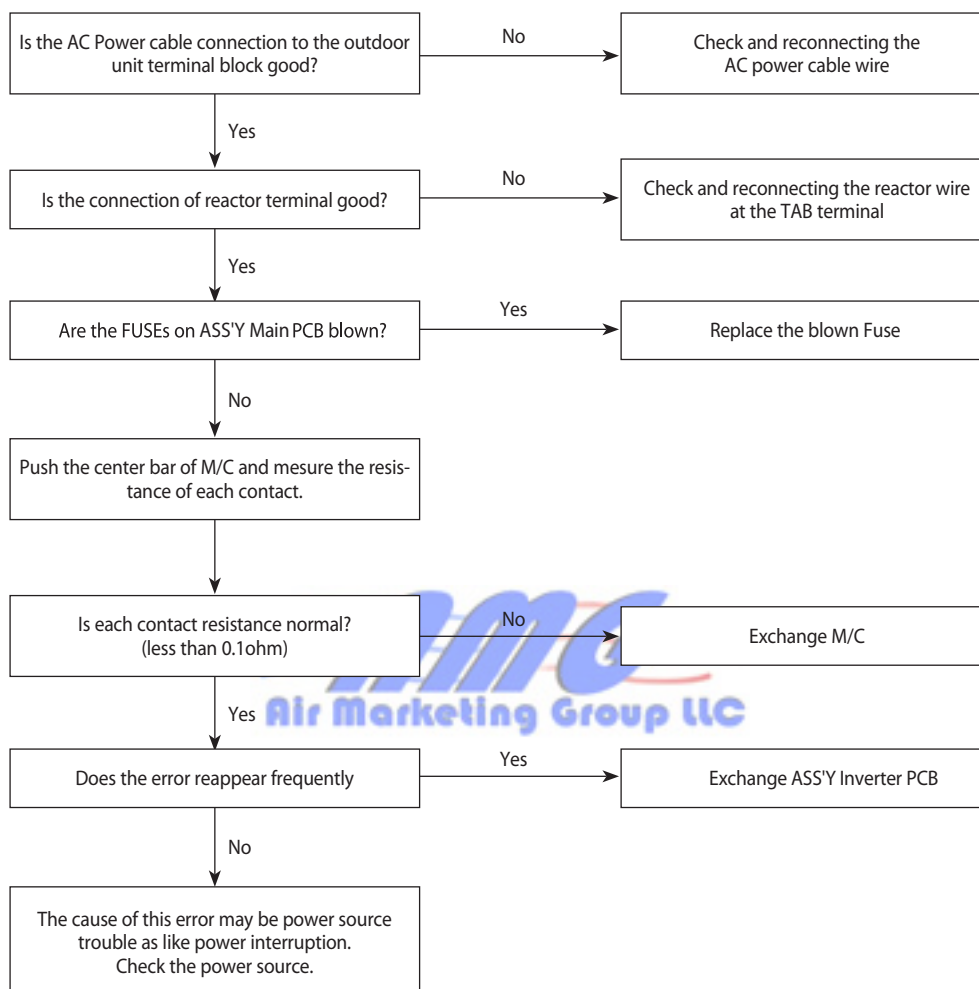


4-3-20 DC Link Over Voltage/ Low Voltage Error

1. Checklist :

- 1) Is the power voltage normal?(Lightning, Power interruption etc.)
- 2) Is AC Power cable connection normal?(Detaching the wire)

2. Troubleshooting procedure

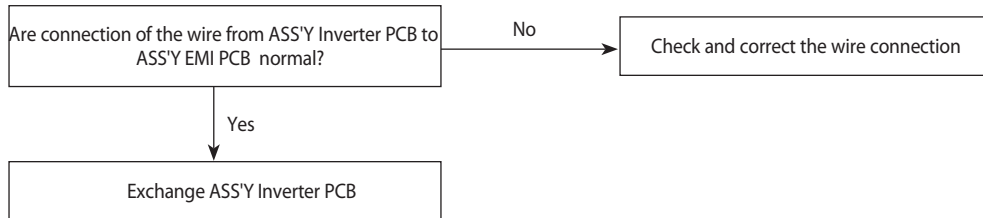


4-3-21 DC-Link Voltage Sensor Error

1. Checklist :

- 1) Is the connection of L, N power wire normal?
- 2) Is it correct 14.3kohm of R115 on the INVERTER PCB mounted normally?

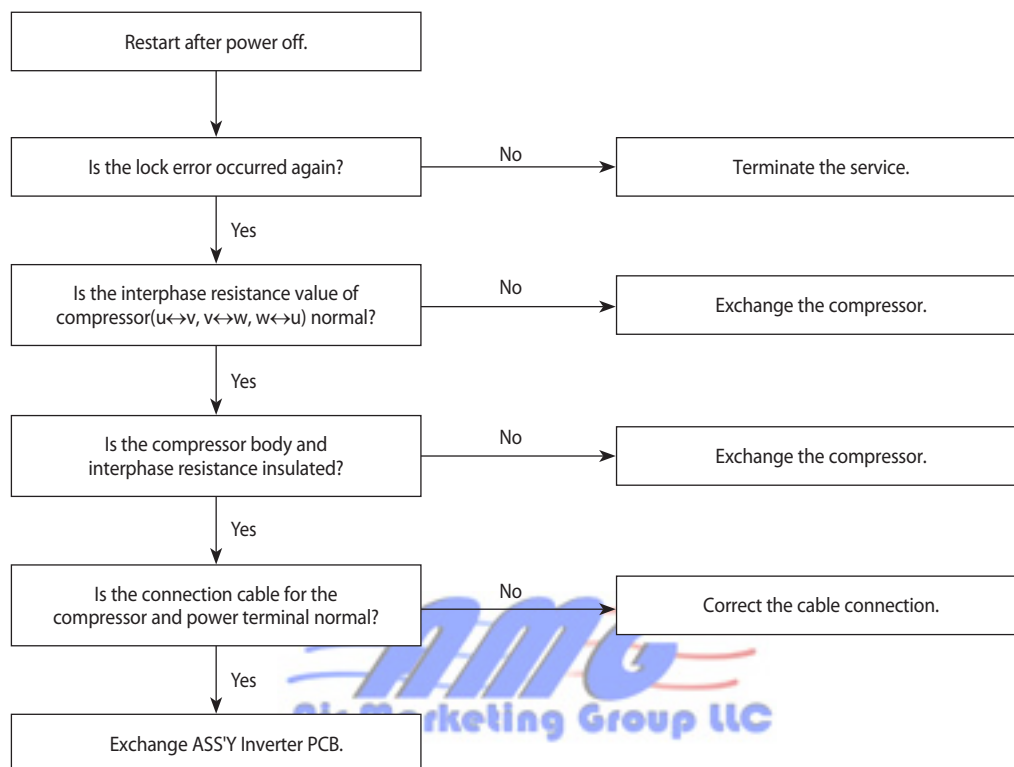
2. Troubleshooting procedure



4-3-22 Compressor Rotation Error

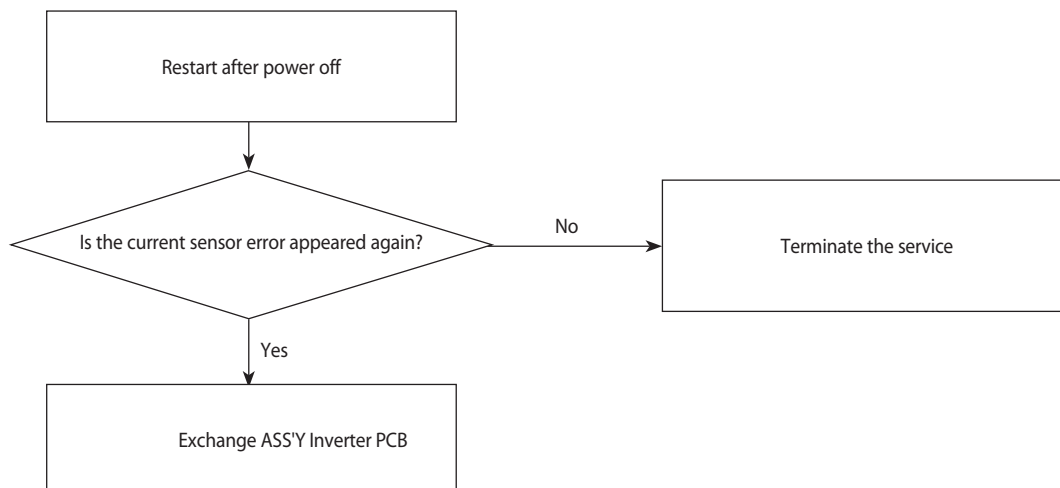
1. Checklist :
 - 1) Is the connection of cable for the compressor and power?
 - 2) Is the interphase resistance of compressor normal?

2. Troubleshooting procedure



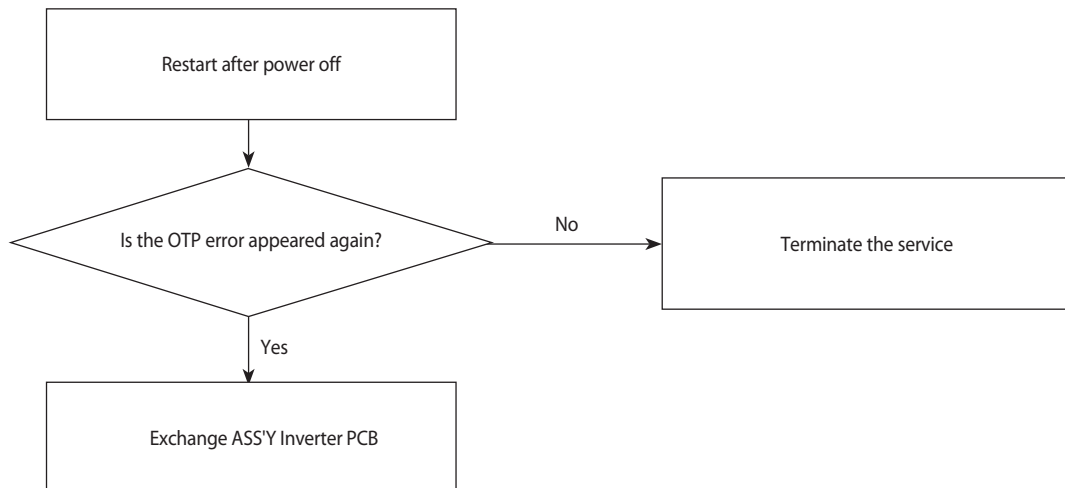
4-3-23 Current Sensor Error

1. Checklist :
 - 1) Is there no short or open in every component around IC700 and IC701?
2. Troubleshooting procedure



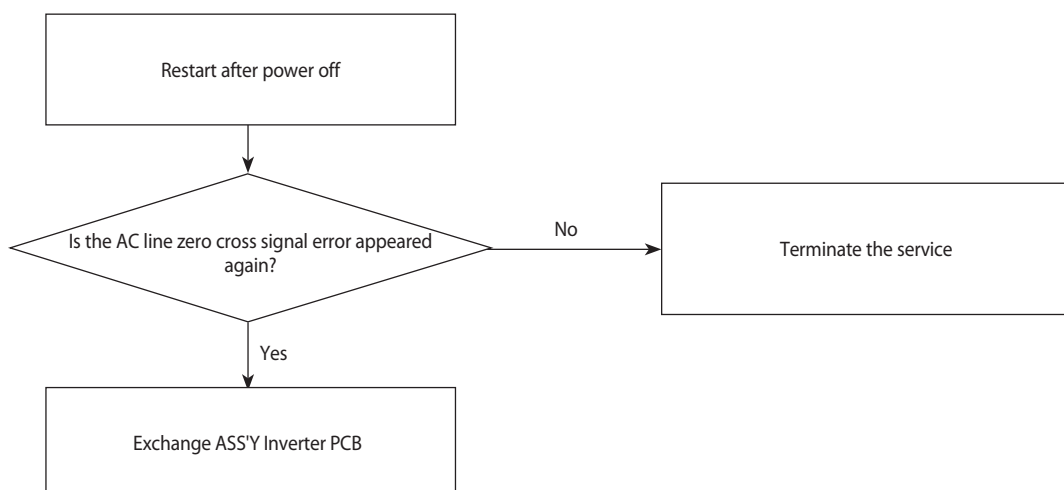
4-3-24 OTP Error

1. Checklist :
 - 1) Check the IC303's soldering status. (Is there any open or short?)
2. Troubleshooting procedure



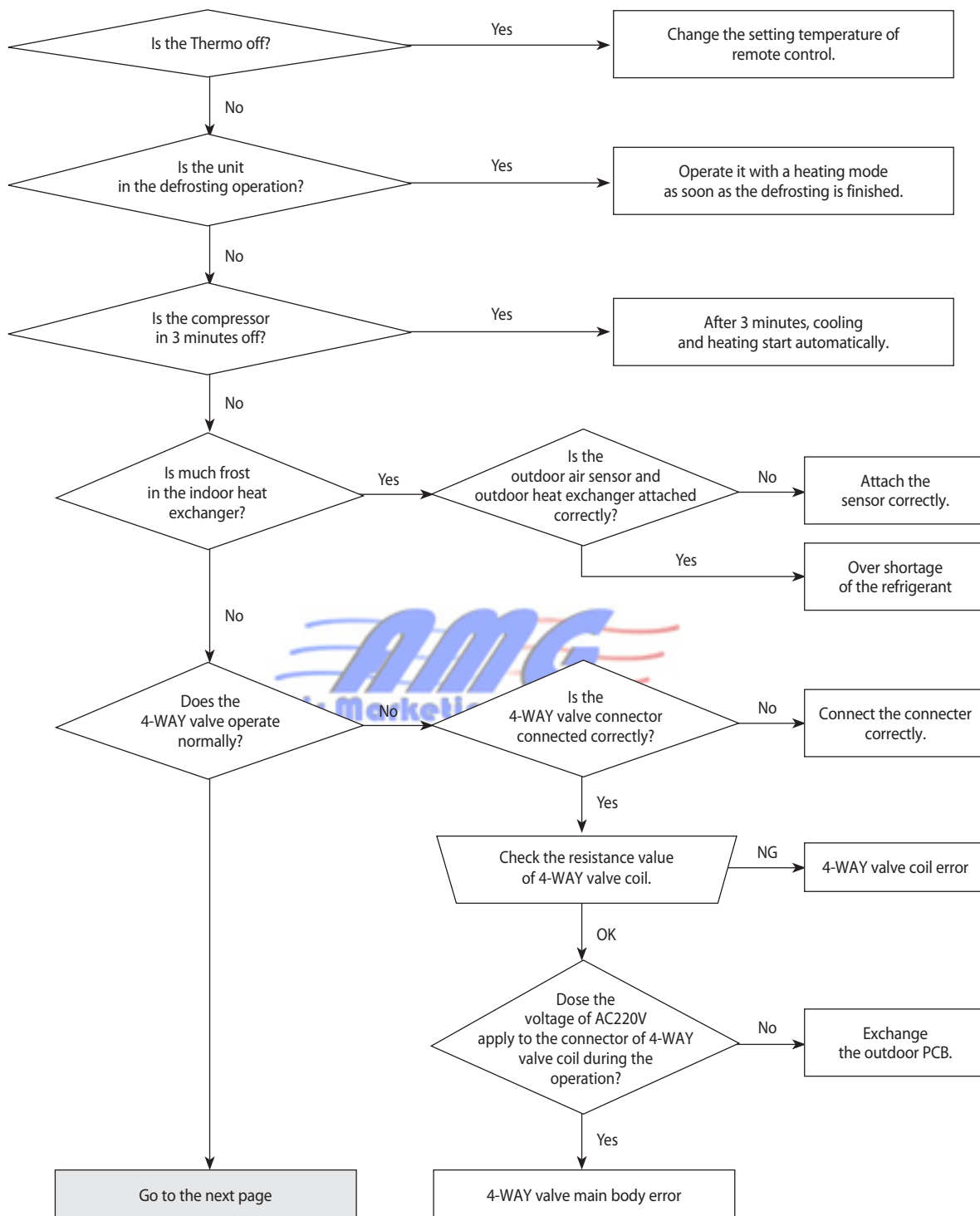
4-3-25 AC Line Zero Cross Signal Out Error

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

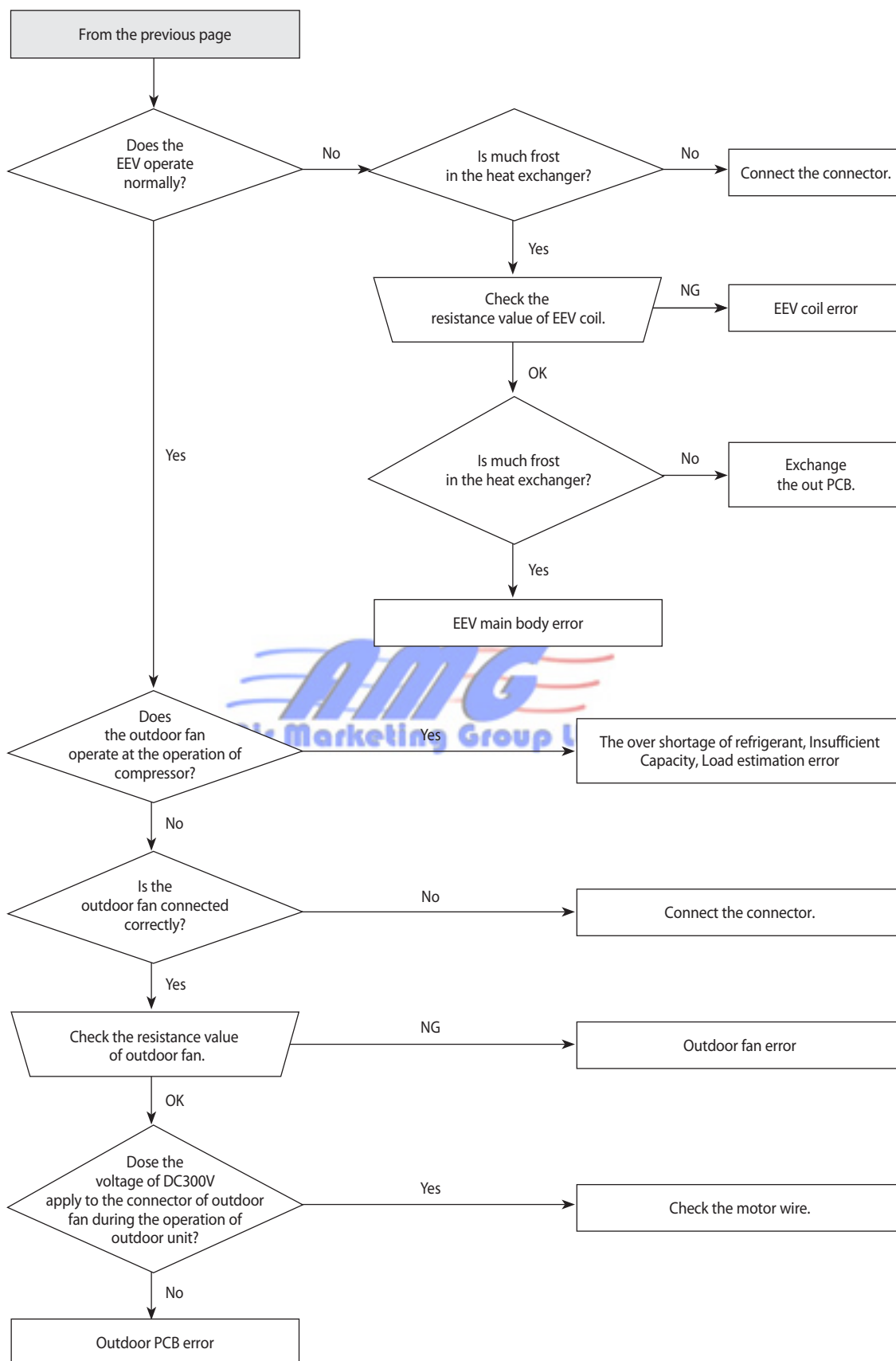


4-3-26 In case of heating at the cooling mode or cooling at the heating mode

1. Troubleshooting procedure



In case of heating at the cooling mode or cooling at the heating mode(cont.)



4-4 PCB Inspection Method

4-4-1 Pre-inspection Notices

1. Turn off the breaker, AC power source, before disassembling the unit because of electrical hazard.
2. Confirm the complete discharge of capacitor on the INVERTER PCB when you touch the PCB. Especially discharging speed of C101, C102, C103 is very slow because of little load in stand-by condition.
3. Don't touch the metal body of electrolytic capacitor for avoiding electrical shock before confirming discharge.
4. To discharging the capacitor use power resistor of about 1 Kohm 10W. Soldering tool(non electronic temperature control type) can be used as a discharging resistor.
5. Don't pull the lead wire but hold the whole housing to disconnect or connect a housing from or to the PCB.

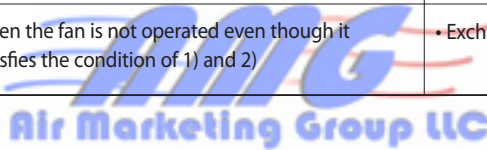
4-4-2 Inspection Procedure

1. Check the connection of each housing to the connector first and the peeling of PCB copper pattern.
2. The PCB is composed of the 3 parts in the indoor unit.
 - Main PCB part : Indoor unit control, MICOM and surrounding circuit, relay, fan motor driving circuit, sensor reading circuit, buzzer driving circuit and DC power supplying circuit.
 - Sub PCB part : Switch, Remocon module.
 - Display part : LED Lamp
3. The PCB is composed of the 4 parts in the outdoor unit.
 - EMI PCB part : Line filter for electrical noise, Varistors for surge and Fuses.
 - Main PCB part : Refrigeration cycle controller with MICOM
 - Inverter PCB part : Compressor driving inverter and BLDC fan controller
 - Display PCB part : LED lamps, Switch



4-4-3 Indoor Detailed Inspection Procedure

No	Procedure	Inspection Method	Cause
1	Plug out and pull the PCB out of the electronic box. Check the PCB fuse.	1) Is the fuse disconnected? (F701)	• Overcurrent • Indoor Fan Motor Short • AC Part Pattern Short of the Main PCB
2	Supply power. If the operating lamp twinkles at this time, the above 1)~3) have no relation.	Checking the power voltage.	
		1) Is the BD71 input voltage AC200V~AC240V?	• Power Cord is fault, Fuse open. Wrong Power Cable Wiring, AC Part is faulty.
		2) Is the voltage between both terminals of the C110 on the 2 nd side of the transformer DC12V $\pm 0.5V$?	• Switching Trans or Power Circuit is faulty
		3) Is the voltage between both terminals of OUT and GND of IC02(KA78L05) DC5V $\pm 0.5V$?	• Power Circuit is faulty, Load Short
3	Press the ON/OFF button. 1. FAN Speed [High] 2. Continuous Operation	1) Is the voltage over DC15V~DC17V being imposed on terminal #3 and #4 of the fan motor connector(CN72)?	• ASS'Y Main PCB is faulty
		2) Is the voltage over DC1V~DC5V being imposed on terminal #3 and #5 of the fan motor connector(CN72)?	• ASS'Y Main PCB is faulty
		3) When the fan is not operated even though it satisfies the condition of 1) and 2)	• Exchange the BLDC Motor.



4-4-4 Outdoor Detailed Inspection Procedure

No	Procedure	Inspection Method	Cause
1	Turn OFF the power and check wire and socket connection on each part	Wait until Capacitor discharged and Display off 1) Is connection of housing to socket normal? 2) Is connection of each wire to terminal block normal? 3) Is the reactor wire connection normal? 4) Is there no miss-wiring of each cable?	• installation mistake • miss assembling
2	FUSE check	Is the fuses on each PCB normal? 1 fuse on Main PCB 1 fuse on Outdoor C-Box	• wire short • overload • BLDC FAN short error
3	Turn on the power and check voltage of terminal block	Is L-N around 230Vac? Is 1(L)-2(N) around 230Vac? Is 1(L)-2(N) indoor unit around 230Vac? Is F1-F2 within 5Vdc?	• miss wiring of power cable • wire detaching
4	Check LED display on Inverter PCB	1) Is RED LED ON? 2) Is GREEN LED Blinking once a second? 3) Is LEDs displaying error code pattern?	• Inverter PCB power trouble • NO communication between Main and Inverter PCB • error detection
5	Check DC voltage of SMPS output	Main PCB 1) Is voltage of CN51 pin#1-#2 12-14.5V? 2) Is voltage of C109 5V? Inverter PCB 3) Is voltage of C119 15V? 4) Is voltage of C123 5V?	• SMPS circuit trouble
6	Check Inverter PCB	1) Is resistance of R001200ohm? 2) Is DC Link voltage 280V~320V? Check voltage BD01 +/-	• resister • wire connection between EMI PCB and Inverter PCB
7	Check BLDC fan	1) See 12-2-3 The Outdoor unit Fan error(Fault Diagnosis)	

4-5 Main Part Inspection Method

Part	Breakdown Inspection Method				
Indoor Unit Temperature Sensor	Measure sensor resistance with a multimeter				
	Normal	At the normal temperature 37kΩ~8.3kΩ(-7°C~+30°C)			
	Abnormal	∞,0Ω...Open or Short			
Indoor Unit BLDC FAN Motor	Measure terminal resistance with a multimeter				
	Normal	At the normal temperature(10°C~30°C)			
		wire	pin number	Resistance	Remark
		RED - BLACK	1-3	over 1MΩ	+300V motor power
		WHITE - BLACK	4-3	1KΩ ~ 2KΩ	+15V control power
		YELLOW - BLACK	5-3	200KΩ ~ 300KΩ	control
BLUE - BLACK	6-3	10KΩ ~ 50KΩ	pulse		
Abnormal	∞,0Ω...Open or Short				
Outdoor Unit Outdoor Temperature Sensor & Cond Temperature Sensor	Measure sensor resistance with a multimeter				
	Normal	At the normal temperature 37kΩ~8.3kΩ(-7°C~+30°C) see 12-2-6 and 12-2-8			
	Abnormal	∞,0Ω...Open or Short			
Outdoor Unit Discharge Temperature Sensor	Measure sensor resistance with a multimeter				
	Normal	At the normal temperature 563kΩ~157kΩ(0°C~+30°C) see 12-2-7			
	Abnormal	∞,0Ω...Open or Short			
Outdoor Unit BLDC FAN MOTOR	Measure terminal resistance with a multimeter				
	Normal	At the normal temperature(10°C~30°C)			
		wire	pin number	Resistance	Remark
		RED - BLACK	1-3	over 1MΩ	+300V motor power
		WHITE - BLACK	4-3	1KΩ ~ 2KΩ	+15V control power
		YELLOW - BLACK	5-3	200KΩ ~ 300KΩ	control
BLUE - BLACK	6-3	10KΩ ~ 50KΩ	pulse		
ORANGE - BLACK	7-3	10KΩ ~ 50KΩ	reverse		
Abnormal	0Ω...Open or Short				
Outdoor Unit 4way Valve Solenoid	Measure resistance with a multimeter				
	Normal	At the normal temperature(10°C~30°C) 1.6KΩ±15%			
	Abnormal	∞,0Ω...Open or Short			

4-6 Setting Option Setup Method

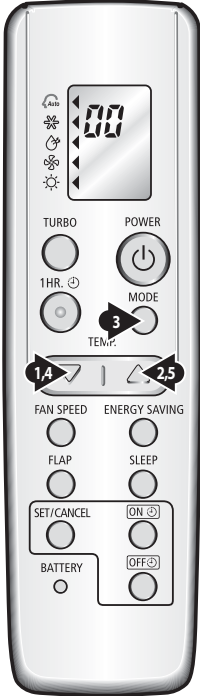
ex) Option No. : *AB 4d 7d 12 3b*

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 .



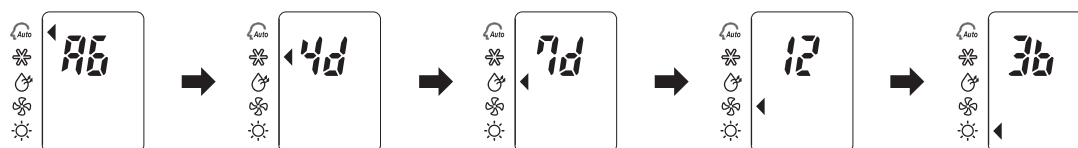
Step 2 : Enter the Option Setup mode and select your option according to the following procedure.

	Feature	Display
	Setting Option SEG1. Push the  button to set the display panel to <i>A</i>. Every time you push the button, the display panel reads <i>0 → 1 → 2 → 3 → ... → 9 → A → b → c → d → E → F</i> repeatedly.	
	2 Setting Option SEG2. Push the  button to set the display panel to <i>B</i>. Every time you push the button, the display panel reads <i>0 → 1 → 2 → 3 → ... → 9 → B → b → c → d → E → F</i> repeatedly.	
	3 Change it into the set display of Option SEG3 and SEG4 with the  button.	
	4 Setting Option SEG3. Push the  button to set the display panel to <i>4</i>. Every time you push the button, the display panel reads <i>0 → 1 → 2 → 3 → ... → 9 → A → b → c → d → E → F</i> repeatedly.	
	5 Setting Option SEG4. Push the  button to set the display panel to <i>d</i>. Every time you push the button, the display panel reads <i>0 → 1 → 2 → 3 → ... → 9 → A → b → c → d → E → F</i> repeatedly.	

	Feature	Display
	6 Change it into the set display of Option SEG5 and SEG6 with the  button.	
	7 Setting Option SEG5. Push the  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.	
	8 Setting Option SEG6. Push the  button to set the display panel to d. Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.	
	9 Change it into the set display of Option SEG7 and SEG8 with the  button.	
	10 Setting Option SEG7. Push the  button to set the display panel to 1. Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.	
	11 Setting Option SEG8. Push the  button to set the display panel to 2. Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.	
	12 Change it into the set display of Option SEG9 and SEG10 with the  button.	
	13 Setting Option SEG9. Push the  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.	
	14 Setting Option SEG10. Push the  button to set the display panel to b. 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.

Whenever you press the  button, the set Option will be displayed.

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

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

Step 5 : Unit operation test-run

First, Remove the battery from the remote control.

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

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

• Error Mode

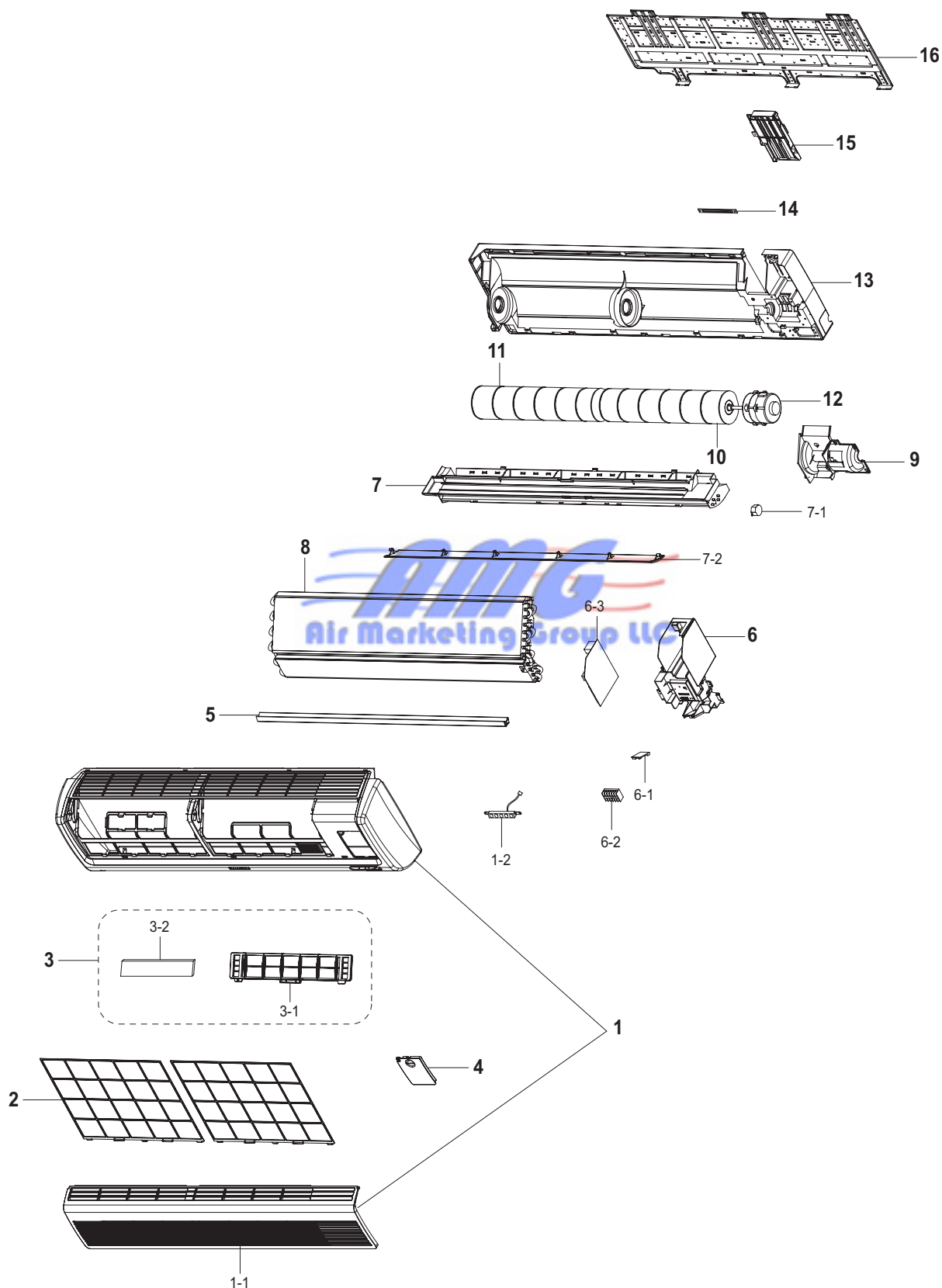
- 1st If all lamps of indoor unit are flickering, Plug out, plug in power plug again and press ON/OFF key to retry.
- 2nd If the unit is not working properly or all lamps are continuously flickering after setting the option code, see if the correct option code is set up for its model.

■ OPTION ITEMS

REMOCON MODEL	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
AQV36JA	0	2	C	7	7	7	1	7	F	2	6	E

5. Exploded Views and Parts List

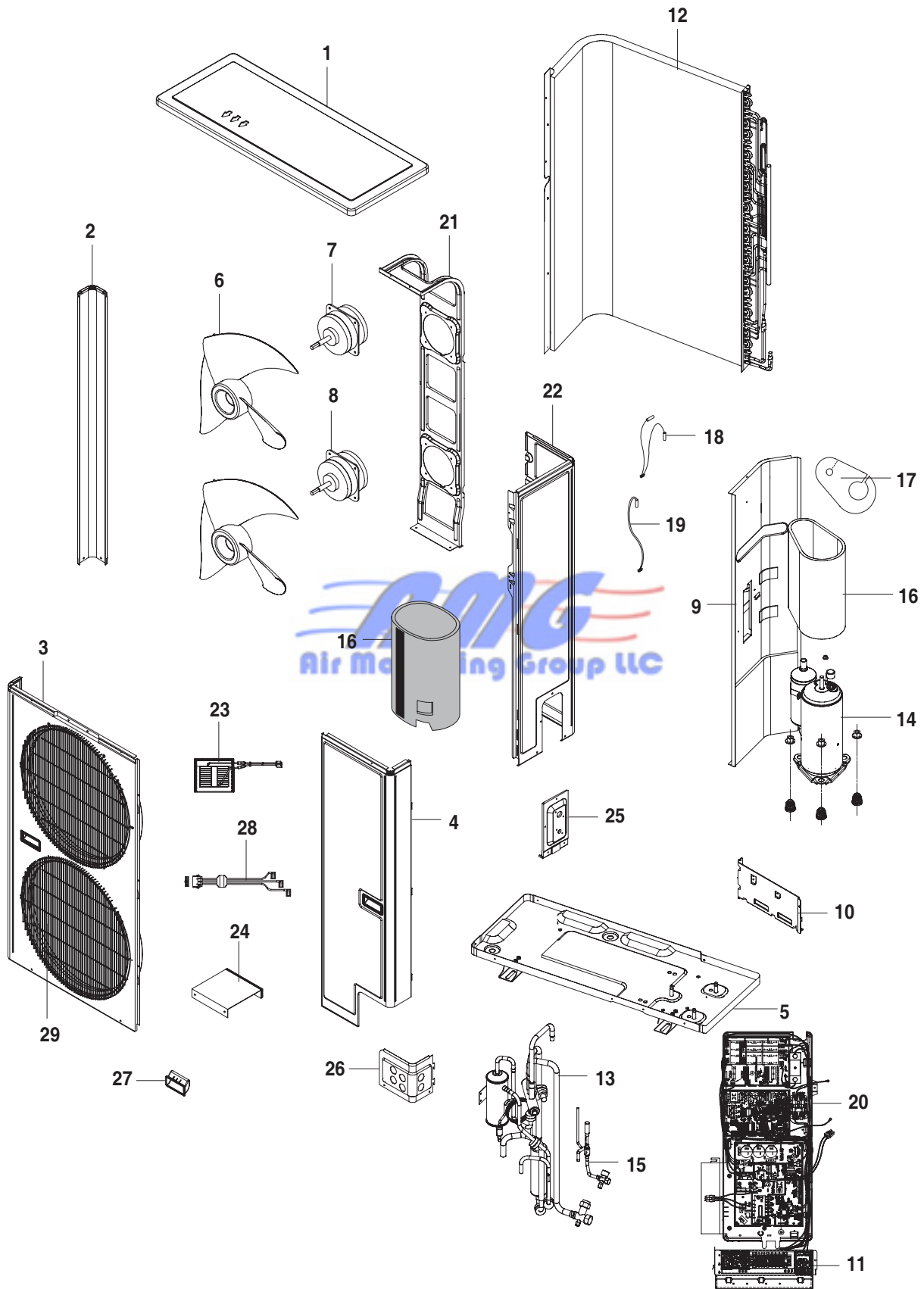
5-1 Indoor Unit



■ Parts List

No	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB92-01110A	ASS'Y PANEL	ASS'Y	1	SA
1-1	DB64-01837A	GRILLE-AIR INLET	ABS	1	SNA
1-2	DB93-05317A	ASS'Y-DISPLAY	ASS'Y	1	SA
2	DB63-01765A	GUARD-AIR FILTER	PP	2	SA
3	DB94-01539A	ASS'Y FILTER BIO	ASS'Y	1	SA
3-1	DB63-01767A	FILTER-DEODORIZATION	ANTIBACTERIAL	1	SNA
3-2	DB63-01767B	FILTER-CLEANER	236X80XT2	1	SA
4	DB63-01766B	COVER-TERMINAL	FRAME RETARDANT ABS	1	SA
5	DB60-00304A	SPACER-EVAP	PVC	1	SA
6	DB93-06665A	ASS'Y CONTROL IN	ASS'Y	1	SA
6-1	DB93-04868A	ASS'Y MODULE & S/W	ASS'Y	1	SA
6-2	DB65-00105H	TERMINAL BLOCK-ASS'Y	ASS'Y	1	SA
6-3	DB93-06664A	ASS'Y PCB MAIN	ASS'Y	1	SA
7	DB94-01495A	ASS'Y TRAY DRAIN	35BY, 1500g	1	SA
7-1	DB31-00369B	ASS'Y MOTOR-STEPPING	ASS'Y	1	SA
7-2	DB61-03251A	BLADE-H	ABS	1	SA
8	DB96-09872A	ASS'Y EVAPORATOR UNIT	ASS'Y	1	SA
9	DB61-03200A	HOLDER MOTOR	FRAME RETARDANT PP	1	SNA
10	DB94-00118A	ASS'Y FAN-CROSS, RH	ASS'Y	1	SA
11	DB94-00119A	ASS'Y FAN-CROSS, LF	ASS'Y	1	SA
12	DB31-00332C	MOTOR FAN IN	FDA6531SSA	1	SA
13	DB94-01498B	ASS'Y BACK BODY	SUB-ASS'Y	1	SA
14	DB61-03250A	HOLDER BACK BODY	SGCC-M	1	SNA
15	DB61-03218A	HOLDER PIPE	ABS	1	SA
16	DB70-00787A	PLATE-HANGER	SGCC-M	1	SA

5-2 Outdoor Unit

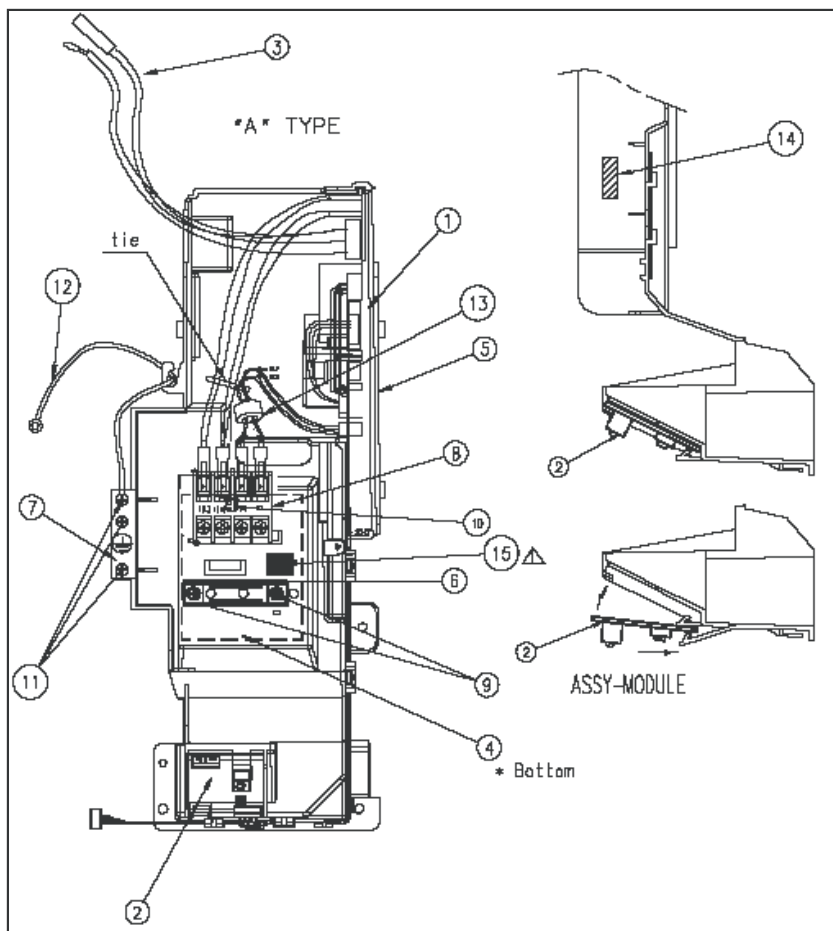


■ Parts List

No.	Code No.	Description	SPEC	Q'TY	SA/SNA
1	DB90-01533B	ASS'Y-CABI TOP COVER	SECC-P,0.8T	1	SA
2	DB90-01588A	ASS'Y CABI BACK LF	SECC-P,1.2T	1	SA
3	DB90-01535B	ASS'Y-CABI FRONT LF	SECC-P,0.8T	1	SA
4	DB90-01534C	ASS'Y CABI FRONT RH	SECC-P,0.8T	1	SA
5	DB99-00538E	ASS'Y-CABI BASE PART	SGCC-M,T1.6	1	SNA
6	DB67-00861A	FAN-PROPELLER	ABS+GF20%	2	SNA
7	DB31-00386H	MOTOR FAN	DL-95835SSOA	1	SNA
8	DB31-00386J	MOTOR FAN	DL-95835SSOB	1	SNA
9	DB90-03986A	ASS'Y-PRATITION	SGCC-M,T0.8	1	SA
10	DB61-03566A	PLATE-CONTROL UP	SGCC-M,T1.0	1	SA
11	DB93-06548A	ASS'Y-PLATE CONTROL LOW	SGCC-M,T1.0	1	SA
12	DB96-09416A	ASS'Y COND UNIT	2x52,SLIT,FP1.5	1	SNA
13	DB96-09402B	ASS'Y-4WAY VALVE	HP,3/8,5/8,G5T360FUAKE	1	SNA
14	G5T360FUAKE	COMPRESSOR	G5T360FUAKE	1	SNA
15	DB96-09949A	ASS'Y-EEV VALVE	ASSY	1	SA
16	DB63-02008A	FELT-COMP SOUND	GRAY FELT+EVAR	1	SA
17	DB63-02007A	FELT-TOP COVER	GRAY FELT+EVAR	1	SA
18	DB95-01419A	ASS'Y THEMISTOR-OLP/COND	ASSY	1	SA
19	DB95-01420A	ASS'Y THEMISTOR-AIR/DISCHARGE	ASSY	1	SA
20	DB93-06774A	ASS'Y CONTROL OUT	UH105EAV	1	SA
21	DB94-01767A	ASS'Y BRACKET MOTOR	SGCC-M,T1.6	1	SNA
22	DB90-01637D	ASS'Y CABI BACK RH	SECC-P,0.8T	1	SA
23	DB27-00056A	ASS'Y REACTOR	ASSY	1	SA
24	DB90-02583B	ASS'Y-MOTOR BRACKET SUB	SGCC-M,T1.2	1	SNA
25	DB90-02434A	ASS'Y BRACKET-VAVLE	SGCC-M,T1.6	1	SNA
26	DB61-01910A	BRACKET-WIRE	SECC-P,1.0T	1	SA
27	DB64-01231A	HANDLE	ABS,V0	3	SA
28	DB93-05954A	ASS'Y CONNECTOR WIRE-COMP	ASSY	1	SA
29	DB63-00691A	GUARD FAN	MSWR	2	SA

6 Electrical Parts List

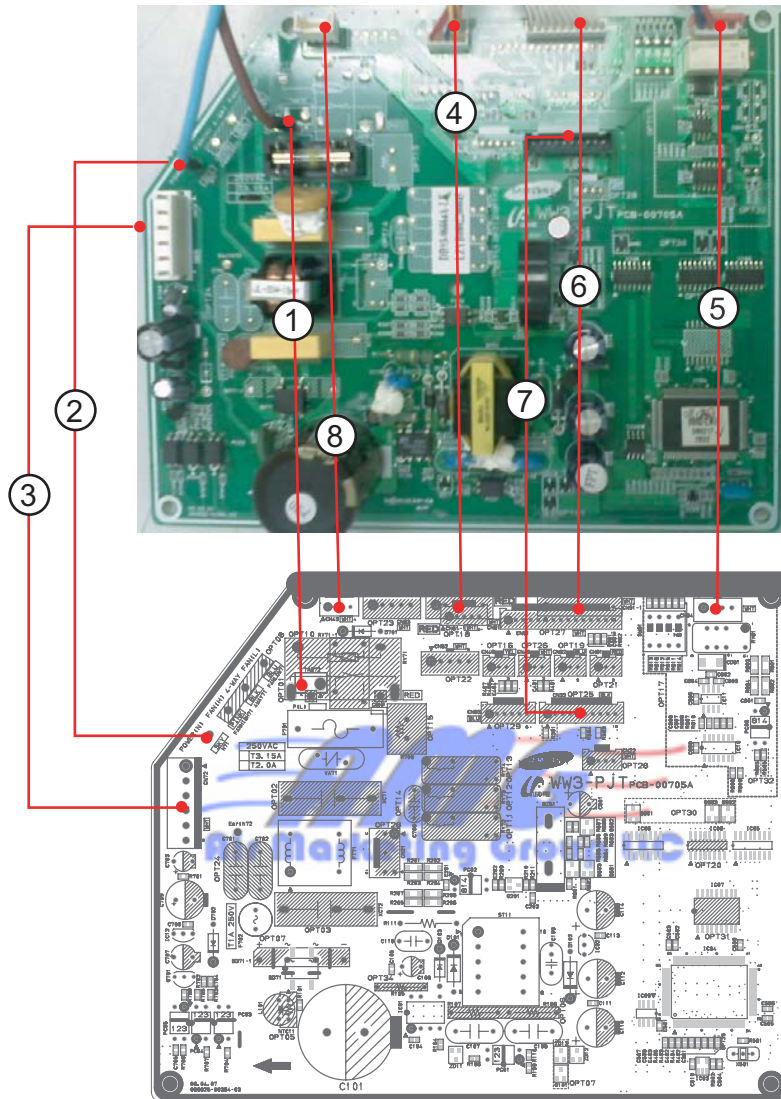
6-1 Ass'y Control In : DB93-06665A



■ Parts List

No	Code No.	Description	Specification	Q'ty	SN/SNA
1	DB93-06664A	ASSY-PCB MAIN	WW3	1	SA
2	DB93-04868A	ASSY MODULE PCB	WW3	1	SA
3	DB95-01113B	ASSY THERMISTOR	4P,245mm	1	SA
4	DB61-03220A	HOLDER-CLAMP IN	SGCC-M,1,2,60,62,WHITE	1	SNA
5	DB61-03219B	CASE CONTROL-IN	ABS,V5	1	SNA
6	DB61-01980A	HOLDER - WIRE CLAMP	ABS	1	SNA
7	DB61-03232A	BRACKET-EARTH	SGCC-M,1,13.5,44.6,BLACK	1	SNA
8	DB65-00004U	TERMINAL BLOCK	1(L),2(N),F1,F2	1	SA
9	6001-000725	SCREW	TH M4*L16	2	SNA
10	6001-000929	SCREW	PH M3*L22	1	SNA
11	6009-001001	SCREW	TH M4*L8	3	SNA
12	DB93-04864A	CONNRCIOR WIRE-EARTH	YEL/GRN	1	SNA
13	DB93-06673A	F1,F2	RED/BLU	1	SNA
14	DB68-02809A	LABEL BAR CODE	LABEL BAR CODE	1	SNA
15	DB98-27584A	ASSY-LABEL CAUTION	HP,INV,FOR KCV CONTROL	1	SNA

6-1-1 INDOOR MAIN PCB



1. TAB72 L Terminal Power input	2. N71 N Terminal Power input	3. CN72 Fan motor # 1. 310V # 2. NUL # 3. GND # 4. DC 15V # 5. FAN PWM # 6. FAN F/B	4. CN61-1 Blade motor # 1. DC12V # 2. Drive Signal 1 # 3. Drive Signal 2 # 4. Drive Signal 3 # 5. Drive Signal 4
5. CN84 # 1. F2 # 2. F1 # 3. DC 12V # 4. GND	6. CN91-1 Display # 1. Grid_2 # 2. Grid_1 # 3. Grid_0 # 4. Data # 5. Data # 6. Switch # 7. NUL # 8. Vout # 9. GND # 10. DC 5V	7. CN32 Download # 1. Rxd # 2. Txd # 3. NUL # 4. NUL # 5. NUL # 6. Flash mode2 # 7. DC 5V # 8. Flash mode0 # 9. GND # 10. DC 5V	8. CN43 Sensor # 1. Room Sensor # 2. GND # 3. Pipe Sensor # 4. GND

■ MAIN PCB : DB93-06664A

Location No.	Code No.	Description	Specification	Q'ty	SN/SNA
D103	0402-000137	DIODE-RECTIFIER	1N4007,1KV,1A,DO-41,TP	1	SNA
D702	0402-000137	DIODE-RECTIFIER	1N4007,1KV,1A,DO-41,TP	1	SNA
D101	0402-001194	DIODE-RECTIFIER	UG2D,200V,2A,DO-15,TP	1	SNA
D102	0402-001194	DIODE-RECTIFIER	UG2D,200V,2A,DO-15,TP	1	SNA
BD71	0402-001298	DIODE-BRIDGE	DF06S,600V,1A,SMD-4,TP	1	SNA
ZD11	0403-000252	DIODE-ZENER	BZX84C3V6,3.4-3.8V,350MW,SOT-23,TP	1	SNA
ZD13	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA
ZD12	0403-001285	DIODE-ZENER	BZX84-C11,10.4-11.6V,350mW	1	SNA
CD81	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4/-7.07V,600W,SMB	1	SNA
Q701	0501-000294	TR-SMALL SIGNAL	KSA708-Y,PNP,800mW,TO-92	1	SNA
Q201	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23	1	SNA
Q601	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23	1	SNA
Q603	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23	1	SNA
Q602	0501-002296	TR-SMALL SIGNAL	MMST2907A,PNP,200MW,SMT3	1	SNA
Q901	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K	1	SNA
Q902	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K	1	SNA
Q903	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K	1	SNA
Q101	0504-001064	TR-DIGITAL	DTC114EKA,NPN,200mW,10K/10K	1	SNA
IC05	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA
IC06	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA
IC08	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA
PC02	0604-001003	PHOTO-COUPLER	TR,50-150%,200mW,DIP-4,ST	1	SNA
PC01	0604-001038	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	1	SNA
PC03	0604-001038	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	1	SNA
PC04	0604-001038	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	1	SNA
PC05	0604-001038	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	1	SNA
IC10	0801-000393	IC-CMOS LOGIC	74HC86,OR GATE	1	SNA
IC11	1006-001371	IC-LINE TRANSCEIVER	ISL3175EIBZ,SOIC,8P	1	SNA
IC09	1103-001175	IC-EEPROM	93LC56,128x16	1	SNA
IC02	1203-000429	IC-POSI.FIXED REG.	78L05A	1	SNA
IC12	1203-001238	IC-POSI.ADJUST REG.	78L15	1	SNA
IC01	1203-002710	IC-PWM CONTROLLER	TNY267P,DIP,8P	1	SNA
IC03	1203-003334	IC-RESET	S-801	1	SNA
NTC11	1404-001274	THERMISTOR-NTC	22ohm,1.4A,3100K	1	SNA
VA71	1405-000160	VARISTOR	680V,4500A,17.5x6.5mm,TP	1	SNA
R111	2003-000448	R-METAL OXIDE(S)	100Kohm,5%,2W,AA,TP	1	SNA
R109	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA
R402	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R403	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R104	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	1	SNA
R605	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	1	SNA
R606	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	1	SNA
R210	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA

■ MAIN PCB : DB93-06664A(cont.)

R211	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R401	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R406	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R502	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R503	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R601	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R602	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R608	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R609	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R808	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R604	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA
R708	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA
R902	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA
R701	2007-000087	R-CHIP	6.8Kohm,5%,1/10W,TP,1608	1	SNA
R209	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R603	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R702	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R703	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R705	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R706	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R806	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R807	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R809	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R810	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R901	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R407	2007-000109	R-CHIP	1Mohm,5%,1/10W,TP,1608	1	SNA
R501	2007-000109	R-CHIP	1Mohm,5%,1/10W,TP,1608	1	SNA
R106	2007-000111	R-CHIP	6.8ohm,5%,1/10W,TP,1608	1	SNA
R607	2007-000119	R-CHIP	560ohm,5%,1/10W,TP,1608	1	SNA
R704	2007-000120	R-CHIP	680ohm,5%,1/10W,TP,1608	1	SNA
R707	2007-000120	R-CHIP	680ohm,5%,1/10W,TP,1608	1	SNA
R110	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	1	SNA
R201	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R202	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R203	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R204	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R205	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R206	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R207	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R208	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R504	2007-000962	R-CHIP	5.1Kohm,1%,1/10W,TP,1608	1	SNA
R404	2007-001068	R-CHIP	6.8Kohm,1%,1/10W,TP,1608	1	SNA
R405	2007-001068	R-CHIP	6.8Kohm,1%,1/10W,TP,1608	1	SNA
C115	2201-000983	C-CERAMIC,DISC	1NF,10%,2KV,Y5P,TP,9X5MM,7.5	1	SNA

■ MAIN PCB : DB93-06664A(cont.)

C107	2201-000987	C-CERAMIC,DISC	2.2NF,20%,400V	1	SNA
C108	2201-000987	C-CERAMIC,DISC	2.2NF,20%,400V	1	SNA
C109	2201-002193	C-CERAMIC,DISC	0.082nF,±10%,3000V,SL,-,8.5 X 3,5	1	SNA
C202	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA
C203	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA
C705	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA
C802	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA
C401	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,1608	1	SNA
C404	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,1608	1	SNA
C104	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C105	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C111	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C113	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C201	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C402	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C403	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C501	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C502	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C503	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C504	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C505	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C506	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C507	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C508	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C509	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C510	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C704	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C708	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C803	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C804	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C805	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C806	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C807	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C808	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C901	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
XC71	2301-001220	C-FILM,LEAD-PPF	100nF,10%,275V,BK,18x6x12,15	1	SNA
XC72	2301-001220	C-FILM,LEAD-PPF	100nF,10%,275V,BK,18x6x12,15	1	SNA
C110	2401-000038	C-AL	470uF,20%,25V,GP,TP,10x12.5mm,	1	SNA
C112	2401-000038	C-AL	470uF,20%,25V,GP,TP,10x12.5mm,	1	SNA
C114	2401-000038	C-AL	470uF,20%,25V,GP,TP,10x12.5mm,	1	SNA
C101	2401-000345	C-AL	100uF,20%,450V,GP,TP,25x31,10m	1	SNA
C106	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA
C703	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA
C601	2401-002300	C-AL	47μF,20%,50V,GP,TP,6.3x11,5mm	1	SNA

■ MAIN PCB : DB93-06664A(cont.)

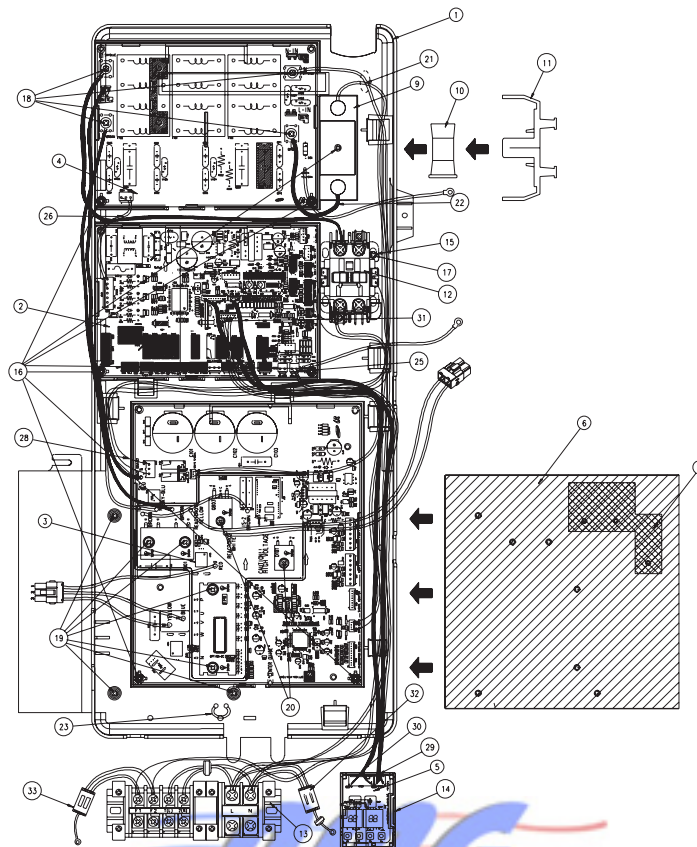
C707	2401-002300	C-AL	47μF,20%,50V,GP,TP,6.3x11,5mm	1	SNA
C709	2401-002598	C-AL	220uF,20%,50V,GP,TP,10x16,5	1	SNA
X501	2802-001179	RESONATOR-CERAMIC	4MHZ,0.5%,BK,8X3X5.5MM	1	SNA
BZ61	3002-001129	BUZZER-PIEZO	85DB,2KHZ	1	SNA
RY81	3501-001248	RELAY-MINIATURE	12V,-,11.7MA,DPDT,4MS,4MS	1	SNA
F701-1	3601-000263	FUSE-CARTRIDGE	250V,3.15A,TIME-LAG,GLASS,5x20mm	1	SNA
F702	3601-001209	FUSE-RADIAL LEAD	250V,1A,TIME-LAG,-,8.5x8mm	1	SNA
CN72	3711-000296	HEADER-BOARD TO CABLE	1WALL,6P,1R,3.96MM,STRAIGHT,WHT	1	SNA
CN84	3711-000940	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5mm,STRAIGHT,SN,WHT	1	SNA
CN43	3711-004379	HEADER-BOARD TO CABLE	BOX,4P,1R,2mm,STRAIGHT,SN,NTR	1	SNA
CN32	3711-005716	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,STRAIGHT,SN,BLK	1	SNA
ST11	DB26-00071A	TRANS SWITCHING	EE1916-V10	1	SNA
FT71	DB27-00017A	COIL CHOKE	USAV-07153,UU1116,15.0mH	1	SNA
POWER(N)	DB39-01270E	CONNECT WIRE	WW2-P/J,#1015 18 AWG,-,1P,-,BLU	1	SNA
P(L)	DB39-01270K	CONNECT WIRE	FORTE-P/J,#1015 18 AWG,-,1P,170,BRN	1	SNA
PCB BOARD	DB41-00705A	PCB MAIN	INV-WW3,FR-4,2,1.0,T1.6,140*170	1	SNA
F701	DB61-00924A	HOLDER-FUSE	FH-51B	1	SNA
IC04	DB91-00700A	ASSY-MIC	WW3 inverter Micom,Program Data	1	SNA
	DB09-00338A	IC MICOM	MB90F823	1	SNA
CN91-1	DB93-04865A	ASSY CONNECTOR WIRE	WW3-P/J,TO SUB,SSEC	1	SNA
CN61-1	DB93-05316A	ASSY CONNECTOR WIRE	WW3-P/J,SSEC	1	SNA

AMG
Air Marketing Group LLC

■ SUB PCB : DB93-04868A

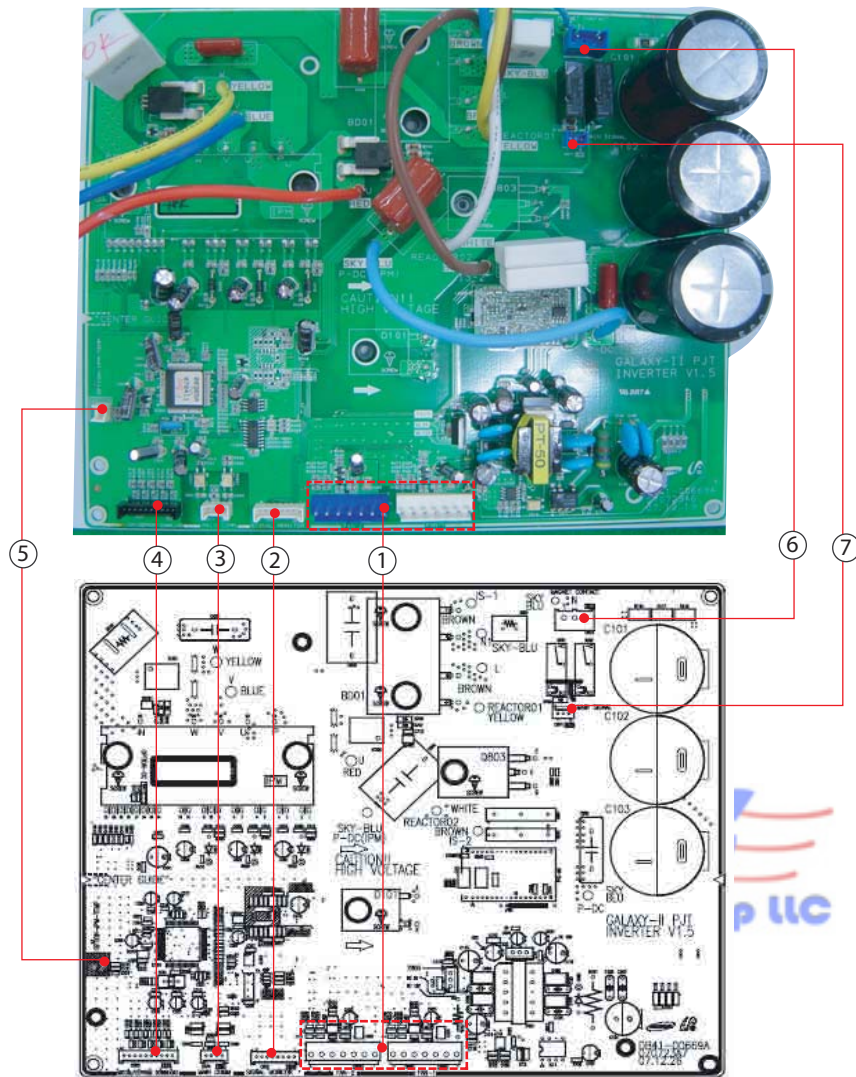
Location No.	Code No.	Description	Specification	Q'ty	SN/SNA
D01	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,TP	1	SNA
RM01	0609-001202	MODULE REMOCON	HORIZONTAL,12.4mm,TR	1	SNA
R04	2001-000793	R-CARBON	470HM,5%,1/8W,AA,TP,1.8X3.2MM	1	SNA
R02	2003-000455	R-METAL OXIDE(S)	100ohm,5%,2W,AA,TP,4x12mm	1	SNA
R03	2003-000455	R-METAL OXIDE(S)	100ohm,5%,2W,AA,TP,4x12mm	1	SNA
C01	2202-000173	C-CERAMIC,MLC-AXIAL	1nF,10%,50V,Y5P,TP,2x2.3mm	1	SNA
C02	2202-000780	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,-,3.5x19mm	1	SNA
C03	2401-003107	C-AL	47uF,20%,16V,GP,TP,5x7,5	1	SNA
SW01	3404-001220	SWITCH-TACT	12V,50mA,160gf,6.1x6.1x5.0mm,SPST	1	SNA
CN02	3711-004068	HEADER-BOARD TO CABLE	BOX,5P,1R,2MM,ANGLE,SN,WHT	1	SNA
CN01	3711-004531	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,ANGLE,SN,WHT	1	SNA
R01	3812-001283	WIRE-NO SHEATH CU	TCWA,300V,52mm(TAPING),1/0.6mm	1	SNA
PCB BOARD	DB41-00553A	PCB SUB	WW3,FR-1,1.6T,35*55	1	SNA

6-2 Ass'y Control Out : DB93-06674A



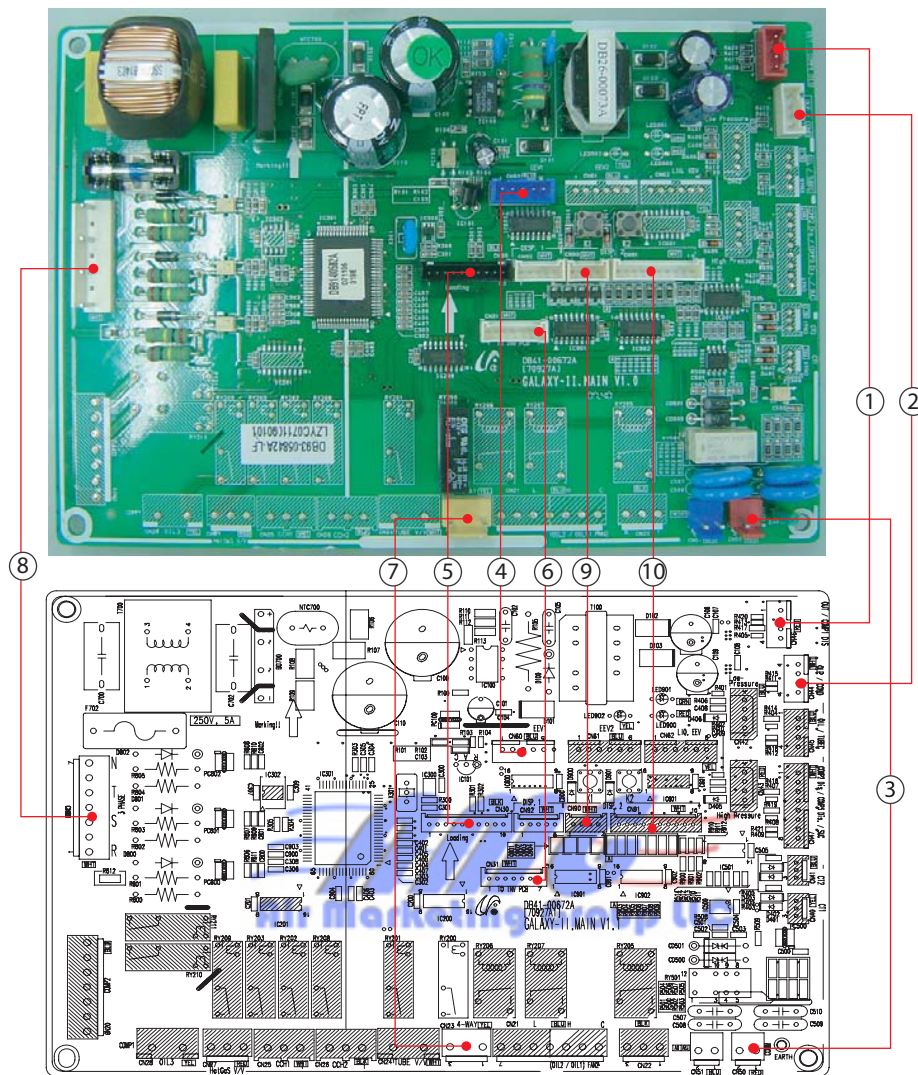
No	Code No.	Description	Specification	Q'ty	SN/SNA
1	DB61-03568B	CASE CONTROL-OUT	ABS,V5	1	SNA
2	DB93-06787A	OUT-MAIN-PBA	WW3	1	SN
3	DB93-06773A	OUT-INV-PBA	WW3	1	SN
4	DB93-05844B	OUT-EMI-PBA	WW3	1	SN
5	DB93-05955A	OUT-DISPLAY-PBA	Galuxy	1	SN
6	DB62-05407A	HEAT SINK		1	SNA
7	DB62-05533A	INSULATOR MICA		1	SNA
8	DB98-24813A	ASSY THERMAL GREASE		5g	SNA
9	3602-001043	FUSE-BLOCK	600V,60A	1	SNA
10	3601-001445	FUSE-CARTRIDGE	250VDC,600VAC,40A	1	SN
11	3602-001044	FUSH COVER	600V,60A	1	SNA
12	DB35-00061A	RELAY	40A	1	SN
13	DB95-01315G	TERMINAL BLOCK[F1,F2,1(L),2(N) L,N]		1	SN
14	DB61-01948A	CASE-SUB PCB		1	SNA
15	DB60-00321A	FASTENER-NUT		1	SNA
16	6002-000536	SCREW-TAPPING	PH,+,2S,M4,ZPC(YEL)	7	SNA
17	6001-001683	SCREW	HHW,+,M4,L12	1	SNA
18	6003-001150	SCREW-TAPTITE	M5,L12	4	SNA
19	DB91-00307A	ASSY-SCREW MACHINE	M4*16	7	SNA
20	DB91-00306A	ASSY-SCREW MACHINE	M3*16	2	SNA
21	DB93-06326A	ASSY CONNECTOR WIRE FUSE TO EMI		1	SNA
22	DB93-06327A	ASSY CONNECTOR WIRE POWER INV-EMI	150mm	1	SNA
23	DB71-50031B	HOLDER WIRE		1	SNA
25	DB93-06331A	ASSY CONNECTOR WIRE COMM	520mm	1	SNA
26	DB93-06332A	ASSY CONNECTOR WIRE-POWER (EMI-MAIN)	120mm	1	SNA
28	DB93-06336A	ASSY CONNECTOR WIRE-POWER (INV~M/G SWITCH)	540mm	1	SNA
29	DB93-06324A	ASSY CONNECTOR WIRE-DISPLAY, 4P	520mm	1	SNA
30	DB93-06325A	ASSY CONNECTOR WIRE-DISPLAY, 10P	500mm	1	SNA
31	DB93-06337A	ASSY CONNECTOR WIRE MAIN INVERTER		1	SNA
32	DB95-01040H	ASSY NOISE ABSOREBER		1	SNA
33	DB93-01469S	ASSY PCB SUB-EMI		1	SNA

■ 6-2-1 OUTDOOR INVERTER PCB



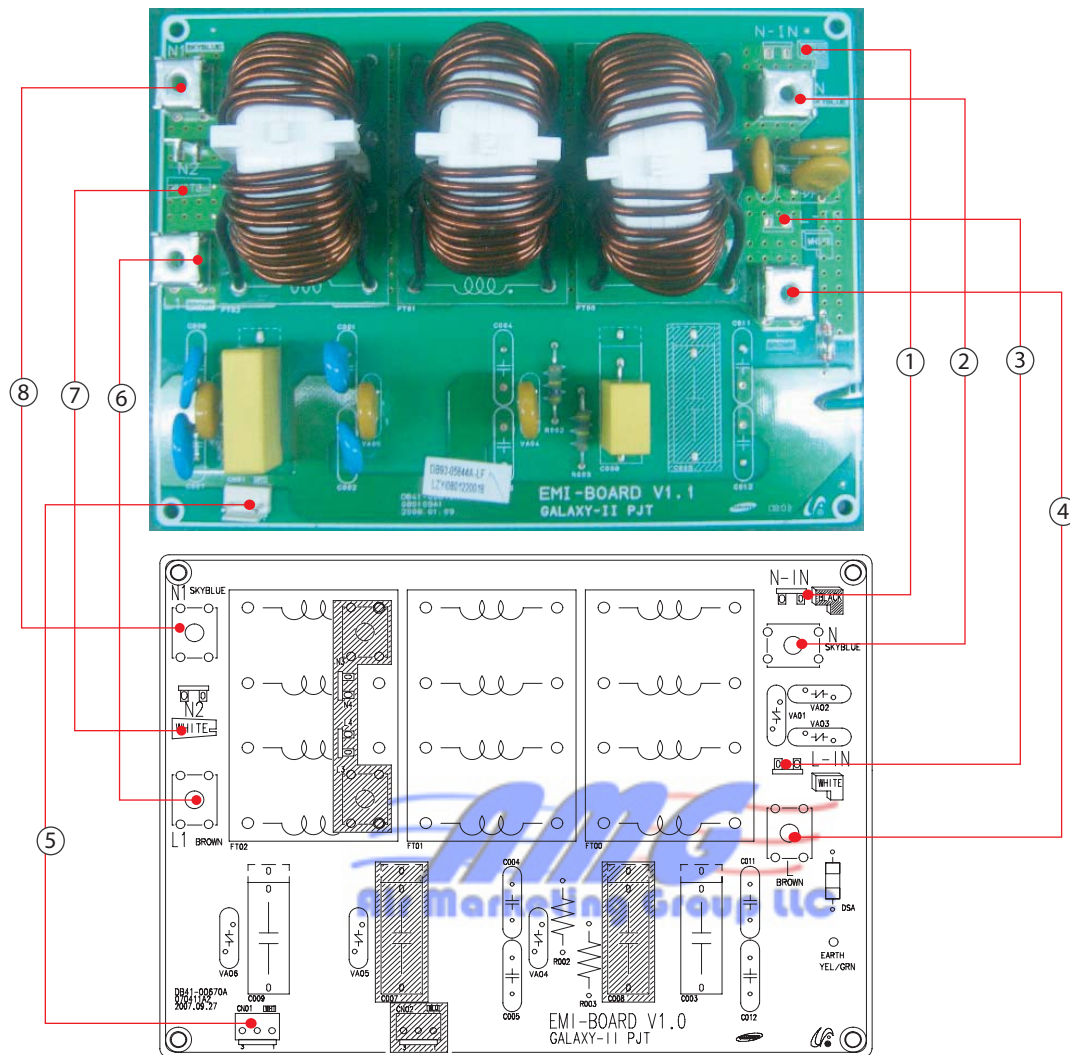
① CN40,CN41(7PIN/WHT) : BLDC FAN MOTOR #1: DC LINK VOLTAGE #2: Not used #3: GND, #4: 15V #5: FAN RPM Sensing #6: FAN FG #7: FAN Backlash Sensing	② CN31(8PIN/WHT) :SIGNAL MONITOR #1: 16V, #2: 5V #3: LOADDACCs, #4: CS_DAC1 #5: CS_DAC2, #6: CLK_DAC #7: DATA_DAC, #8: GND	③ CN70(4PIN/WHT) #1: TXD_MAIN #2: RXD_MAIN #3: GND #4: 5V	④ CN30(10PIN/WHT) :DOWNLOADING
⑤ CN72(2IPN/WHT): IPM TEMP #1: TXD_IPM TEMP SIGNAL #2: GND	⑥ CN22(2PIN/WHT) #1: L phase IN #2: N phase IN	⑦ CN71(3PIN/BLU) #1: 12V #2: INV_SMPS_RELAY #3: Not used	

6-2-2 OUTDOOR MAIN PCB



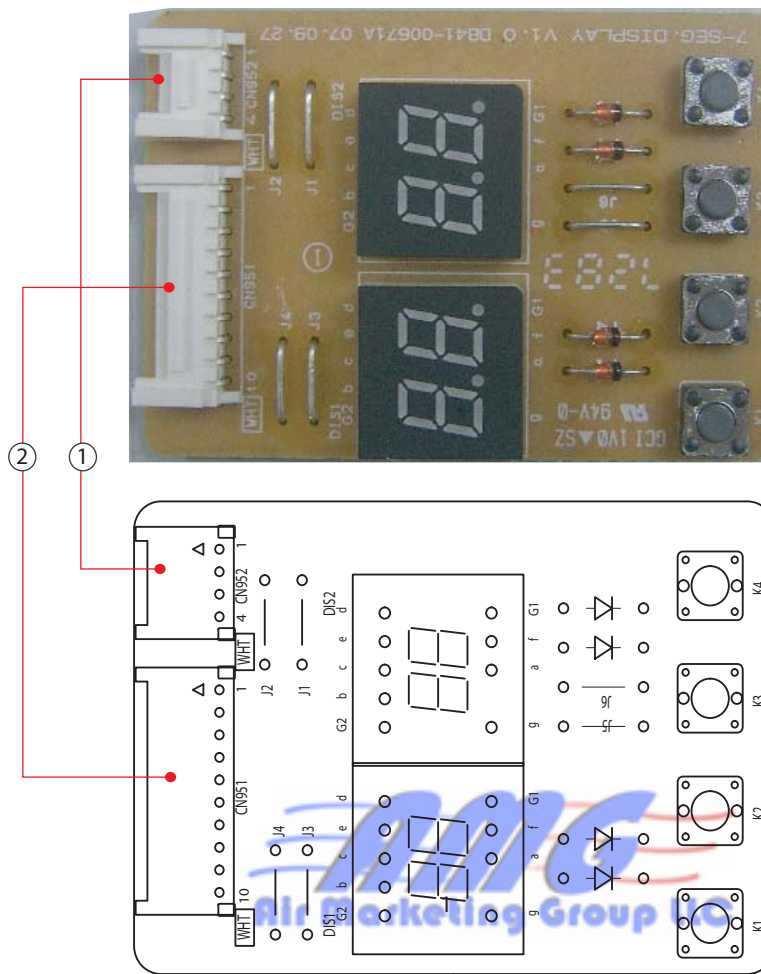
① CN46(4PIN/RED) :THERMISTOR #1: TXD_OUTDOOR TEMP. Sensing #3: TXD_DISCHARGE TEMP. Sensing #2,4: GND	② CN44(4PIN/WHT) :THERMISTOR #1,2: Not used #3: TXD_COND. TEMP. Sensing #4: GND	③ CN50(2PIN/RED) :COMMUNICATION #1,2: TXD/RXD_COMM.	④ CN60(5PIN/BLU): EEV #1~4: RXD_EEV Operating Signal #5: 12V
⑤ CN30(10PIN/BLK) :DOWNLOADING	⑥ CN31(7PIN/WHT) :INVERTER PBA #1: TXD_MAIN, #2: RXD_MAIN #3: GND, #4:VCC #5: 12V, #6: INV_SMPS_RELAY #7: Not used	⑦ CN23(3PIN/YEL): 4WAY #1: N phase #2: Not used #3: TXD_4WAY Operating Signal	⑧ CN80(4PIN/WHT) : POWER IN #1,3: Not used #5: L phase #7: N phase
⑨ CN90(4PIN/WHT): DISPLAY #1~4: RXD_Operating Signal of MAIN PCB	⑩ CN91(10PIN/WHT): DISPLAY #1~7: 7-SEGMENT #8~10: TXD_KEY INPUT SIGNAL		

■ 6-2-3 OUTDOOR EMI PCB



① N-IN(BLK) INDOOR UNIT POWER (N phase)	② N(SKYBLU) POWER(N phase)	③ L-IN(WHT) INDOOR UNIT POWER (L phase)	④ L(BRN) POWER(L phase)
⑤ CN01(3PIN/WHT) #1: N phase POWER of MAIN PBA #2: Not used #3: L phase POWER of MAIN PBA	⑥ L1(BRN) L phase POWER of INVERTER PBA	⑦ N2(TAB/WHT) N phase POWER of INVERTER PBA	⑧ N1(SKYBLU) N phase POWER to M/C

■ 6-2-4 OUTDOOR DISPLAY PCB



① #1~4 RXD-Operating signal of main PCB	○ #1~7:7-segment #8~10:TXD-KEY INPUT SIGNAL
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■ Outdoor Inverter PCB : DB93-06773A

Location No.	Code No.	Description	Specification	Q'ty	SN/SNA
D100	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA
D700	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA
D701	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA
D702	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA
D703	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA
D102	0402-000351	DIODE-RECTIFIER	1N4937,600V,1A,DO-41,TP	1	SNA
D401	0402-000351	DIODE-RECTIFIER	1N4937,600V,1A,DO-41,TP	1	SNA
D402	0402-000351	DIODE-RECTIFIER	1N4937,600V,1A,DO-41,TP	1	SNA
D403	0402-000351	DIODE-RECTIFIER	1N4937,600V,1A,DO-41,TP	1	SNA
D103	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA
D104	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA
D105	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA
D106	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA
BD01	0402-001771	DIODE-BRIDGE	D50XB80,800V,50A,SIP-4,TP	1	SNA
D101	0402-001772	DIODE-RECTIFIER	RURG5060,600V,50A,TO-247,TP	1	SNA
ZD300	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA
ZD301	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA
ZD700	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA
ZD701	0403-000258	DIODE-ZENER	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	1	SNA
Q401	0501-002113	TR-SMALL SIGNAL	BC847B,NPN,330mW,SOT-23,TP,200	1	SNA
Q403	0501-002113	TR-SMALL SIGNAL	BC847B,NPN,330mW,SOT-23,TP,200	1	SNA
IC200	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA
LED202	0601-001816	LED	SMD,Y-GRN,1.6X0.8X0.55MM,570NM,1.6X0.8X0	1	SNA
LED203	0601-001954	LED	SMD,YEL,1.6X0.8X0.8MM,587NM,1.6X0.8X0.8MM	1	SNA
LED201	0601-002345	LED	SMD,RED,1.6x0.8x0.55mm,660nm,1.6x0.8x0	1	SNA
IC501	0604-001002	PHOTO-COUPLER	TR,100-600%,200mW,SOP-4,TP	1	SNA
IC502	0604-001002	PHOTO-COUPLER	TR,100-600%,200mW,SOP-4,TP	1	SNA
IC12	0604-001172	PHOTO-COUPLER	TR,100-300,200mW,SOP,TP	1	SNA
IC16	1203-000274	IC-POSI.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	SNA
IC19	1203-000274	IC-POSI.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	SNA
IC13	1203-002948	IC-POSI.ADJUST REG.	TL431ACD,SOP,8P,4.9X3.9MM	1	SNA
IC11	1203-003527	IC-PWM CONTROLLER	TOP243,DIP,7P,9.83x6.6mm	1	SNA
R107	2003-000708	R-METAL OXIDE(S)	47ohm,5%,1W,AA,TP,3.3x9mm	1	SNA
R101	2003-000855	R-METAL OXIDE(S)	47Kohm,5%,3W,AA,TP,6x16mm	1	SNA
R001	2006-001080	R-CEMENT(S)	200ohm,5%,5W,CB,BK,13x9x25.5mm	1	SNA
R901	2006-001164	R-CEMENT	0.02ohm,5%,5W,CB,BK,26x5x17mm	1	SNA
R902	2006-001164	R-CEMENT	0.02ohm,5%,5W,CB,BK,26x5x17mm	1	SNA
R440	2006-001165	R-CEMENT	0.007ohm,5%,20W,CB,BK,23x13x38mm	1	SNA
R821	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	1	SNA
R822	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	1	SNA
R321	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	SNA
R322	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	SNA
R326	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	1	SNA
R361	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	1	SNA
R312	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R346	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R347	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R348	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R432	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R434	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R500	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R502	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R323	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	1	SNA
R342	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	1	SNA
R349	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R422	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R423	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R428	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
R472	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	SNA
RA	2007-000080	R-CHIP	2Kohm,5%,1/10W,TP,1608	1	SNA
R315	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA
R324	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA

■ Outdoor Inverter PCB : DB93-06773A(Con.)

R325	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA
R327	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA
R328	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA
R407	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	SNA
R301	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R302	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R309	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R311	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R313	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R316	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R317	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R318	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R329	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R330	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R331	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R332	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R333	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R334	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R335	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R336	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R337	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R344	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R345	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R400	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R409	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R421	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R424	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R426	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R431	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R433	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R435	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R805	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R906	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R907	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	1	SNA
R408	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	SNA
R410	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	SNA
R429	2007-000113	R-CHIP	33ohm,5%,1/10W,TP,1608	1	SNA
R814	2007-000221	R-CHIP	1.2Kohm,5%,1/8W,TP,2012	1	SNA
R815	2007-000221	R-CHIP	1.2Kohm,5%,1/8W,TP,2012	1	SNA
R106	2007-000263	R-CHIP	1.82Kohm,1%,1/8W,TP,2012	1	SNA
R401	2007-000290	R-CHIP	100ohm,5%,1/8W,TP,2012	1	SNA
R402	2007-000290	R-CHIP	100ohm,5%,1/8W,TP,2012	1	SNA
R403	2007-000290	R-CHIP	100ohm,5%,1/8W,TP,2012	1	SNA
R404	2007-000290	R-CHIP	100ohm,5%,1/8W,TP,2012	1	SNA
R405	2007-000290	R-CHIP	100ohm,5%,1/8W,TP,2012	1	SNA
R406	2007-000290	R-CHIP	100ohm,5%,1/8W,TP,2012	1	SNA
R115	2007-000385	R-CHIP	14.3Kohm,1%,1/4W,TP,3216	1	SNA
R501	2007-000465	R-CHIP	1Kohm,1%,1/8W,TP,2012	1	SNA
R503	2007-000465	R-CHIP	1Kohm,1%,1/8W,TP,2012	1	SNA
R103	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA
R820	2007-000477	R-CHIP	1Mohm,5%,1/8W,TP,2012	1	SNA
R201	2007-000493	R-CHIP	2.2Kohm,5%,1/8W,TP,2012	1	SNA
R202	2007-000493	R-CHIP	2.2Kohm,5%,1/8W,TP,2012	1	SNA
R203	2007-000493	R-CHIP	2.2Kohm,5%,1/8W,TP,2012	1	SNA
R722	2007-000613	R-CHIP	24Kohm,1%,1/8W,TP,2012	1	SNA
R104	2007-000686	R-CHIP	3.3Kohm,5%,1/8W,TP,2012	1	SNA
R721	2007-000763	R-CHIP	330ohm,1%,1/10W,TP,1608	1	SNA
R112	2007-000924	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	SNA
R113	2007-000924	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	SNA
R114	2007-000924	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	SNA
R412	2007-000929	R-CHIP	470ohm,1%,1/10W,TP,1608	1	SNA
R425	2007-001067	R-CHIP	6.8Kohm,1%,1/8W,TP,2012	1	SNA
R430	2007-001067	R-CHIP	6.8Kohm,1%,1/8W,TP,2012	1	SNA
R102	2007-001074	R-CHIP	6.8ohm,5%,1/8W,TP,2012	1	SNA

■ Outdoor Inverter PCB : DB93-06773A(Con.)

R105	2007-001222	R-CHIP	9.09Kohm,1%,1/8W,TP,2012	1	SNA
R905	2007-002667	R-CHIP	90.9Kohm,1%,1/4W,TP,3216	1	SNA
R116	2007-008261	R-CHIP	150Kohm,1%,1/2W,TP,5025	1	SNA
R117	2007-008261	R-CHIP	150Kohm,1%,1/2W,TP,5025	1	SNA
R118	2007-008261	R-CHIP	150Kohm,1%,1/2W,TP,5025	1	SNA
R903	2007-008261	R-CHIP	150Kohm,1%,1/2W,TP,5025	1	SNA
R904	2007-008261	R-CHIP	150Kohm,1%,1/2W,TP,5025	1	SNA
C105	2201-000322	C-CERAMIC,DISC	2.2NF,10%,2KV,Y5P,TP,13X5MM,10	1	SNA
C106	2201-000322	C-CERAMIC,DISC	2.2NF,10%,2KV,Y5P,TP,13X5MM,10	1	SNA
C109	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA
C112	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA
C116	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA
C117	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA
C121	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA
C824	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA
C825	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA
C200	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C301	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C302	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C311	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C312	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C313	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C323	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C324	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C327	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C361	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C404	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C406	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C408	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C410	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C418	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C425	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C426	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C427	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C428	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C429	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C430	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C431	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C713	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C714	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C721	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C906	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C907	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C411	2203-000239	C-CER,CHIP	0.1nF,5%,50V,C0G,2012	1	SNA
C412	2203-000239	C-CER,CHIP	0.1nF,5%,50V,C0G,2012	1	SNA
C413	2203-000239	C-CER,CHIP	0.1nF,5%,50V,C0G,2012	1	SNA
C414	2203-000239	C-CER,CHIP	0.1nF,5%,50V,C0G,2012	1	SNA
C415	2203-000239	C-CER,CHIP	0.1nF,5%,50V,C0G,2012	1	SNA
C416	2203-000239	C-CER,CHIP	0.1nF,5%,50V,C0G,2012	1	SNA
C328	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA
C407	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,2012	1	SNA
C409	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,2012	1	SNA
C500	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,2012	1	SNA
C501	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,2012	1	SNA
C502	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,2012	1	SNA
C108	2203-001414	C-CER,CHIP	330nF,10%,50V,X7R,2012	1	SNA
C308	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608	1	SNA
C318	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608	1	SNA
C319	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608	1	SNA
C320	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608	1	SNA
C321	2203-002002	C-CER,CHIP	33pF,5%,50V,NPO,BK,1608	1	SNA
C419	2203-002398	C-CER,CHIP	22nF,10%,50V,X7R,1608	1	SNA
C420	2203-002398	C-CER,CHIP	22nF,10%,50V,X7R,1608	1	SNA
C801	2203-002398	C-CER,CHIP	22nF,10%,50V,X7R,1608	1	SNA

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C306	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C316	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,1608	1	SNA
C113	2203-005261	C-CER,CHIP	1000nF,10%,25V,X7R,3216	1	SNA
C122	2203-005261	C-CER,CHIP	1000nF,10%,25V,X7R,3216	1	SNA
C400	2203-006104	C-CER,CHIP	1000nF,10%,50V,X7R,3225	1	SNA
C424	2203-006104	C-CER,CHIP	1000nF,10%,50V,X7R,3225	1	SNA
C008	2301-001703	C-FILM,LEAD	1000nF,5%,630V,BK,30X23X15	1	SNA
C810	2301-001703	C-FILM,LEAD	1000nF,5%,630V,BK,30X23X15	1	SNA
C422	2306-000123	C-FILM,LEAD-PPF	100nF,5%,630V,BK,26x16.5x8.5,2	1	SNA
C809	2306-000123	C-FILM,LEAD-PPF	100nF,5%,630V,BK,26x16.5x8.5,2	1	SNA
C904	2401-000027	C-AL	4.7uF,20%,50V,GP,TP,5x11,5	1	SNA
C123	2401-000303	C-AL	100uF,20%,25V,WT,TP,6.3x11mm,5mm	1	SNA
C124	2401-000470	C-AL	10uF,20%,450V,GP,TP,13x20mm,5m	1	SNA
C300	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA
C305	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA
C309	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA
C315	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA
C317	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA
C322	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA
C325	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA
C402	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA
C405	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1	SNA
C110	2401-000832	C-AL	220uF,20%,25V,GP,TP,8x11.5,5	1	SNA
C114	2401-000832	C-AL	220uF,20%,25V,GP,TP,8x11.5,5	1	SNA
C119	2401-000832	C-AL	220uF,20%,25V,GP,TP,8x11.5,5	1	SNA
C107	2401-001552	C-AL	47uF,20%,35V,GP,TP,6.3x11,2,5	1	SNA
C421	2401-002274	C-AL	220uF,20%,35V,WT,TP,10x12.5,5	1	SNA
C118	2401-002300	C-AL	47uF,20%,50V,GP,TP,6.3x11,5mm	1	SNA
C401	2401-002300	C-AL	47uF,20%,50V,GP,TP,6.3x11,5mm	1	SNA
C403	2401-002300	C-AL	47uF,20%,50V,GP,TP,6.3x11,5mm	1	SNA
C423	2401-002300	C-AL	47uF,20%,50V,GP,TP,6.3x11,5mm	1	SNA
C905	2401-002400	C-AL	3.3UF,20%,50V,WT,TP,5X11,5	1	SNA
C101	2401-004278	C-AL	560uF,+-20%,400V,LGU,-,50*35,10mm	1	SNA
C102	2401-004278	C-AL	560uF,+-20%,400V,LGU,-,50*35,10mm	1	SNA
C103	2401-004278	C-AL	560uF,+-20%,400V,LGU,-,50*35,10mm	1	SNA
Y30	2802-001198	RESONATOR-CERAMIC	10MHZ,0.5%,BK,8X3X5.5MM	1	SNA
RY01	3501-001154	RELAY-MINIATURE	12Vdc,200mW,3000mA,1FormA,10mS,10mS	1	SNA
RY02	3501-001154	RELAY-MINIATURE	12Vdc,200mW,3000mA,1FormA,10mS,10mS	1	SNA
CN41	3711-000319	CONNECTOR-HEADER	1WALL,7P,1R,3.96mm,STRAIGHT,SN,BLU	1	SNA
CN40	3711-000321	HEADER-BOARD TO CABLE	1WALL,7P,1R,3.96MM,STRAIGHT,SN,WHT	1	SNA
CN31	3711-003843	HEADER-BOARD TO CABLE	BOX,8P,1R,2mm,STRAIGHT,SN,WHT	1	SNA
CN72	3711-003942	HEADER-BOARD TO CABLE	BOX,2P,1R,2mm,STRAIGHT,SN,WHT	1	SNA
CN70	3711-004379	HEADER-BOARD TO CABLE	BOX,4P,1R,2mm,STRAIGHT,SN,NTR	1	SNA
CN71	3711-005206	HEADER-BOARD TO CABLE	BOX,3P,1R,2MM,STRAIGHT,SN,BLU	1	SNA
CN30	3711-005716	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,STRAIGHT,SN,BLK	1	SNA
CN22	3711-006053	HEADER-BOARD TO BOARD	BOX,2P,1R,7.92mm,STRAIGHT,SN,BLU	1	SNA
Q400	DB13-00003A	IC DRIVER GATE	-,SOT-23,-,1P,1P,0.2mm,2.93x1.3mm	1	SNA
Q402	DB13-00003A	IC DRIVER GATE	-,SOT-23,-,1P,1P,0.2mm,2.93x1.3mm	1	SNA
PT02	DB26-00075A	TRANS SWITCHING	PT-50,AQV18FA,-,90~275V,FERRITE,EI2218	1	SNA
IC700	DB32-00184A	SENSOR MAG-CT SENSOR	ACS754LCB-050-PFF,RIBHF040B1,50A	1	SNA
IC701	DB32-00184A	SENSOR MAG-CT SENSOR	ACS754LCB-050-PFF,RIBHF040B1,50A	1	SNA
PCB BOARD	DB41-00669A	PCB MAIN-INVERTER	GALAXY 2 PJT,FR-4,2,V1.1,T1.6	1	SNA
J101	DB47-90005A	JUMPER WIRE	TA0.6PI/52MM,P0509-400-108	1	SNA
IC301	DB91-00574B	ASSY-MIC	WW3 OUTDOOR Inv Micom,STM-0753-B5	1	SNA
	DB09-00517A	IC MICOM	MN103FA7K,-,80P,+5V,10 MHz,ROM Size: 256K bytes	1	SNA
IC303	DB91-00705A	ASSY-EEPROM OUT	INV-WW3 36K,SSEC, 512byte	1	SNA
	1103-001038	IC-EEPROM	93LC66,4KBIT,256X16BIT,SOP,8P	1	SNA
N1	DB93-06328B	ASSY CONNECTOR WIRE-POWER	UH140EAV,SSEC,UL1015,AWG12,460÷10,SKY-BLU	1	SNA
U,V,W	DB93-06343A	ASSY CONNECTOR WIRE-COMP	UH140EAV,SSEC,UL1015,AWG12,120÷10,BLK	1	SNA
PEACTOR01,02	DB93-06348A	ASSY CONNECTOR WIRE-REACTOR	UH140EAV,SSEC,UL1015,AWG12,500÷10,BLK	1	SNA
L,N	DB93-06392A	ASSY CONNECTOR WIRE-POWER	UH140EAV,SSEC,UL1015,AWG18/12,WHT	1	SNA
IS-1 TO IS-2	DB93-06393A	ASSY CONNECTOR WIRE-JUMP	UH140EAV,SSEC,UL1015,AWG12,170÷10	1	SNA
PDC to PDC	DB93-06393B	ASSY CONNECTOR WIRE-JUMP	UH140EAV,SSEC,UL1015,AWG12,170÷10	1	SNA
IPM	DB95-00630A	ASSY-IPM	MH080FXEA4,PS21869-P	1	SNA

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PFC-HIC Q803	DB95-01471A DB98-16589A	ASSY-PFC MODULE ASSY-IGBT	UH140EAV,PFC MODULE SGL160N60UF	1 1	SNA SNA
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■ Outdoor Main PCB : DB93-06787A

Location No.	Code No.	Description	Specification	Q'ty	SN/SNA
D400	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA
D401	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA
D402	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA
D403	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA
D405	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA
D406	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA
D900	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA
D901	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA
BD700	0402-000324	DIODE-BRIDGE	D3SB60,600V,4A,SIP-4,ST	1	SNA
D100	0402-000351	DIODE-RECTIFIER	1N4937,600V,1A,DO-41,TP	1	SNA
D101	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA
D102	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA
D103	0402-001427	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	SNA
CD500	0406-001109	DIODE-TVS	SAC5.0,7.6/-V,500W,DO-15	1	SNA
CD501	0406-001109	DIODE-TVS	SAC5.0,7.6/-V,500W,DO-15	1	SNA
Q901	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA
Q902	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA
Q903	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA
Q904	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA
IC200	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA
IC600	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA
IC901	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA
IC902	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA
PC100	0604-001002	PHOTO-COUPLER	TR,100-600%,200mW,SOP-4,TP	1	SNA
PC500	0604-001148	PHOTO-COUPLER	TR,50-600%,200mW,SMD-4,TP	1	SNA
IC501	0801-000393	IC-CMOS LOGIC	74HC86,OR GATE,SOP,14P,150MIL	1	SNA
IC500	1006-001371	IC-LINE TRANSCEIVER	ISL3175EIBZ,SOIC,8P,6.2x5.0x1.75	1	SNA
IC101	1203-000340	IC-VOL. REFERENCE	431,TO-92,3P,-,PLASTIC,36V,770	1	SNA
IC300	1203-003334	IC-RESET	S-801,SOT-23,5P,2.9x1.6mm	1	SNA
IC100	1203-003527	IC-PWM CONTROLLER	TOP243,DIP,7P,9.83x6.6mm	1	SNA
NTC700	1404-001377	THERMISTOR-NTC	10ohm,4A,3100K,20mW/C,15,BK	1	SNA
R105	2003-000855	R-METAL OXIDE(S)	47Kohm,5%,3W,AA,TP,6x16mm	1	SNA
R101	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SNA
R508	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SNA
R401	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R402	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R404	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R405	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R407	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R408	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R409	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R411	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R412	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R413	2007-000076	R-CHIP	330ohm,5%,1/10W,TP,1608	1	SNA
R406	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA
R410	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA
R509	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA
R510	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA
R511	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA
R512	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA
R513	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA
R514	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA
R806	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA
R807	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA
R808	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA
R415	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA
R418	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA
R420	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA
R421	2007-000455	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	SNA

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R300	2007-000465	R-CHIP	1Kohm,1%,1/8W,TP,2012	1	SNA
R301	2007-000465	R-CHIP	1Kohm,1%,1/8W,TP,2012	1	SNA
R302	2007-000465	R-CHIP	1Kohm,1%,1/8W,TP,2012	1	SNA
R303	2007-000465	R-CHIP	1Kohm,1%,1/8W,TP,2012	1	SNA
R400	2007-000465	R-CHIP	1Kohm,1%,1/8W,TP,2012	1	SNA
R403	2007-000465	R-CHIP	1Kohm,1%,1/8W,TP,2012	1	SNA
R414	2007-000613	R-CHIP	24Kohm,1%,1/8W,TP,2012	1	SNA
R416	2007-000613	R-CHIP	24Kohm,1%,1/8W,TP,2012	1	SNA
R417	2007-000613	R-CHIP	24Kohm,1%,1/8W,TP,2012	1	SNA
R419	2007-000613	R-CHIP	24Kohm,1%,1/8W,TP,2012	1	SNA
R102	2007-000682	R-CHIP	3.3Kohm,1%,1/8W,TP,2012	1	SNA
R809	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA
R810	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA
R811	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA
R110	2007-000924	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	SNA
R111	2007-000924	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	SNA
R112	2007-000924	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	SNA
R113	2007-000924	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	SNA
R304	2007-000938	R-CHIP	47Kohm,1%,1/8W,TP,2012	1	SNA
R305	2007-000938	R-CHIP	47Kohm,1%,1/8W,TP,2012	1	SNA
R500	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R501	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R502	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R503	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R504	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R505	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R506	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R507	2007-000944	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	SNA
R900	2007-000964	R-CHIP	5.1Kohm,5%,1/8W,TP,2012	1	SNA
R901	2007-000964	R-CHIP	5.1Kohm,5%,1/8W,TP,2012	1	SNA
R902	2007-000964	R-CHIP	5.1Kohm,5%,1/8W,TP,2012	1	SNA
R100	2007-001074	R-CHIP	6.8ohm,5%,1/8W,TP,2012	1	SNA
R910	2007-001177	R-CHIP	8.2Kohm,5%,1/8W,TP,2012	1	SNA
R911	2007-001177	R-CHIP	8.2Kohm,5%,1/8W,TP,2012	1	SNA
R912	2007-001177	R-CHIP	8.2Kohm,5%,1/8W,TP,2012	1	SNA
R903	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA
R904	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA
R905	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA
R906	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA
R907	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA
R908	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA
R909	2007-001318	R-CHIP	1Kohm,5%,1/4W,TP,3216	1	SNA
R106	2007-007459	R-CHIP	470Kohm,5%,1/2W,TP,5025	1	SNA
R107	2007-007459	R-CHIP	470Kohm,5%,1/2W,TP,5025	1	SNA
R108	2007-007459	R-CHIP	470Kohm,5%,1/2W,TP,5025	1	SNA
R109	2007-007459	R-CHIP	470Kohm,5%,1/2W,TP,5025	1	SNA
C507	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5	1	SNA
C508	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5	1	SNA
C509	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5	1	SNA
C510	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5	1	SNA
C102	2201-000879	C-CERAMIC,DISC	2.2NF,10%,1KV,Y5P,BK,10X4MM,10	1	SNA
C105	2201-000879	C-CERAMIC,DISC	2.2NF,10%,1KV,Y5P,BK,10X4MM,10	1	SNA
C104	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C107	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C200	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C201	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C300	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C301	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C302	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C303	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C304	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C305	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C306	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C307	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA

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C308	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C309	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C400	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C401	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C402	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C403	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C404	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C405	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C406	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C407	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C408	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C409	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C500	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C502	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C503	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C504	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C505	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C600	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C601	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C800	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C801	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C802	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C901	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C902	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	1	SNA
C501	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,2012	1	SNA
C900	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,2012	1	SNA
C903	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,2012	1	SNA
C904	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,2012	1	SNA
C108	2203-000477	C-CER,CHIP	1000NF,+80-20%,16V,Y5V,TP,2012	1	SNA
C103	2203-001414	C-CER,CHIP	330nF,10%,50V,X7R,2012	1	SNA
C700	2306-001034	C-FILM,LEAD-PPF	100nF,10%,275V,TP,17.5x8.5x15,	1	SNA
C702	2306-001034	C-FILM,LEAD-PPF	100nF,10%,275V,TP,17.5x8.5x15,	1	SNA
C109	2401-000151	C-AL	1000uF,20%,25V,GP,TP,10x20,5	1	SNA
C106	2401-002274	C-AL	220uF,20%,35V,WT,TP,10x12.5,5	1	SNA
C101	2401-002300	C-AL	47uF,20%,50V,GP,TP,6.3x11,5mm	1	SNA
C100	2401-003861	C-AL	68UF,20%,400V,WT,TP,18X25MM,7.5	1	SNA
C110	2401-003861	C-AL	68UF,20%,400V,WT,TP,18X25MM,7.5	1	SNA
X301	2802-001179	RESONATOR-CERAMIC	4MHZ,0.5%,BK,8X3X5.5MM	1	SNA
K1	3404-001220	SWITCH-TACT	12V,50mA,160gf,6.1x6.1x5.0mm,SPST	1	SNA
K2	3404-001220	SWITCH-TACT	12V,50mA,160gf,6.1x6.1x5.0mm,SPST	1	SNA
RY200	3501-001154	RELAY-MINIATURE	12Vdc,200mW,3000mA,1FormA,10mS	1	SNA
RY501	3501-001248	RELAY-MINIATURE	12V,11.7MA,DPDT,4MS,4MS	1	SNA
F702	3601-001094	FUSE-CARTRIDGE	250V,5A,FAST-ACTING,GLASS,5.2x20mm	1	SNA
CN51	3711-000176	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96mm,STRAIGHT,SN,BLU	1	SNA
CN50	3711-000177	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96MM,STRAIGHT,SN,RED	1	SNA
CN80	3711-000315	HEADER-BOARD TO CABLE	1WALL,4P,1R,7.92MM,STRAIGHT,SN,WHT	1	SNA
CN46	3711-000939	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5mm,STRAIGHT,SN,RED	1	SNA
CN44	3711-000940	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5mm,STRAIGHT,SN,WHT	1	SNA
CN60	3711-000997	CONNECTOR-HEADER	BOX,5P,1R,2.5mm,STRAIGHT,SN,BLU	1	SNA
CN23	3711-003406	HEADER-BOARD TO CABLE	1WALL,2P,1R,7.92MM,STRAIGHT,SN,YEL	1	SNA
CN31	3711-003873	HEADER-BOARD TO CABLE	BOX,7P,1R,2mm,STRAIGHT,SN,NTR	1	SNA
CN91	3711-004182	HEADER-BOARD TO CABLE	BOX,10P,1R,2MM,STRAIGHT,SN,NTR	1	SNA
CN90	3711-004379	HEADER-BOARD TO CABLE	BOX,4P,1R,2mm,STRAIGHT,SN,NTR	1	SNA
CN92	3711-004484	HEADER-BOARD TO CABLE	BOX,5P,1R,2mm,STRAIGHT,SN,NTR	1	SNA
CN30	3711-005716	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,STRAIGHT,SN,BLK	1	SNA
T100	DB26-00073A	TRANS FBT-PT60	PT60,PT60,700uH,EI2218B	1	SNA
T700	DB27-00033A	COIL CHOKE	FILTER,S50,5A,14mH	1	SNA
PCB BOARD	DB41-00672A	PCB MAIN-OUT	GALAXY 2 PJT,FR-4,2,V5.2,T1.6,195*130	1	SNA
F702	DB61-00924A	HOLDER-FUSE	FH-51B	1	SNA
IC301	DB91-00704A	ASSY-MIC	WW3, INVETER OUT MAIN MICOM	1	SNA
	DB09-00338A	IC MICOM	MB90F823,-80 P,5 V,24 MHz	1	SNA
EARTH	DB93-06342A	ASSY CONNECTOR WIRE-EARTH	UH140EAV,SSEC,UL1015,AWG16	1	SNA
R103	DB98-20665A	ASSY-RESISTOR	KFR-35(25)GW/GPI,1.8k F 1608	1	SNA
R104	DB98-20665A	ASSY-RESISTOR	KFR-35(25)GW/GPI,1.8k F 1608	1	SNA

■ Outdoor EMI PCB : DB93-05844B

Location No.	Code No.	Description	Specification	Q'ty	SN/SNA
VA01	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA
VA02	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA
VA03	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA
VA04	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA
VA05	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA
VA06	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA
R002	2003-000835	R-METAL OXIDE(S)	470Kohm,5%,2W,AA,TP,4x12mm	1	SNA
R003	2003-000835	R-METAL OXIDE(S)	470Kohm,5%,2W,AA,TP,4x12mm	1	SNA
C006	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5	1	SNA
C007	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5	1	SNA
C001	2201-000540	C-CERAMIC,DISC	4.7NF,20%,2KV,Y5U,BK,12X5MM,10	1	SNA
C002	2201-000540	C-CERAMIC,DISC	4.7NF,20%,2KV,Y5U,BK,12X5MM,10	1	SNA
C009	2301-001285	C-FILM,LEAD-PPF	680NF,10%,275V,BK,31X11X21MM,27.5	1	SNA
C008	2301-001314	C-FILM,LEAD-PPF	470nF,10%,275V,BK,25x11.5x21mm,-	1	SNA
CN01	3711-000203	HEADER-BOARD TO CABLE	1WALL,2P/3P,1R,7.92mm,STRAIGHT,SN,WHT	1	SNA
N2	3712-001139	CONNECTOR-TERMINAL	TAB,MALE,-,6.35X0.8MM	1	SNA
L	3712-001265	CONNECTOR-TERMINAL	1PIN,SCREW(M5),8AWG,14*12	1	SNA
L1	3712-001265	CONNECTOR-TERMINAL	1PIN,SCREW(M5),8AWG,14*12	1	SNA
N	3712-001265	CONNECTOR-TERMINAL	1PIN,SCREW(M5),8AWG,14*12	1	SNA
N1	3712-001265	CONNECTOR-TERMINAL	1PIN,SCREW(M5),8AWG,14*12	1	SNA
FT00	DB27-00054A	COIL CHOKE	SSC4823010B,RIBHFO40B	1	SNA
FT01	DB27-00054A	COIL CHOKE	SSC4823010B,RIBHFO40B	1	SNA
FT02	DB27-00054A	COIL CHOKE	SSC4823010B,RIBHFO40B	1	SNA
PCB BOARD	DB41-00670A	PCB SUB-EMI	GALAXY 2 PJT,FR-4,2,V2.2,T1.6,-,-,-,-,-,SSEC	1	SNA
DSA	DB47-00016A	POSISTOR	DSA-332MA,2pF MAX,100MOhm,ASM-3500	1	SNA
EARTH	DB93-06338A	ASSY CONNECTOR WIRE-EARTH	UH140EAV,SSEC,UL1015,AWG18,YEL/GRN	1	SNA

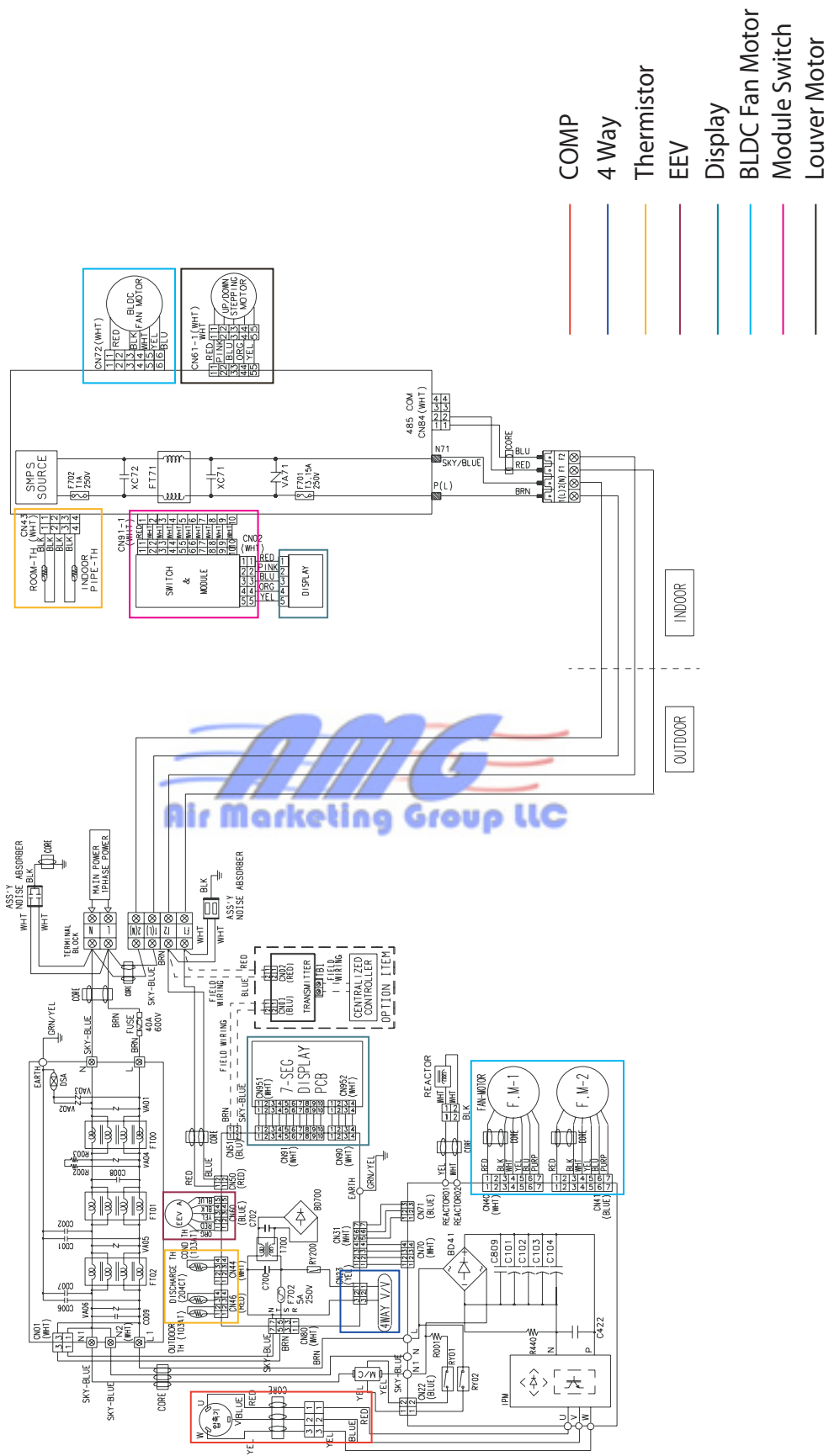
■ Outdoor Display PCB : DB93-05955A

Location No.	Code No.	Description	Specification	Q'ty	SN/SNA
D901	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,TP	1	SNA
D902	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,TP	1	SNA
D903	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,TP	1	SNA
D904	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,TP	1	SNA
K1	3404-001220	SWITCH-TACT	12V,50mA,160gf,6.1x6.1x5.0mm,SPST	1	SNA
K2	3404-001220	SWITCH-TACT	12V,50mA,160gf,6.1x6.1x5.0mm,SPST	1	SNA
K3	3404-001220	SWITCH-TACT	12V,50mA,160gf,6.1x6.1x5.0mm,SPST	1	SNA
K4	3404-001220	SWITCH-TACT	12V,50mA,160gf,6.1x6.1x5.0mm,SPST	1	SNA
CN952	3711-004067	HEADER-BOARD TO CABLE	BOX,4P,1R,2mm,ANGLE,SN,NTR	1	SNA
CN951	3711-004531	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,ANGLE,SN,WHT	1	SNA
J1	3812-001283	WIRE-NO SHEATH CU	TCWA,300V,52mm(TAPING),1/0.6mm,-,-	1	SNA
J2	3812-001283	WIRE-NO SHEATH CU	TCWA,300V,52mm(TAPING),1/0.6mm,-,-	1	SNA
J3	3812-001283	WIRE-NO SHEATH CU	TCWA,300V,52mm(TAPING),1/0.6mm,-,-	1	SNA
J4	3812-001283	WIRE-NO SHEATH CU	TCWA,300V,52mm(TAPING),1/0.6mm,-,-	1	SNA
J5	3812-001283	WIRE-NO SHEATH CU	TCWA,300V,52mm(TAPING),1/0.6mm,-,-	1	SNA
J6	3812-001283	WIRE-NO SHEATH CU	TCWA,300V,52mm(TAPING),1/0.6mm,-,-	1	SNA
DIS1	DB07-00054A	LED DISPLAY	SSD-A3202GS-A13, DIGIT, GREEN	1	SNA
DIS2	DB07-00054A	LED DISPLAY	SSD-A3202GS-A13, DIGIT, GREEN	1	SNA
PCB BOARD	DB41-00671A	PCB SUB-DISPLAY	GALAXY 2 PJT,FR-1,1,V1.0,T1.6	1	SNA

MEMO



7. Wiring Diagram

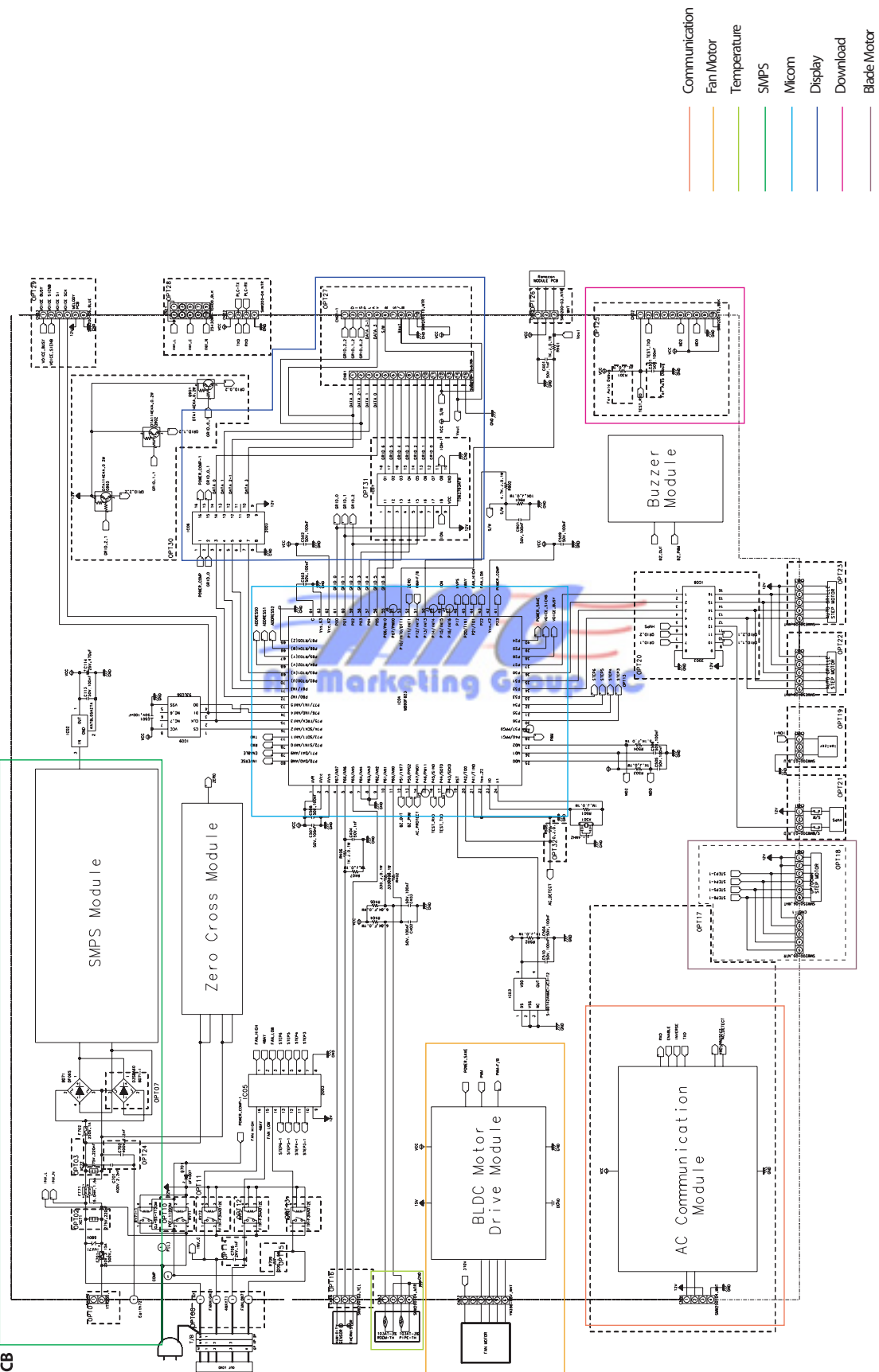


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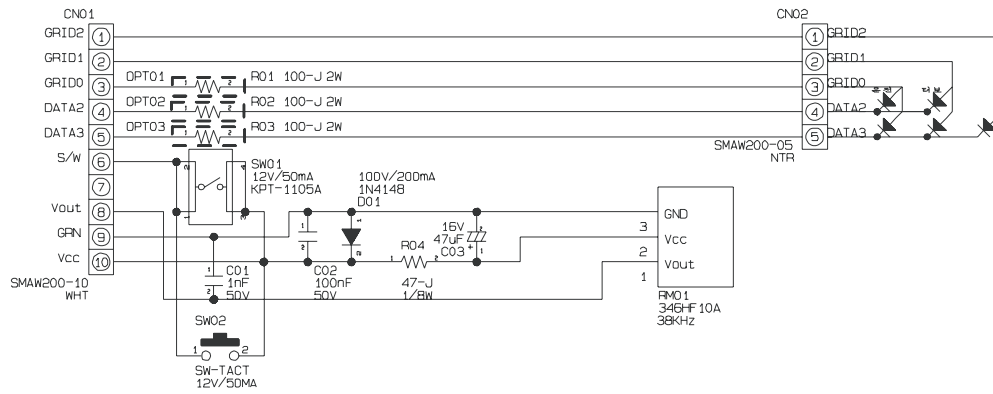
8. Schematic Diagram

8-1 Indoor Unit

■ MAIN PCB



■ DISPLAY PCB

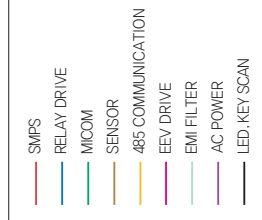
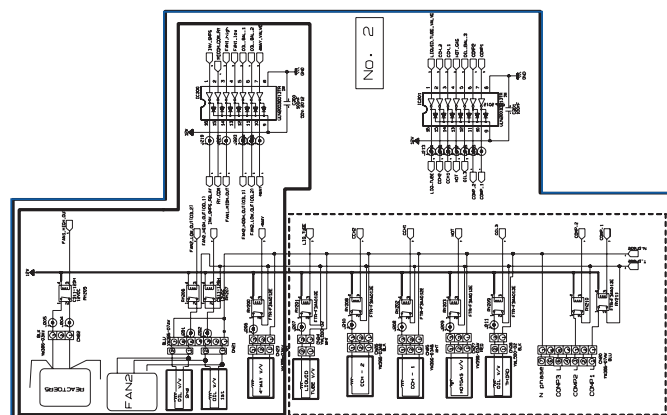
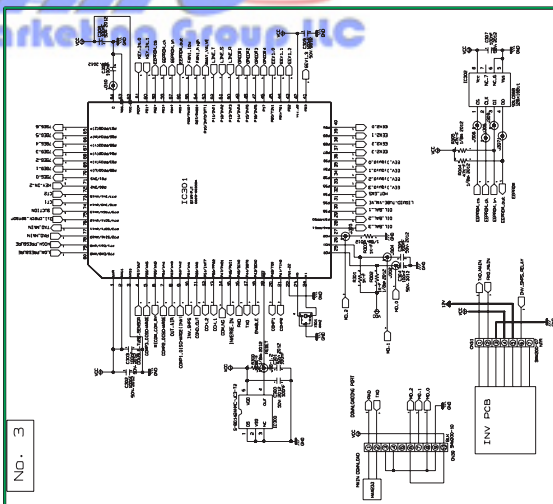
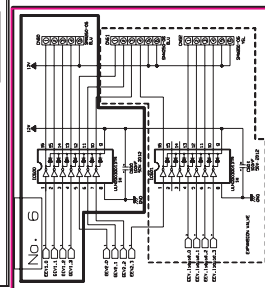
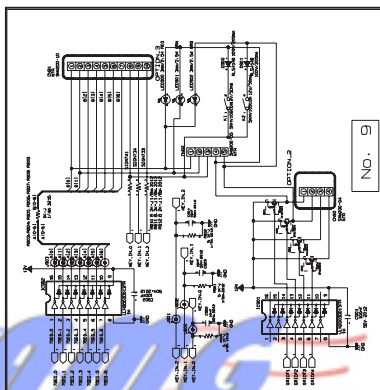
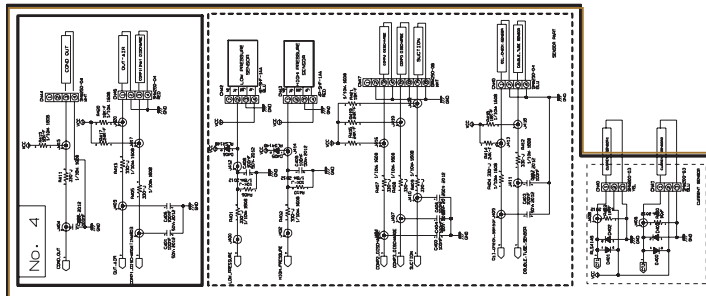
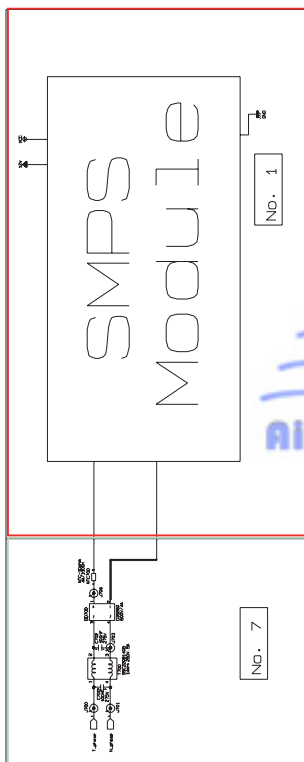
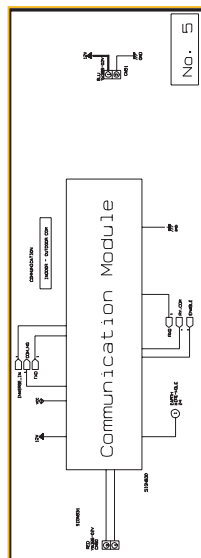
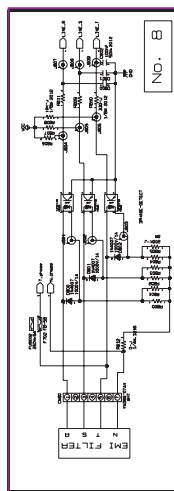


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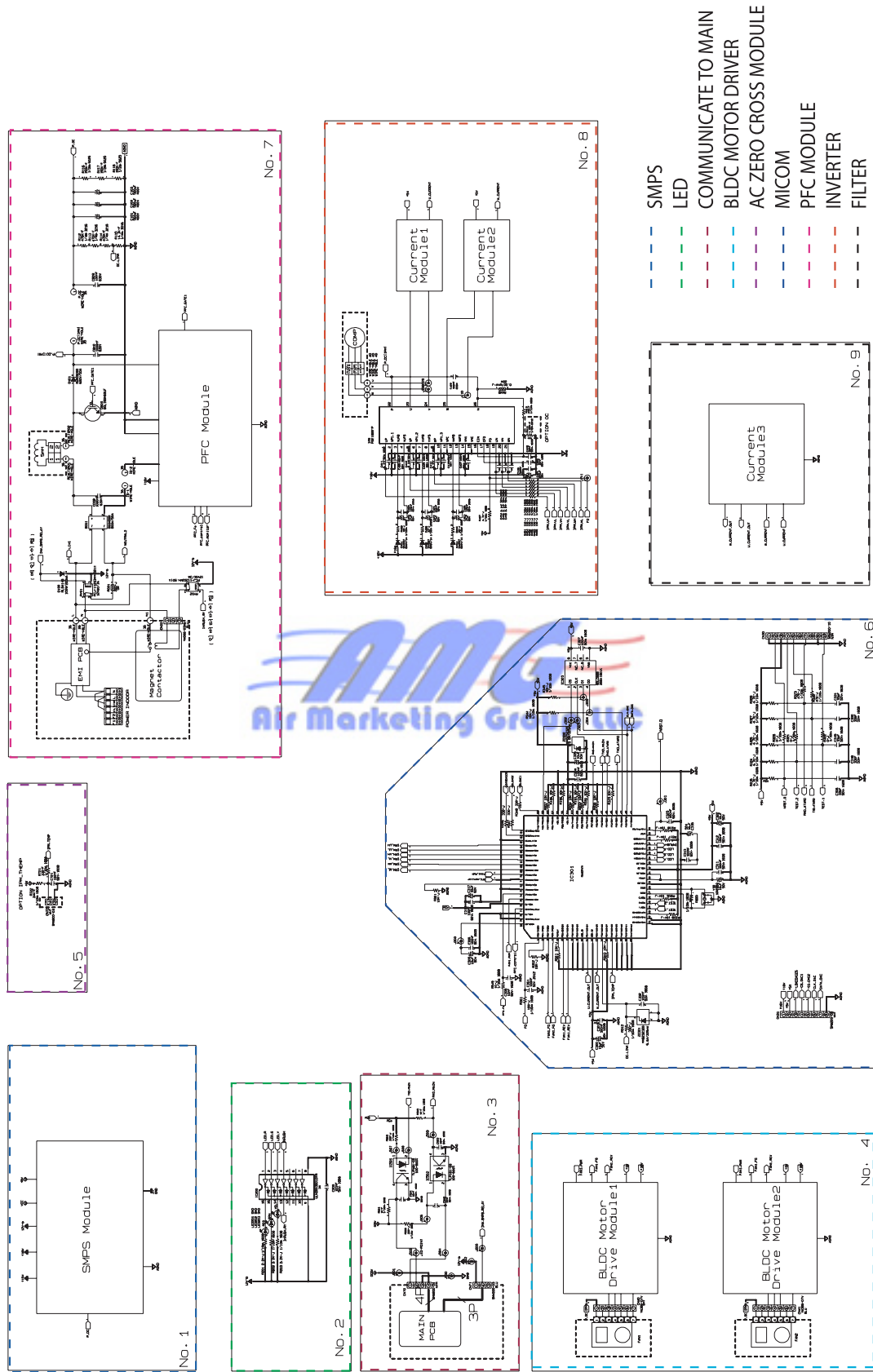
8-2 Outdoor Unit

■ MAIN PCB



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■ Inverter PCB



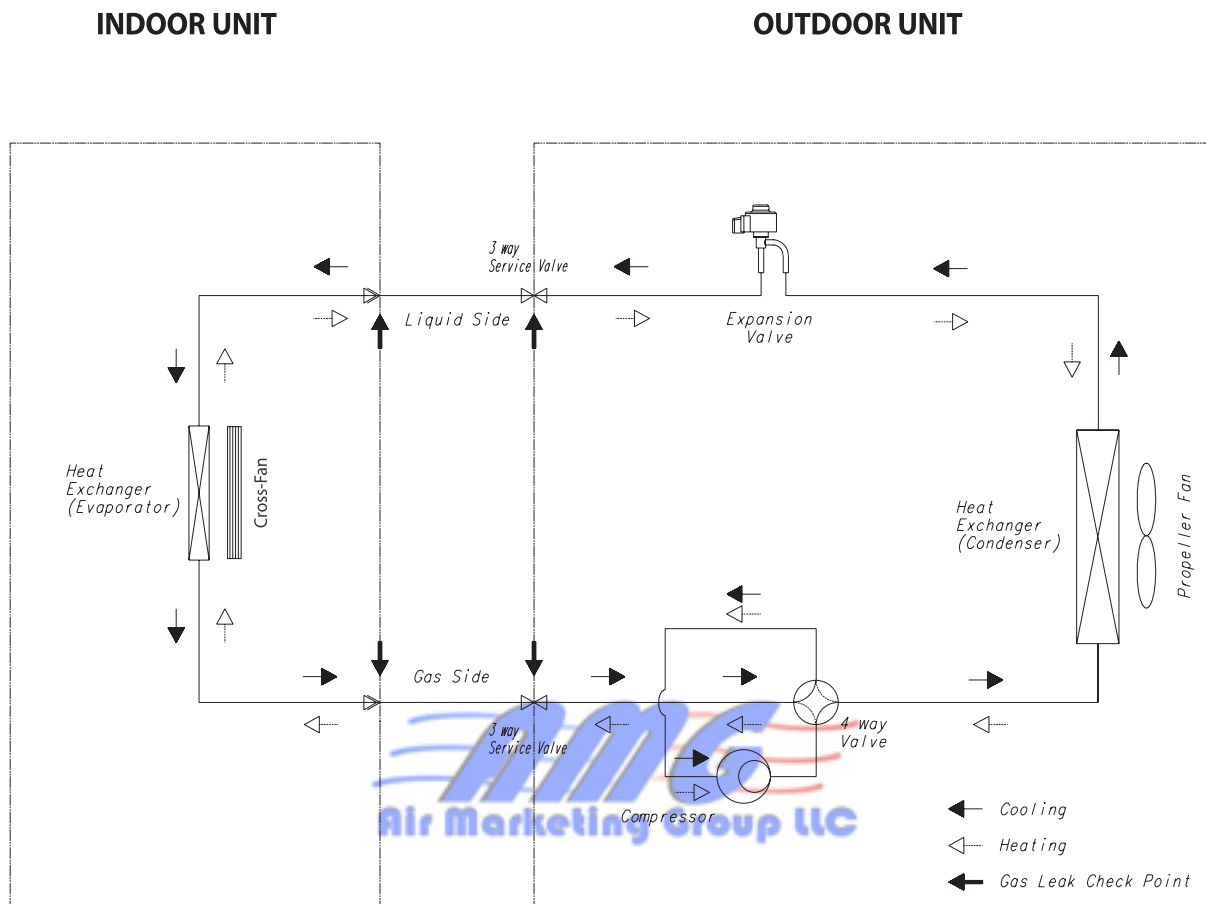
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9. Operating Instruction and Installation

9-1 Refrigerating Cycle Diagram

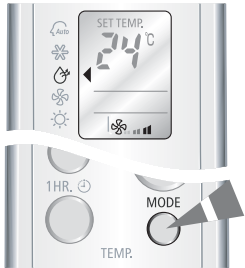
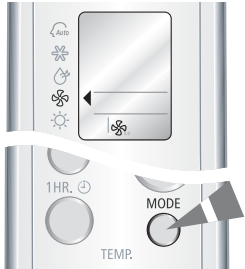


9-2 Main Function

9-2-1 Basic Function

Mode	Explanation	Remark
Auto Mode	Press the  button on the remote control until  is displayed. Press the  button to select the fan speed until the required setting is displayed.  Automatic (rotated :  →  → )  Silence  Low  Medium  High  Turbo (Maximum)	
Cool Mode	Press the  button on the remote control until  is displayed. Press the  button to select the fan speed until the required setting is displayed.  Automatic (rotated :  →  → )  Silence  Low  Medium  High  Turbo (Maximum)	 
Heat Mode	Press the  button on the remote control until  is displayed. Press the  button to select the fan speed until the required setting is displayed.  Automatic (rotated :  →  → )  Silence  Low  Medium  High  Turbo (Maximum)	 

Basic Function(cont.)

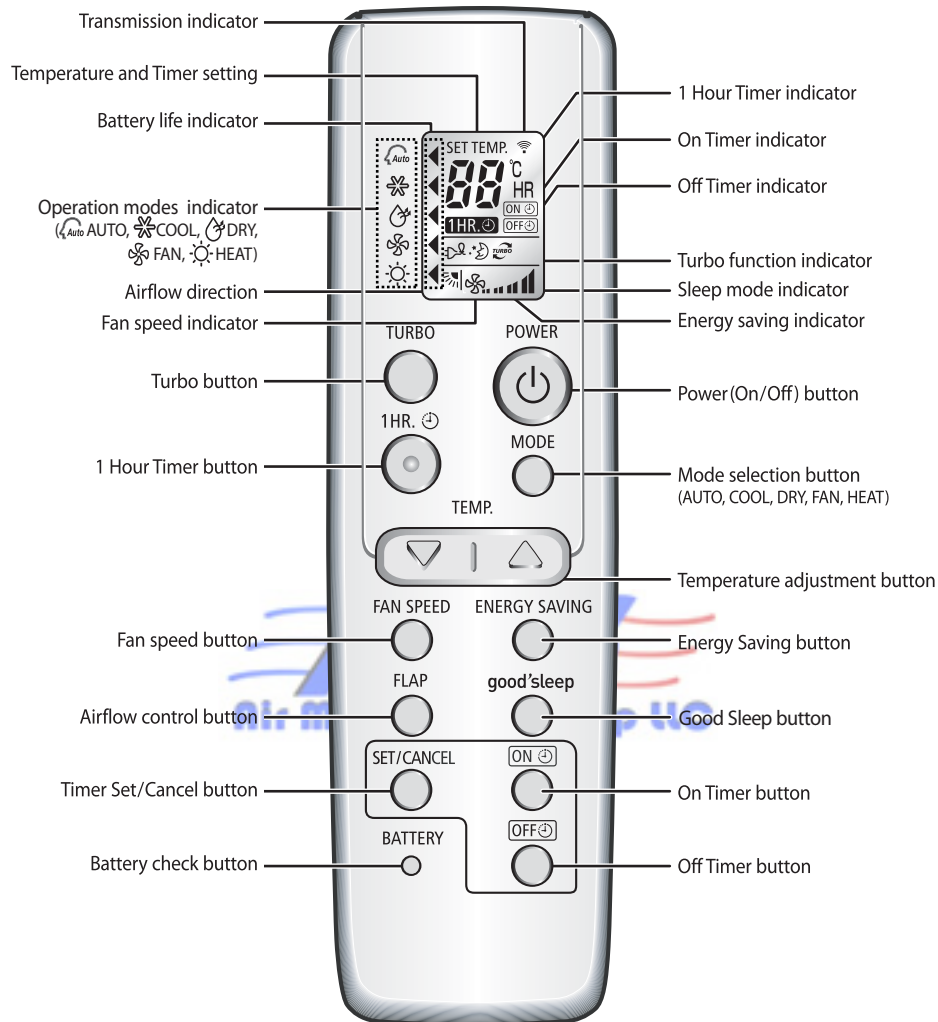
Mode	Explanation	Remark
Dry Mode	Press the  button on the remote control until  is displayed.	
Fan Mode	Press the  button on the remote control until  is displayed.	



9-2-2 Applied Function

Mode	Explanation	Remark
Turbo Function	Press the  button. - After 30 minutes, the air conditioner is reset automatically to the previous setting. - You can select the Turbo function in the Auto, Cool and Heat mode. If you select this function in the Dry or Fan mode, the mode changes to the Auto mode.	
Energy Saving Function	Press the  button.	

9-3 Wireless Remote Control-Buttons and Display



- Note :**
- Each mode indicator shows the current setting and the battery life.
 - You can check the battery life by pressing the  button.
 - The number of the battery life indicator means the remaining battery life.
 - Replace the batteries when only one battery life indicator remains.

9-4 Cleaning/Filter Change

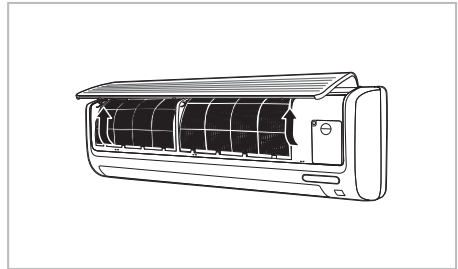
9-4-1 Cleaning your Air Conditioner

For the best use of your air conditioner, you must clean it every 2 weeks to remove the dust that accumulates on the air filter.

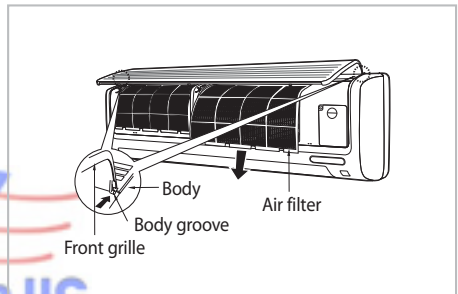


• Before cleaning your air conditioner, check if you have turned off the circuit breaker.

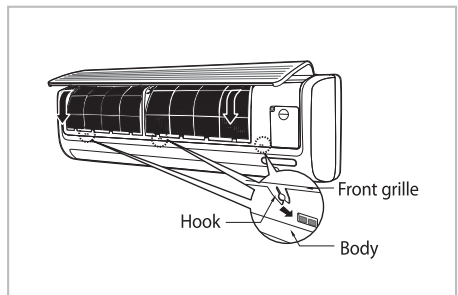
1. Open the upper front grille by pulling the lower right and left tabs of the grille.



2. Pull air filters out of each tab of the grille.
3. Remove all dust on the air filters with a vacuum cleaner or brush.
4. When you finish, insert air filters by fixing them to each tab of the grille.
5. To close the front grille, fix it to hooks and push down the lower right and left tabs of the grille.



6. Clean the front grille with a damp cloth and mild detergent (do NOT use benzene, solvents or other chemicals).



Note : • If you have not used the air conditioner for a long time, select the Fan mode for 3 to 4 hours to dry the inside of the air conditioner.

9-4-2 Cleaning Deodorizing and Bio Filter (Option)

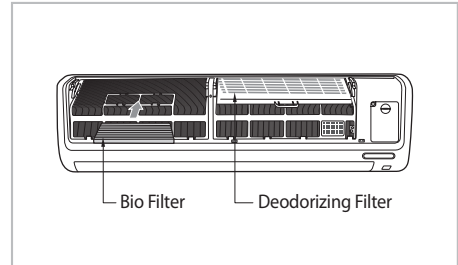
There are Deodorizing and Bio filters inside your air conditioner.

They remove odors and dust in your room. You should clean the filters every 3 months.

1. Open the upper front grille by pulling the lower right and left tabs of the grille.
2. Pull out the deodorizing and Bio filter.
3. Wash the filters with clean water, then dry them in the shade.
4. Insert the filters in their place.

Note : • You can change the position of filters with each other.

5. Close the front grille.



9-5 Installation Diagram of Indoor Unit and Outdoor Unit

9-5-1 Air-Purge Procedure

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



- 2) Tighten the flare nut first with your hands, and then with a torque wrench applying the following torque.

Outer Diameter(D)	Torque(kgf·cm)
9.52mm(3/8")	18.1~20.3ft.lb(250~280kgf·cm)
15.88mm(5/8")	31.8~34.7ft.lb(440~480kgf·cm)
19.05mm(3/4")	71.6~87.5ft.lb(990~1210kgf·cm)
6.35mm(1/4")	10.1~12.3ft.lb(140~170 kgf·cm)



- 3) Connect the charging hose of low-pressure side of manifold gauge to a gas service port as seen in the picture.



- 4) Open the valve of the low pressure side of manifold gauge counterclockwise.



- 5) Purge the air in the connected pipes using vacuum pump for about 10 minutes.
 - Close the valve of the low pressure side of manifold gauge clockwise.
 - Make sure that pressure gauge show -0.1MPa (-76cmHg) after about 10 minutes. This procedure is very important to avoid a gas leak.
 - Turn off the vacuum pump.
 - Remove the hose of the low pressure side of manifold gauge.



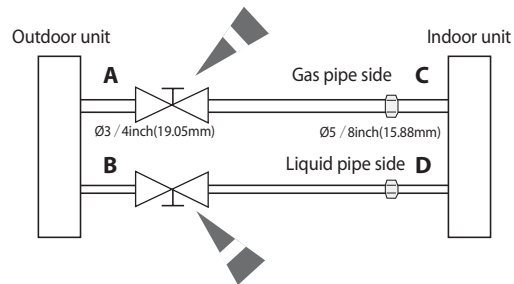
- 6) Set a valve cork of liquid and gas service port to the open position.



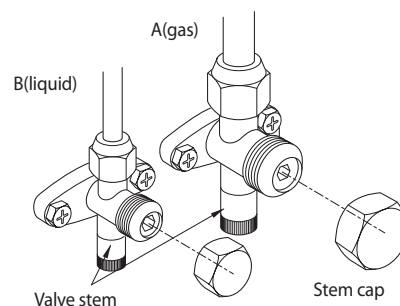
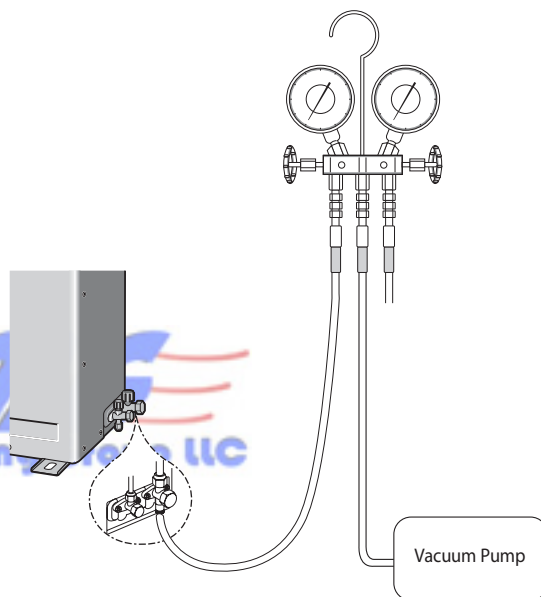
- 7) Mount the valve stem nuts and the service port cap to the valve, and tighten them at the torque of 183kgf·cm with a torque wrench.



- 8) Check for a gas leak.
 - At this time, especially check for a gas leak from the 3-way valve's stem nuts and from the service port cap.



* The flare nuts of Gas pipe side are different A with C.



9-5-2 "Pump down" Procedure

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

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



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



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



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



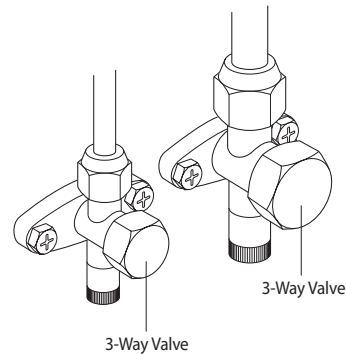
- 5) When the pressure gauge indicates "0" turn the 3-Way valve clockwise to close.



- 6) Stop operation of the air conditioner.



- 7) Close the cap of each valve.

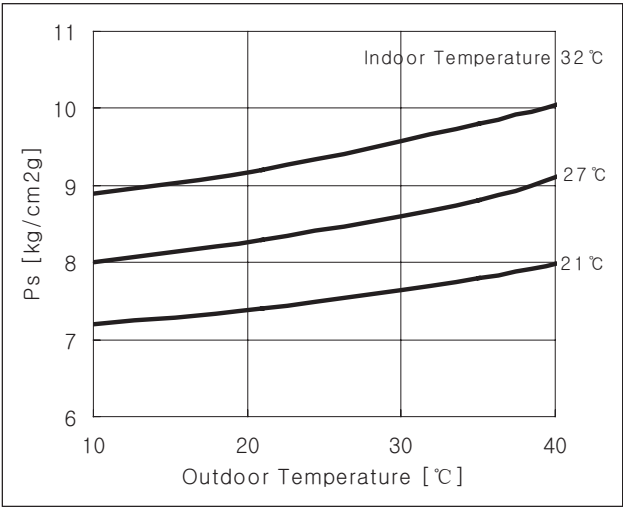


Remarks

Relocation of the air conditioner

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

9-6 Pressure Graph



9-7 Pressure & Capacity mark

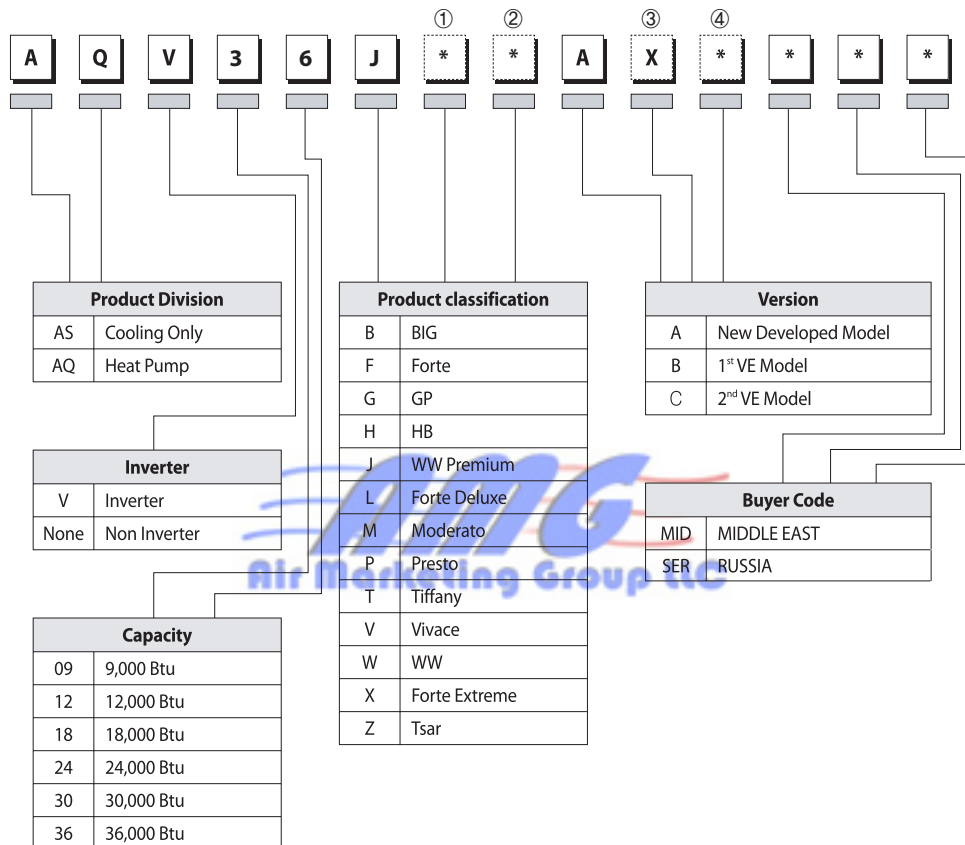
■ Power/Heat

	0.23885	0.85985	3.4121	0.001341	0.10197	0.73756
4.1868		3.6	14.286	0.0056146	0.42693	3.088
1.163	0.27778		3.9683	0.0015596	0.11859	0.85778
0.29307	0.06999	0.252		3.9302x10 ⁻⁴	0.029885	0.21616
745.7	178.11	641.19	2,544.4		76.04	550
9.8067	2.3423	8.4322	33.462	0.013151		7.233
1.3558	0.32383	1.1658	4.6262	0.0018182	0.13826	

9-8 Index for Model Name

* Project model code for overseas from 2007(For RAC Export Models)

Model Code



- ① : Use the " ① " digit for Grille Color deviation.
 : Don't use the digit for Basic White model.
 ex) Silver : S, Black : B, White : W, etc.
- ② : Use the " ② " digit for Electric Source deviation.
 : Only for "XAP", "XAX", "GEM" Buyer.
- ③ : Use the " ③ " digit for classification between indoor and outdoor.
 Indoor ⇒ "N" & Outdoor ⇒ "X".
- ④ : Use the " ④ " digit for KD models.
 "CKD" ⇒ "1" & "SKD" ⇒ "2".

□ Except the RAC Export Models for China.



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