

SAMSUNG

SYSTEM AIR CONDITIONER

Basic : CH140EAV/UH140GAV

Model : CH070EAV1/CH090/105/140EAV

UH070EAV1/UH090/105/140EAV

Model Code : CH070EAV1/CH090/105/140EAV

UH070EAV1/UH090/105/140EAV

SERVICE ***Manual***

AIR CONDITIONER



CH070EAV1/CH090/105/140EAV



UH070EAV1



UH090/105/140EAV

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Refer to the service manual in the GSPN(see the rear cover) for the more information.

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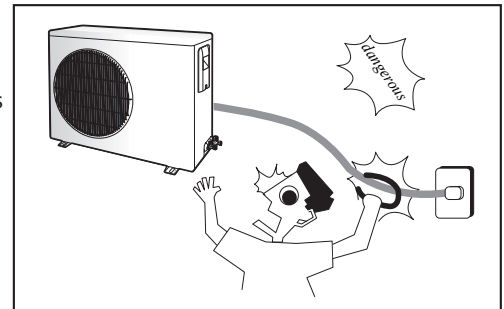
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1. Precautions

1-1 Installing the air conditioner

- Users should not install the air conditioner by themselves.
Ask the dealer or authorized company to install the air conditioner except the window-type air conditioner in U.S.A and Canada.
- If you don't install the air conditioner properly, it may cause a fire, a water leakage or an electric shock.
- You must install the air conditioner according to the national wiring regulations and safety regulations.
- Install the indoor unit higher than 2.5m from the floor to avoid the injury caused by the operation of the fan. (except the window-type air conditioner)
- The manufacturer is not responsible for any accidents or injury caused by an incorrect installation.

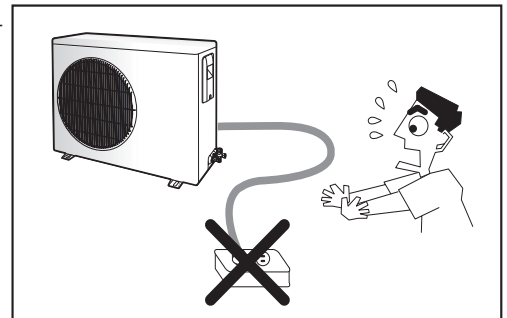
When installing the built-in type air conditioner, keep all electric cables such as the power cable and the connection cord in pipes, ducts, or cable channels to protect them from the danger of impact or any other incidents.



Avoid Dangerous Contact

1-2 Power supply and circuit breaker

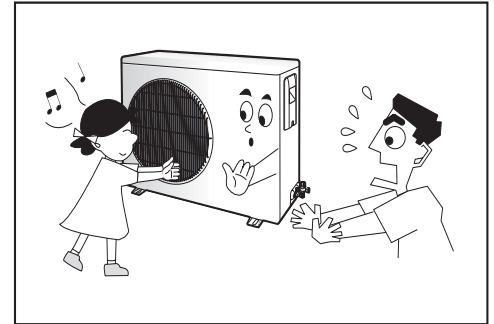
- If the power cord of the air conditioner is damaged, it must be replaced by the manufacturer or a qualified person in order to avoid a hazard.
- The air conditioner must be plugged into an independent circuit if applicable or connect the power cable to the auxiliary circuit breaker.
An all pole disconnection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



No Tapping and No Extension Cords

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 7 meters from the indoor unit. (If applicable)



No children Nearby

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

- **Built-in Cassette Type**

After installed, the air conditioner can be harmonized with a room interior.

- **High Performance & Energy Saving**

With the advanced BLDC inverter technology, it makes a room cool with highly energy saving and arises the efficiency of air conditioner.

- **Long Piping(Length & Height)**

It can give the benefit to the installers and arises the reliability of the air conditioner.

- **Long Ambient Operation(In Low Temperature)**

It can arise the reliability and the capacity of the air conditioner, especially operated in low temperature.

- **Eco-friendly Product(Lead-Free, RoHS, WEEE)**

2-2 Product Specifications

Item				Model	CH070EAV1		UH070EAV1		CH090EAV		UH090EAV			
					Indoor Unit		Outdoor Unit		Indoor unit		Outdoor unit			
Type					Cassette-type					Cassette-type				
Performance	Cooling(MIN/STD/MAX)		kW		2.1/7.1/8.4					3.2/9.0/10.0				
	Heating(MIN/STD/MAX)		kW		2.0/8.0/11.6					3.0/10.0/13.9				
	Dehumidifying		ℓ/h		2.7					4.1				
	Air Volume	Cooling	m³/min (H/M/L)	21.9/19.4/18.3			-		22.8/17.6/13.5			100		
		Heating		22.3/21.7/19.1			-		24.1/20.3/16.2			100		
	Noise	Cooling	dB (H/M/L)	45			60		47			64		
		Heating		45			60		48			64		
	Energy Efficiency Ratio	Cooling	W/W	3.35					3.21					
		Heating		3.65					3.61					
Power			ph/V/Hz		1/220~240V/50Hz					1/220-240V~/50Hz				
Power	Power Consumption	Cooling	W	2,120					2800					
		Heating		2,190					2770					
	Operating Current	Cooling	A	9.7					12.5					
		Heating		10					12.2					
	Power Factor	Cooling	%	95					92					
		Heating		95					92					
Size	Outer Dimension	WXHxD	mm	840x218x840			880x798x310		840x298x840		932x1128x375			
			inch	33.1x8.6x33.1			34.6x31.4x12.2		33.1x9.1x33.1		36.7x44.4x14.8			
	Weight(Net)			kg	31			57		29.0		90		
	Compressor	Model			G8T260FUAEW					G5T360FUA EK				
		Motor	Type			TWIN BLDC					TWIN BLDC			
			Rated Output			2,470					-			
	Oil Type				POE					FREOLa 68ES-T Ze-GLES RB68-EP				
	Blower	Type				Turbo Fan		Propeller		TURBO-FAN		Propeller		
			Motor	Type			Resin		AL		AL		AL	
				Rated Output		W	35		130		100		165	
Piping	Pipe O.D Size	Liquid	mm(inch)xL(m)		6.35(1/4)x5					9.52(3/8")x7.5				
		Gas	mm(inch)xL(m)		15.88(5/8)x5					15.88(5/8")x7.5				
	Connection Method				Flare					Flare				
	Between	Height		m	Max.30					Max.30				
		Pipe Length		m	Max.50					Max.75				
Heat Exchanger					2ROW 8STEP			2ROW 36STEP		2ROW 13STEP		2ROW 52STEP		
Refrigerant Control Unit					EEV					EEV				
Freezer Oil Capacity			cc		700					1,100				
Refrigerant to Change(R410A)			g		1,900(30g/m)					2,600(40g/m)				
Protection Device(OLP)					-					-				
Cooling Test Condition					DB27℃ WB19℃			DB35℃ WB24℃		INDOOR : DB27℃ WB19℃ OUTDOOR : DB35℃ WB24℃				
Heating Test Condition					DB20℃ WB15℃			DB7℃ WB6℃		INDOOR : DB20℃ WB15℃ OUTDOOR : DB7℃ WB6℃				

Item				Model		CH105EAV		UH105EAV			
						Indoor unit		Outdoor unit			
Type						Cassette-type					
Performance	Cooling(MIN/STD/MAX)			kW		3.2/10.5/12.0					
	Heating(MIN/STD/MAX)			kW		2.60/11.2/15.5					
	Dehumidifying			ℓ/h		4.76					
	Air Volume		Cooling	m³/min (H/M/L)	22.2/18.1/14.4		110				
			Heating		25.7/21.3/17.2		110				
	Noise		Cooling	dB (H/M/L)	48		66				
			Heating		49		66				
	Energy Efficiency Ratio		Cooling	W/W	3.21						
			Heating		3.61						
Power				ph/V/Hz		1/220-240V~/50Hz					
Power	Power Consumption		Cooling	W	3,270						
			Heating		3,100						
	Operating Current		Cooling	A	14.5						
			Heating		13.7						
	Power Factor		Cooling	%	92						
			Heating		92						
Size	Outer Dimension		WidthxHeightxDpth		mm	840x298x840		932X1128X375			
					inch	33.1x9.1x33.1		36.7X44.4X14.8			
	Weight(Net)			kg		29.0		90.0			
	Compressor		Model			GST360FUA EK					
			Motor		Type			TWIN BLDC			
					Rated Output			-			
	Oil Type					FREOLa 68ES-T Ze-GLES RB68-EP					
	Blower		Type			TURBO-FAN		Propeller			
			Motor		Type			AL		AL	
					Rated Output			100		165	
Piping	Pipe O.D Size		Liquid	mm(inch)xL(m)		9.52(3/8")x7.5					
			Gas	mm(inch)xL(m)		15.88(5/8")x7.5					
	Connection Method					Flare					
	Between		Height	m		Max.30					
			Pipe Length	m		Max.75					
Heat Exchanger						2ROW 13STEP		2ROW 52STEP			
Refrigerant Control Unit						EEV					
Freezer Oil Capacity				cc		1,100					
Refrigerant to Change(R410A)				g		2,800(40g/m)					
Protection Device(OLP)						-					
Cooling Test Condition						INDOOR UNIT : DB27℃ WB19℃ OUTDOOR UNIT : DB35℃ WB24℃					
Heating Test Condition						INDOOR UNIT : DB20℃ WB15℃ OUTDOOR UNIT : DB7℃ WB6℃					

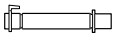
Item				Model	CH140EAV		UH140EAV	
					Indoor unit		Outdoor unit	
Type					Cassette-type			
Performance	Cooling(MIN/STD/MAX)		kW		3.8/14.0/15.4			
	Heating(MIN/STD/MAX)		kW		3.75/16.0/18.5			
	Dehumidifying		ℓ/h		5.61			
	Air Volume	Cooling	m³/min (H/M/L)	24.9/22.3/19.9		110		
		Heating		30.3/27.7/24.6		110		
	Noise	Cooling	dB (H/M/L)	49		66		
		Heating		50		66		
	Energy Efficiency Ratio	Cooling	W/W	3.01				
		Heating		3.41				
Power			ph/V/Hz	1/220-240V~/50Hz				
Power	Power Consumption	Cooling	W	4,650				
		Heating		4,690				
	Operating Current	Cooling	A	20.6				
		Heating		20.8				
	Power Factor	Cooling	%	92				
		Heating		92				
Size	Outer Dimension	WidthxHeightxDepth	mm	840x298x840		932X1128X375		
			inch	33.1x9.1x33.1		36.7X44.4X14.8		
	Weight(Net)		kg	29.0		94.0		
	Compressor	Model		G5T450FUAEX				
		Motor	Type		TWIN BLDC			
			Rated Output		-			
	Oil Type				FREOLα 68ES-T Ze-GLES RB68-EP			
	Blower	Type			TURBO-FAN		Propeller	
			Motor	Type	AL		AL	
Rated Output				W	100		165	
Piping	Pipe O.D Size	Liquid	mm(inch)xL(m)	9.52(3/8")x7.5				
		Gas	mm(inch)xL(m)	19.05(3/4")x7.5				
	Connection Method			Flare				
	Between	Height	m	Max.30				
		Pipe Length	m	Max.75				
Heat Exchanger					2ROW 13STEP		2ROW 52STEP	
Refrigerant Control Unit					EEV			
Freezer Oil Capacity			cc	1,100				
Refrigerant to Change(R410A)			g	2,800(40g/m)				
Protection Device(OLP)					-			
Cooling Test Condition					INDOOR UNIT : DB27℃ WB19℃ OUTDOOR UNIT : DB35℃ WB24℃			
Heating Test Condition					INDOOR UNIT : DB20℃ WB15℃ OUTDOOR UNIT : DB7℃ WB6℃			

2-3 The Comparative Specifications of Product

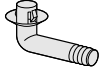
Item		Development Model	Comparative Model
		UH140EAV	UH140GAV
Design	Outdoor Unit		
	Indoor Unit		
Net Weight	Indoor Unit	29.0kg	29.0kg
	Outdoor Unit	94.0kg	98.0kg
Outer Dimension (WidthxHeightxDepth)	Indoor Unit	840x298x840(mm)	840x298x840(mm)
	Outdoor Unit	1,128x932x375(mm)	930x1,135x370(mm)
Noise	Indoor Unit	50dB↓	45dB↓
	Outdoor Unit	66dB↓	60dB↓

2-4 Accessory and Option Specifications

Accessories

Item	Descriptions	Code-No.	Q'TY	Remark
	Pad install	DB69-01490C	1	Indoor Unit
	Insulation drain in	DB62-03440H	1	
	Insulation drain out	DB62-03439H	1	
	Insulation Pipe Joint In 1/4	DB72-00143E	1	
	Insulation Pipe Joint In 1/2	DB72-00143G	1	
	Insulation Pipe joint out 1/4	DB62-03439J	2	
	Cable-tie	DB65-10088C	8	
	Flexible hose	DB94-01065A	1	
	Pad stopper	DB69-00165A	1	
	Safety net	DB63-01480A	1	
	M4x12 tapped Screw	6002-000231	4	
	Installation manual	DB98-26918A	1	

Accessories(cont.)

Item	Descriptions	Code-No.	Q'TY	Remark
	Drain Plug	DB67-00477A	1	Outdoor Unit
	Cap Drain	DB63-10355C	1	
	Rubber bracket Wire	DB73-00218A	2	
	Nut Flare	DB60-30010B	1	

Accessories(cont.)

■ Wireless Remote Controller Accessories

Item	Descriptions	Code-No.	Q'TY	Remark
	Wireless remote controller	DB93-00251G (ARH-401)	1	
	Battery	DB47-90024A	2	
	Remote control holder	DB61-00204A	1	
	STS 2S-2x10 tapped screw	6002-000581	2	
	User's manual	DB98-05156A	1	
	Installation manual	DB98-05184A	1	

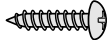
Accessories(cont.)

■ Wireless Remote Controller Accessories

Item	Descriptions	Code-No.	Q'TY	Remark
	Wireless remote controller	DB93-04858C (MR-BH01)	1	
	Battery	DB47-90024A	2	
	Remote control holder	DB61-03147A	1	
	STS 2S-2x10 tapped screw	6002-000581	2	
	User's manual	DB98-27999A	1	
	Installation manual	DB98-27997A	1	

Accessories(cont.)

■ Wired Remote Controller Accessories

Item	Descriptions	Code-No.	Q'TY	Remark
	Wired remote controller	DB93-03934B (MWR-WS00)	1	
	Cable-tie	DB65-10088B	2	
	Cable clamp	DB65-10074E	5	
	M4x16 tapped screw	6002-000474	7	
	Indoor unit power drawing cable	DB39-00221A	1	
	Communication cable of the wired remote controller	DB39-00933A	1	
	Wire joint	DB39-90020A	1	
	User's manual	DB98-25179A	1	
	Installation manual	DB98-25180A	1	

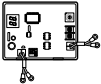
■ Centralized Controller Accessories

Item	Descriptions	Code-No.	Q'TY	Remark
	Centralized controller	DB93-03425C (MCM-A202)	1	
	Cable-tie	DB65-10088B	2	
	Cable clamp	DB65-10074E	5	
	M4x16 tapped screw	6002-000474	7	
	User's manual	DB98-12721A	1	
	Installation manual	DB98-25773A	1	

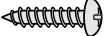
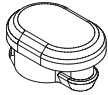
■ Function Controller Accessories

Item	Descriptions	Code-No.	Q'TY	Remark
	Function controller	DB97-01077A (MCM-A100)	1	
	Cable-tie	DB65-10088B	2	
	Cable clamp	DB65-10074E	6	
	M4x16 tapped screw	6002-000474	7	
	User's manual	DB98-27317A	1	
	Installation manual	DB98-27315A	1	

■ Transmitter Accessories

Item	Descriptions	Code-No.	Q'TY	Remark
	Transmitter	DB97-00647P (MIM-B04A)	1	
	Transmitter power cable	DB39-00378D	1	
	Transmitter communication cable	DB39-00253D	1	

■ DMS(Data Management Server) Accessories

Item	Descriptions	Code-No.	Q'TY	Remark
	DMS	DB93-03709B (MIM-D00)	1	
	Cable-tie	DB65-01088B	2	
	Cable clamp	DB65-010074D	2	
	M4x16 tapped screw	6002-000474	5	
	BOTTOM HOOK	DB73-00320A	4	
	User's manual	DB98-25059A	1	
	Installation manual	DB98-25049A	1	

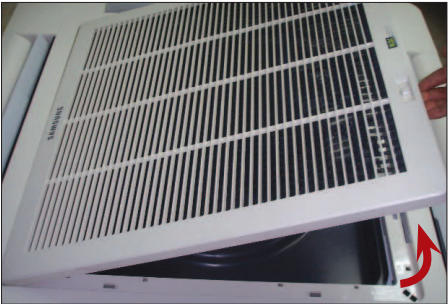
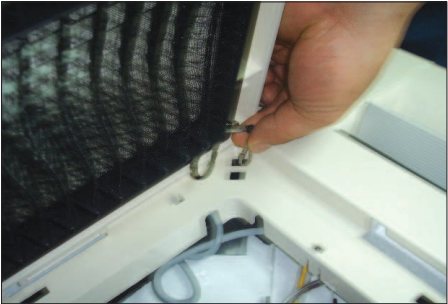
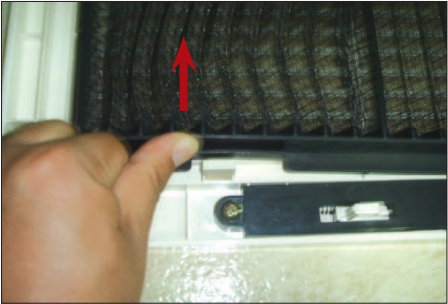
3. Disassembly and Reassembly

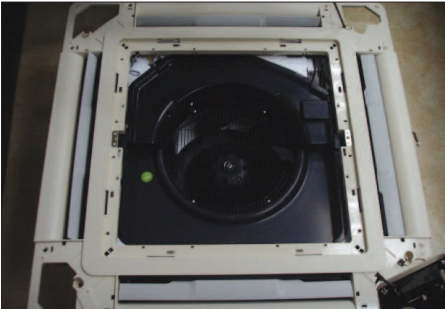
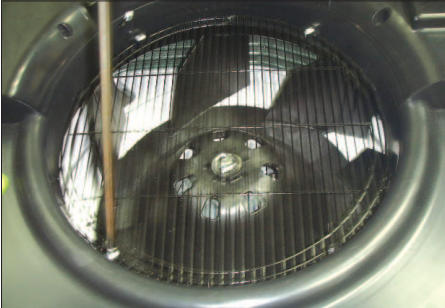
■ Necessary Tools

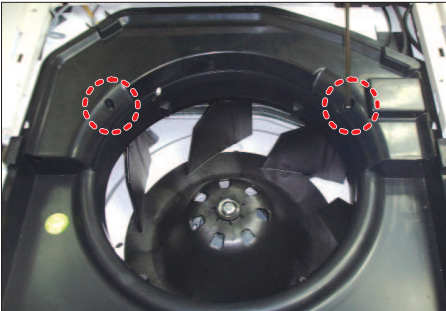
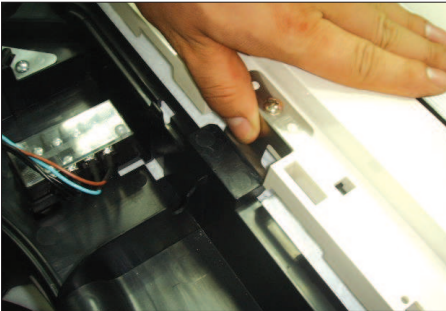
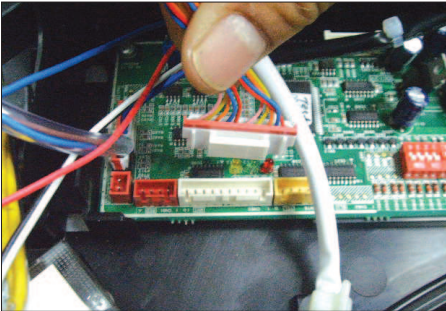
Item	Remark
+SCREW DRIVER	
MONKEY SPANNER	

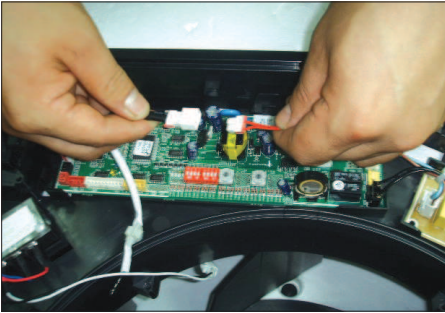
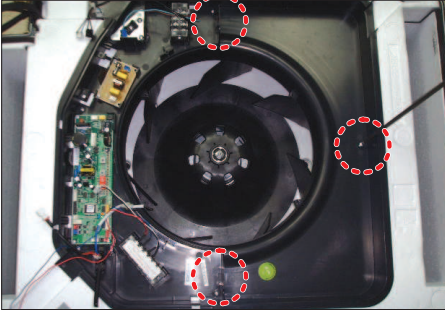
3-1 Indoor Unit

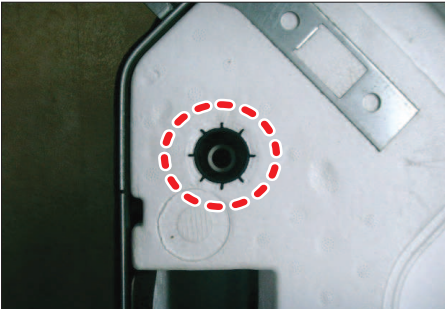
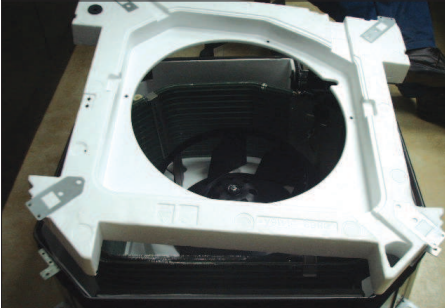
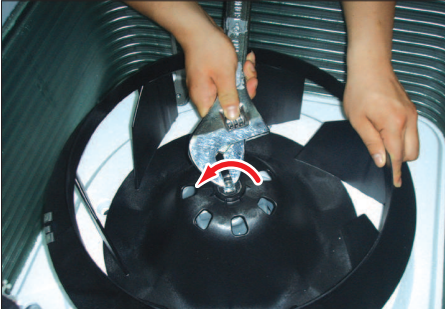
■ CH070EAV1/CH090/105/140EAV

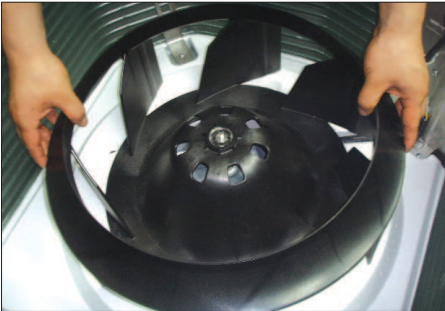
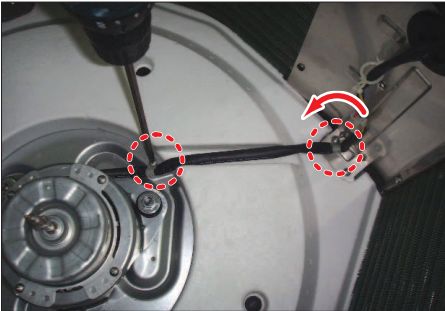
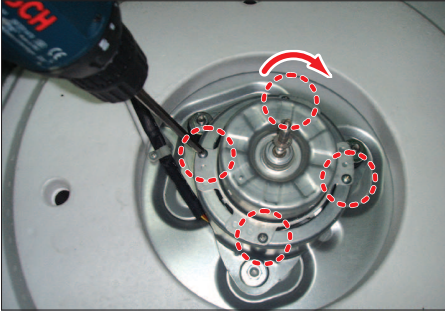
No	Parts	Procedure	Remark
1	Front Grille -Dust-Collecting Filter	1) Push the tap on the Front Grille to open it. 2) Disassembly of Front Grille. (1) Open the Front Grille at about 45° degrees and draw it forward. (2) Disassemble the Safety Clip. 3) Filter Disassembly (1) Draw the Dust-Collecting Filter forward. (2) Disassemble the Filter.	    

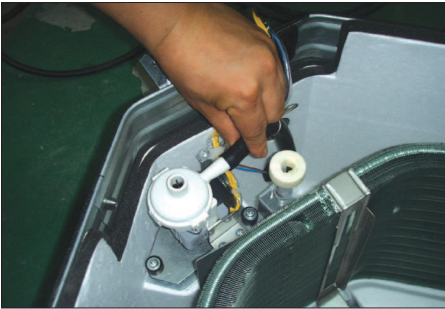
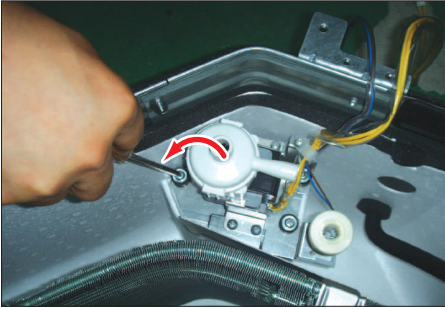
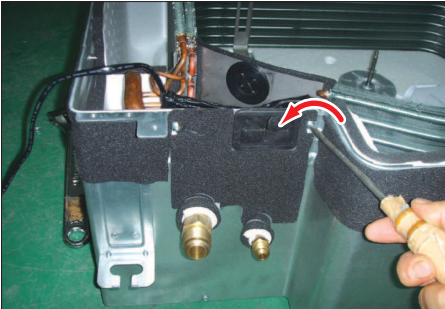
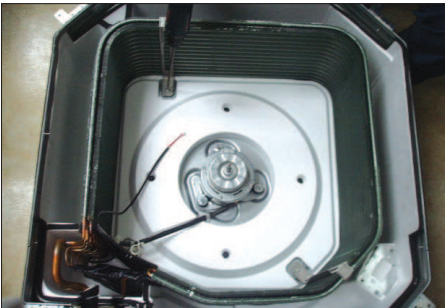
No	Parts	Procedure	Remark
		4) Open the corner cover slowly to disassemble it.(There are three hooks.) 5) Pull the corner cover forward carefully by using 2 hands. 6) Loosen 4 bolts of the front panel slowly. 7) Loosen 4 screws of the safety net to disassemble it.(Use +Screw Driver.)	    

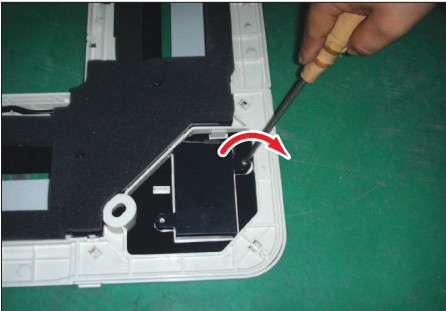
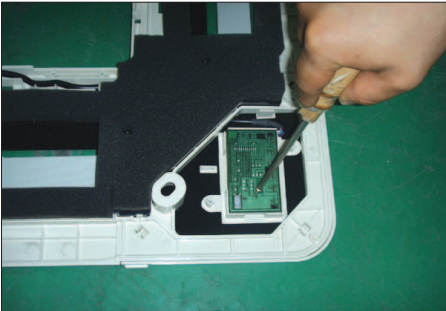
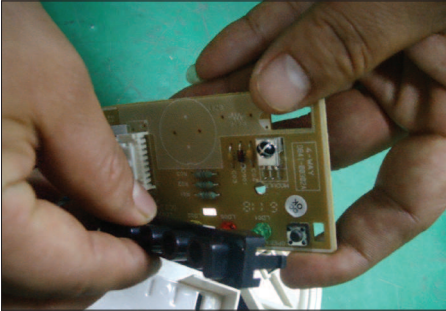
No	Parts	Procedure	Remark
		8) To uncover the Component Electronic Box cover. (1) Loosen two screws in the mark  . (Use +Screw Driver.) (2) Draw the both side hooks toward the arrow direction.	    

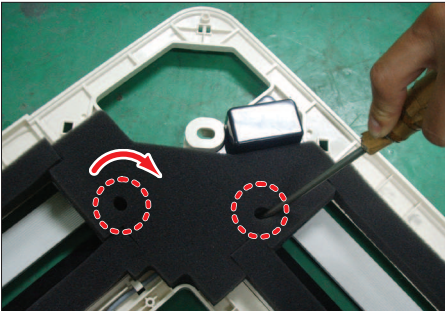
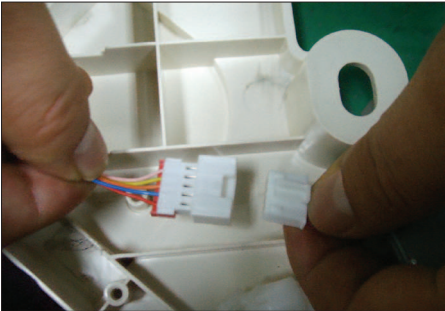
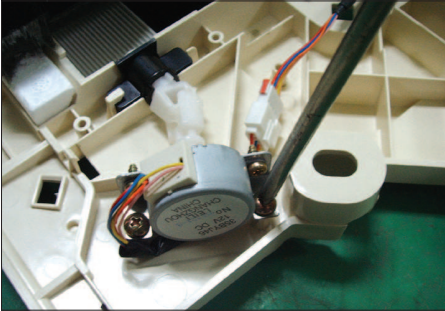
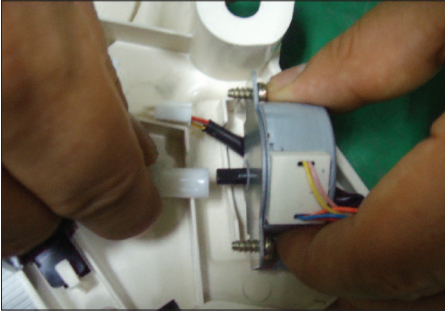
No	Parts	Procedure	Remark
	Electronic Part Indoor & Outdoor Connecting Cable	1) Disconnect all Indoor and Outdoor Cables connected to the Terminal Board. (Use +Screw Driver.)	
4	Fan& Motor	1) Disassemble the Fan Motor Wire Connector, Thermistor Wire Connector, Drain Pump Wire Connector and Float Switch Wire Connector. 2) Loosen 4 screws in the mark . (Use +Screw Driver.) 3) Disassemble the Base Control from the Main Body.	   

No	Parts	Procedure	Remark
		4) Disassemble the Rubber Cap Drain Socket to remove the water on the Cushion Drain.(Prepare something like a gutter to put the water in.) * In this point, you can check the Drain Pump Impeller operates well or not. 5) Loosen 8 bolts in the mark  . (Use +Screw Driver.) * At first, there are 2 bolts per one corner and when reassembly, there should be at least 1 bolt per one corner fastened. * 2 Bolts per one corner recommended. 6) Disassemble the Drain Cushion from the Main Body. 7) Loosen the nut.(Use Monkey Spanner.)	    

No	Parts	Procedure	Remark
		8) Take out the Washer. 9) Lift the Fan to disassemble from the Motor. 10) Loosen the screw and disassemble the Motor Connector to disassemble Motor.(Use +Screw Driver.) 11) Loosen 4 screws in the mark . Use +Screw Driver.)	    

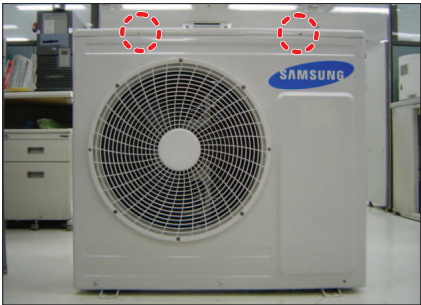
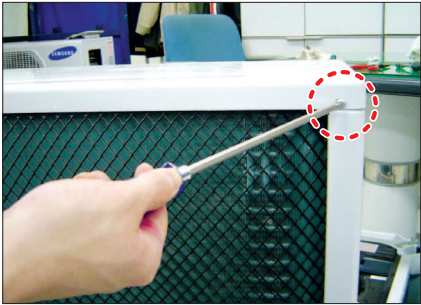
No	Parts	Procedure	Remark
4	Drain Pump	1) Disassemble the Hose from the Drain Pump. 2) Loosen the 3 bolts to disassemble the Drain Pump from the Main Body. (Use +Screw Driver.)	  
5	Heat Exchanger	1) Loosen 2 screws to disassemble the Cover Pipe beside the Main Body. (Use +Screw Driver.) 2) Loosen 2 screws fixing the Holder Evap to disassemble the Heat Exchanger. (Use +Screw Driver.)	 

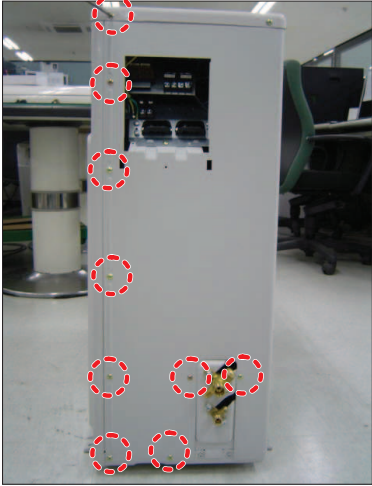
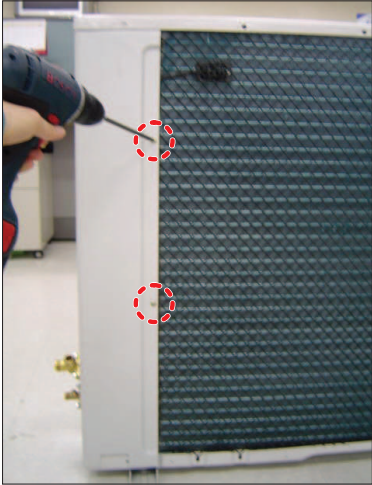
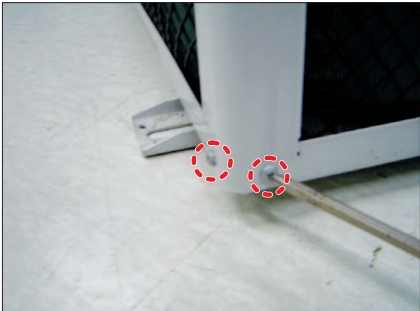
No	Parts	Procedure	Remark
6	Front Panel (PCB Part)	1) Loosen 2 screws to disassemble the Cover PCB.(Use +Screw Driver.) 2) Loosen the screw fixing the PCB to disassemble it.(Use +Screw Driver.) 3) Disassemble the PCB Wire from the PCB. 4) Disassemble the Button PCB from the PCB.	   

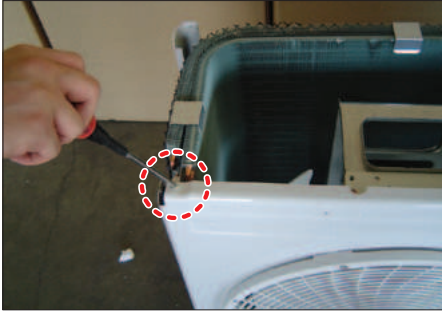
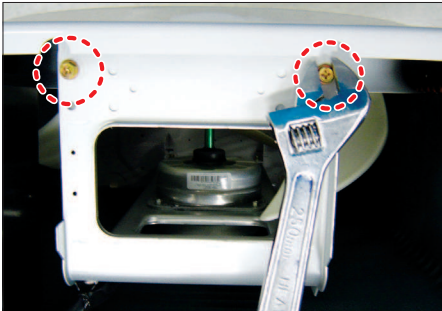
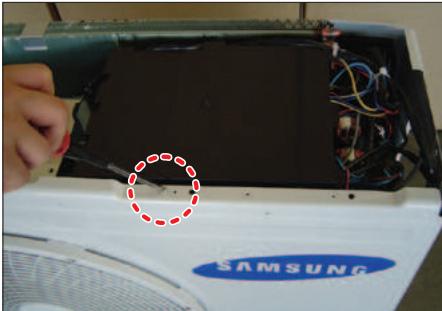
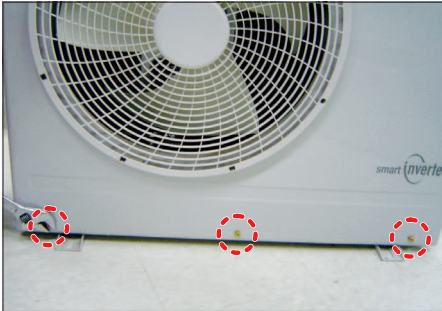
No	Parts	Procedure	Remark
7	Panel Front (Stepping Motor)	1) Loosen the 2 screws fixing the Cover Side.(Use +Screw Driver.) There are 4 Cover Side. 2) Draw 2 hooks then lift up the Cover Side. 3) Disassemble the Stepping Motor Wire Connected. 4) Disassemble the Stepping Motor from the Panel Front. 5) Disassemble the link and bracket from the Stepping Motor.	    

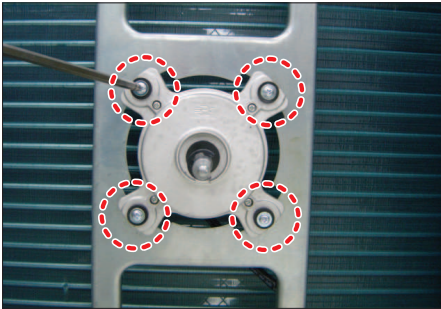
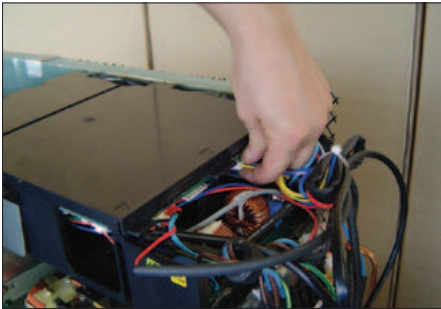
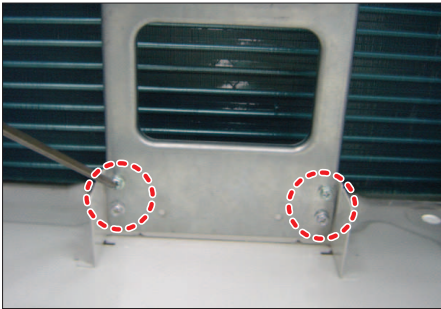
3-2 Outdoor Unit

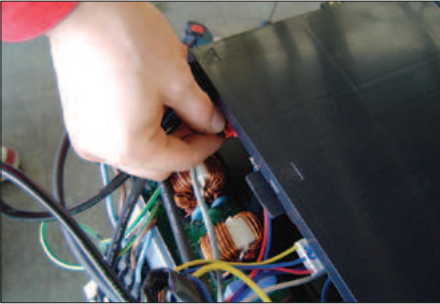
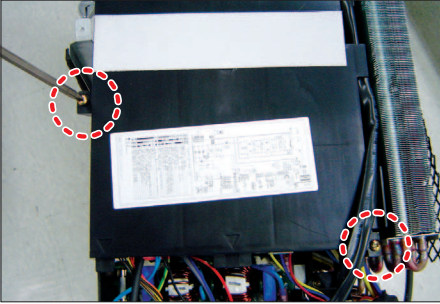
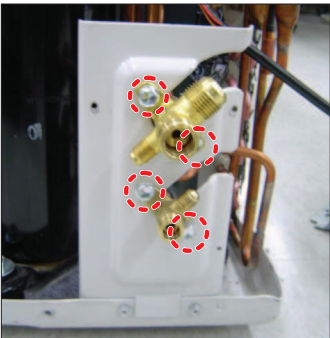
■ UH070EAV1

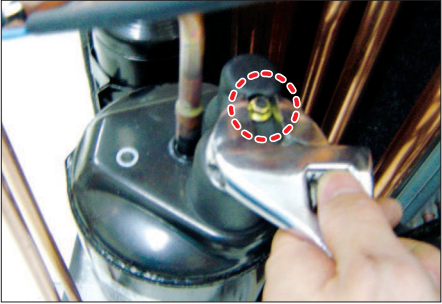
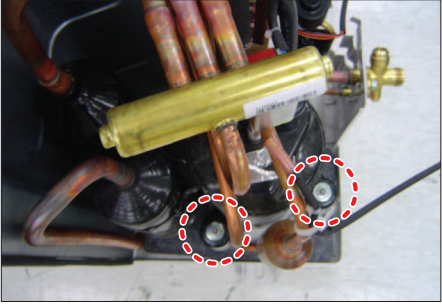
No	Parts	Procedure	Remark
1	Common Work	1) Loosen 1 fixing screw of the Cover-Control and detach the Cover Control. 2) Loosen each 7 fixing screws and detach the Cabinet Upper.	    

No	Parts	Procedure	Remark
		3) Loosen 1 screw fixed to assemble Control Box with Cabinet-Side RH. 4) Loosen fixing screws and detach the Cabinet-Side RH. 5) Loosen 2 screws fixed on the Guide Condenser.	   

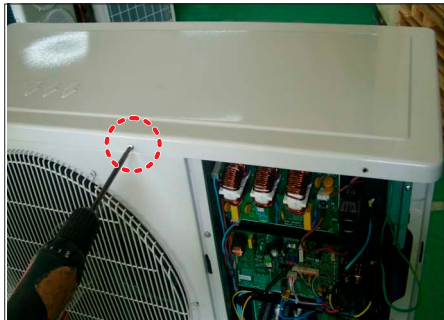
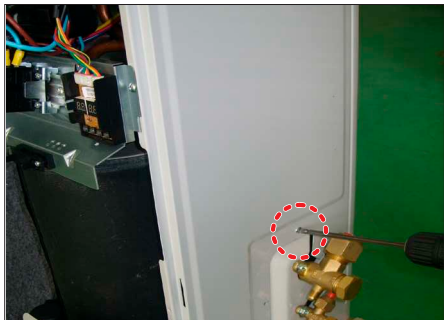
No	Parts	Procedure	Remark
		6) Loosen fixing screws of the Cabinet Front.	   

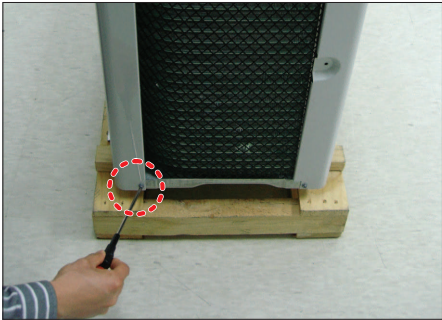
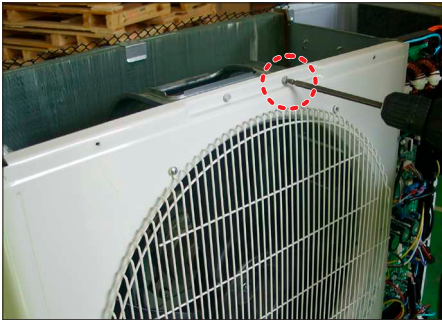
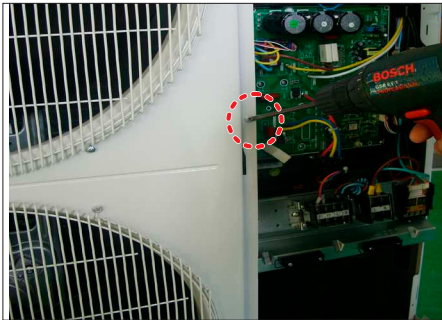
No	Parts	Procedure	Remark
2	Fan & Motor	1) Detach the Nut Flange like the picture on the right side. (Turn counter clockwise because the screw is right-handed.) 2) Detach the Fan Propeller. 3) Loosen 4 fixing screws to detach the Motor. 4) Disconnect the wire between ASS'Y Control Out and Motor. 5) Loosen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

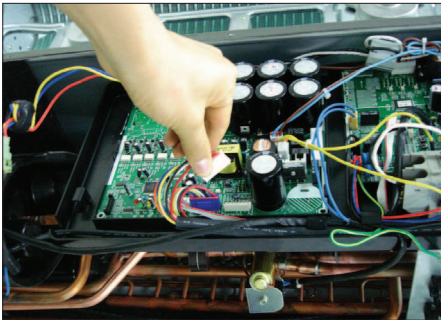
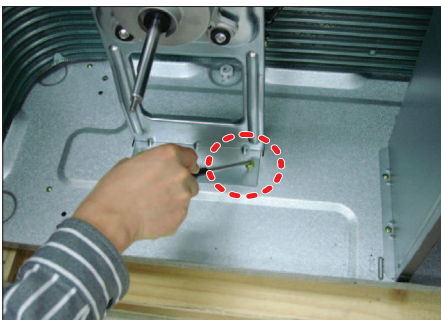
No	Parts	Procedure	Remark
3	ASS'Y Control Out	1) Detach several connectors from the ASS'Y Control Out. 2) Detach several connectors from the PCB of ASS'Y Control Out. 3) Pull up the ASS'Y Control Out.	  
4	Heat Exchanger	1) Release the refrigerant at first. 2) Loosen fixing screw on both sides. 3) Disassemble the pipes in both inlet and outlet with welding torch. 4) Detach the Heat Exchanger. 5) Loosen 4 bolts fixed to assemble Valve Service with Bracket Valve like the picture on the right side.	 

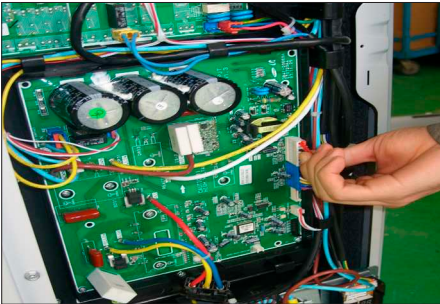
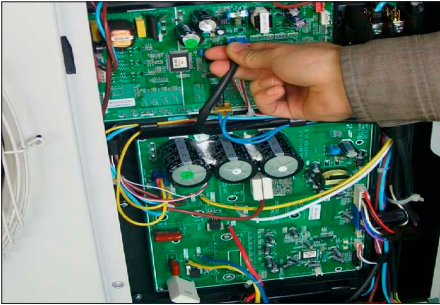
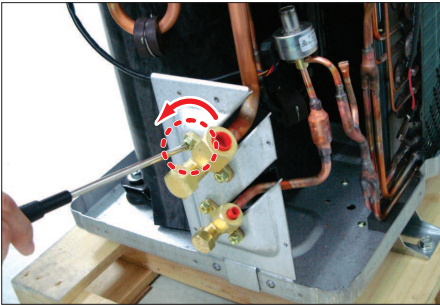
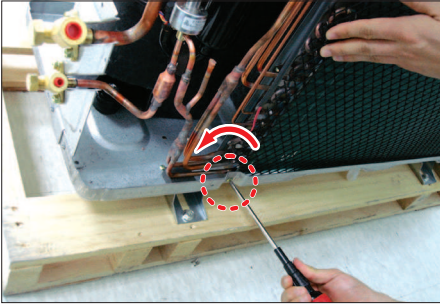
No	Parts	Procedure	Remark
5	Compressor	1) Loosen the fixing nut and detach the Compressor Lead Wire. 2) Disassemble the Felt Compressor Sound. 3) Loosen the 3 bolts at the bottom of Compressor like the picture on the right side.	  

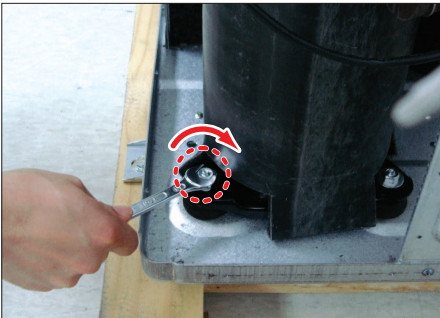
■ UH090/105/140EAV*

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.)	  

MEMO

4. Troubleshooting

4-1 Indoor Display Error and Check Method

■ Error detection and reoperation

- ◆ If error occurs during the operation, badness is indicated by LED flickering and all operation is stopped except LED.
- ◆ When reoperating by remote control and switch determine the error mode after normal operation.

■ Indoor unit LED lamp display at error detecting

Error type	LED lamp display					Remarks
	Operation	Defrost	Timer	Air flow	Filter	
						
Power reset	●	X	X	X	X	
Error of temperature sensor in the indoor unit(Open/Short)	X	X	●	X	X	
Error of heat exchanger sensor in the indoor unit	●	X	●	X	X	
Error of the outdoor temperature sensor Error of the condensor temperature sensor Error of the discharge temperature sensor	●	X	X	●	X	
1. No communication for 2 minutes between indoor units (Communication error for more than 2 minutes) 2. Indoor unit receiving the communication error from outdoor unit 3. Outdoor unit tracking 3 minutes error 4. When sending the communication error from the outdoor unit, the mismatching of the communication numbers and installed numbers after completion of tracking (Communication error for more than 2 minutes)	X	X	●	●	X	
1. Error of electronic expansion valve close 2. Error of electronic expansion valve open 3. 2'nd detection of high temperature cond 4. 2'nd detection of high temperature discharge 5. Error of reverse phase 6. Compressor down due to 6'th detection of freezing	X	X	●	●	●	
Detection of the float switch	X	X	X	●	●	
Error of setting option switches for optional accessories	X	X	●	X	●	
EEPROM option error	●	●	●	●	●	

● : On, ◐ : Flickering, X: OFF

※ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

4-1-1 Wired Remocon Error Display(COM2)

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

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

Display	Explanation	Remark
101	Indoor unit Communication Error	Communication Error
102	Indoor/Outdoor unit Communication Time Out Error 60 Packet Over data	
201	Indoor unit is not connected	
203	Communication Error between Outdoor Main and Inverter Micom (Occurred after 1 minute detection in Main and Inverter)	
121	Indoor Temp. Sensor(Open/Short Error)	Indoor Sensor Error
122	Indoor Unit Eva in Sensor(Open/Short Error)	
128	Indoor Unit Eva in Sensor Separation	
221	Outdoor Temp. Sensor Error(Open/Short Error)	Outdoor Sensor Error
237	COND Temp. Sensor Error(Open/Short Error)	
251	Inverter Compressor Discharge Temp. sensor Error(Open/Short Error)	
425	Power cable miss connection error	
153	Indoor Float Switch 2nd Detection	Self Diagnosys Error
460	Outdoor unit - indoor unit communication wire miss connection (Connected to Power terminal)	
554	Outdoor unit refrigerant Full leakage(Gas leak)	
458	Outdoor Fan 1 Error	
475	Outdoor Fan 2 Error	
416	Discharge over temperature	Outdoor Unit Protetion Control Error
461	[Inverter] Compressor starting error	
462	Primary Current Over Trip error	
464	[Inverter] IPM Over Current (O.C)	
467	[Inverter] Compressor Rotation error	
468	[Inverter] Current Sensor error	
469	[Inverter] DC LINK Sensor error	
477	[Inverter] EEPROM Read/Write Error	

Display	Explanation	Remark
404	[Inverter] Heatsink temperature over Error	Outdoor Unit Protection Control Error
556	Outdoor unit Capacity Setup option error	
608	Communication error between Indoor unit and wired remote control	Wired remote control error
602	Communication error between Master and Slave wired remote control	
606	COM1/COM2 Cross-installed error	
8EA	Error of setting option for wired remote control COM2	

4-2 Outdoor LED Error Display and Check Method

No.	LED Display			Explanation	Error Code
	Yellow	Green	Red		
1	○	○	○	Power off/ VDD NG	-
2	○	○	◎	IPM Over Current(O.C)	464
3	○	○	●	Abnormal Serial communication/ Power Cable Miss Connection	203
	○	●	●		
4	○	◎	○	Compressor Starting error	461
5	○	◎	●	Normal Operation	-
6	○	●	○	Compressor Lock error	473
7	○	●	◎	DC-Link voltage under/over error	466
8	◎	○	◎	Outdoor temperature sensor error	221
9	◎	○	●	Discharge over temperature	476
10	◎	◎	○	Discharge temperature sensor error	251
11	◎	◎	●	Current sensor error	468
12	◎	●	○	Compressor Limit error	465
13	◎	●	◎	Coil temperature sensor error	230
14	◎	●	●	1min. Time out Communication	202
15	●	○	○	Fan error	458 (FAN1)
					475 (FAN2)
16	●	○	◎	OTP error	471
17	●	○	●	Compressor rotation error	467
18	●	◎	○	Operation condition secession	440 (Heating)
					441 (Cooling)
19	●	◎	◎	DC-Link voltage sensor error	469
20	●	◎	●	I_Trip error	462
21	●	●	○	GAS Leak error	554
22	●	●	◎	Power Cable miss connection	425
23	●	●	●	Power ON reset(1sec)	-
24	◎	○	○	Capacity miss match	556
25	○	◎	◎	Test Operation at Cooling Mode	-
26	◎	◎	◎	Test Operation at Heating Mode	-

● : LED ON, ○ : LED OFF, ◎ : LED BLINK

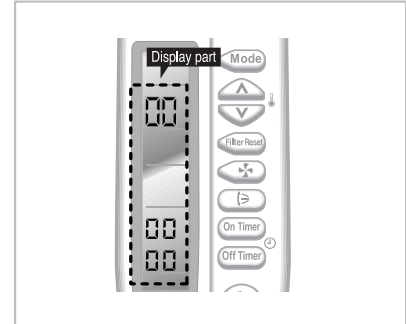
4-3 Setting Option Setup Method

4-3-1 Type A (Setting Option)

Option No.: 045770-128000

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 .

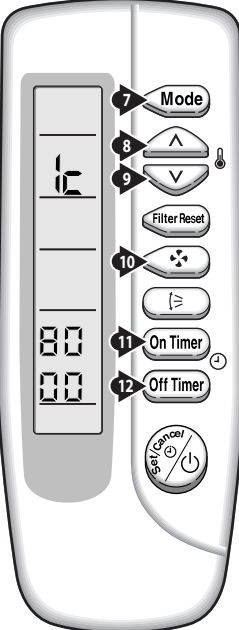


Step 2: Enter the Option Setup mode and select your option according to the following procedure.



- 1
The default value is .
Otherwise, push the  button to 0.
Every time you push the button, the display panel reads 1 or 0 repeatedly.
- 2
Push the  button to set the display panel to 4.
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.
- 3
Push the  button to set the display panel to 5.
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.
- 4
Push the  button to set the display panel to 7.
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.
- 5
Push the  button to set the display panel to 7.
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.
- 6
Push the  button to set the display panel to 0.
Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F repeatedly.

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



- 7 Press button, then the default value is .
- 8 Push the button to set the display panel to *c* .
Every time you push the button, the display panel reads *0* → *1* → *2* → *3* → ... *9* → *A* → *b* → *c* → *d* → *E* → *F* repeatedly.
- 9 Push the button to set the display panel to *8* .
Every time you push the button, the display panel reads *0* → *1* → *2* → *3* → ... *9* → *A* → *b* → *c* → *d* → *E* → *F* repeatedly.
- 10 Push the button to set the display panel to *0* .
Every time you push the button, the display panel reads *0* → *1* → *2* → *3* → ... *9* → *A* → *b* → *c* → *d* → *E* → *F* repeatedly.
- 11 Push the button to set the display panel to *0* .
Every time you push the button, the display panel reads *0* → *1* → *2* → *3* → ... *9* → *A* → *b* → *c* → *d* → *E* → *F* repeatedly.
- 12 Push the button to set the display panel to *0* .
Every time you push the button, the display panel reads *0* → *1* → *2* → *3* → ... *9* → *A* → *b* → *c* → *d* → *E* → *F* repeatedly.

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

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

Press the Mode Selection key, to set the display part to and check the display part.

➔ The display part shows .

Press the Mode Selection key, set the display part to *1* and check the display part.

➔ The display part shows .

Step 4 : Pressing the ON/OFF button()

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

Step 5 : Unit operation test-run

First, Remove the battery from the remote control.

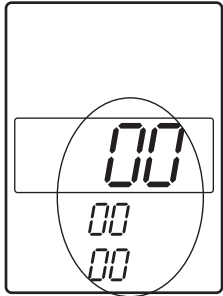
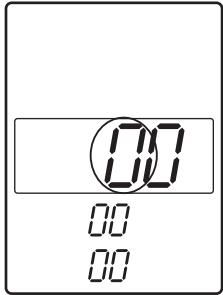
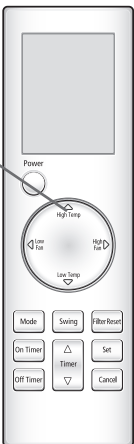
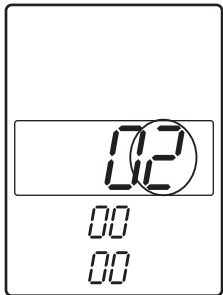
Second, Re-insert the battery into the remote control.

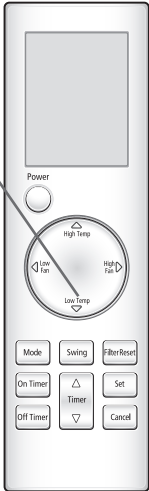
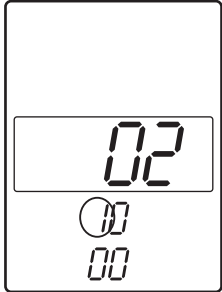
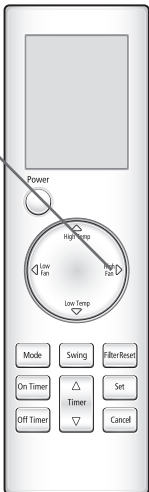
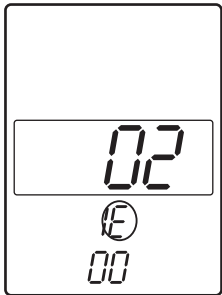
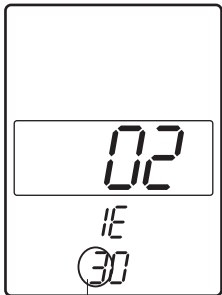
Third, Press ON/OFF button() with the direction of remote control for set.

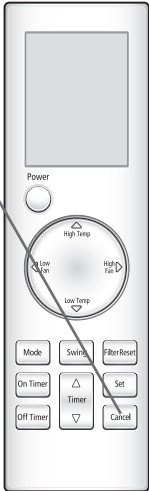
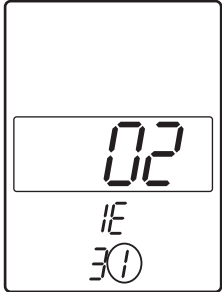
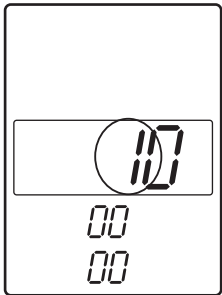
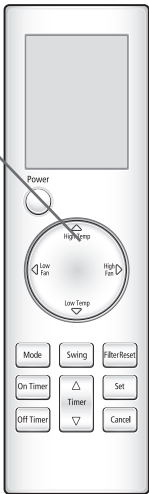
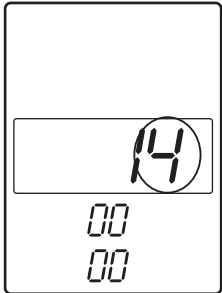
• Error Mode

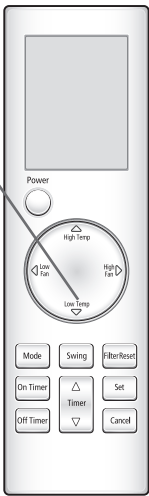
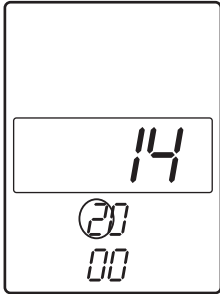
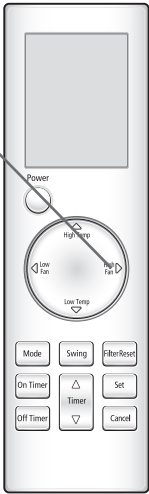
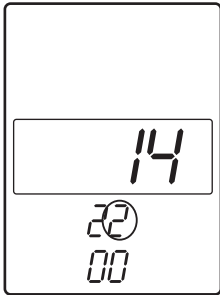
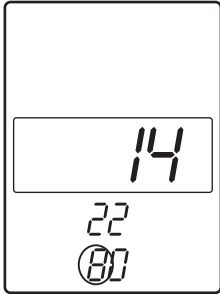
- 1st If all lamps of indoor unit are flickering, Plug out, plug in power plug again and press ON/OFF key to retry.
- 2nd If the unit is not working properly or all lamps are continuously flickering after setting the option code, see if the correct option code is set up for its model.

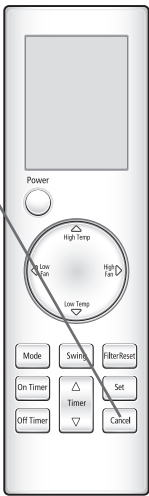
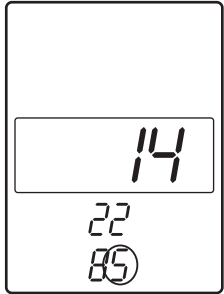
4-3-2 Type B(Setting Option Setup Method)

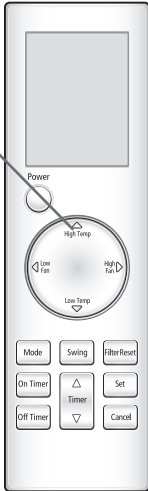
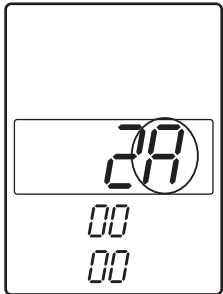
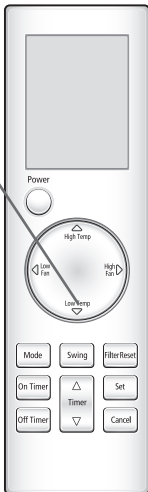
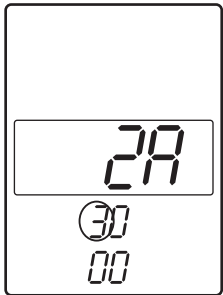
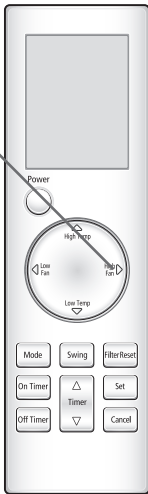
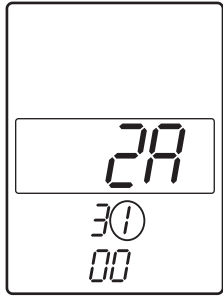
Operation method	Applicable button	Indicating state
※ Step 1 <u>Method)</u> ① Remove the battery of remote controller. ② Push the Off Timer and Cancel button simultaneously. ③ Insert the battery. <u>Result)</u> When the display of remote controller is indicated as shown in the right, then go to the step 2.		
※ Step 2 <u>Method)</u> If the first digit of remote controller shows "0", go to the step 3. • If it shows 1, press the Mode button one time to change it into 0 and then go to step 3.		
※ Step 3 <u>Method)</u> Input the second digit of option code by pressing the High Temp button. example) 021E311422852A311439421F <u>Result)</u> If 2 is displayed, go to the step 4 (whenever pressing the button, 1~9, A,B,C,D,E,F are lit in order.)		

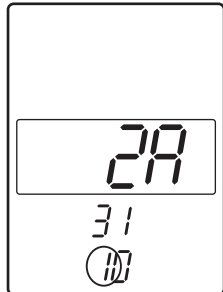
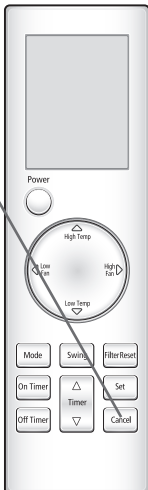
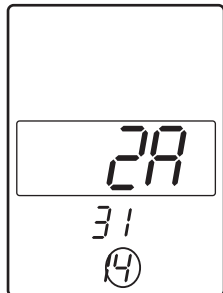
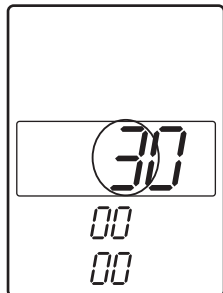
Operation method	Applicable button	Indicating state
*Step 4 <u>Method)</u> Input the third digit of option code by pressing the Low Temp button. example) 021E311422852A311439421F <u>Result)</u> If 1 is displayed, go to the step 5.		
* Step 5 <u>Method)</u> Input the fourth digit of option code by pressing the High Fan button. example) 021E311422852A311439421F <u>Result)</u> If E displays, go to step 6.		
* Step 6 <u>Method)</u> Input the fifth digit of option code by pressing the On Timer button. example) 021E311422852A311439421F <u>Result)</u> If 3 displays, go to step 7.		 SEG5

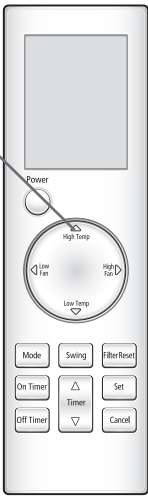
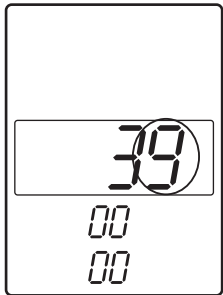
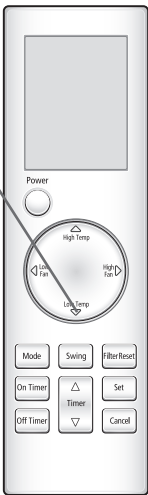
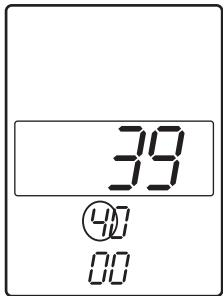
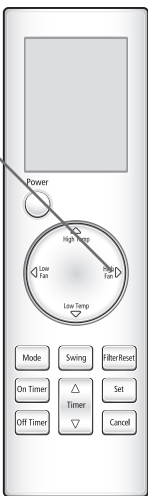
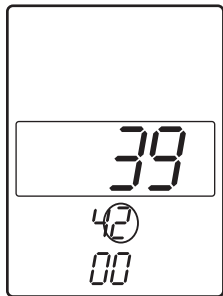
Operation method	Applicable button	Indicating state
* Step 7 <u>Method)</u> Input the sixth digit by pressing the Cancel button. example) 021E3<u>1</u>1422852A311439421F <u>Result)</u> If 1 displays, go to step 8.		
* Step 8 <u>Method)</u> After completion up to step 7, pressing Mode button. ① 1~7 steps are saved internally. ② If the first number is 1 at the time, it is correct. So go to step 9. • If wanting to see the screen of 2~7 steps, press the mode button repeatedly to make the first digit 0.		
*Step 9 <u>Method)</u> Input the eighth digit by pressing the High Temp button. example) 021E311<u>4</u>22852A311439421F <u>Result)</u> If 4 displays, go to step 10.		

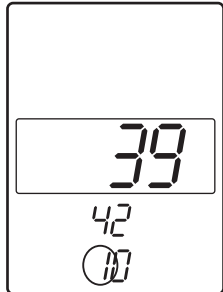
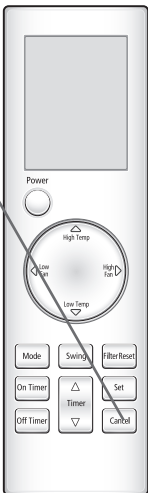
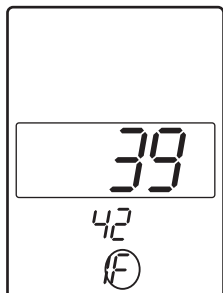
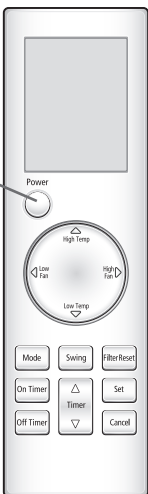
Operation method	Applicable button	Indicating state
※ Step 10 <u>Method)</u> Input the ninth digit by pressing the Low Temp button. example) 021E311422852A311439421F <u>Result)</u> If 2 displays, go to step 11.		
※Step 11 <u>Method)</u> Input the tenth digit by pressing the High Fan button. example) 021E311422852A311439421F <u>Result)</u> If 2 displays, go to step 12.		
※Step 12 <u>Method)</u> Input the 11st digit by pressing the On Timer button. example) 021E311422852A311439421F <u>Result)</u> If 8 displays, go to step 13.		

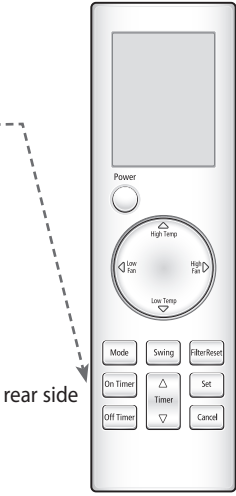
Operation method	Applicable button	Indicating state
※ Step 13 <u>Method)</u> Input the 12th digit by pressing the Cancel button. example) 021E311422852A311439421F <u>Result)</u> If 5 displays, go to step 14.		
※ Step 14 <u>Method)</u> After completion up to step 13, pressing Mode button. ① Previous steps are saved internally. ② If the first number is 2 at the time, it is correct. So go to step 15. • If wanting to see previous screen, press the mode button repeatedly to make the first digit to with digit.		❏ Error ① If the On/Off, Timer and Fan indicator is flickering, the wrong option code is input. Put off the power of indoor unit and turn it on again and then input the option code again. If the same error occurs, it is the EEPROM is defective or not inserted. Replace the PCB. ② If all of On/Off, Timer, Fan and Filter Sign indicator are flickering along with the "Tirring" sound, there is option code already input which are different from the current ones. Check the option code and press the button again if correct. Option code will be input.(Check the option code correctly. At the time, if the same error continues to occur, the option code is out of input range. Check the option code again and repeat the step 1~14.

Operation method	Applicable button	Indicating state
※ Step 15 <u>Method)</u> Input the 14th digit by pressing the High Temp button. ————— example) 021E311422852A311439421F <u>Result)</u> If A displays, go to step 16.		
※ Step 16 <u>Method)</u> Input the 15th digit by pressing the Low Temp button. ————— example) 021E311422852A311439421F <u>Result)</u> If 3 displays, go to step 17.		
※ Step 17 <u>Method)</u> Input the 16th digit by pressing the High Fan button. ————— example) 021E311422852A311439421F <u>Result)</u> If 1 displays, go to step 18.		

Operation method	Applicable button	Indicating state
※ Step 18 <u>Method)</u> Input the 17th digit by pressing the On Timer button. _____ example) 021E311422852A311439421F <u>Result)</u> If 1 displays, go to step 19.		
❖ Step 19 <u>Method)</u> Input the 18th digit by pressing the Cancel button. _____ example) 021E311422852A311439421F <u>Result)</u> If 4 displays, go to step 20.		
※ Step 20 <u>Method)</u> After completion up to step 20, pressing Mode button. ① Previous steps are saved internally. ② If the first number is 3 of the time, it is correct. so go to step 22. • If wanting to see previous screen, press the mode button repeatedly to make the first digit to with digit.		

Operation method	Applicable button	Indicating state
※ Step 21 <u>Method)</u> Input the 20th digit by pressing the High Temp button. example) 021E311422852A31143<u>9</u>421F <u>Result)</u> If 9 displays, go to step 22.		
※ Step 22 <u>Method)</u> Input the 21th digit by pressing the Low Temp button. example) 021E311422852A31143<u>9</u>421F <u>Result)</u> If 4 displays, go to step 23.		
❖ Step 23 <u>Method)</u> Input the 22th digit by pressing the High Fan button. example) 021E311422852A3114394<u>2</u>1F <u>Result)</u> If 2 displays, go to step 24.		

Operation method	Applicable button	Indicating state
※ Step 24 <u>Method)</u> Input the 23th digit by pressing the On Timer button. ————— example) 021E311422852A311439421F <u>Result)</u> If 1 displays, go to step 25.		
※ Step 25 <u>Method)</u> Input the 24th digit by pressing the Cancel button. ————— example) 021E311422852A31143942F <u>Result)</u> If F displays, go to step 26.		
※ Step 26 <u>Method)</u> Turn the remote controller toward the indoor unit and press the Power button, and if the "Ting" or "Tiring" sounds, the input of option is completed. ————— • If error displays, solve the problem with reference to the right side.		❏ Error ① If the On/Off, Timer and Fan indicator is flickering, the wrong option code is input. Put off the power of indoor unit and turn it on again and then input the option code again. If the same error occurs, it is the EEPROM is defective or not inserted. Replace the PCB. ② If all of On/Off, Timer, Fan and Filter Sign indicator are flickering along with the "Tiring" sound, there is option code already input which are different from the current ones. Check the option code and press the button again if correct. Option code will be input.(Check the option code correctly. At the time, if the same error continues to occur, the option code is out of input range. Check the option code again and repeat the step 1~26.

Operation method	Applicable button	Indicating state
✳ Step 27 Method) If the steps 1 to 26 are completed, remove the battery and insert it again to return to the original display of remote controller. (Operation mode/SET TEMP. /fan speed displays.)	 rear side	□ Error ① If the On/Off, Timer and Fan indicator is flickering, the wrong option code is input. Put off the power of indoor unit and turn it on again and then input the option code again. If the same error occurs, it is the EEPROM is defective or not inserted. Replace the PCB. ② If all of On/Off, Timer, Fan and Filter Sign indicator are flickering along with the "Tirring" sound, there is option code already input which are different from the current ones. Check the option code and press the button again if correct. Option code will be input.(Check the option code correctly. At the time, if the same error continues to occur, the option code is out of input range. Check the option code again and repeat the step 1~26.

OPTION ITEMS

MODEL	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
CH090EAV	0	4	5	7	7	7	1	E	8	2	0	A
CH105EAV	0	4	5	7	7	7	1	1	C	2	2	A
CH140EAV	0	4	6	7	7	7	1	3	C	2	4	E
CH070EAV1	0	4	5	7	7	7	1	C	8	0	F	B

4-4 Items to be checked first

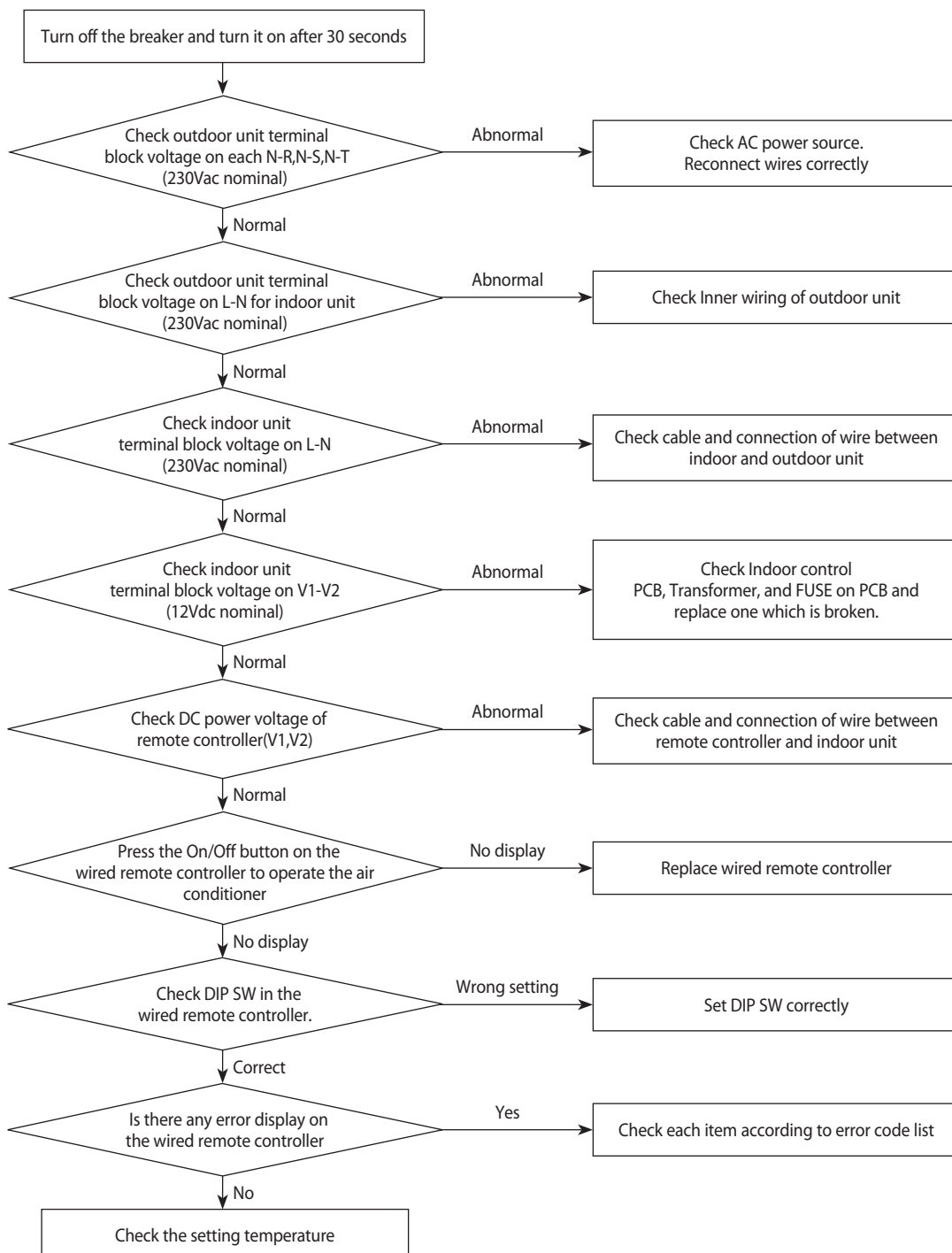
1. The input voltage should be rating voltage $\pm 10\%$ range.
The air conditioner may not operate properly if the voltage is out of this range.
2. Is the link cable linking the indoor unit and the outdoor unit linked properly?
The indoor unit and the outdoor unit shall be linked by 4 cables.
Check the terminals if the indoor unit and outdoor unit are properly linked by the same number of cables.
Otherwise the air conditioner may not operate properly.
3. When a problem occurs due to the contents illustrated in the table below it is a symptom not related to the malfunction of the air conditioner.

No	Operation of air conditioner	Explanation
1	In a COOL operation mode, the compressor does not operate at a room temperature higher than the setting temperature that the INDOOR FAN should operate. [In case of heat pump model] In a HEAT operation mode, the compressor does not operate at a room temperature lower than the setting temperature that indoor fan should operate.	In happens after a delay of 3 minutes when the compressor is reoperated. The same phenomenon occurs when a power is on. As a phenomenon that the compressor is reoperated after a delay of 3 minutes, the indoor fan is adjusted automatically with reference to a temperature of the air blew.
2	Compressor stops operation intermittently in DRY() mode.	Compressor operation is controlled automatically in DRY mode depending on the room temperature and humidity.
3	[In case of heat pump model] Compressor of the outdoor unit is operating although it is turned off in a HEAT mode.	When the unit is turned off while de-ice is activated, the compressor continues operation for up to 12 minutes(maximum) until the deice is completed.
4	[In case of heat pump model] The compressor and indoor fan stop intermittently in HEAT mode.	The compressor and indoor fan stop intermittently if room temperature exceeds a setting temperature in order to protect the compressor from overheated air in a HEAT mode.
5	[In case of heat pump model] Indoor fan and outdoor fan stop operation intermittently in a HEAT mode.	The compressor operates in a reverse cycle to remove exterior ice in a HEAT mode, and indoor fan and outdoor fan do not operate intermittently for within 20% of the total heater operation

4-5 Fault Diagnosis by Symptom

4-5-1 No Power(completely dead) - Initial diagnosis

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 MAIN PCB of Outdoor unit lit?
 - 4) Is terminal voltage for indoor unit normal?(230Vac nominal)
 - 5) Is Wired remote controller installed correctly?
2. Troubleshooting procedure

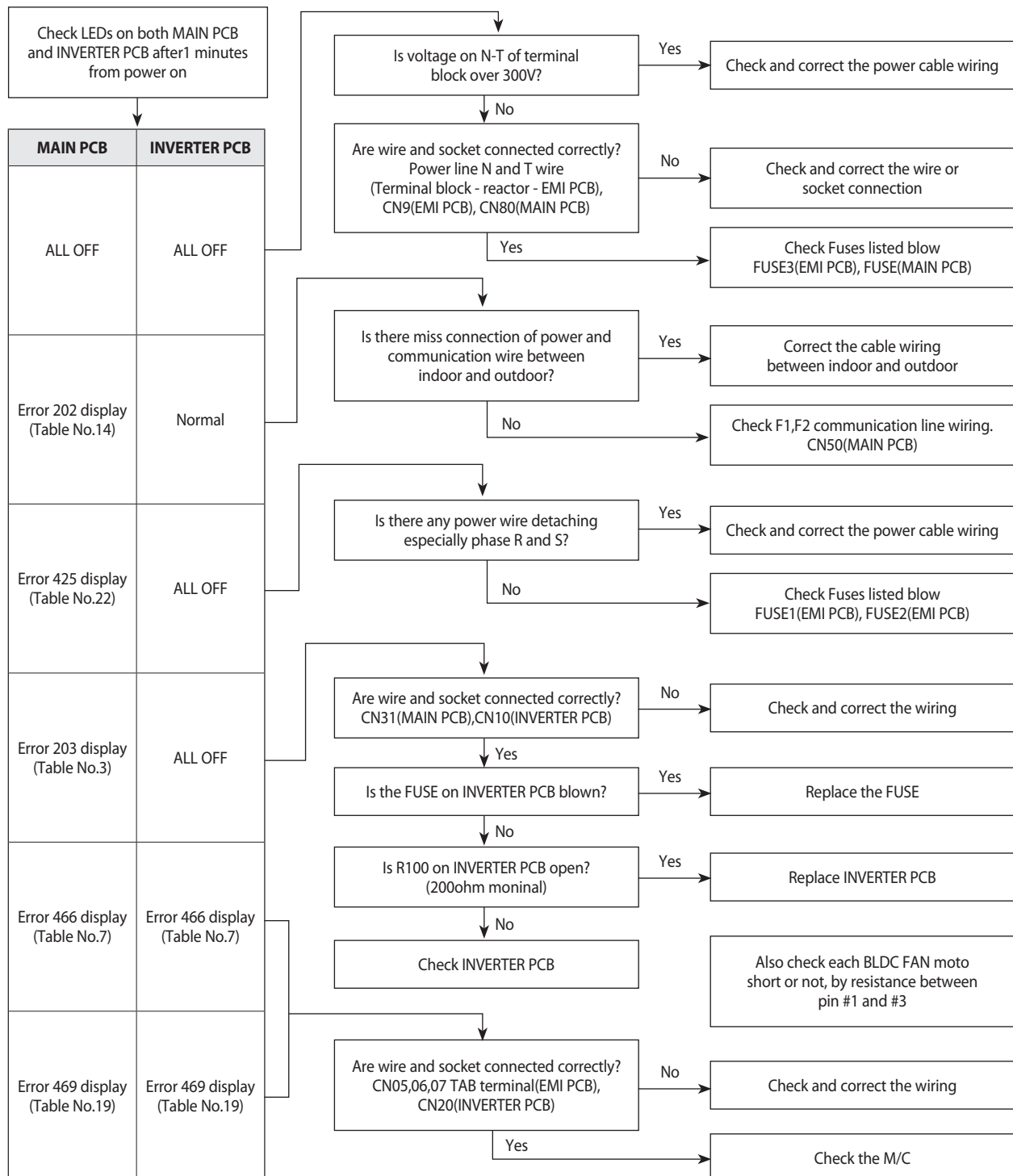


4-5-2 The Outdoor unit Power Supply error

1. Checklist:

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

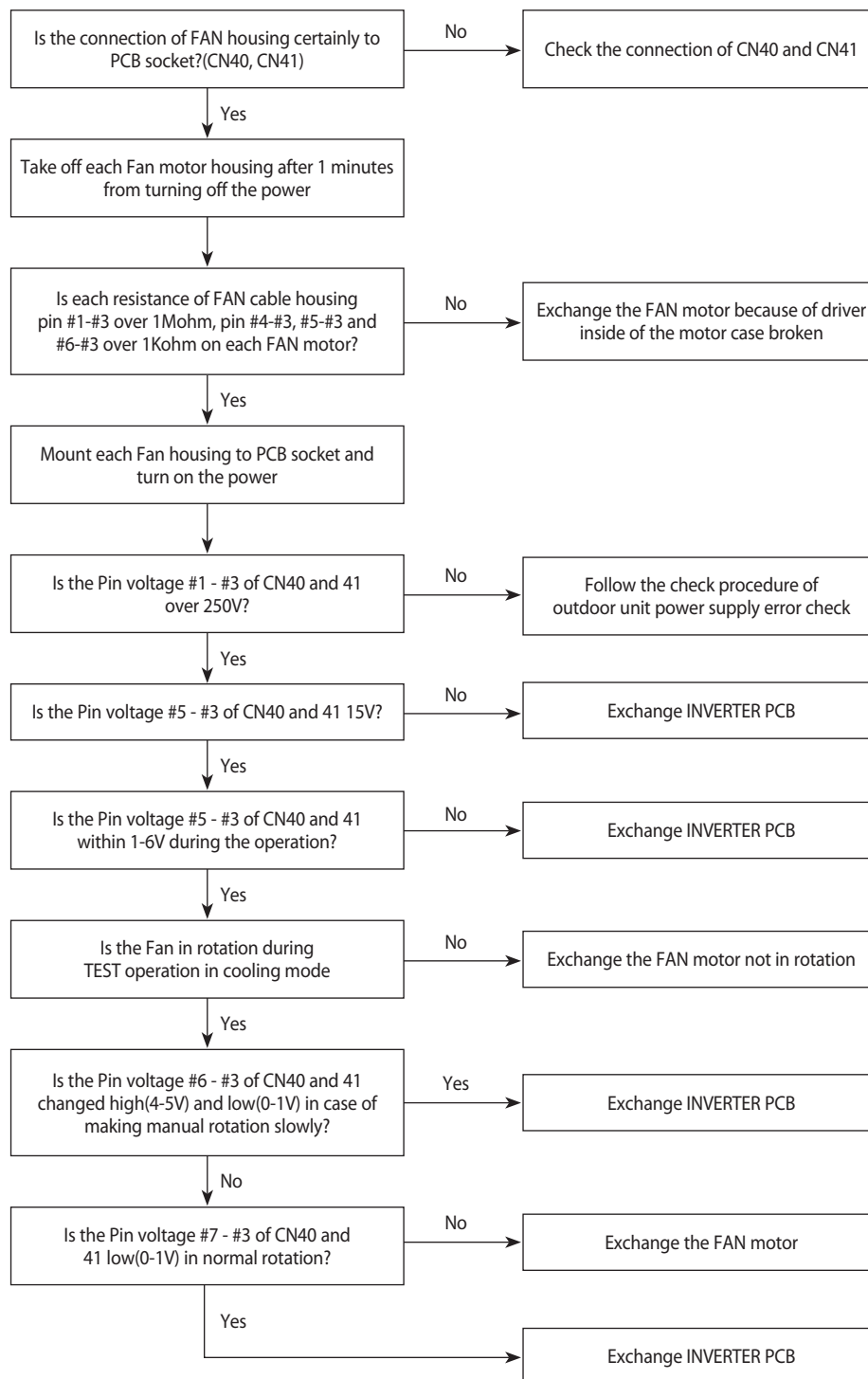
2. Troubleshooting procedure



4-5-3 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.

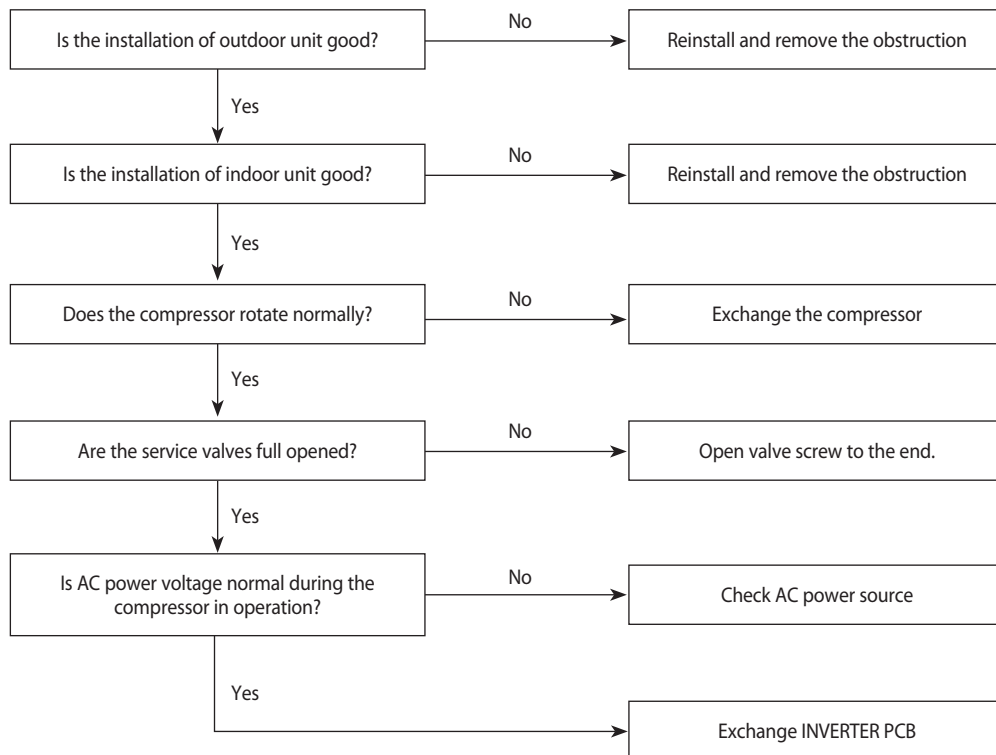
- once : cooling mode
- twice in a second : heating mode

4-5-4 Total current trip error

1. Checklist :

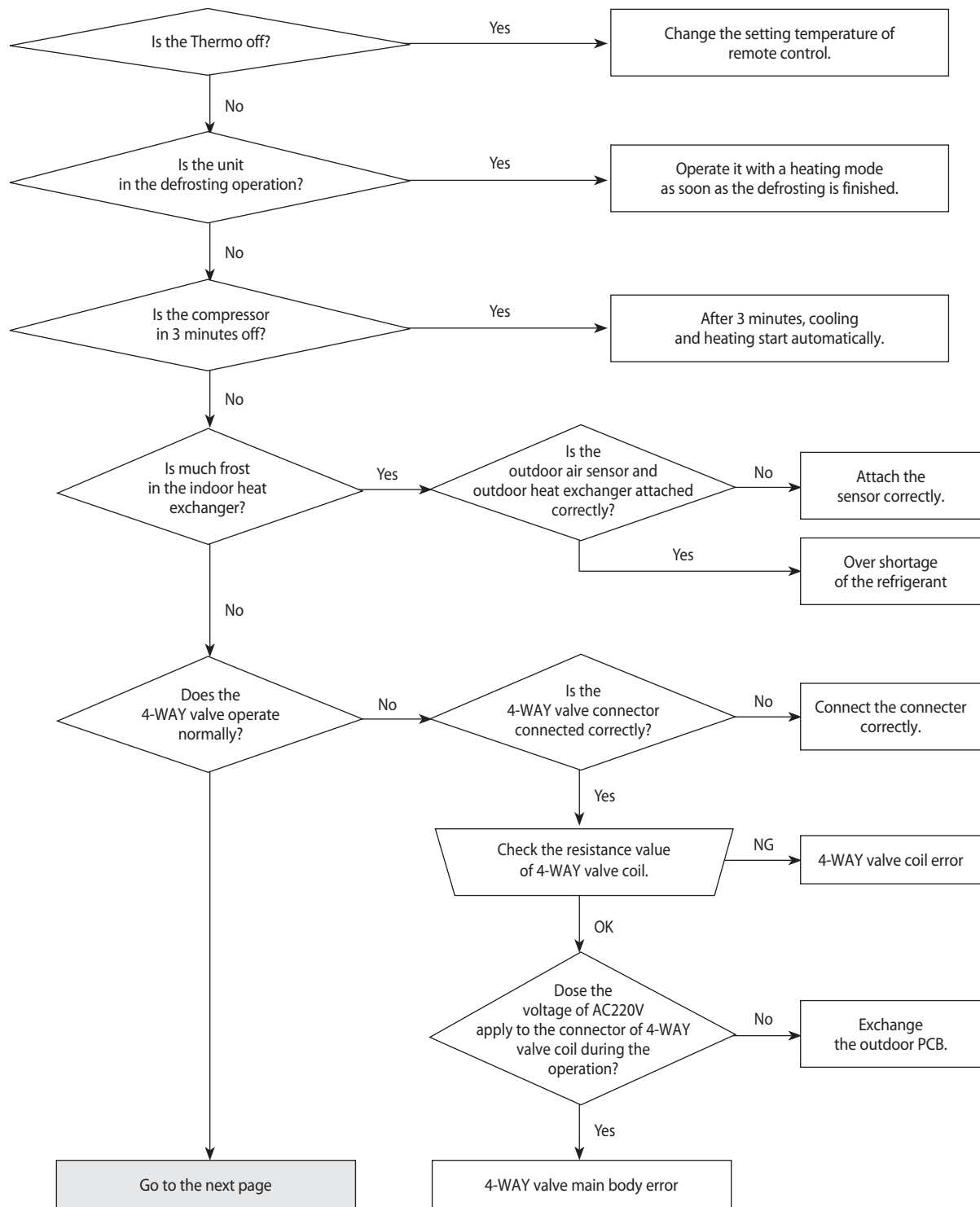
- 1) Is the input power voltage proper?
- 2) Is the refrigerant charged properly?
- 3) Does the compressor rotate normally?(Reverse rotation, Locking etc.)
- 4) Does the outdoor fan operate normally?(Fan propeller loss, Motor error ect.)
- 5) Is the installation condition of outdoor unit good?(Piping, 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

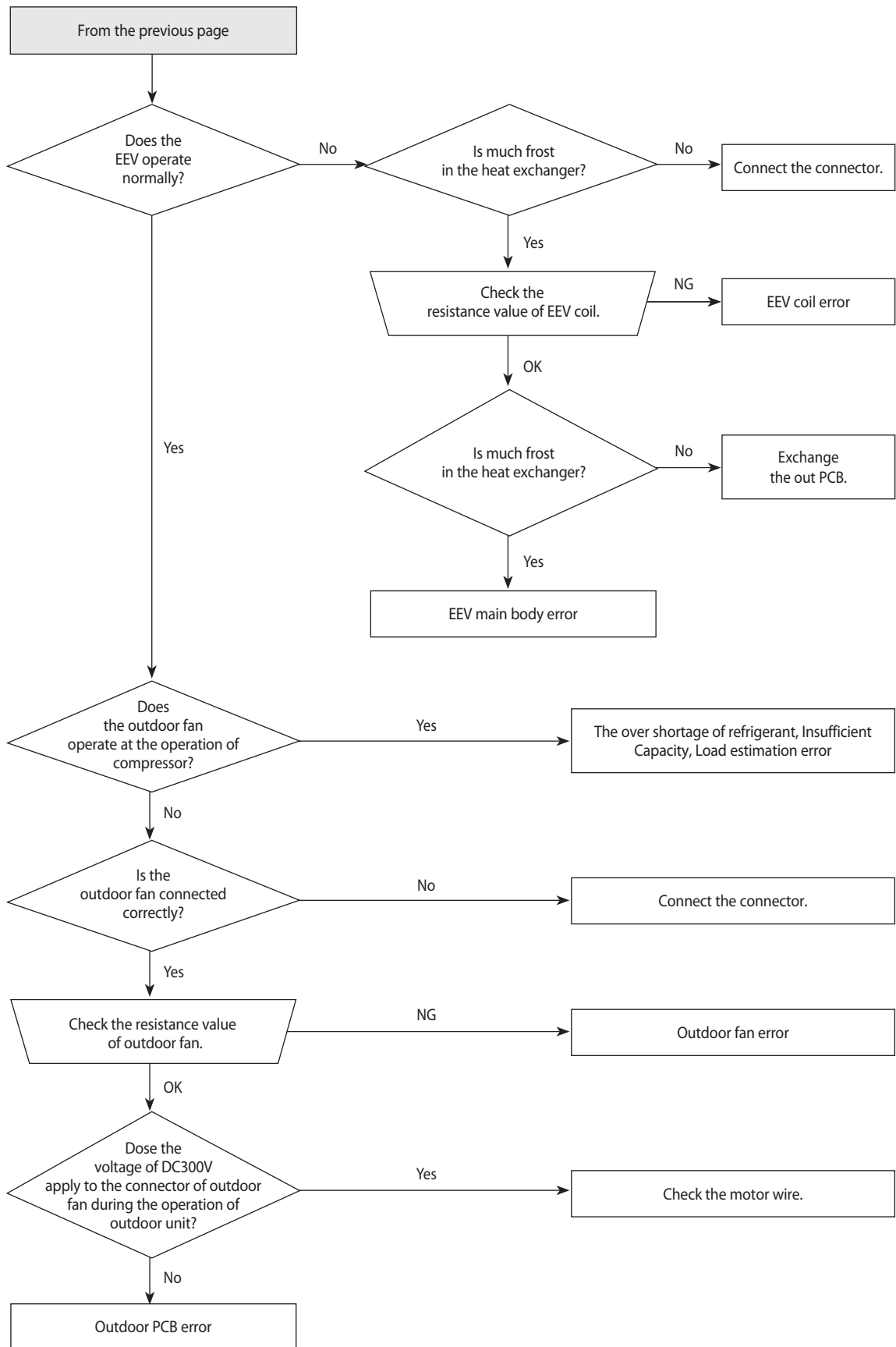


4-5-5 In case of heating at the cooling mode or cooling at the heating mode

1. Troubleshooting procedure



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

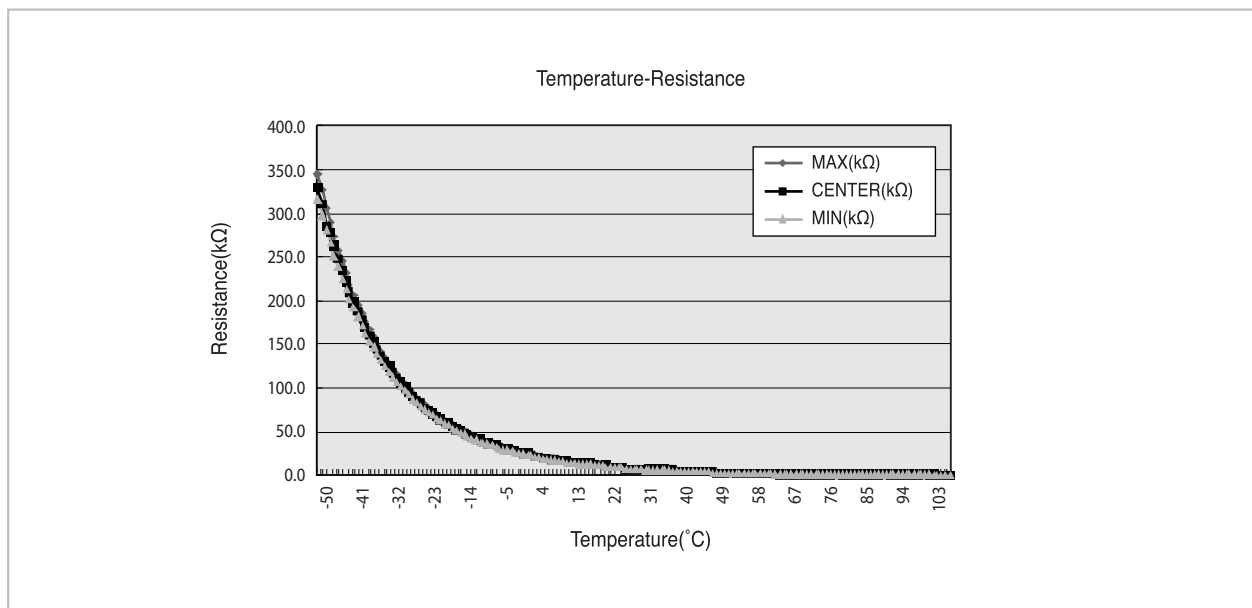
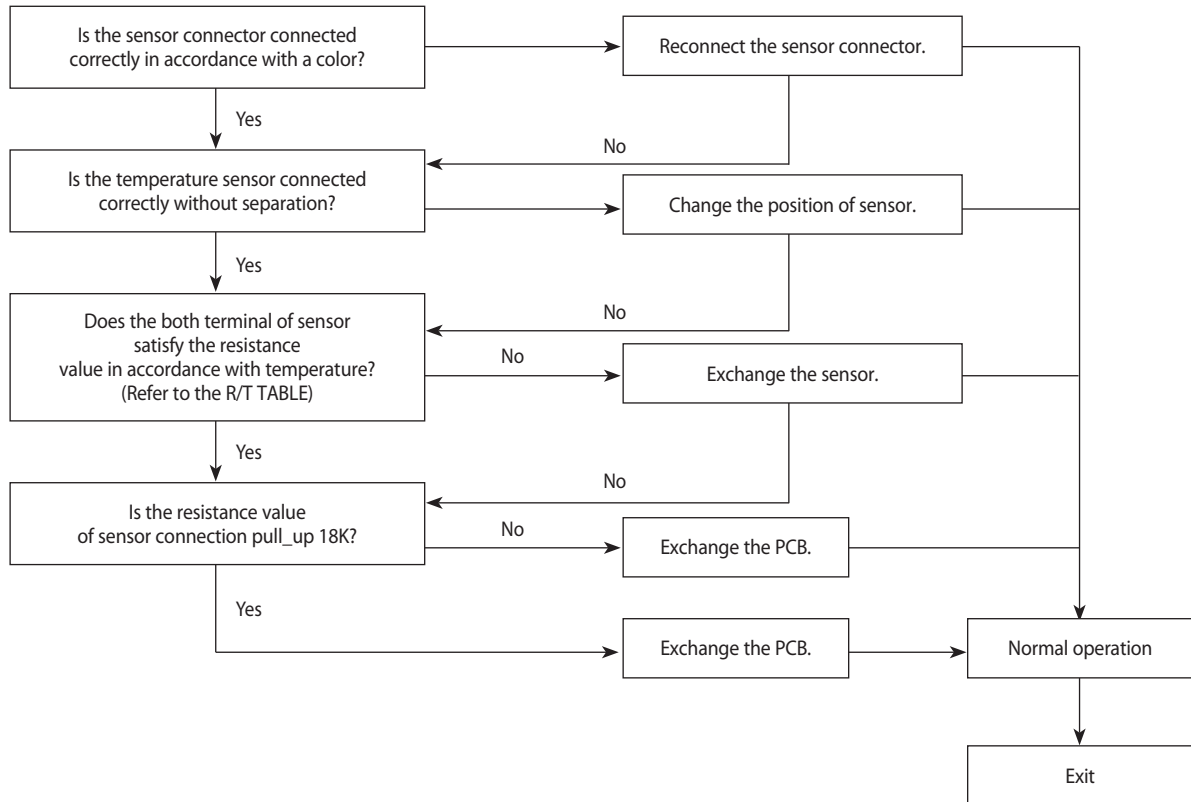


4-5-6 Outdoor temperature sensor error

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

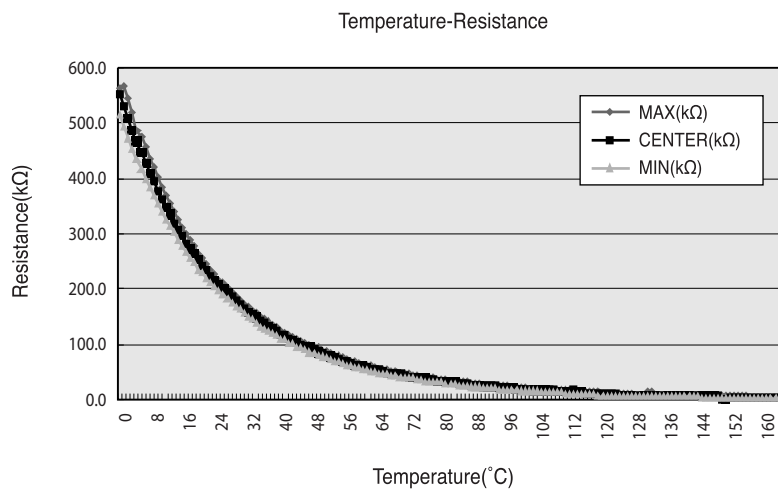
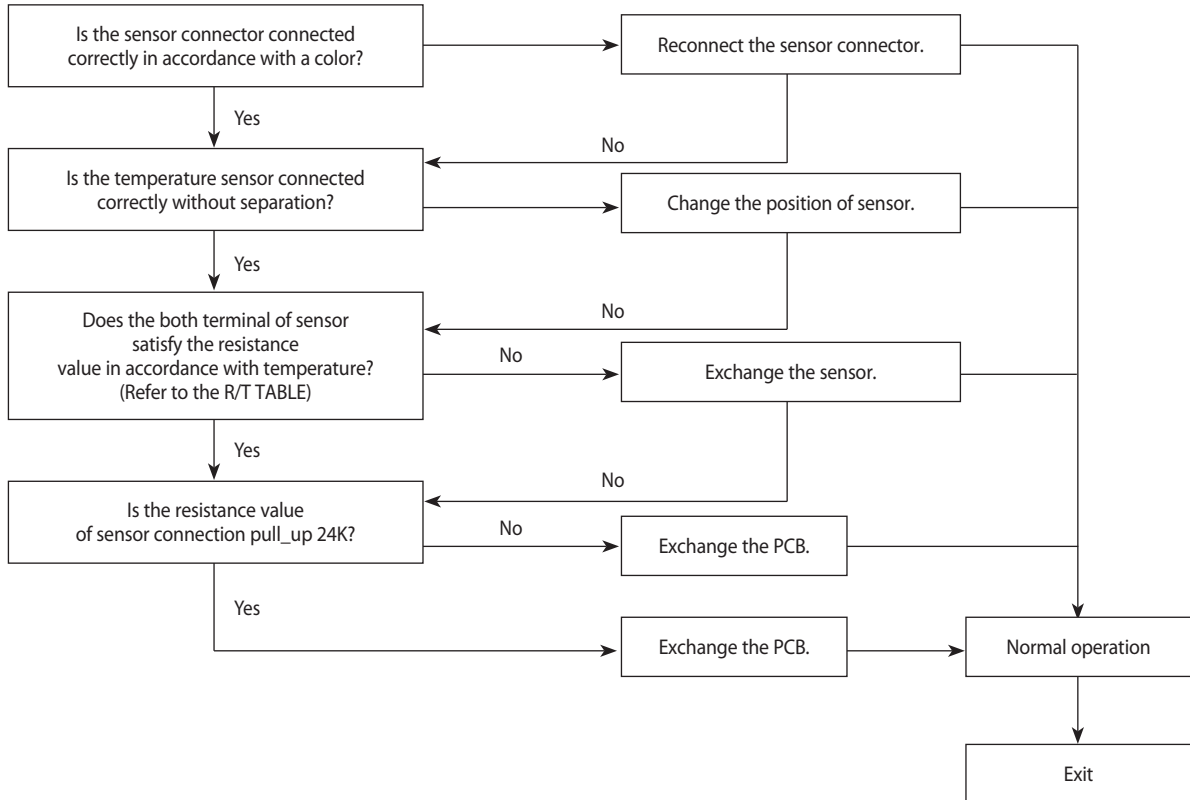


4-5-7 Discharge temperature sensor error

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

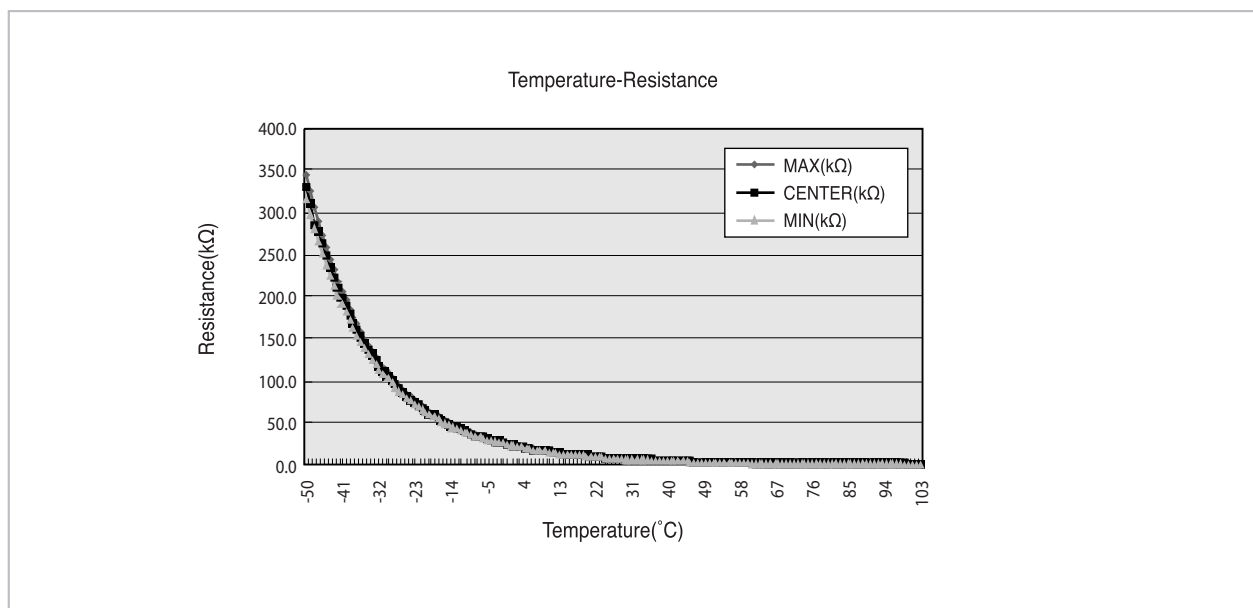
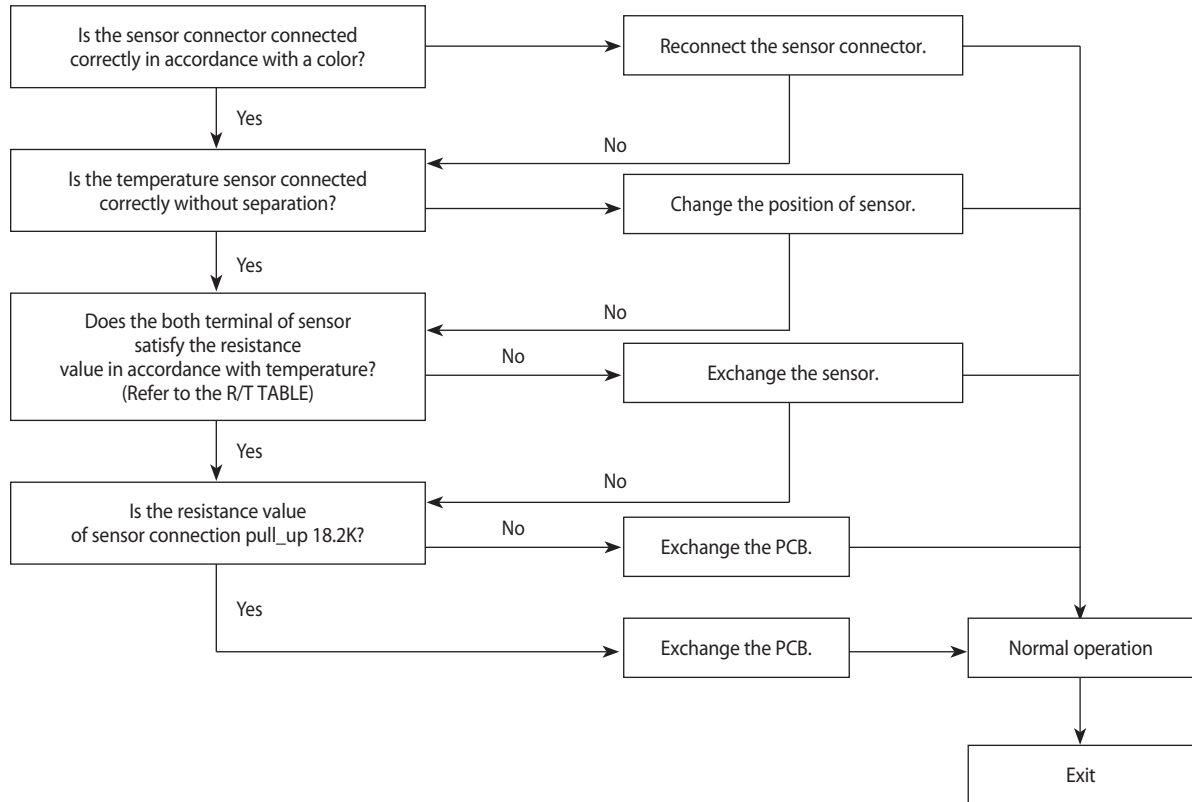


4-5-8 Coil temperature sensor error

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?

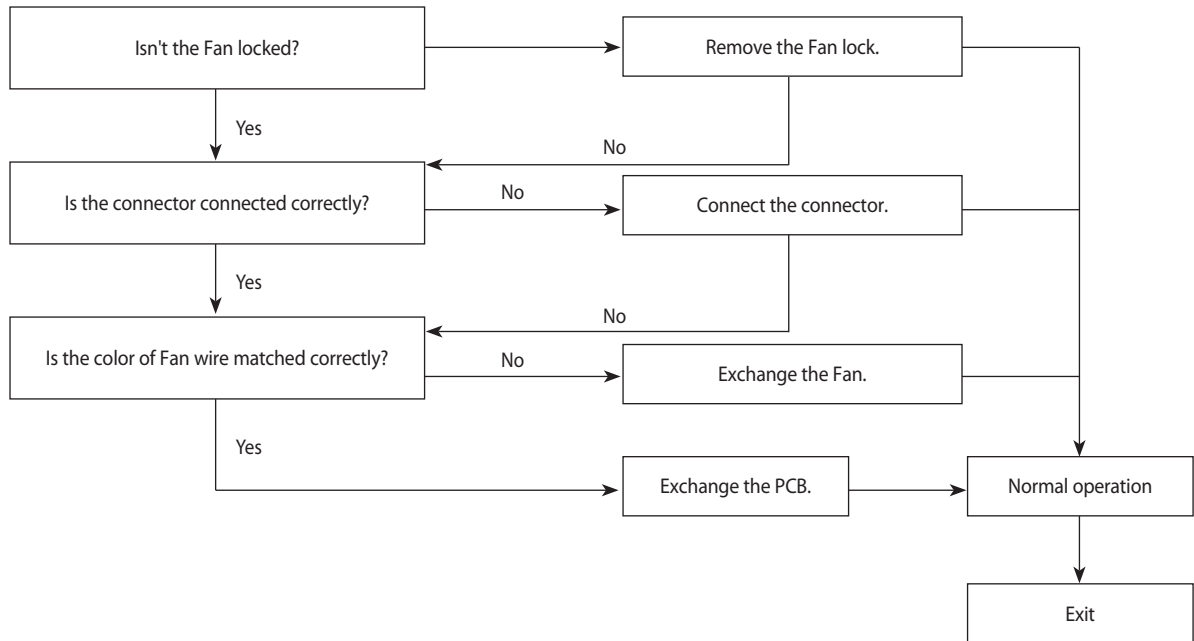
2. Troubleshooting procedure



4-5-9 Fan error

1. Checklist :
 - 1) Isn't the fan locked?
 - 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

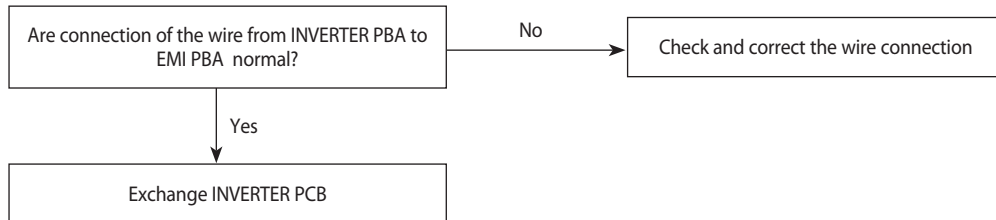


4-5-10 DC-Link voltage sensor error

1. Checklist :

- 1) Is the connection of R, S, T power wire normal?
- 2) Are Relay RY21 and R200 on the INVERTER PCB mounted normally?

2. Troubleshooting procedure

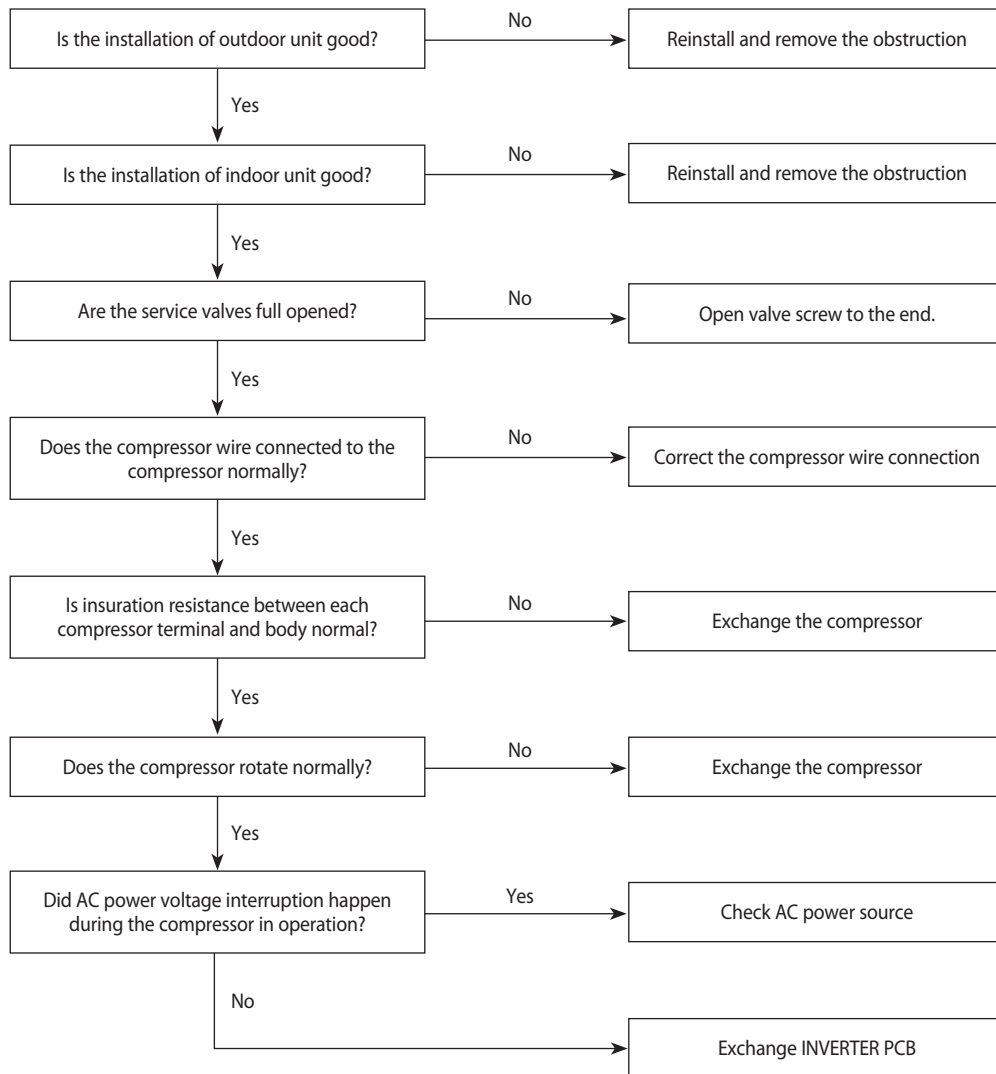


4-5-11 O.C.(Over Current) error

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

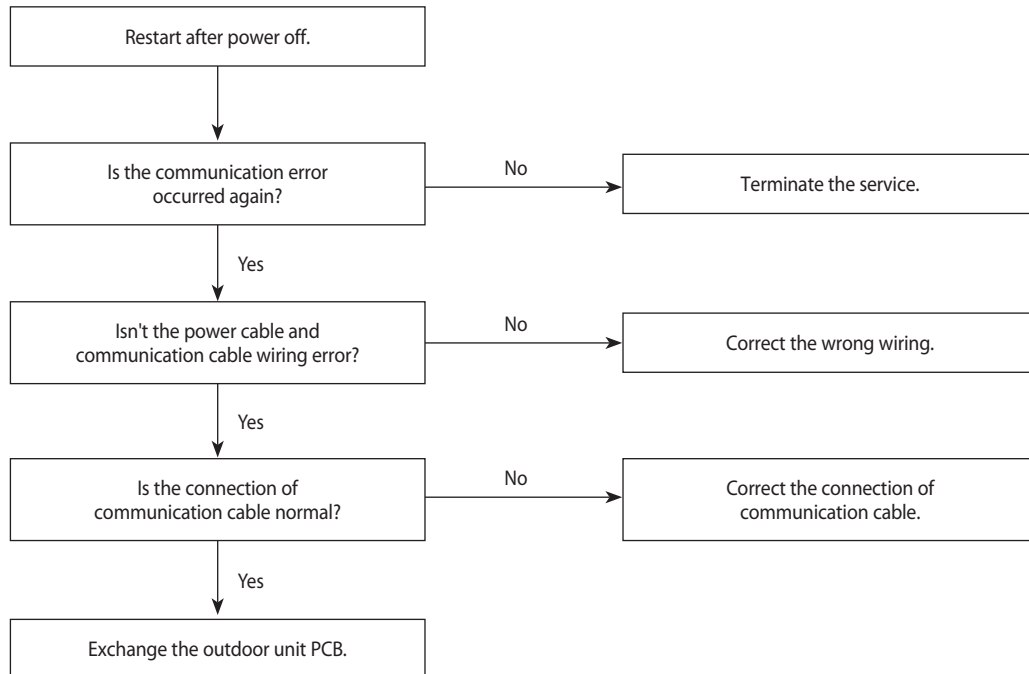


4-5-12 Communication error

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 wiring error?

2. Troubleshooting procedure

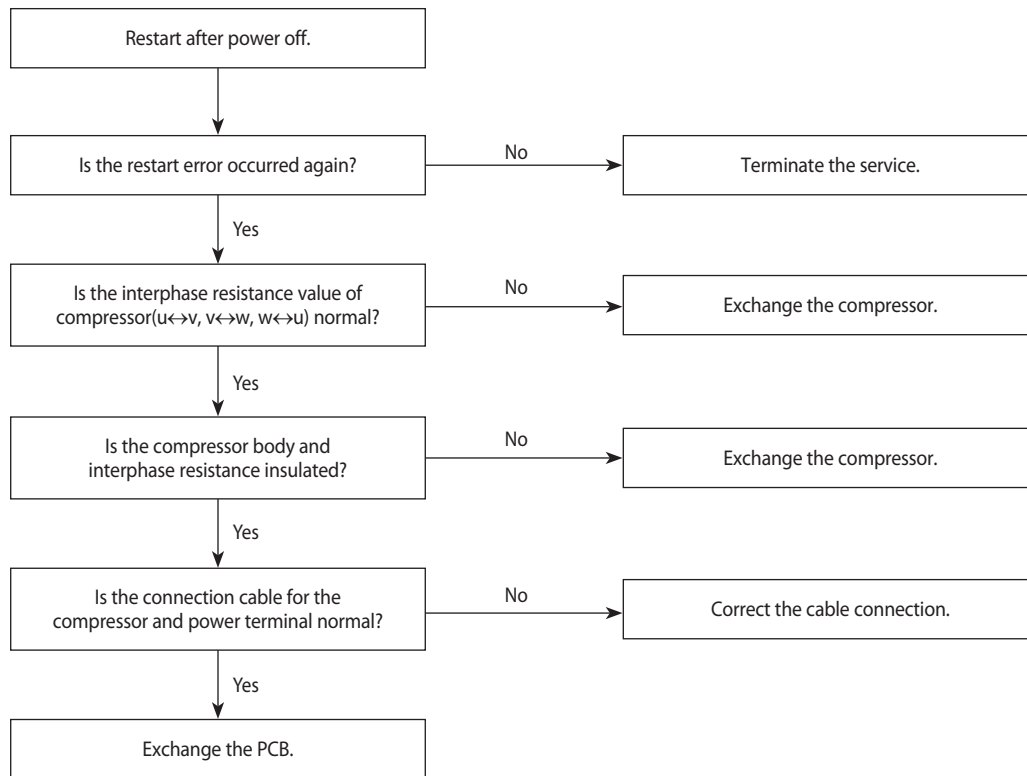


4-5-13 Compressor start error

1. Checklist :

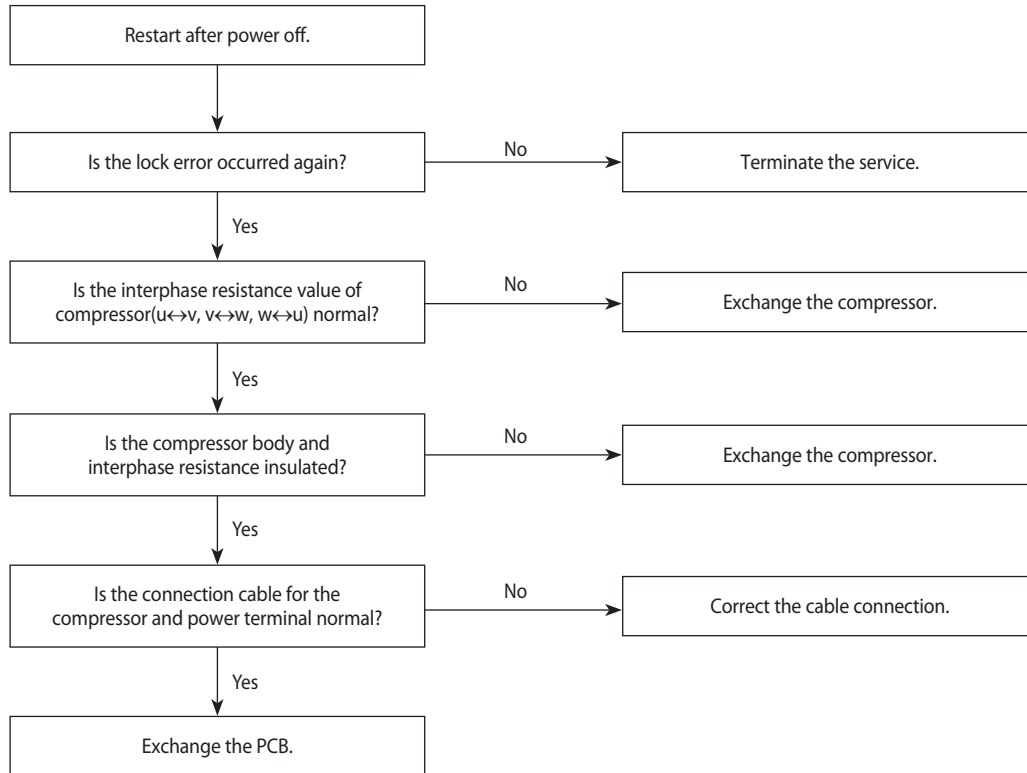
- 1) Is the connection of cable for the compressor and power?
- 2) Is the interphase resistance of compressor normal?

2. Troubleshooting procedure



4-5-14 Compressor lock 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

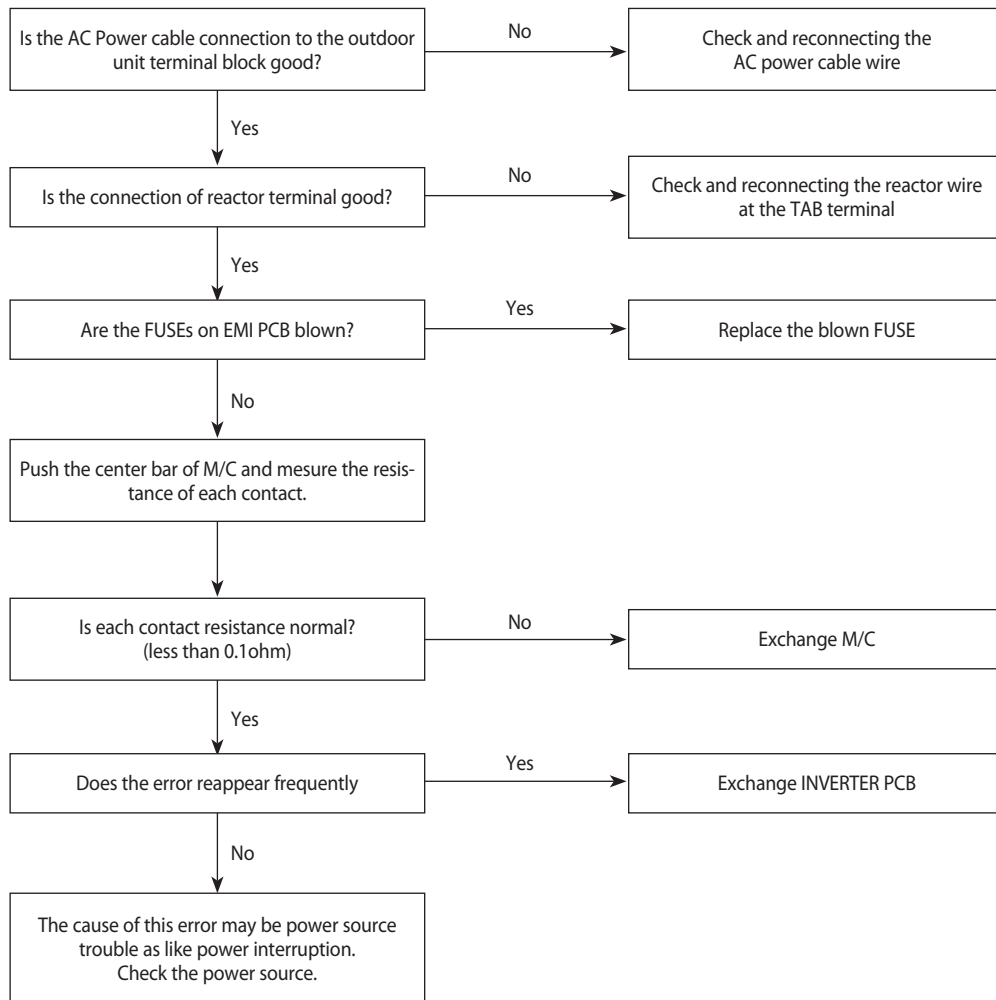


4-5-15 DC Link Over voltage/ Low voltage error

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



4-5-16 The others

1. Capacity miss match
 - Check again the indoor unit option code.

4-6 PCB Inspection Method

4-6-1 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 C102, C702, C703, C704, C705, C706, C707 on the INVERTER PCB when you touch the PCB. Especially discharging speed of C702-C707 is very slow because of little load in stand-by condition. To confirm the voltage of C702-C707, measure the DC link voltage at the IGBT module pins near C701 at which applying voltage (450-510Vdc) is marked.
To confirm discharging of C102, measure the voltage of non mounted C103 solder hole or check if all LEDs are off.
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.

4-6-2 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 part in the indoor unit.
 - INDOOR 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.
 - Display PCB part : LED lamps, Switch, Remocon module.
 - INDOOR EMI PCB part : Line filter, Noise Capacitor and Varistor
3. The PCB is composed of the 3 part 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

4-6-3 Indoor Detailed Inspection Procedure

No	Procedure	Inspection Method	Cause
1	Open the electronic component box and check the PCB fuse	Turn off the power 1) Is the Fuse F701 on the EMI PCB blown? 2) Is the Fuse F702 on the MAIN PCB blown?	• Over current • Indoor fan motor short • PCB AC Part pattern short
2	Check the LEDs for DC power and communication condition	Turn on the power 1) Is RED LED blinking? his led means micom is running normally. 2) Is GREEN LED blinking? This means communication between Indoor and Outdoor unit is on 3) Is YELLOW LED blinking? This means communication between Indoor and wired remote controller is on. It may take one minute to start communication	• Communication circuit trouble • Communication wire connection trouble • wrong connection for power supply wire of remote controller
3	Check the DIP and rotary switch on the PCB	1) Is the setting of each switch proper?	• Wrong setting of switch
4	Check the DC voltage	1) Is the voltage of CN32 pin #1-#2 12V? 2) Is the voltage of C109 V?	• SMPS on MAIN PBA trouble • Load short
5	FAN operation checking Press the ON/OFF button. 1. FAN Speed[HIGH] 2. FAN mode	1) Is the FAN motor running? 2) Is the connection of CN73 normal?	• Controller trouble inside of the fan motor • connector trouble of CN73

4-6-4 Outdoor Detailed Inspection Procedure

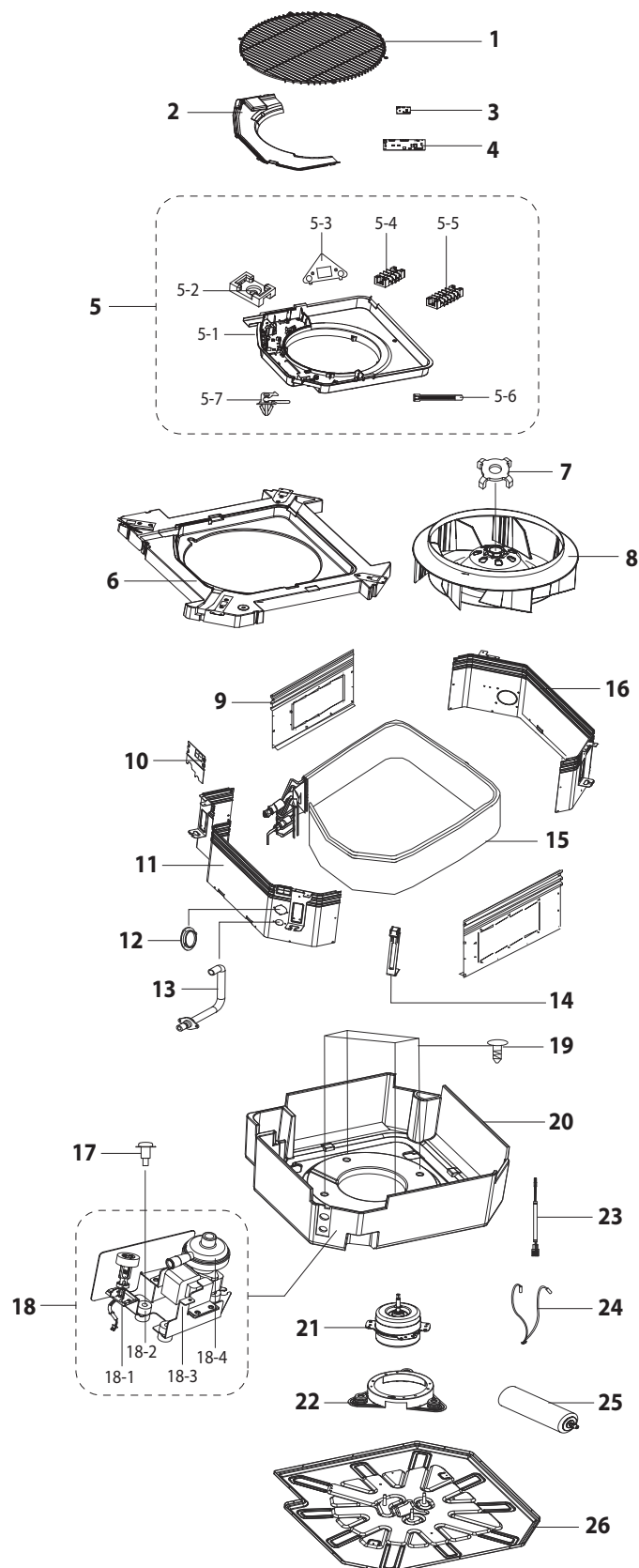
No	Procedure	Inspection Method	Cause
1	Turn OFF the power and check wire and socket connection on each part	Wait until C702-C707 discharged 1) Is connection of housing to socket normal? 2) Is connection of each wire to terminal block normal? 3) Is the reactor wire connection normal? 4) Is there no miss-wiring of each cable?	• installation mistake • miss assembling
2	FUSE check	Is the fuses on each PCB normal? 3 fuses on EMI PCB 1 fuse on MAIN PCB 1 fuse on INVERTER PCB	• wire short • overload • BLDC FAN short error
3	Turn on the power and check voltage of terminal block	Is N-R,N-S,N-T around 230Vac? Is R-S,S-T,T-R around 400Vac? Is L-N(to indoor unit) around 230Vac? Is F1-F2 within 5Vdc?	• miss wiring of power cable • wire detaching
4	Check LED display on AIN PCB	1) Is RED LED ON? 2) Is GREEN LED Blinking once a second? 3) Is LEDs displaying error code pattern?	• MAIN PCB power trouble • bad communication between indoor and outdoor unit • error detection
5	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
6	Check DC voltage of SMPS output	MAIN PCB 1) Is voltage of CN51 pin#1-#2 12-14.5V? 2) Is voltage of C108 5V? INVERTER PCB 3) Is voltage of CN51 pin#1-#2 5V? 4) Is voltage of C124 12V? 5) Is voltage of each ZD100,ZD101,ZD102,ZD103 17-18V?	• SMPS circuit trouble
7	Check INVERTER PCB	1) Is resistance of R100 200ohm? To check this, touch one probe to CN10 pin#1(N) and the other to D101 upper side pin of '~' marking pins 2) Is DC Link voltage 450-510V? Check IGBT module pins marking voltage near C701	• resister • wire connection between EMI PCB and INVERTER PCB
8	Check BLDC fan	1) See 12-2-3 The Outdoor unit Fan error(Fault Diagnosis)	

4-7 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℃~+30℃)			
	Abnormal	∞,0Ω...Open or Short			
Indoor Unit BLDC FAN Motor	Measure terminal resistance with a multimeter				
	Normal	At the normal temperature(10℃~30℃)			
		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℃~+30℃) 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℃~+30℃) 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℃~30℃)			
		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℃~30℃) 1.6KΩ±15%			
	Abnormal	∞,0Ω...Open or Short			

5. Exploded Views and Parts List

5-1 Indoor Unit



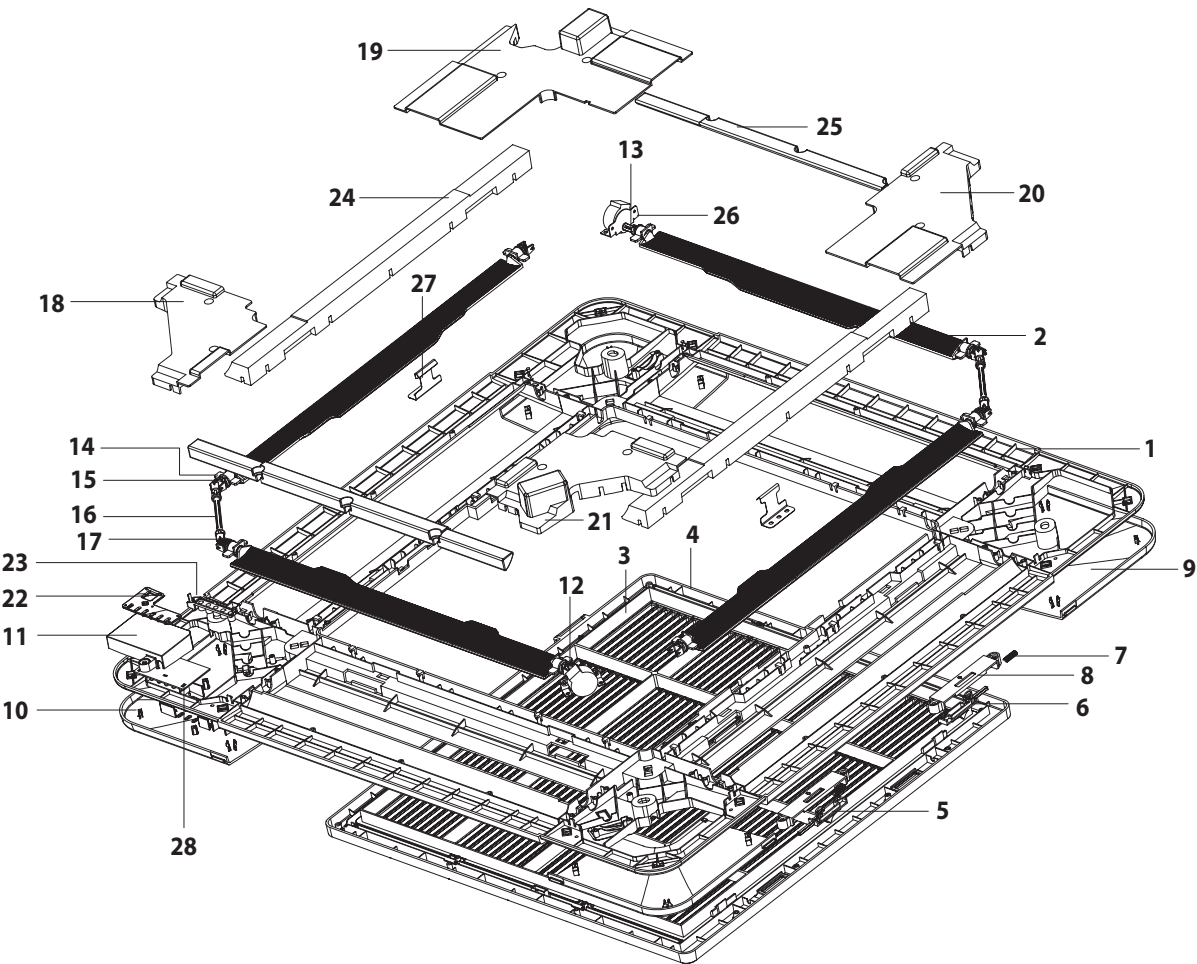
■ Parts List(CH090/105/140EAV)

No.	CODE NO.	Description	Specification	Q'TY		CH090EAV	SA/SNA
				CH140EAV	CH105EAV		
1	DB90-02694A	ASSY-GUARD SAFETY	CH140EAMC,SSEC	1	1	1	SA
2	DB63-01481A	COVER-CONTROL	CH140EAMC,ABS	1	1	1	SA
3	DB93-04120C	ASSY- MAIN PCB	CH140EAMC	1	1	1	SA
4	DB93-04119A	ASSY POWER PCB	CH140EAMC	1	-	-	SA
5	DB93-05009A	ASSY CONTROL IN	ASSY	1	-	-	SA
5-1	DB61-02706A	BASE CONTROL	ABS,V0	1	1	1	SNA
5-2	DB61-02501A	TIE MOUNTS	NYLON66	2	2	2	SNA
5-3	DB61-02700A	BRACKET EARTH WIRE	SGCC-M	1	1	1	SNA
5-4	DB65-00029M	TERMINAL BLOCK	ASSY ,6P	1	1	1	SNA
5-5	DB65-00029X	TERMINAL BLOCK	CH094EAM	1	1	1	SNA
5-6	DB61-02765A	HOLDER SENSOR	PP	1	1	1	SNA
5-7	6501-001052	REUSABLE CABLE TIES	NYLON66	2	2	2	SNA
6	DB94-01062A	ASSY CUSHION DRAIN	ASSY,EPS,V0	1	1	1	SA
7	DB61-01783A	BRACKET- WASHER FAN	SGCC-M	1	1	1	SNA
8	DB67-00682A	FAN-TURBO	ABS+GF20%	1	1	1	SA
9	DB64-01562A	CABI SIDE	SGCC-M	2	2	2	SA
10	DB90-02692A	ASSY COVER-PIPE	ASSY	1	1	1	SA
11	DB90-02690A	ASSY CABI FRONT	ASSY,SGCC-M	1	1	1	SA
12	DB90-01950B	ASSY COVER-DRAIN PUMP	ASSY	1	1	1	SA
13	DB94-01078A	ASSY HOSE DRAIN	ASSY	1	1	1	SA
14	DB61-02701A	HOLDER EVAP	STS301	2	2	2	SA
15	DB96-06729B	ASSY EVAP UNIT	ASSY	-	1	1	SA
	DB96-064729C	ASSY EVAP UNIT	ASSY	1	-	-	SA
16	DB90-02688A	ASSY CABI BACK	ASSY,SGCC-M	1	1	1	SA
17	DB97-02090B	ASSY-PACKING SCREW	M5X30	3	3	3	SNA
18	DB94-01381A	ASSY DRAIN PUMP	ASSY	1	1	1	SA
18-1	DB34-00063A	SWITCH FLOAT	ASSY	1	1	1	SNA
18-2	DB73-00345A	RUBBER PUMP	NBR	3	3	3	SNA
18-3	DB61-02709A	BRACKET DRAIN PUMP	SGCC-M	1	1	1	SNA
18-4	DB67-00790A	DRAIN PUMP	ASSY	1	1	1	SNA
18-5	DB61-03089A	BRACKET-FLOAT SWITCH	HIPS	1	1	1	SNA
19	DB61-02349A	CLIP BRUSH	NYLON 66	4	4	4	SA
20	DB90-02693A	ASSY CUSHION BASE	ASSY,EPS,V0	1	1	1	SA
21	DB31-00364A	MOTOR FAN	BLDC	1	1	1	SA
22	DB94-01059A	ASSY BRACKET MOTOR	ASSY	1	1	1	SA
23	DB39-01259A	CONNECT WIRE	ASSY	1	1	1	SA
24	DB32-00169A	THERMISTOR	ASSY	1	1	1	SA
25	DB94-01065A	ASSY DRAIN HOSE	ASSY	1	1	1	SNA
26	DB90-02689A	ASSY CABINET-BASE	ASSY,SGCC-M	1	1	1	SA

■ Parts List(CH070EAV)

No.	CODE NO.	Description	Specification	Q'TY	SA/SNA
1	DB90-02694A	ASSY-GUARD SAFETY	CH140EAMC,SSEC	1	SA
2	DB63-01481A	COVER-CONTROL	CH140EAMC,ABS	1	SA
3	DB93-04120A	ASSY- MAIN PCB	CH140EAMC	1	SA
4	DB93-04119B	ASSY POWER PCB	CH105EAMC	1	SA
5	DB93-05254A	ASSY CONTROL IN	ASSY	1	SA
5-1	DB61-03092A	BASE CONTROL	ABS,V0	1	SNA
5-2	DB61-02501A	TIE MOUNTS	NYLON66	2	SNA
5-3	DB61-02700A	BRACKET EARTH WIRE	SGCC-M	1	SNA
5-4	DB65-00029M	TERMINAL BLOCK	ASSY ,6P	1	SNA
5-5	DB65-00029X	TERMINAL BLOCK	CH094EAM	1	SNA
5-6	DB61-02765A	HOLDER SENSOR	PP	1	SNA
5-7	6501-001052	REUSABLE CABLE TIES	NYLON66	2	SNA
6	DB94-01062A	ASSY CUSHION DRAIN	ASSY,EPS,V0	1	SA
7	DB61-01783A	BRACKET- WASHER FAN	SGCC-M	1	SNA
8	DB67-00804	FAN-TURBO	ABS+GF20%	1	SA
9	DB64-01734A	CABI SIDE	SGCC-M	2	SA
10	DB90-02692A	ASSY COVER-PIPE	ASSY	1	SA
11	DB90-03189A	ASSY CABI FRONT	ASSY,SGCC-M	1	SA
12	DB90-01950B	ASSY COVER-DRAIN PUMP	ASSY	1	SA
13	DB90-01389A	ASSY HOSE DRAIN	ASSY	1	SA
14	DB61-03093A	HOLDER EVAP	STS430	2	SA
15	DB96-09600A	ASSY EVAP UNIT	CH070EAV	-	SA
16	DB90-03190A	ASSY CABI BACK	ASSY,SGCC-M	1	SA
17	DB97-02090B	ASSY-PACKING SCREW	M5X30	3	SNA
18	DB94-01381A	ASSY DRAIN PUMP	ASSY	1	SA
18-1	DB34-00063A	SWITCH FLOAT	ASSY	1	SNA
18-2	DB73-00345A	RUBBER PUMP	NBR	3	SNA
18-3	DB61-02709A	BRACKET DRAIN PUMP	SGCC-M	1	SNA
18-4	DB67-00790A	DRAIN PUMP	ASSY	1	SNA
18-5	DB61-03089A	BRACKET-FLOAT SWITCH	HIPS	1	SNA
19	DB61-02349A	CLIP BRUSH	NYLON 66	3	SNA
20	DB97-05920A	ASSY CUSHION BASE	ASSY,EPS,V0	1	SA
21	DB31-00439A	MOTOR FAN	BLDC	1	SA
22	DB90-03188A	ASSY BRACKET MOTOR	ASSY	1	SA
23	DB39-01259A	CONNECT WIRE	ASSY	1	SA
24	DB32-00169A	THERMISTOR	ASSY	1	SA
25	DB94-01065A	ASSY DRAIN HOSE	ASSY	1	SNA
26	DB90-02689B	ASSY CABINET-BASE	ASSY,SGCC-M	1	SA

5-2 Panel

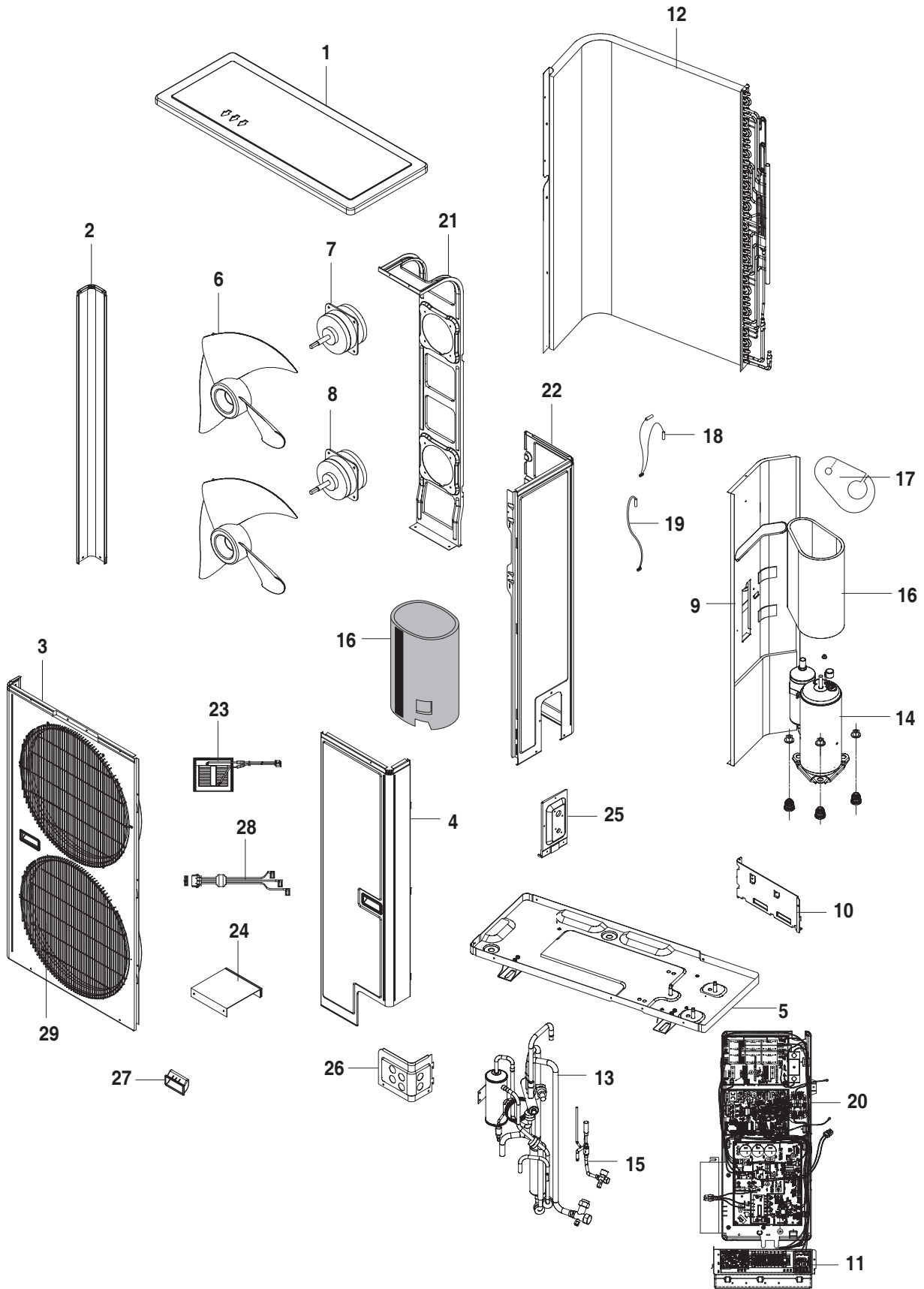


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB64-01564A	PANEL FRONT	HF ABS(KOREA)	1	SA
2	DB66-01102A	BLADE	PBT+20%GF(KOREA)	4	SA
3	DB64-01565A	GRILLE AIR INLET	HF ABS(KOREA)	1	SA
4	DB63-01491A	FILTER AIR	PP(BLK)+40%	1	SNA
5	DB64-01566A	KNOB SLIDE A	HF ABS(KOREA)	1	SA
6	DB64-01567A	KNOB SLIDE B	HF ABS(KOREA)	1	SA
7	DB61-02714A	SPRING KNOB	STS304,T0.5	2	SNA
8	DB63-01483A	COVER KNOB	HIPS	2	SNA
9	DB63-01484A	CORNER COVER	HF ABS(KOREA)	3	SA
10	DB63-01485A	CORNER COVER PCB	HF ABS(KOREA)	1	SA
11	DB63-01500A	COVER PCB	HIPS	1	SNA
12	DB66-01103A	LINK MOTOR A	POM	1	SNA
13	DB66-01104A	LINK MOTOR B	POM	1	SNA
14	DB61-02711A	HOLDER LINK BLADE	ABS(BLK)	8	SNA
15	DB66-01105A	LINK BLADE	POM	7	SNA
16	DB66-01106A	LINK UNIVERSAL JOINT	POM	2	SNA
17	DB66-01107A	JOINT UNIVERSAL	POM	5	SNA
18	DB63-01486A	COVER SIDE A	HIPS(BLK)	1	SNA
19	DB63-01487A	COVER SIDE B	HIPS(BLK)	1	SNA
20	DB63-01488A	COVER SIDE C	HIPS(BLK)	1	SNA
21	DB63-01489A	COVER SIDE D	HIPS(BLK)	1	SNA
22	DB64-01558A	INLAY PCB	PC	1	SNA
23	DB64-01559A	BUTTON PCB	ABS	1	SNA
24	DB69-01419A	CUSHION IN	EPS,25	4	SNA
25	DB69-01420A	CUSHION OUT	EPS,25	4	SNA
26	DB61-02704A	BRACKET STEPPING MOTOR	SGCC-M,T1.0	2	SNA
27	DB61-02705A	PLATE HANGER	STS304,T0.5	2	SNA
28	DB93-04220A	ASS'Y PCB DISPLAY	ASS'Y	1	SNA

5-3 Outdoor Unit

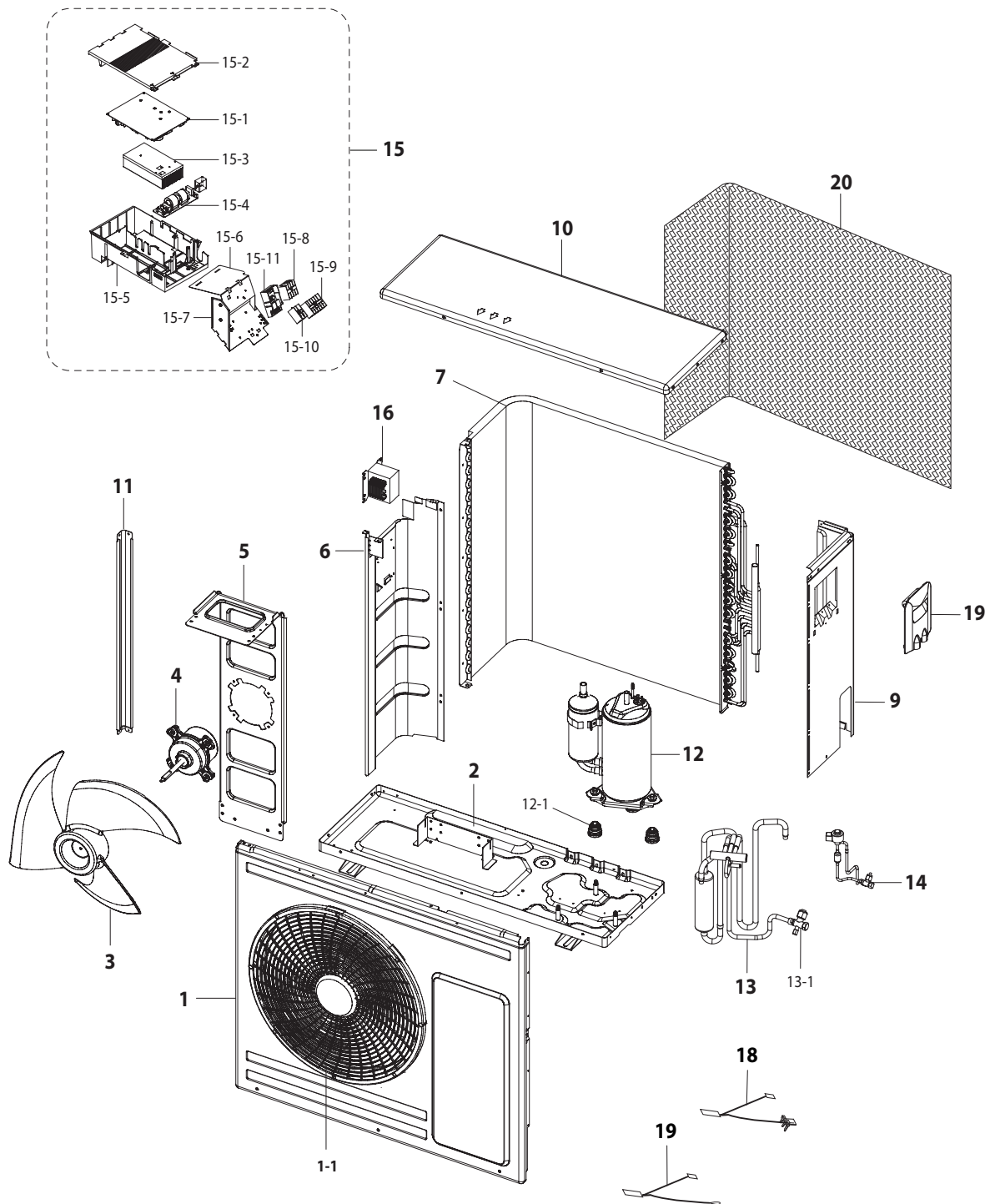
■ UH090/105/140EAV



Parts List

No.	Code No.	Description	SPEC	QTY				SA/ SNA
				UH090EAV	UH105EAV	UH105EAS	UH140EAV	
1	DB90-01533B	ASS'Y-CABI TOP COVER	SECC-P,0.8T	1	1	1	1	SA
2	DB90-01588A	ASS'Y CABI BACK LF	SECC-P,1.2T	1	1	1	1	SA
3	DB90-01535B	ASS'Y-CABI FRONT LF	SECC-P,0.8T	1	1	1	1	SA
4	DB90-01534C	ASS'Y CABI FRONT RH	SECC-P,0.8T	1	1	1	1	SA
5	DB99-00538E	ASS'Y-CABI BASE PART	SGCC-M,T1.6	1	1	1	1	SNA
6	DB67-00438B	FAN-PROPELLER	ABS+GF10%	2	2	2	2	SNA
7	DB31-00386H	MOTOR FAN	DL-95835SSOA	1	1	1	1	SNA
8	DB31-00386J	MOTOR FAN	DL-95835SSOB	1	1	1	1	SNA
9	DB90-03986A	ASS'Y-PRATITION	SGCC-M,T0.8	1	1	1	1	SA
10	DB61-03566A	PLATE-CONTROL UP	SGCC-M,T1.0	1	1	1	1	SA
11	DB93-06548A	ASS'Y-PLATE CONTROL LOW	SGCC-M,T1.0	1	1	1	1	SA
12	DB96-09606A	ASS'Y COND UNIT	2x52,SLIT,SLICA,FP1.5	-	-	-	1	SNA
	DB96-09416A	ASS'Y COND UNIT	2x52,SLIT,FP1.5	1	1	1	-	SNA
	DB96-09433A	ASS'Y-4WAY VALVE	HP,3/8,3/4,G5T450FUAEX	-	-	-	1	SNA
13	DB96-09402A	ASS'Y-4WAY VALVE	HP,3/8,5/8,G5T360FUAEK	1	1	1	-	SNA
	G5T450FUAEX	COMPRESSOR	G5T450FUAEX	-	-	-	1	SNA
14	G5T360FUAEK	COMPRESSOR	G5T360FUAEK	1	1	1	-	SNA
	DB96-09431A	ASS'Y-EEV VALVE	ASSY	-	-	-	1	SA
15	DB96-09431B	ASS'Y-EEV VALVE	ASSY	1	1	1	-	SA
16	DB63-02008A	FELT-COMP SOUND	GRAY FELT+EVAR	1	1	1	1	SA
17	DB63-02007A	FELT-TOP COVER	GRAY FELT+EVAR	1	1	1	1	SA
18	DB95-01419A	ASS'Y THEMISTOR-OLP/COND	ASSY	1	1	1	1	SA
19	DB95-01420A	ASS'Y THEMISTOR-AIR/DISCHARGE	ASSY	1	1	1	1	SA
	DB93-05841A	ASS'Y CONTROL OUT	UH140EAV	-	-	-	1	SA
20	DB93-05841B	ASS'Y CONTROL OUT	UH105EAV	-	1	1	-	SA
	DB93-05841C	ASS'Y CONTROL OUT	UH090EAV	1	-	-	-	SA
21	DB94-01767A	ASS'Y BRACKET MOTOR	SGCC-M,T1.6	1	1	1	1	SNA
22	DB90-01637C	ASS'Y CABI BACK RH	SECC-P,0.8T	1	1	1	1	SA
23	DB27-00056A	ASS'Y REACTOR	ASSY	1	1	1	1	SA
	DB90-02583A	ASS'Y-MOTOR BRACKET SUB	SGCC-M,T1.2	-	-	-	1	SNA
24	DB90-02583B	ASS'Y-MOTOR BRACKET SUB	SGCC-M,T1.2	1	1	1	-	SNA
25	DB97-02613A	ASS'Y BRACKET-VAVLE	SGCC-M,T1.6	1	1	1	1	SNA
26	DB61-01910A	BRACKET-WIRE	SECC-P,1.0T	1	1	1	1	SA
27	DB64-01231A	HANDLE	ABS,V0	3	3	3	3	SA
28	DB93-05954A	ASS'Y CONNECTOR WIRE-COMP	ASSY	1	1	1	1	SA
29	DB63-00691A	GUARD FAN	MSWR	2	2	2	2	SA

■ UH070EAV1

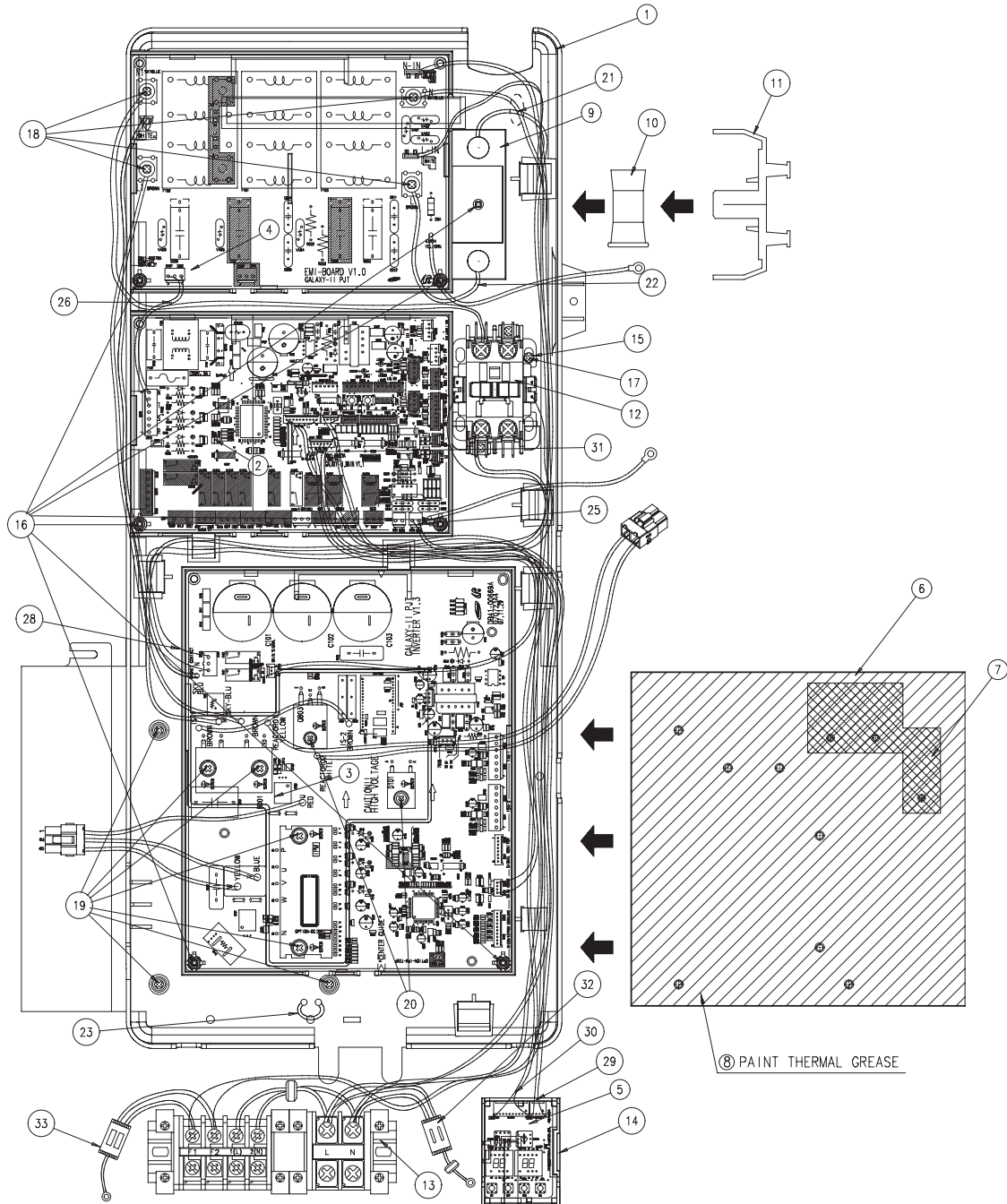


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB90-03918A	ASS'Y CABI FRONT-TOTAL	ASS'Y	1	SNA
1-1	DB63-00831A	GUARD FAN-P	PP,SC-90073R	1	SA
2	DB90-03278C	ASS'Y BASE OUT-TOTAL	ASS'Y	1	SNA
3	DB67-00861A	FAN PROFELLER	AS-GF 20%	1	SNA
4	DB31-00512A	MOTOR FAN	65A,130W,DC 310V	1	SA
5	DB61-20094D	BASE MOTOR	SGCC-M	1	SNA
6	DB94-01750A	ASS'Y PARTITION	ASS'Y	1	SNA
7	DB96-09349A	ASS'Y COND	ASS'Y	1	SNA
8	DB61-00821A	GUIDE SCREEN	HSWR	1	SNA
9	DB90-04127A	ASS'Y CABINET-SIDE RH	ASS'Y	1	SNA
10	DB90-03275A	ASS'Y CABINET UP	ASS'Y	1	SNA
11	DB63-00758A	GUARD COND	SGCC-M	1	SNA
12	G8T260FUAEW	COMPRESSOR	BLDC INVERTER	1	SA
12-1	DB63-00763A	GROMMET ISOLATOR	NR	3	SNA
13	DB96-09352A	ASS'Y 4WAY VALVE	ASS'Y	1	SNA
14	DB96-09445A	ASS'Y VALVE EEV	ASS'Y	1	SNA
15	DB93-05838B	ASS'Y CONTROL OUT	ASS'Y	1	SA
15-1	DB93-05700F	ASS'Y PCB MAIN	ASS'Y	1	SA
15-2	DB61-02974A	CASE CONTROL COVER	ABS	1	SA
15-3	DB62-05315A	HEAT SINK		1	SNA
15-4	DB93-04745D	ASS'Y PCB SUB EMI	ASS'Y	1	SNA
15-5	DB61-02973A	CASE CONTROL BASE	ABS	1	SNA
15-6	DB70-00910A	PLATE-CONTROL OUT	SGCC-M	1	SC
15-7	DB95-01180B	ASS'Y-TERMINAL BLOCK	SGCC-M	1	SC
15-8	DB65-00181D	TERMINAL BLOCK	BLK	1	SC
15-9	DB65-00181F	TERMINAL BLOCK	BLK	1	SC
15-10	DB95-01180A	ASS'Y-TERMINAL BLOCK	ASS'Y	1	SC
15-11	DB93-06290A	ASS'Y PCB SUB-DISPLAY	ASS'Y	1	SA
15-12	DB61-01097A	HOLDER WIRE CLAMP	ABS	2	SA
16	DB27-00043A	REACTOR	20A, 50Hz	1	SA
17	DB32-00175B	THERMISTOR COND	103AT,204CTB	1	SC
18	DB32-00176C	THERMISTOR WIRE OUT/DISCHARGE	103AT,204CTB	1	SC
19	DB90-03652A	ASS'Y COVER CONTROL	ASS'Y	1	SA

5-4 Assy control out

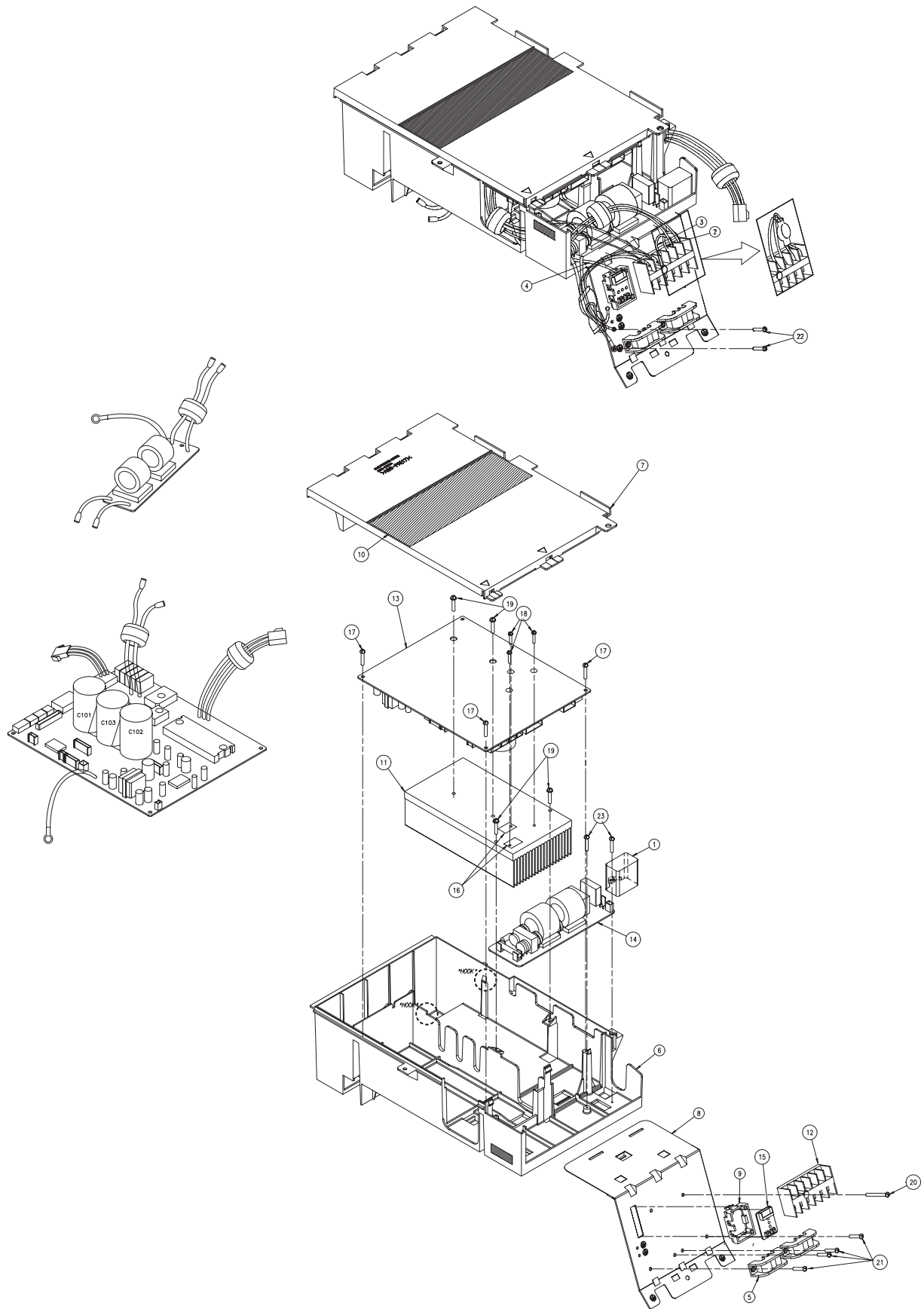
■ UH090/105/140EAV



Parts List

No.	Code No.	Description	SPEC	QTY			SA/SNA
				UH140EAV	UH105EAV	UH090EAV	
1	DB61-03568A	CASE CONTROL-OUT	ABS,2,5,328,611.6,BLACK	1	1	1	SA
2	DB93-05842A	ASSY PCB MAIN-OUT	GALAXY2	1	1	1	SA
	DB93-05843A	ASSY PCB MAIN-INVERTER	UH140EAV	1	-	-	SA
3	DB93-05843B	ASSY PCB MAIN-INVERTER	UH105EAV	-	1	-	SA
	DB93-05843C	ASSY PCB MAIN-INVERTER	UH090EAV	-	-	1	SA
4	DB93-05844A	ASSY PCB SUB-EMI	GALAXY2	1	1	1	SA
5	DB93-05955A	ASSY PCB SUB-DISPLAY	GALAXY2	1	1	1	SA
6	DB62-05407A	HEAT SINK	AL6063	1	1	1	SA
7	DB62-05533A	INSULATION	MICA	1	1	1	SNA
8	DB98-24813A	ASSY-THERMAL GREASE		5g	5g	5g	SA
9	3602-001043	FUSE-BLOCK	L60060C-1C	1	1	1	SA
10	3601-001445	FUSE-CARTRIDGE	CCMR040	1	1	1	SA
11	3602-001044	FUSE-BLOCK COVER	L60060C-1C	1	1	1	SA
12	DB35-00061A	RELAY		1	1	1	SA
13	DB95-01315G	ASSY-TERMINAL BLOCK	600V,35A,4P+600V,60A,2P	1	1	1	SA
14	DB61-01948A	CASE-SUB PCB	ABS,V0	1	1	1	SA
15	DB60-00321A	FASTENER-NUT	CU	1	1	1	SA
16	6002-000536	SCREW-TAPPING	PH,2S,M4,L10	7	7	7	SNA
17	6001-001683	SCREW-HEX	HWH,M4,L10,SWRCH18A	1	1	1	SNA
19	DB91-00307A	ASSY-SCREW MACHINE	M4*16,WSP,PH,ZPC	7	7	7	SA
20	DB91-00306A	ASSY-SCREW MACHINE	M3*16,WSP,PH,ZPC	2	2	2	SA
21	DB93-06326A	ASSY CONNECTOR WIRE-FUSE	UH140EAV,SSEC	1	1	1	SA
22	DB93-06327A	ASSY CONNECTOR WIRE-FUSE	UH140EAV,SSEC	1	1	1	SA
23	DB71-50031B	HOLDER WIRE	NYLON6/6	1	1	1	SA
25	DB93-06331A	ASSY CONNECTOR WIRE-COMM	UH140EAV,SSEC	1	1	1	SA
26	DB93-06332A	ASSY CONNECTOR WIRE-POWER	UH140EAV,SSEC	1	1	1	SA
28	DB93-06336A	ASSY CONNECTOR WIRE-POWER	UH140EAV,SSEC	1	1	1	SA
29	DB93-06324A	ASSY CONNECTOR WIRE-DISPLAY	UH140EAV,SSEC	1	1	1	SA
30	DB93-06325A	ASSY CONNECTOR WIRE-DISPLAY	UH140EAV,SSEC	1	1	1	SA
31	DB93-06337A	ASSY CONNECTOR WIRE-MAIN INVERTER	7P	1	1	1	SA
32	DB95-01040H	ASSY-NOISE ABSORBER	UH140EAV,SSEC	1	1	1	SA
33	DB93-01469S	ASSY PCB SUB	220nF*2	1	1	1	SA

■ UH070EAV1



■ Parts List

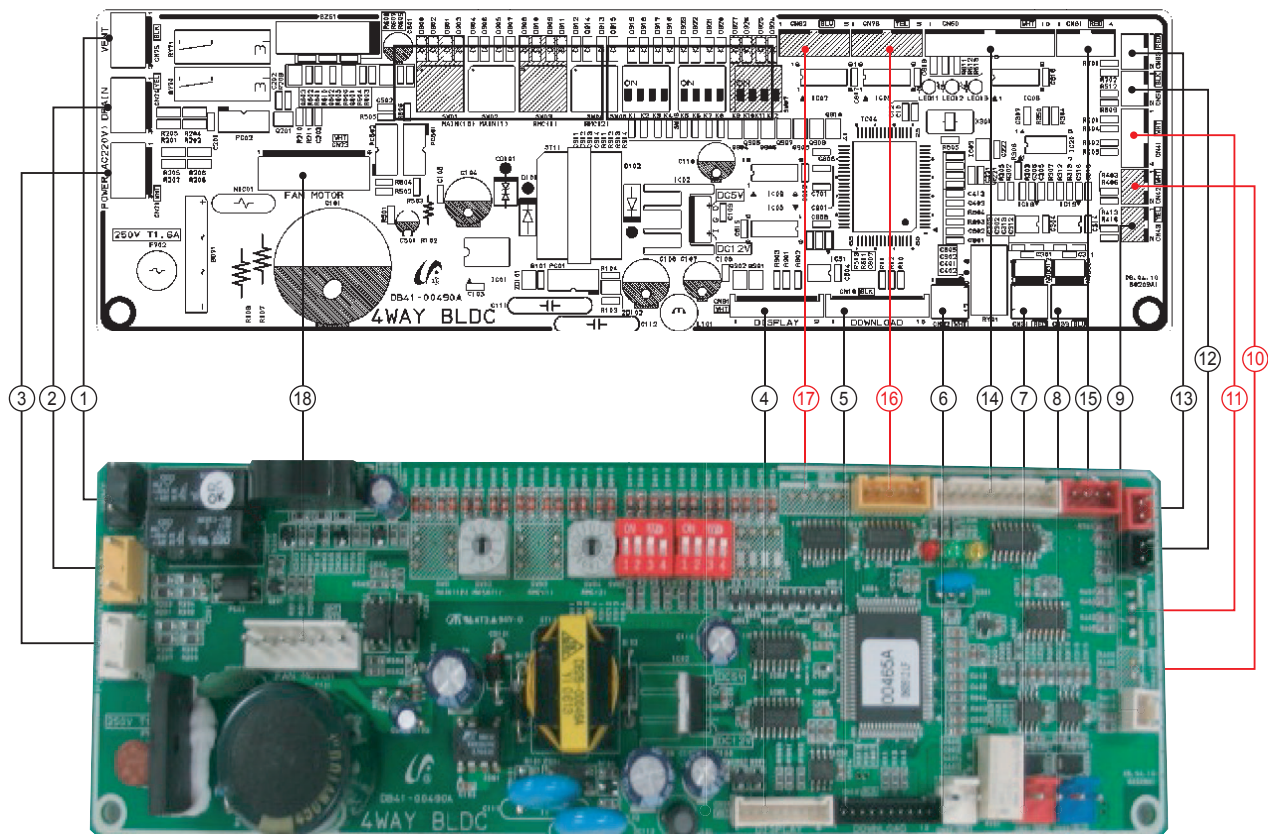
No.	Code No.	Description	Specification	QTY	SA/SNA
1	2301-001369	C-FILM,LEAD-OTHER	3000nF,+10-5%,450V,BK,47x19x28mm,-	1	SA
2	DB39-00604W	LEAD CONNECTOR-N	BLDC FJM,#16 AWG. 1015,-,-,100,SKY/BLU,AWG16,179974-1,179974-1,-,230V/50Hz,-,10	1	SNA
3	DB39-00604X	LEAD CONNECTOR-L	BLDC FJM,AWG #16,1015,-,-,200,BRN,AWG16,179974-1,179974-1,-,230V/50Hz,-,100,-,-	1	SNA
4	DB39-01198A	CONNECT WIRE	AS24(18)BPB,#2096 26 AWG,-,5P,260,-,-,-,230V/50Hz,1.25mm,-,UL2096 26	1	SNA
5	DB61-00171A	HOLDER-WIRE CLAMP	-,-ABS,-,-,-,BLK,V21-PJ	1	SA
6	DB61-02511A	CASE CONTROL-BASE	AS18BPBX,ABS V0,T2.0,359.2,241.4,BLK,Inverter 18~24K Controller	1	SNA
7	DB61-02512A	CASE CONTROL-COVER	AS18BPBX,ABS V0,T2.0,317.7,230,BLK,Inverter 18~24K Controller	1	SNA
8	DB61-02534A	PLATE-CONTROL OUT	AS18,24BPBX,SGCC-M,T0.6,155.5,136.2,18,24K BLDC INV,Q,P Chassis	1	SA
9	DB61-02543A	CASE-DISPLAY PCB	UH026EAV,ABS V0,T2.0,40,30,BLK,BAC INV.	1	SNA
10	DB62-01925D	INSULATION-CONTROL BOX TOP	AS18BPBX,FOAM-LEX,2,210,50,WHT,-,-,INVERTER	1	SNA
11	DB62-03874A	HEAT SINK	AS24(18)BPB,AL,8,100mm,185mm,AL,-,-,50mm	1	SNA
12	DB65-00179C	TERMINAL BLOCK	DAF-6P,PC-ABS,250 TAB 6pin,AWG#14,70mmx36mm,BLK,250V 25A,\1500V,500V	1	SNA
13	DB93-03545C	ASS'Y PCB MAIN	UH070EAV	1	SNA
14	DB93-03546C	ASS'Y PCB SUB-EMI	UH070EAV	1	SNA
15	DB93-03662A	ASS'Y PCB DISPLAY	AS18BPB,24K/18K(SUB)	1	SNA
16	DB98-17991B	ASS'Y-INSULATOR MICA	SH12BWH,-	2	-
17	6002-000630	SCREW-TAPPING	PH,+,-,2S,M3,L8,ZPC(YEL),SWRCH18A,-	3	SNA
18	DB91-00306A	ASS'Y-SCREW MACHINE	WW-INV,M3x16,WSP,PH,+,-,ZPC	3	SNA
19	DB91-00307A	ASS'Y-SCREW MACHINE	WW-INV,M4x16,WSP,PH,+,-,ZPC	4	-
20	6002-000555	SCREW-TAPPING	PH,+,-,2S,M4,L25,ZPC(YEL),SWRCH1	1	SNA
21	6001-001054	SCREW-MACHINE	TH,+,-,M4,L10,ZPC(YEL),SM20C,-,-	4	SNA
22	6009-001001	SCREW-SPECIAL	TH,+,-,M4,L8,ZPC(WHT),T.C,-,-	1	SNA
23	6002-000171	SCREW-TAPPING	PH,+,-,2S,M4,L10,ZPC(YEL),SWRCH1	2	SNA

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6. PCB Diagram and Parts List

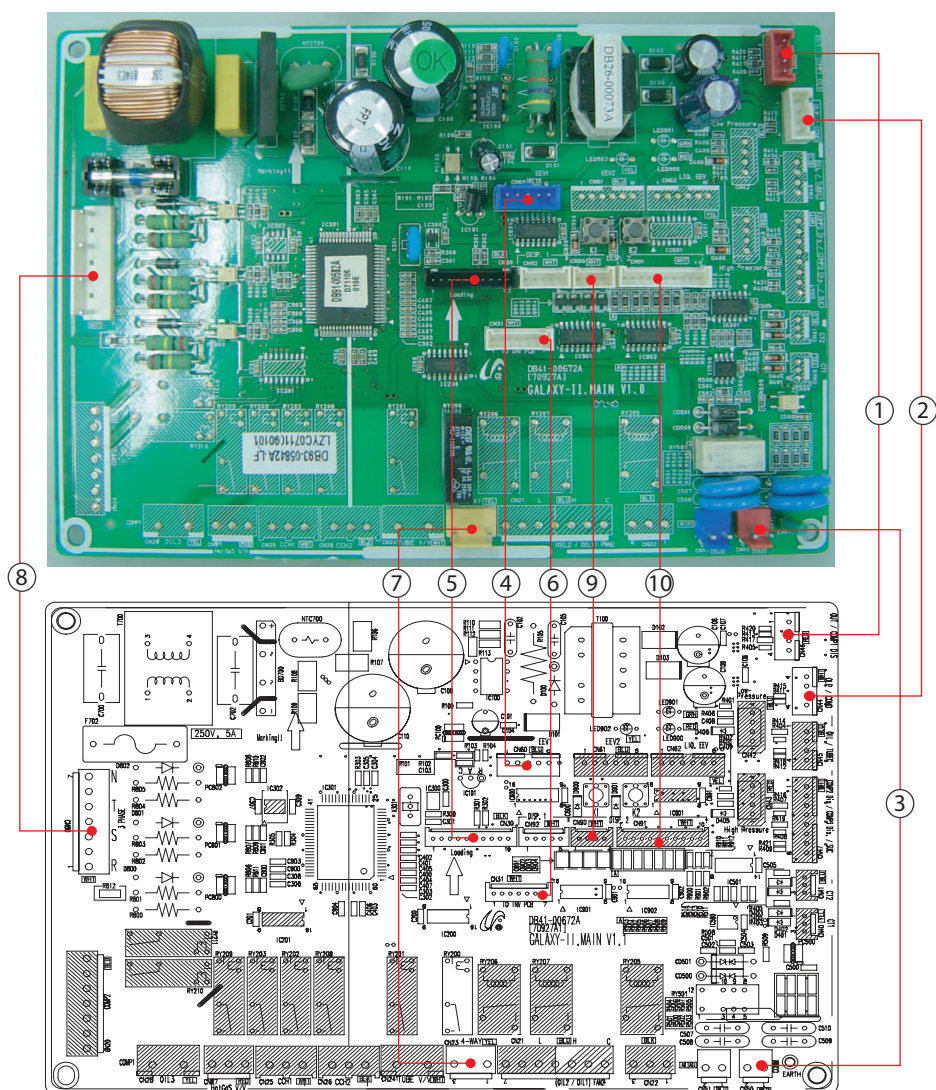
6-1. Block Diagram

■ 6-1-1 INDOOR MAIN PCB



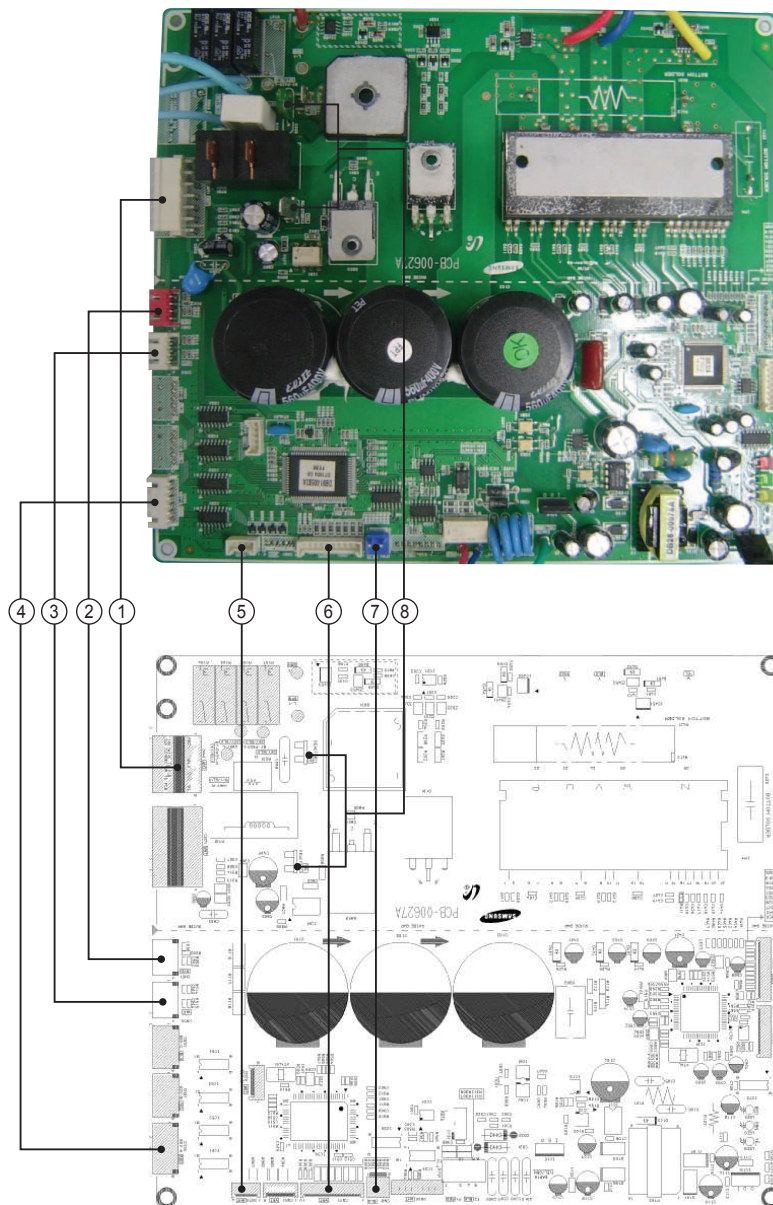
①	Ventilator	⑫	Floating Switch
②	Drain Pump	⑬	External control
③	Power in	⑭	step motor
④	Display	⑮	operation check
⑤	Micon download	⑯	SUB PCB connector
⑥	Wire Remote Controller Power	⑰	EEV
⑦	Indoor/Outdoor Communication	⑱	BLDC MOTOR
⑧	Wired Remote Controller Communication		
⑨	Thermistor Discharge		
⑩	EVA out sensor		
⑪	Indoor Pipe in Temperature Sensor Indoor Room Temperature Sensor		

6-1-2 OUTDOOR MAIN PCB(UH090/105/140EAV)



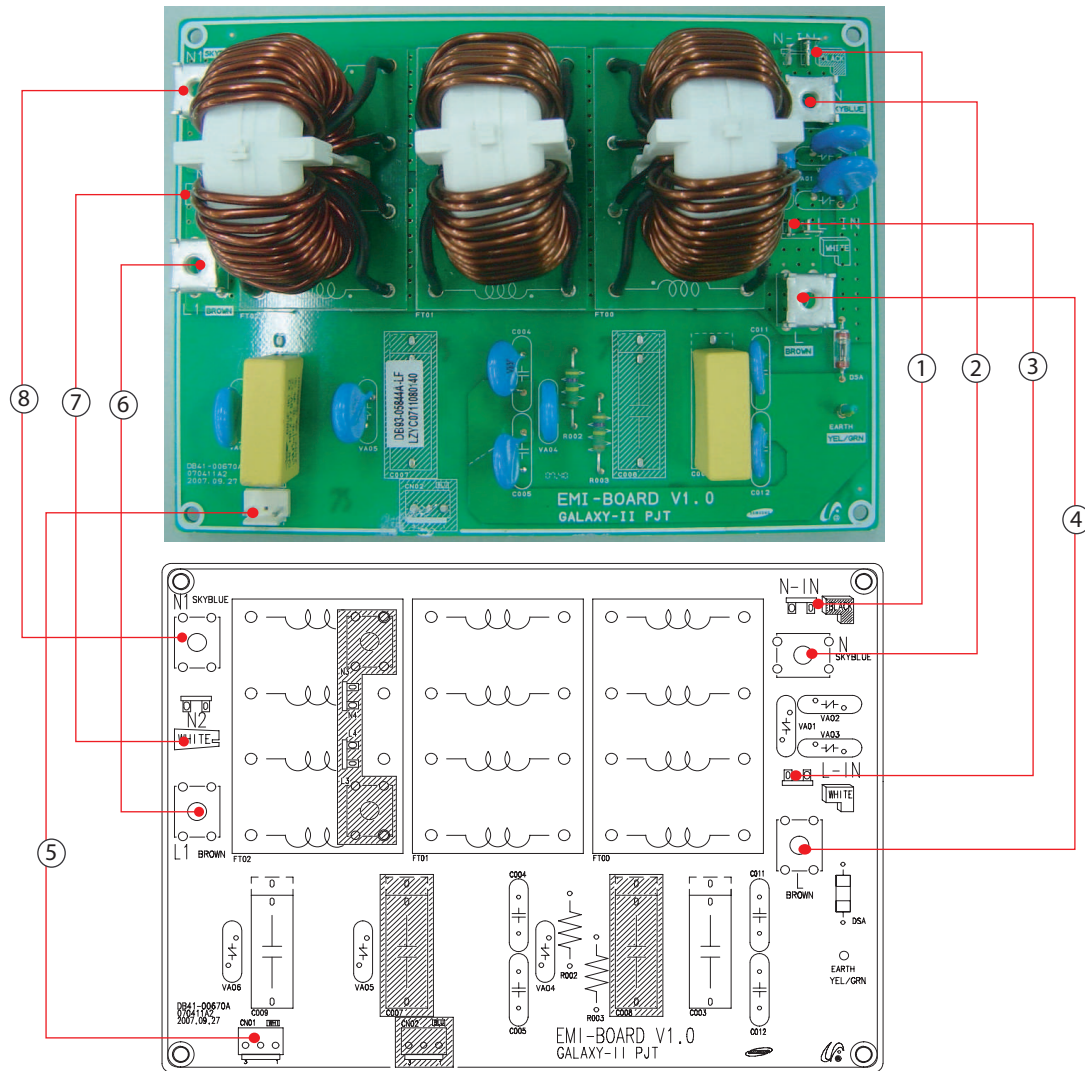
① CN46(4PIN/RED) :THERMISTOR #1: TXD_OUTDOOR TEMP. Sensing #3: TXD_DISCHARGE TEMP. Sensing #2,4: GND	② CN44(4PIN/WHT) :THERMISTOR #1,2: Not used #3: TXD_COND. TEMP. Sensing #4: GND	③ CN50(2PIN/RED) :COMMUNICATION #1,2: TXD/RXD_COMM.	④ CN60(5PIN/BLU): EEV #1~4: RXD_EEV Operating Signal #5: 12V
⑤ CN30(10PIN/BLK) :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		

■ OUTDOOR MAIN PCB(UH070EAV1) Cont.



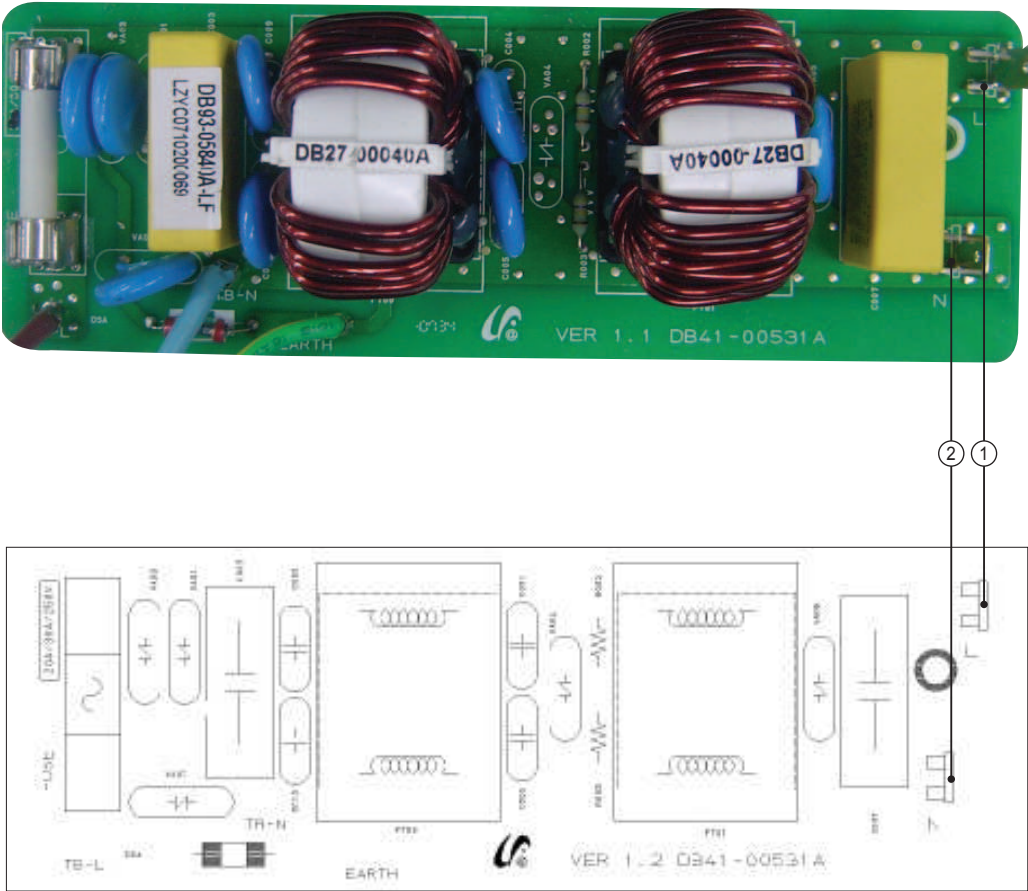
① CN71(6P/WHT)-BLDC FAN #1 : DC LINK VOLTAGE #2 : NOT USED #3 : GND #4 : 16V #5 : DETECT FAN RPM #6 : FAN FG	② CN51(4P/RED)-SENSOR #1 : OUT TEMP. SENSOR SIGNAL #2,4 : GND #3 : DISCHARGE TEMP. SENSOR SIGNAL	③ CN50(4P/WHT)-SENSOR #1 : OLP TEMP. SENSOR SIGNAL #2,4 : GND #3 : TEMP TEMP. SENSOR SIGNAL
④ CN30(6P/WHT)-EEV	⑤ CN20(4P/WHT)-DISPLAY #1~4 : RECEIVE SIGNAL FROM THE MAIN	⑥ CN21(10P/WHT)-DISPLAY #1~7 : 7-SEGMENT SIGNAL #8~10 : RECEIVE KEY OPERATION SIGNALS FROM THE MAIN
⑦ CN01(2PIN/BLU)-12V #1 : 12V #2 : GND	⑧ REACTOR1,2(TAB)-REACTOR	

6-1-3 OUTDOOR EMI PCB(UH090/105/140EAV)



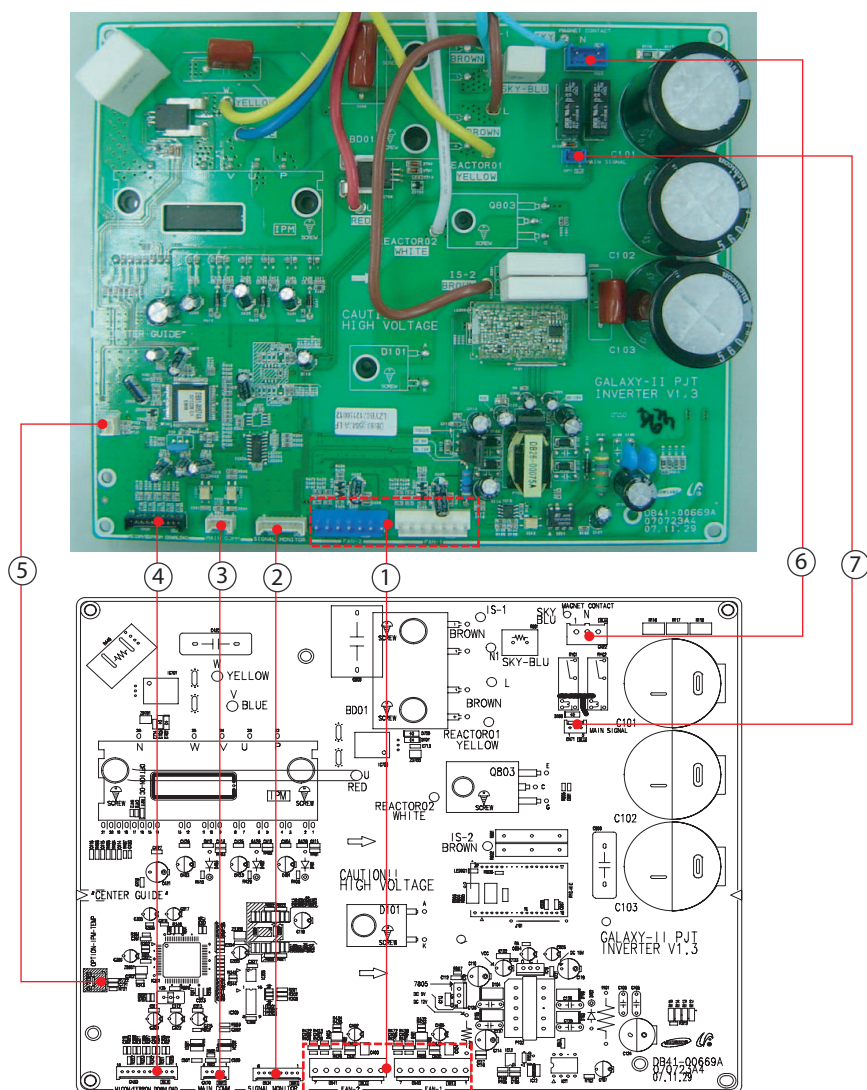
① N-IN(BLK) INDOOR UNIT POWER (N phase)	② N(SKYBLU) POWER(N phase)	③ L-IN(WHT) INDOOR UNIT POWER (L phase)	④ L(BRN) POWER(L phase)
⑤ CN01(3PIN/WHT) #1: N phase POWER of MAIN PBA #2: Not used #3: L phase POWER of MAIN PBA	⑥ L1(BRN) L phase POWER of INVERTER PBA	⑦ N2(TAB/WHT) N phase POWER of INVERTER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

OUTDOOR EMI PCB(UH070EAV1) Cont.



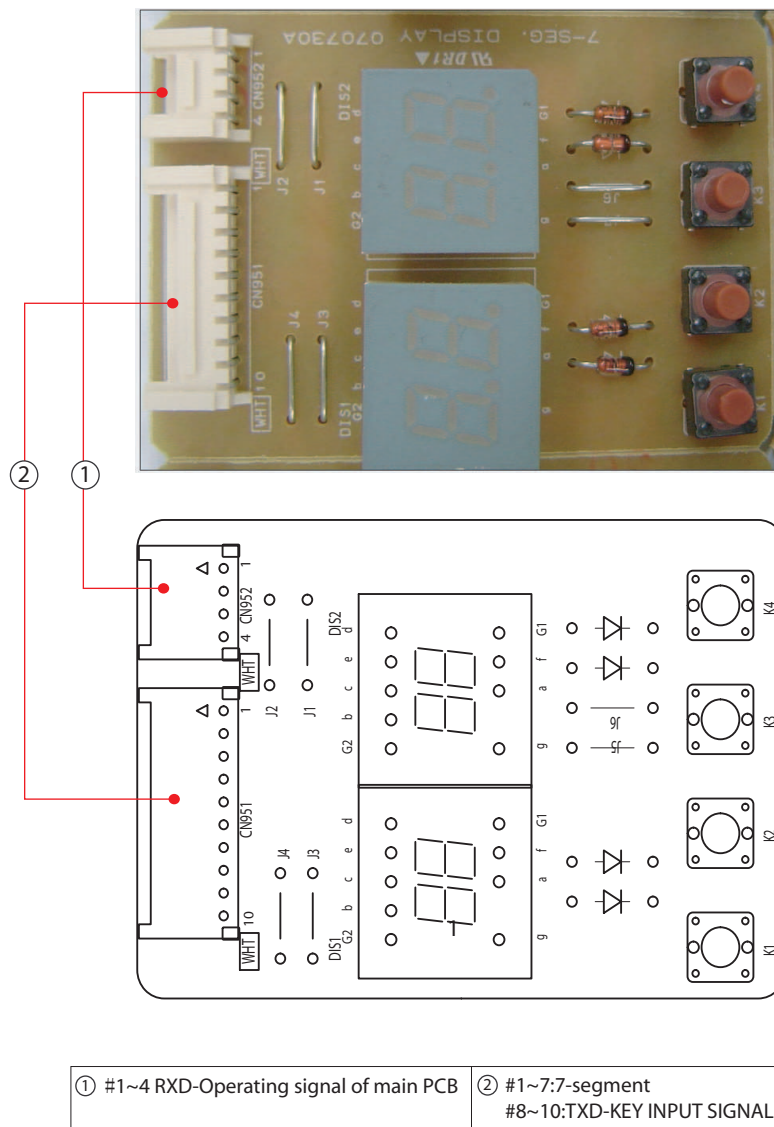
① L(TAB)-POWER AC(L)	② N(TAB)-POWER AC(N)
-------------------------	-------------------------

6-1-4 OUTDOOR INVERTER PCB(UH090/105/140EAV)



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(2PIN/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	

6-1-5 OUTDOOR DISPLAY PCB



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6-2. PCB Parts List

INDOOR MAIN PCB(CH070EAV1/CH090EAV :DB93-04120E)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	
D902	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D903	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D904	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D905	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D906	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D907	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D908	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D909	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D910	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D911	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D912	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D913	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D914	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D915	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D916	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D917	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D918	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D919	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D920	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D921	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D922	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D923	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D924	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D925	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D926	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D927	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,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	0402-001227	DIODE-BRIDGE	D3SBA60,600V,2.3A,SIP-4,BK	1	SNA	
ZD101	0403-000252	DIODE-ZENER	BZX84C3V6,3.4-3.8V,350MW,SOT-23,TP	1	SNA	
ZD102	0403-001285	DIODE-ZENER	BZX84-C11,10.4-11.6V,350mW,SOT-23,TP	1	SNA	
CD101	0406-001105	DIODE-TVS	ST02D-170,155/170/185V,200W,DO-214	1	SNA	
CD312	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4/-7.07V,600W,SMB	1	SNA	
CD334	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4/-7.07V,600W,SMB	1	SNA	
Q201	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180-390	1	SNA	
Q601	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180-390	1	SNA	
Q603	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180-390	1	SNA	
Q602	0501-002296	TR-SMALL SIGNAL	MMST2907A,PNP,200MW,SMT3,TP,100-300	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	
Q904	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q905	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q906	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q907	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q908	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q909	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q910	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	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	
IC07	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	
IC09	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
LED11	0601-001373	LED	ROUND,RED,3MM',630NM	1	SNA	
LED12	0601-001375	LED	ROUND,GRN,3mm,570nm,3.8x5.3mm	1	SNA	
LED13	0601-001377	LED	ROUND,YEL,3mm,585nm,3.8x5.3mm	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	
PC501	0604-001038	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	1	SNA	
PC502	0604-001038	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	1	SNA	
IC20	0801-000393	IC-CMOS LOGIC	74HC86,OR GATE,SOP,14P,150MIL,QUAD,ST,-2.0/6.0V,0.26V,-40to+85C,180mW,4.2V,1uA,	1	SNA	
IC18	1006-001371	IC-LINE TRANSCEIVER	ISL3175EIBZ,SOIC,8P,6.2x5.0x1.75,1,REEL,PLASTIC,3.3V,-40 to 85,0.5W,1,1,0.3/7V,-	1	SNA	
IC19	1006-001371	IC-LINE TRANSCEIVER	ISL3175EIBZ,SOIC,8P,6.2x5.0x1.75,1,REEL,PLASTIC,3.3V,-40 to 85,0.5W,1,1,0.3/7V,-	1	SNA	
IC51	1103-001175	IC-EEPROM	93LC56,128x16,SOP,8P,5x4mm,2.5/6.0V,-40to+85C	1	SNA	
IC02	1203-000274	IC-POSIFIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	SNA	

INDOOR MAIN PCB(CH070EAV1/CH090EAV :DB93-04120E cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
IC01	1203-002710	IC-PWM CONTROLLER	TNY267P,DIP,8P,9.65X6.35MM,PLASTIC,700V,19W,-40TO+150C,481MA,-,ST	1	SNA	
IC03	1203-003334	IC-RESET	S-801,SOT-23,5P,2.9x1.6mm,PLASTIC,3.716/4.284V,256mW,-,2.5mA,-,TP	1	SNA	
NTC01	1404-001316	THERMISTOR-NTC	18ohm,1.7A,3100K,14.5mW/C,0uF,13.5,BK	1	SNA	
R107	2003-000448	R-METAL OXIDE(S)	100Kohm,5%,2W,AA,TP,4x12mm	1	SNA	
R108	2003-000448	R-METAL OXIDE(S)	100Kohm,5%,2W,AA,TP,4x12mm	1	SNA	
R102	2003-002246	R-METAL OXIDE(S)	620OHM,5%,1W,AA,TP,2.4X6.4MM	1	SNA	
R10	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SNA	
R11	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SNA	
R12	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SNA	
R609	2007-000030	R-CHIP	560ohm,5%,1/8W,TP,2012	1	SNA	
R209	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R302	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R303	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R304	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R305	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R306	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R307	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R312	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R313	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R501	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R505	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	
R601	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R603	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R605	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R701	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R803	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R804	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R903	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R911	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R912	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R913	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R914	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R503	2007-000355	R-CHIP	12Kohm,5%,1/8W,TP,2012	1	SNA	
R104	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R210	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R211	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R221	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R350	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R504	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R506	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R602	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R604	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R610	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R902	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R805	2007-000477	R-CHIP	1Mohm,5%,1/8W,TP,2012	1	SNA	
R502	2007-000493	R-CHIP	2.2Kohm,5%,1/8W,TP,2012	1	SNA	
R413	2007-000613	R-CHIP	24Kohm,1%,1/8W,TP,2012	1	SNA	
R404	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R405	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R406	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R416	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R509	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R702	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R901	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R606	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	1	SNA	
R611	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	1	SNA	
R612	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	1	SNA	
R613	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	1	SNA	
R607	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	1	SNA	
R608	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	1	SNA	
R511	2007-000938	R-CHIP	47Kohm,1%,1/8W,TP,2012	1	SNA	
R513	2007-000938	R-CHIP	47Kohm,1%,1/8W,TP,2012	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	

INDOOR MAIN PCB(CH070EAV1/CH090EAV :DB93-04120E cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	
R401	2007-001067	R-CHIP	6.8Kohm,1%,1/8W,TP,2012	1	SNA	
R402	2007-001067	R-CHIP	6.8Kohm,1%,1/8W,TP,2012	1	SNA	
R403	2007-001067	R-CHIP	6.8Kohm,1%,1/8W,TP,2012	1	SNA	
R101	2007-001074	R-CHIP	6.8ohm,5%,1/8W,TP,2012	1	SNA	
R103	2007-001118	R-CHIP	680ohm,5%,1/8W,TP,2012	1	SNA	
C111	2201-000007	C-CERAMIC,DISC	4.7NF,20%,400V,Y5P,BK,16X7MM,7.5	1	SNA	
C112	2201-000007	C-CERAMIC,DISC	4.7NF,20%,400V,Y5P,BK,16X7MM,7.5	1	SNA	
C302	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C303	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C312	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C313	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C10	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C103	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C105	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C108	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C109	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C12	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C201	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C221	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C222	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C304	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C305	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C306	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C307	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C314	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C315	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C316	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C401	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C402	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C403	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C413	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C504	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C505	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C701	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C801	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C802	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C806	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C807	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C808	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C815	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C816	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C817	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C818	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C819	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C902	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C301	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C311	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C901	2203-000444	C-CER,CHIP	1nF,10%,50V,X7R,2012	1	SNA	
C202	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C203	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C502	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C911	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C912	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C913	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C914	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C501	2401-000027	C-AL	4.7uF,20%,50V,GP,TP,5x11.5	1	SNA	
C110	2401-000037	C-AL	470uF,20%,16V,GP,TP,8x11.5,5	1	SNA	
C104	2401-000038	C-AL	470uF,20%,25V,GP,TP,10x12.5mm,	1	SNA	
C106	2401-000151	C-AL	1000uF,20%,25V,GP,TP,10x20,5	1	SNA	
C101	2401-000345	C-AL	100uF,20%,450V,GP,TP,25x31,10m	1	SNA	
C107	2401-000832	C-AL	220uF,20%,25V,GP,TP,8x11.5,5	1	SNA	
C601	2401-002300	C-AL	47uF,20%,50V,GP,TP,6.3x11.5mm	1	SNA	
L101	2702-001123	INDUCTOR-RADIAL	4.7UH,10%,6.5X7.5MM	1	SNA	
X301	2802-001179	RESONATOR-CERAMIC	4MHZ,0.5%,BK,8X3X5.5MM	1	SNA	

INDOOR MAIN PCB(CH070EAV1/CH090EAV :DB93-04120E cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
BZ61	3002-001129	BUZZER-PIEZO	85DB,-,-,2KHZ,-	1	SNA	
SW02	3406-001098	SWITCH-ROTARY	240V AC,25A,6P(10C),L14mm	1	SNA	
SW05	3407-000121	SWITCH-DIP	24V,300mA,SLIDE,STANDARD	1	SNA	
SW06	3407-000121	SWITCH-DIP	24V,300mA,SLIDE,STANDARD	1	SNA	
SW07	3407-000121	SWITCH-DIP	24V,300mA,SLIDE,STANDARD	1	SNA	
RY70	3501-001154	RELAY-MINIATURE	12Vdc,200mW,3000mA,1FormA,10mS,10mS	1	SNA	
RY71	3501-001154	RELAY-MINIATURE	12Vdc,200mW,3000mA,1FormA,10mS,10mS	1	SNA	
RY01	3501-001248	RELAY-MINIATURE	12V,-,11.7MA,DPDT,4MS,4MS	1	SNA	
F702	3601-001308	FUSE	250V,1.6A,TIME-LAG,PLASTIC,8.4x7.6mm	1	SNA	
CN33	3711-000176	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96mm,STRAIGHT,SN,BLU	1	SNA	
CN31	3711-000177	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96MM,STRAIGHT,SN,RED	1	SNA	
CN32	3711-000178	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96mm,STRAIGHT,SN,WHT	1	SNA	
CN71	3711-000203	HEADER-BOARD TO CABLE	1WALL,2P/3P,1R,7.92mm,STRAIGHT,SN,WHT	1	SNA	
CN73	3711-000296	HEADER-BOARD TO CABLE	1WALL,6P,1R,3.96MM,STRAIGHT,SN,WHT	1	SNA	
CN60	3711-000577	HEADER-BOARD TO CABLE	BOX,10P,1R,2.5MM,STRAIGHT,SN,WHT	1	SNA	
CN51	3711-000794	HEADER-BOARD TO CABLE	BOX,2P,1R,2.5mm,STRAIGHT,SN,BLK	1	SNA	
CN83	3711-000796	HEADER-BOARD TO CABLE	BOX,2P,1R,2.5MM,STRAIGHT,SN,RED	1	SNA	
CN81	3711-000939	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5mm,STRAIGHT,SN,RED	1	SNA	
CN41	3711-000940	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5mm,STRAIGHT,SN,WHT	1	SNA	
CN75	3711-003405	HEADER-BOARD TO CABLE	1WALL,2P,1R,7.92mm,STRAIGHT,SN,BLK	1	SNA	
CN74	3711-003406	HEADER-BOARD TO CABLE	1WALL,2P,1R,7.92MM,STRAIGHT,SN,YEL	1	SNA	
CN91	3711-004712	HEADER-BOARD TO CABLE	BOX,9P,1R,2mm,STRAIGHT,SN,WHT	1	SNA	
CN10	3711-005716	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,STRAIGHT,SN,BLK	1	SNA	
ST11	DB26-00046A	TRANS SWITCHING	EI2218,TINY-PJT,-,110~240V (FREE VOLT)	1	SNA	
SW04	DB34-00009A	SWITCH-DIGITAL	PT65 103,ROTARY DIP,-,DC24V Max,0.4VA	1	SNA	
PCB	DB41-00490A	PBA LOGIC BOARD	CH140EAMC,-,FR-1,-,T-1.6,-,-	1	SA	
Heat sink	DB62-03085A	HEAT SINK	-,A6063,25,15,15,-,-,SSEC	1	SNA	
Label Bar code	DB68-02809A	LABEL BAR CODE	-,-,-,-,W170,L115,-,-,-,FOR PACKING CASE	1	SNA	
IC04	DB91-00672A	ASSY-MIC	GALAXY2 PJT 4way micom,STM-0842-OS	1	SNA	
IC04	DB09-00338A	IC MICOM	MB90F823,-,80 P,5 V,24 MHz,Flash Memory	1	SNA	

INDOOR MAIN PCB(CH105/140EAV :DB93-04120C)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	
D902	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D903	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D904	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D905	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D906	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D907	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D908	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D909	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D910	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D911	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D912	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D913	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D914	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D915	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D916	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D917	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D918	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D919	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D920	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D921	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D922	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D923	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D924	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D925	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D926	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,TP	1	SNA	
D927	0401-000133	DIODE-SWITCHING	RLS4148,75V,150mA,LL-34,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	0402-001227	DIODE-BRIDGE	D3SBA60,600V,2.3A,SIP-4,BK	1	SNA	
ZD101	0403-000252	DIODE-ZENER	BZX84C3V6,3.4-3.8V,350MW,SOT-23,TP	1	SNA	
ZD102	0403-001285	DIODE-ZENER	BZX84-C11,10.4-11.6V,350mW,SOT-23,TP	1	SNA	
CD101	0406-001105	DIODE-TVS	ST02D-170,155/170/185V,200W,DO-214	1	SNA	
CD312	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4/-7.07V,600W,SMB	1	SNA	
CD334	0406-001204	DIODE-TVS	SMBJ5.0CA,6.4/-7.07V,600W,SMB	1	SNA	
Q201	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180-390	1	SNA	
Q601	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180-390	1	SNA	
Q603	0501-000534	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180-390	1	SNA	
Q602	0501-002296	TR-SMALL SIGNAL	MMST2907A,PNP,200MW,SMT3,TP,100-300	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	
Q904	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q905	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q906	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q907	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q908	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q909	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	1	SNA	
Q910	0504-000001	TR-DIGITAL	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	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	
IC07	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	
IC09	0506-000175	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1	SNA	
LED11	0601-001373	LED	ROUND,RED,3MM',630NM	1	SNA	
LED12	0601-001375	LED	ROUND,GRN,3mm,570nm,3.8x5.3mm	1	SNA	
LED13	0601-001377	LED	ROUND,YEL,3mm,585nm,3.8x5.3mm	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	
PC501	0604-001038	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	1	SNA	
PC502	0604-001038	PHOTO-COUPLER	TR,130-260%,200mW,DIP-4,ST	1	SNA	
IC20	0801-000393	IC-CMOS LOGIC	74HC86,OR GATE,SOP,14P,150MIL	1	SNA	
IC18	1006-001371	IC-LINE TRANSCEIVER	ISL3175EIBZ,SOIC,8P,6.2x5.0x1.75,1	1	SNA	
IC19	1006-001371	IC-LINE TRANSCEIVER	ISL3175EIBZ,SOIC,8P,6.2x5.0x1.75,1	1	SNA	
IC51	1103-001175	IC-EEPROM	93LC56,128x16,SOP,8P,5x4mm,2.5/6.0V,-40to+85C	1	SNA	
IC02	1203-000274	IC-POS.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	SNA	
IC01	1203-002710	IC-PWM CONTROLLER	TNY267P,DIP,8P,9.65X6.35MM,PLASTIC,700V,19W	1	SNA	
IC03	1203-003334	IC-RESET	S-801,SOT-23,5P,2.9x1.6mm,PLASTIC,	1	SNA	
NTC01	1404-001316	THERMISTOR-NTC	18ohm,1.7A,3100K,14.5mW/C,0uF,13.5,BK	1	SNA	

INDOOR MAIN PCB(CH105/140EAV :DB93-04120C cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
R107	2003-000448	R-METAL OXIDE(S)	100Kohm,5%,2W,AA,TP,4x12mm	1	SNA	
R108	2003-000448	R-METAL OXIDE(S)	100Kohm,5%,2W,AA,TP,4x12mm	1	SNA	
R102	2003-002246	R-METAL OXIDE(S)	620OHM,5%,1W,AA,TP,2.4X6.4MM	1	SNA	
R10	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SNA	
R11	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SNA	
R12	2007-000023	R-CHIP	120ohm,5%,1/8W,TP,2012	1	SNA	
R609	2007-000030	R-CHIP	560ohm,5%,1/8W,TP,2012	1	SNA	
R209	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R302	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R303	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R304	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R305	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R306	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R307	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R312	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R313	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R501	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R505	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	
R601	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R603	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R605	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R701	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R803	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R804	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R903	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R911	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R912	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R913	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R914	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	1	SNA	
R503	2007-000355	R-CHIP	12Kohm,5%,1/8W,TP,2012	1	SNA	
R104	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R210	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R211	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R221	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R350	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R504	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R506	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R602	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R604	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R610	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R902	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	1	SNA	
R805	2007-000477	R-CHIP	1Mohm,5%,1/8W,TP,2012	1	SNA	
R502	2007-000493	R-CHIP	2.2Kohm,5%,1/8W,TP,2012	1	SNA	
R413	2007-000613	R-CHIP	24Kohm,1%,1/8W,TP,2012	1	SNA	
R404	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R405	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R406	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R416	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R509	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R702	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R901	2007-000766	R-CHIP	330ohm,5%,1/8W,TP,2012	1	SNA	
R606	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	1	SNA	
R611	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	1	SNA	
R612	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	1	SNA	
R613	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	1	SNA	
R607	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	1	SNA	
R608	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	1	SNA	
R511	2007-000938	R-CHIP	47Kohm,1%,1/8W,TP,2012	1	SNA	
R513	2007-000938	R-CHIP	47Kohm,1%,1/8W,TP,2012	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	
R401	2007-001067	R-CHIP	6.8Kohm,1%,1/8W,TP,2012	1	SNA	

INDOOR MAIN PCB(CH105/140EAV :DB93-04120C cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
R402	2007-001067	R-CHIP	6.8Kohm,1%,1/8W,TP,2012	1	SNA	
R403	2007-001067	R-CHIP	6.8Kohm,1%,1/8W,TP,2012	1	SNA	
R101	2007-001074	R-CHIP	6.8ohm,5%,1/8W,TP,2012	1	SNA	
R103	2007-001118	R-CHIP	680ohm,5%,1/8W,TP,2012	1	SNA	
C111	2201-000007	C-CERAMIC,DISC	4.7NF,20%,400V,Y5P,BK,16X7MM,7.5	1	SNA	
C112	2201-000007	C-CERAMIC,DISC	4.7NF,20%,400V,Y5P,BK,16X7MM,7.5	1	SNA	
C302	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C303	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C312	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C313	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,1608	1	SNA	
C10	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C103	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C105	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C108	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C109	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C12	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C201	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C221	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C222	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C304	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C305	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C306	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C307	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C314	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C315	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C316	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C401	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C402	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C403	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C413	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C504	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C505	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C701	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C801	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C802	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C806	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C807	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C808	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C815	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C816	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C817	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C818	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C819	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C902	2203-000192	C-CER,CHIP	100nF,+80-20%,50V,Y5V,2012	1	SNA	
C301	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C311	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	SNA	
C901	2203-000444	C-CER,CHIP	1nF,10%,50V,X7R,2012	1	SNA	
C202	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C203	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C502	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C911	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C912	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C913	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C914	2203-001562	C-CER,CHIP	10nF,+80-20%,50V,Y5V,2012	1	SNA	
C501	2401-000027	C-AL	4.7uF,20%,50V,GP,TP,5x11,5	1	SNA	
C110	2401-000037	C-AL	470uF,20%,16V,GP,TP,8x11.5,5	1	SNA	
C104	2401-000038	C-AL	470uF,20%,25V,GP,TP,10x12.5mm,	1	SNA	
C106	2401-000151	C-AL	1000uF,20%,25V,GP,TP,10x20,5	1	SNA	
C101	2401-000345	C-AL	100uF,20%,450V,GP,TP,25x31,10m	1	SNA	
C107	2401-000832	C-AL	220uF,20%,25V,GP,TP,8x11.5,5	1	SNA	
C601	2401-002300	C-AL	47uF,20%,50V,GP,TP,6.3x11,5mm	1	SNA	
L101	2702-001123	INDUCTOR-RADIAL	4.7UH,10%,6.5X7.5MM	1	SNA	
X301	2802-001179	RESONATOR-CERAMIC	4MHZ,0.5%,BK,8X3X5.5MM	1	SNA	
BZ61	3002-001129	BUZZER-PIEZO	85DB,-,-,2KHZ,-	1	SNA	
SW02	3406-001098	SWITCH-ROTARY	240V AC,25A,6P(10C),L14mm	1	SNA	
SW05	3407-000121	SWITCH-DIP	24V,300mA,SLIDE,STANDARD	1	SNA	
SW06	3407-000121	SWITCH-DIP	24V,300mA,SLIDE,STANDARD	1	SNA	
SW07	3407-000121	SWITCH-DIP	24V,300mA,SLIDE,STANDARD	1	SNA	
RY70	3501-001154	RELAY-MINIATURE	12Vdc,200mW,3000mA,1FormA,10mS,10mS	1	SNA	

■ INDOOR MAIN PCB(CH105/140EAV :DB93-04120C cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
RY71	3501-001154	RELAY-MINIATURE	12Vdc,200mW,3000mA,1FormA,10mS,10mS	1	SNA	
RY01	3501-001248	RELAY-MINIATURE	12V,-,11.7MA,DPDT,4MS,4MS	1	SNA	
F702	3601-001308	FUSE	250V,1.6A,TIME-LAG,PLASTIC,8.4x7.6mm	1	SNA	
CN33	3711-000176	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96mm,STRAIGHT,SN,BLU	1	SNA	
CN31	3711-000177	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96MM,STRAIGHT,SN,RED	1	SNA	
CN32	3711-000178	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96mm,STRAIGHT,SN,WHT	1	SNA	
CN71	3711-000203	HEADER-BOARD TO CABLE	1WALL,2P/3P,1R,7.92mm,STRAIGHT,SN,WHT	1	SNA	
CN73	3711-000296	HEADER-BOARD TO CABLE	1WALL,6P,1R,3.96MM,STRAIGHT,SN,WHT	1	SNA	
CN60	3711-000577	HEADER-BOARD TO CABLE	BOX,10P,1R,2.5MM,STRAIGHT,SN,WHT	1	SNA	
CN51	3711-000794	HEADER-BOARD TO CABLE	BOX,2P,1R,2.5mm,STRAIGHT,SN,BLK	1	SNA	
CN83	3711-000796	HEADER-BOARD TO CABLE	BOX,2P,1R,2.5MM,STRAIGHT,SN,RED	1	SNA	
CN81	3711-000939	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5mm,STRAIGHT,SN,RED	1	SNA	
CN41	3711-000940	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5mm,STRAIGHT,SN,WHT	1	SNA	
CN75	3711-003405	HEADER-BOARD TO CABLE	1WALL,2P,1R,7.92mm,STRAIGHT,SN,BLK	1	SNA	
CN74	3711-003406	HEADER-BOARD TO CABLE	1WALL,2P,1R,7.92MM,STRAIGHT,SN,YEL	1	SNA	
CN91	3711-004712	HEADER-BOARD TO CABLE	BOX,9P,1R,2mm,STRAIGHT,SN,WHT	1	SNA	
CN10	3711-005716	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,STRAIGHT,SN,BLK	1	SNA	
ST11	DB26-00046A	TRANS SWITCHING	EI2218,TINY-PJT,-,110~240V (FREE VOLT)	1	SNA	
SW04	DB34-00009A	SWITCH-DIGITAL	PT65 103,ROTARY DIP,-,DC24V	1	SNA	
PCB	DB41-00490A	PBA LOGIC BOARD	CH140EAMC,-,FR-1,-,T-1.6,-,-	1	SA	
Heat sink	DB62-03085A	HEAT SINK	-,A6063,25,15,15,-,-,SSEC	1	SNA	
Label Bar code	DB68-02809A	LABEL BAR CODE	-,-,-,-,W170,L115,-,-,-,FOR PACKING CASE	1	SNA	
IC04	DB91-00411A	ASSY-MIC	Star_PJT New 4way,MB90F823, 80P, ROM 128K bytes	1	SA	

■ INDOOR SUB PCB(DB93-04119A)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
VA71	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA	
X701	2301-001439	C-FILM,LEAD-PPF	220nF,10%,275V,BK,18x10x15.8mm,15	1	SNA	
X702	2301-001439	C-FILM,LEAD-PPF	220nF,10%,275V,BK,18x10x15.8mm,15	1	SNA	
F701_1	3601-000263	FUSE-CARTRIDGE	250V,3.15A,TIME-LAG,GLASS,5x20mm	1	SNA	
CN02	3711-000203	HEADER-BOARD TO CABLE	1WALL,2P/3P,1R,7.92mm,STRAIGHT,SN,WHT	1	SNA	
CN01	3711-003404	HEADER-BOARD TO CABLE	1WALL,2P,1R,7.92mm,STRAIGHT,SN,BLU	1	SNA	
FT71	DB27-00032A	COIL CHOKE	-,14mH MIN AT 1KHz(1V),-,2.5A,Φ19x11x13,-,20*28*20,-,Φ0.5,480PCS/PACK,-	1	SNA	
F701	DB41-00489A	PBA LOGIC BOARD	CH140EAMC,-,FR-1,-,T-1.6,-	1	SA	
	DB61-00924A	HOLDER-FUSE	-,FH-51B,-,,-,SSEC	1	SNA	
	DB68-02809A	LABEL BAR CODE	-,,-,W170,L115,-,,-,FOR PACKING CASE	1	SNA	

OUTDOOR ASSY PCB SUB-EMI (UH090/105/140EAV :DB93-05844A)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
	DB93-05844A	ASSY PCB SUB-EMI	UH140EAV1,SSEC			
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	
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	
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	
C008	2301-001314	C-FILM,LEAD-PPF	470nF,10%,275V,BK,25x11.5x21mm	1	SNA	
C009	2301-001285	C-FILM,LEAD-PPF	680NF,10%,275V,BK,31X11X21MM,27.5	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	
DSA	4715-001093	SURGE ABSORBER	3600V,20%,2000A,-,AXIAL	1	SNA	
FT00	DB27-00054A	COIL CHOKE	SSC4823010B,RIBHF040B1,1.0mH	1	SNA	
FT01	DB27-00054A	COIL CHOKE	SSC4823010B,RIBHF040B1,1.0mH	1	SNA	
FT02	DB27-00054A	COIL CHOKE	SSC4823010B,RIBHF040B1,1.0mH	1	SNA	
PCB BOARD	DB41-00670A	PCB SUB-EMI	GALAXY 2 PJT,FR-4,2,V2.2,T1.6,-,-,-,-,-,SSEC	1	SNA	
	DB93-06338A	ASSY CONNECTOR WIRE-EARTH	UH140EAV,SSEC,UL1015,AWG18,620÷10	1	SNA	

OUTDOOR ASSY PCB SUB-EMI (UH070EAV1 :DB93-05840C)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	
VA05	1405-000154	VARISTOR	460Vdc,2500A,17.5x7.5mm,TP	1	SNA	
R002	2001-001150	R-CARBON(S)	470KOHM,5%,1/2W,AA,TP,2.4X6.4MM	1	SNA	
R003	2001-001150	R-CARBON(S)	470KOHM,5%,1/2W,AA,TP,2.4X6.4MM	1	SNA	
C004	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5	1	SNA	
C005	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5	1	SNA	
C009	2201-000540	C-CERAMIC,DISC	4.7NF,20%,2KV,Y5U,BK,12X5MM,10	1	SNA	
C010	2201-000540	C-CERAMIC,DISC	4.7NF,20%,2KV,Y5U,BK,12X5MM,10	1	SNA	
C007	2301-001285	C-FILM,LEAD-PPF	680NF,10%,275V,BK,31X11X21MM,27.5	1	SNA	
C003	2301-001577	C-FILM,LEAD-PEF	1000NF,10%,275V,BK,26.5X21.5X12.5,22.5	1	SNA	
FUSE	3601-001381	FUSE-CARTRIDGE	250Vac,30Aac,FAST-ACTING,CERAMIC,31.8*6.35	1	SNA	
FUSE CLIP	3602-001038	FUSE-CLIP	250V,30A,10mohm	2	SNA	
L	3712-001139	CONNECTOR-TERMINAL	TAB,MALE,-,6.35X0.8MM	1	SNA	
N	3712-001139	CONNECTOR-TERMINAL	TAB,MALE,-,6.35X0.8MM	1	SNA	
DSA	4715-001093	SURGE ABSORBER	3600V,20%,2000A,-,AXIAL	1	SNA	
FT00	DB27-00040A	COIL CHOKE	SSC3120030B,AQV24JAKCV,3.0mH,10%,-,200m OHM	1	SNA	
FT01	DB27-00040A	COIL CHOKE	SSC3120030B,AQV24JAKCV,3.0mH,10%,-,200m OHM	1	SNA	
	DB39-00514F	CBF LEAD WIRE-EARTH	-,KFR-35(25)GW/GPI,-,200,-,-,-,GRN/YEL,-,-,-	1	SNA	
PCB BOARD	DB41-00531A	PCB SUB	FORTE,CEM-3,2,1.0,1.6T,160*140,-,3,-,-	1	SNA	
	DB93-04908F	ASSY CONNECTOR WIRE-POWER	UH070EAV1,SSEC,S730620-3, SIN-21T-1.8S,UL1015#14,140÷5	1	SNA	

OUTDOOR ASSY PCB SUB-DISPLAY :DB93-05955A)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
	DB93-05955A	ASSY PCB SUB-DISPLAY	GALAXY2 PLT,SSEC			
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,LED DISPLAY,2 DIGIT	1	SNA	
DIS2	DB07-00054A	LED DISPLAY	SSD-A3202GS-A13,LED DISPLAY,2 DIGIT,16 SEGMENT	1	SNA	
PCB BOARD	DB41-00671A	PCB SUB-DISPLAY	GALAXY 2 PJT,FR-1,1,V1.0,T1.6	1	SNA	

OUTDOOR ASSY MAIN PCB (UH090/105/140EAV :DB93-05842A)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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,QUAD,ST	1	SNA	
IC500	1006-001371	IC-LINE TRANSCEIVER	ISL3175EIBZ,SOIC,8P,6.2x5.0x1.75,1,REEL	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,PLASTIC	1	SNA	
IC100	1203-003527	IC-PWM CONTROLLER	TOP243,DIP,7P,9.83x6.6mm,PLASTIC	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	
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	

OUTDOOR ASSY MAIN PCB (UH090/105/140EAV :DB93-05842A cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	
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	

OUTDOOR ASSY MAIN PCB (UH090/105/140EAV :DB93-05842A cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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,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,PL-5 or Equiv.	1		
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,-,-,-,SSEC	1	SNA	
IC301	DB91-00582A	ASSY-MIC	GALAXY_2 INVETER OUT MAIN MICOM	1	SNA	
IC301	DB09-00338A	IC MICOM	MB90F823,-,80 P,5 V,24 MHz,Flash Memory	1	SNA	
	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 ASSY MAIN PCB -INVERTER(UH140EAV :DB93-05843A)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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,1.6X0.8X0.55MM	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,1.6x0.8x0.55mm	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	SA	
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,PLASTIC	1	SNA	
IC11	1203-003527	IC-PWM CONTROLLER	TOP243,DIP,7P,9.83x6.6mm,PLASTIC	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	
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	

OUTDOOR ASSY MAIN PCB -INVERTER(UH140EAV :DB93-05843A cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	
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	

OUTDOOR ASSY MAIN PCB -INVERTER(UH140EAV :DB93-05843A cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	
C813	2203-000444	C-CER,CHIP	1nF,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	
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,GP,TP,6.3x11,5	1	SNA	

OUTDOOR ASSY MAIN PCB -INVERTER(UH140EAV :DB93-05843A cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	1	SNA	
IC700	DB32-00184A	SENSOR MAG-CT SENSOR	ACS754LCB-050-PFF,R1XBHF040B1	1	SNA	
IC701	DB32-00184A	SENSOR MAG-CT SENSOR	ACS754LCB-050-PFF,R1XBHF040B1	1	SNA	
PCB BOARD	DB41-00669A	PCB MAIN-INVERTER	GALAXY 2 PJT,FR-4,2,1V1.1,T1.6,SSEC	1	SNA	
J101	DB47-90005A	JUMPER WIRE	TA0.6PI/52MM,P0509-400-108,-,-	1	SNA	
IC303	DB91-00565A	ASSY-EEPROM	UH140EAV1,93LC66, SSEC	1	SNA	
IC303	1103-001038	IC-EEPROM	93LC66,4KBIT,256X16BIT,SOP,8P,5X4MM	1	SNA	
IC301	DB91-00574A	ASSY-MIC	GALAXY2 OUTDOOR Inv Micom,STM-0753-OS	1	SNA	
IC301	DB09-00517A	IC MICOM	MN103FA7K,-,80P,+5V,10 MHz,Flash Memory	1	SNA	
N1	DB93-06328B	ASSY CONNECTOR WIRE-POWER	UH140EAV,SSEC,UL1015,AWG12	1	SNA	
U,V,W	DB93-06343A	ASSY CONNECTOR WIRE-COMP	UH140EAV,SSEC,UL1015,AWG12,120÷10,BLK,42816-03	1	SNA	
PEACTOR01,02	DB93-06348A	ASSY CONNECTOR WIRE-REACTOR	UH140EAV,SSEC,UL1015,AWG12,500÷10,BLK,42816-2	1	SNA	
L,N	DB93-06392A	ASSY CONNECTOR WIRE-POWER	UH140EAV,SSEC,UL1015,AWG18/12	1	SNA	
	DB93-06393A	ASSY CONNECTOR WIRE-JUMP	UH140EAV,SSEC,UL1015,AWG12,170÷10,SIN-81T-3.65	1	SNA	
	DB93-06393B	ASSY CONNECTOR WIRE-JUMP	UH140EAV,SSEC,UL1015,AWG12,170÷10,SIN-81T-3.65	1	SNA	
IPM	DB95-00630A	ASSY-IPM	MH080FXEA4,PS21869-P	1	SNA	
PFC-HIC	DB95-01471A	ASSY-PFC MODULE	UH140EAV,PFC MODULE	1	SNA	
Q903	DB98-16589A	ASSY-IGBT		1	SNA	
C125	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7,5	1	SNA	
C128	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7,5	1	SNA	
C126	2201-000322	C-CERAMIC,DISC	2.2NF,10%,2KV,Y5P,TP,13X5MM,10	1	SNA	
C127	2201-000322	C-CERAMIC,DISC	2.2NF,10%,2KV,Y5P,TP,13X5MM,10	1	SNA	

OUTDOOR ASSY MAIN PCB -INVERTER(UH105EAV :DB93-05843B)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	Doyeon Kim
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,1.6X0.8X0.55MM	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,1.6x0.8x0.55mm	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	SA	
IC16	1203-000274	IC-POS.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	SNA	
IC19	1203-000274	IC-POS.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	SNA	
IC13	1203-002948	IC-POS.ADJUST REG.	TL431ACD,SOP,8P,4.9X3.9MM,PLASTIC	1	SNA	
IC11	1203-003527	IC-PWM CONTROLLER	TOP243,DIP,7P,9.83x6.6mm,PLASTIC	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	
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	

OUTDOOR ASSY MAIN PCB -INVERTER(UH105EAV :DB93-05843B cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	
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	

OUTDOOR ASSY MAIN PCB -INVERTER(UH105EAV :DB93-05843B cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	
C813	2203-000444	C-CER,CHIP	1nF,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	
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,GP,TP,6.3x11,5	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	

OUTDOOR ASSY MAIN PCB -INVERTER(UH105EAV :DB93-05843B cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	1	SNA	
IC700	DB32-00184A	SENSOR MAG-CT SENSOR	ACS754LCB-050-PFF,R1XBHF040B1,50A	1	SNA	
IC701	DB32-00184A	SENSOR MAG-CT SENSOR	ACS754LCB-050-PFF,R1XBHF040B1	1	SNA	
PCB BOARD	DB41-00669A	PCB MAIN-INVERTER	GALAXY 2 PJT,FR-4,2,V1.1,T1.6,SSEC	1	SNA	
J101	DB47-90005A	JUMPER WIRE	TA0.6PI/52MM,P0509-400-108,-,-	1	SNA	
IC303	DB91-00565B	ASSY-EEPROM	UH105EAV1,93LC66,SSEC	1	SNA	
IC303	1103-001038	IC-EEPROM	93LC66,4KBIT,256X16BIT,SOP,8P,5X4MM	1	SNA	
IC301	DB91-00574A	ASSY-MIC	GALAXY2 OUTDOOR Inv Micom,STM-0753-OS	1	SNA	
IC301	DB09-00517A	IC MICOM	MN103FA7K,-,80P,+5V,10 MHz,Flash Memory	1	SNA	
N1	DB93-06328B	ASSY CONNECTOR WIRE-POWER	UH140EAV,SSEC,UL1015,AWG12	1	SNA	
U,V,W	DB93-06343A	ASSY CONNECTOR WIRE-COMP	UH140EAV,SSEC,UL1015,AWG12,120÷10,BLK,42816-03	1	SNA	
PEACTOR01,02	DB93-06348A	ASSY CONNECTOR WIRE-REACTOR	UH140EAV,SSEC,UL1015,AWG12,500÷10,BLK,42816-2	1	SNA	
L,N	DB93-06392A	ASSY CONNECTOR WIRE-POWER	UH140EAV,SSEC,UL1015,AWG18/12	1	SNA	
	DB93-06393A	ASSY CONNECTOR WIRE-JUMP	UH140EAV,SSEC,UL1015,AWG12,170÷10,SIN-81T-3.65	1	SNA	
	DB93-06393B	ASSY CONNECTOR WIRE-JUMP	UH140EAV,SSEC,UL1015,AWG12,170÷10,SIN-81T-3.65	1	SNA	
IPM	DB95-00630A	ASSY-IPM	MH080FXEA4,PS21869-P	1	SNA	
PFC-HIC	DB95-01471A	ASSY-PFC MODULE	UH140EAV,PFC MODULE	1	SNA	
Q903	DB98-16589A	ASSY-IGBT		1	SNA	
C125	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7,5	1	SNA	
C128	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7,5	1	SNA	
C126	2201-000322	C-CERAMIC,DISC	2.2NF,10%,2KV,Y5P,TP,13X5MM,10	1	SNA	
C127	2201-000322	C-CERAMIC,DISC	2.2NF,10%,2KV,Y5P,TP,13X5MM,10	1	SNA	

OUTDOOR ASSY MAIN PCB -INVERTER(UH090EAV :DB93-05843C)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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,1.6X0.8X0.55MM	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,1.6x0.8x0.55mm	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	SA	
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,PLASTIC	1	SNA	
IC11	1203-003527	IC-PWM CONTROLLER	TOP243,DIP,7P,9.83x6.6mm,PLASTIC	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	
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	

OUTDOOR ASSY MAIN PCB -INVERTER(UH090EAV :DB93-05843C cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	
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	

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Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	
C813	2203-000444	C-CER,CHIP	1nF,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	
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,GP,TP,6.3x11,5	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	

OUTDOOR ASSY MAIN PCB -INVERTER(UH090EAV :DB93-05843C cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
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	1	SNA	
IC700	DB32-00184A	SENSOR MAG-CT SENSOR	ACS754LCB-050-PFF,RIBBHF040B1,50A	1	SNA	
IC701	DB32-00184A	SENSOR MAG-CT SENSOR	ACS754LCB-050-PFF,RIBBHF040B1,50A	1	SNA	
PCB BOARD	DB41-00669A	PCB MAIN-INVERTER	GALAXY 2 PJT,FR-4,2,V1.1,T1.6,-,-,-,-,SSEC	1	SNA	
J101	DB47-90005A	JUMPER WIRE	TA0.6PI/52MM,P0509-400-108,-,-	1	SNA	
IC303	DB91-00565C	ASSY-EEPROM	UH090EAV1,93LC66,SSEC	1	SNA	
	1103-001038	IC-EEPROM	93LC66,4KBIT,256X16BIT,SOP,8P,5X4MM	1	SNA	
IC301	DB91-00574A	ASSY-MIC	GALAXY2 OUTDOOR Inv Micom,STM-0753-OS	1	SNA	
IC301	DB09-00517A	IC MICOM	MN103FA7K,-,80P,+5V,10 MHz,Flash Memory	1	SNA	
N1	DB93-06328B	ASSY CONNECTOR WIRE-POWER	UH140EAV,SSEC,UL1015,AWG12	1	SNA	
U,V,W	DB93-06343A	ASSY CONNECTOR WIRE-COMP	UH140EAV,SSEC,UL1015,AWG12,120÷10,BLK,42816-03	1	SNA	
PEACTOR01,02	DB93-06348A	ASSY CONNECTOR WIRE-REACTOR	UH140EAV,SSEC,UL1015,AWG12,500÷10,BLK,42816-2	1	SNA	
L,N	DB93-06392A	ASSY CONNECTOR WIRE-POWER	UH140EAV,SSEC,UL1015,AWG18/12	1	SNA	
	DB93-06393A	ASSY CONNECTOR WIRE-JUMP	UH140EAV,SSEC,UL1015,AWG12,170÷10,SIN-81T-3.65	1	SNA	
	DB93-06393B	ASSY CONNECTOR WIRE-JUMP	UH140EAV,SSEC,UL1015,AWG12,170÷10,SIN-81T-3.65	1	SNA	
IPM	DB95-00630A	ASSY-IPM	MH080FXEA4,PS21869-P	1	SNA	
PFC-HIC	DB95-01471A	ASSY-PFC MODULE	UH140EAV,PFC MODULE	1	SNA	
Q903	DB98-16589A	ASSY-IGBT		1	SNA	
C125	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5	1	SNA	
C128	2201-000154	C-CERAMIC,DISC	10NF,+80-20%,2KV,Y5P,TP,20X5MM,7.5	1	SNA	
C126	2201-000322	C-CERAMIC,DISC	2.2NF,10%,2KV,Y5P,TP,13X5MM,10	1	SNA	
C127	2201-000322	C-CERAMIC,DISC	2.2NF,10%,2KV,Y5P,TP,13X5MM,10	1	SNA	

OUTDOOR ASSY MAIN PCB -INVERTER(UH070EAV1 :DB93-05839A)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
0401-000133	D451	RLS4148,75V,150mA,LL-34,TP	DIODE-SWITCHING	1	SNA	
0401-000133	D452	RLS4148,75V,150mA,LL-34,TP	DIODE-SWITCHING	1	SNA	
0401-000133	D453	RLS4148,75V,150mA,LL-34,TP	DIODE-SWITCHING	1	SNA	
0401-000133	D454	RLS4148,75V,150mA,LL-34,TP	DIODE-SWITCHING	1	SNA	
0401-000133	D455	RLS4148,75V,150mA,LL-34,TP	DIODE-SWITCHING	1	SNA	
0401-000133	D456	RLS4148,75V,150mA,LL-34,TP	DIODE-SWITCHING	1	SNA	
0402-001427	D103	ES1D,200V,1A,DO-214AC,TP	DIODE-RECTIFIER	1	SNA	
0402-001427	D104	ES1D,200V,1A,DO-214AC,TP	DIODE-RECTIFIER	1	SNA	
0402-001427	D105	ES1D,200V,1A,DO-214AC,TP	DIODE-RECTIFIER	1	SNA	
0402-001427	D106	ES1D,200V,1A,DO-214AC,TP	DIODE-RECTIFIER	1	SNA	
0402-001429	D102	US1J,600V,1A,DO-214AC,TP	DIODE-RECTIFIER	1	SNA	
0402-001429	D401	US1J,600V,1A,DO-214AC,TP	DIODE-RECTIFIER	1	SNA	
0402-001429	D402	US1J,600V,1A,DO-214AC,TP	DIODE-RECTIFIER	1	SNA	
0402-001429	D403	US1J,600V,1A,DO-214AC,TP	DIODE-RECTIFIER	1	SNA	
0402-001553	BD01	GBPC3506W,600V,35A,SQUARE-4,BK	DIODE-BRIDGE	1	SNA	
0403-000258	ZD21	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	DIODE-ZENER	1	SNA	
0403-000258	ZD22	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	DIODE-ZENER	1	SNA	
0403-000258	ZD451	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	DIODE-ZENER	1	SNA	
0403-000258	ZD452	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	DIODE-ZENER	1	SNA	
0403-000258	ZD453	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	DIODE-ZENER	1	SNA	
0403-000258	ZD501	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	DIODE-ZENER	1	SNA	
0403-000258	ZD502	BZX84C5V6,5.2-6V,225mW,SOT-23,TP	DIODE-ZENER	1	SNA	
0406-001109	CD31	SAC5.0,7.6/-V,500W,DO-15	DIODE-TVS	1	SNA	
0406-001109	CD32	SAC5.0,7.6/-V,500W,DO-15	DIODE-TVS	1	SNA	
0407-000123	D201	DAN202K,80V,100mA,CA2-3,SOT-23,TP	DIODE-ARRAY	1	SNA	
0504-000001	Q904	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	TR-DIGITAL	1	SNA	
0504-000001	Q905	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	TR-DIGITAL	1	SNA	
0504-000001	Q906	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	TR-DIGITAL	1	SNA	
0504-000001	Q907	DTA114EKA,PNP,200mW,10K/10K,SOT-23,TP	TR-DIGITAL	1	SNA	
0504-000127	Q801	FJV3102RMTF,NPN,200MW,10K/10K,SOT-23,TP	TR-DIGITAL	1	SNA	
0504-000127	Q902	FJV3102RMTF,NPN,200MW,10K/10K,SOT-23,TP	TR-DIGITAL	1	SNA	
0506-000175	IC51	2003,NPN,7,1W,SOP-16,ST,1000	TR-ARRAY	1	SNA	
0506-000175	IC52	2003,NPN,7,1W,SOP-16,ST,1000	TR-ARRAY	1	SNA	
0506-000175	IC53	2003,NPN,7,1W,SOP-16,ST,1000	TR-ARRAY	1	SNA	
0506-000175	IC54	2003,NPN,7,1W,SOP-16,ST,1000	TR-ARRAY	1	SNA	
0506-000175	IC55	2003,NPN,7,1W,SOP-16,ST,1000	TR-ARRAY	1	SNA	
0506-000175	IC72	2003,NPN,7,1W,SOP-16,ST,1000	TR-ARRAY	1	SNA	
0508-001154	Q803	-,600V,80A,-,195W,TO-3P	TR-IGBT	1	SNA	
0604-001003	IC31	TR,50-150%,200mW,DIP-4,ST	PHOTO-COUPLER	1	SNA	
0604-001172	IC12	TR,100-300,200mW,SOP,TP	PHOTO-COUPLER	1	SNA	
0604-001172	IC61	TR,100-300,200mW,SOP,TP	PHOTO-COUPLER	1	SNA	
0604-001172	IC62	TR,100-300,200mW,SOP,TP	PHOTO-COUPLER	1	SNA	
0801-000393	IC30	74HC86,OR GATE,SOP,14P,150MIL,QUAD,ST,-,2.0/6.0V,0.26V,-40to+85C,180mW,4.2V,1uA,	IC-CMOS LOGIC	1	SNA	
1006-001371	IC20	ISL3175EIBZ,SOIC,8P,6.2x5.0x1.75,1,REEL,PLASTIC,3.3V,-40 to 85C,0.5W,1,1,0.3/7V,-	IC-LINE TRANSCEIVER	1	SNA	
1202-000104	IC21	393,SOP,8P,150MIL,DUAL,36V,CMOS,PLASTIC,18V,780mW,0to+70C,18V,5mV,250nA,50NA,30	IC-VOLTAGE COMP.	1	SNA	
1203-000274	IC16	7805,TO-220,3P,-,PLASTIC,4.8/5	IC-POS.FIXED REG.	1	SNA	
1203-000274	IC19	7805,TO-220,3P,-,PLASTIC,4.8/5	IC-POS.FIXED REG.	1	SNA	
1203-002948	IC13	TL431ACD,SOP,8P,4.9X3.9MM,PLASTIC,36V,1.5W,0TO+70C,150MA,2.44/2.55V,TP	IC-POS.ADJUST REG.	1	SNA	
1203-003334	IC59	S-801,SOT-23,5P,2.9x1.6mm,PLASTIC,3.716/4.284V,256mW,-,2.5mA,-,TP	IC-RESET	1	SNA	
1203-003527	IC11	TOP243,DIP,7P,9.83x6.6mm,PLASTIC,-0.3/700V,25W,-40to+150C,1.44A,-,	IC-PWM CONTROLLER	1	SNA	
2003-000708	R107	47ohm,5%,1W,AA,TP,3.3x9mm	R-METAL OXIDE(S)	1	SNA	
2003-000855	R101	47Kohm,5%,3W,AA,TP,6x16mm	R-METAL OXIDE(S)	1	SNA	
2006-001080	R001	200ohm,5%,5W,CB,BK,13x9x25.5mm	R-CEMENT(S)	1	SNA	
2006-001145	R421	0.01ohm,5%,15W,CA,BK,48x12.5x12.5mm	R-CEMENT	1	SNA	
2007-000074	R401	100ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000074	R402	100ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000074	R403	100ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000074	R404	100ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000074	R405	100ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000074	R406	100ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000076	R504	330ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000076	R505	330ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000076	R506	330ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000076	R507	330ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000076	R553	330ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000076	R606	330ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	

OUTDOOR ASSY MAIN PCB -INVERTER(UH070EAV1 :DB93-05839A Cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
2007-000076	R607	330ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000077	R323	470ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000077	R342	470ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000077	R808	470ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000078	R103	1Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000078	R512	1Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000078	R557	1Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000078	R559	1Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000078	R601	1Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000078	R604	1Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000080	R205	2Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000080	R208	2Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000082	R104	3.3Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000084	R315	4.7Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000084	R324	4.7Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000084	R325	4.7Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000084	R327	4.7Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000084	R328	4.7Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000084	R407	4.7Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000087	R914	6.8Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R302	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R303	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R304	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R305	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R306	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R316	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R509	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R552	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R554	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R555	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R556	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R558	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R560	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R561	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R562	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R563	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R566	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R573	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R574	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R805	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R913	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R916	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000090	R917	10Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000094	R610	22Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000109	R510	1Mohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000111	R102	6.8ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000113	R408	33ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000113	R409	33ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000113	R410	33ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000116	R301	120ohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000385	R115	14.3Kohm,1%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-000455	R502	18Kohm,1%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000455	R515	18Kohm,1%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000512	R706	2.4Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000512	R707	2.4Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000512	R708	2.4Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000553	R807	20ohm,5%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-000614	R503	24Kohm,1%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000614	R514	24Kohm,1%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000656	R307	27Kohm,5%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-000656	R308	27Kohm,5%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-000656	R311	27Kohm,5%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-000656	R312	27Kohm,5%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-000924	R112	470Kohm,1%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-000924	R113	470Kohm,1%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-000924	R114	470Kohm,1%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-000929	R412	470ohm,1%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000950	R806	47ohm,5%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-000965	R511	5.1Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	

OUTDOOR ASSY MAIN PCB -INVERTER(UH070EAV1 :DB93-05839A Cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
2007-000965	R910	5.1Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000965	R911	5.1Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-000965	R912	5.1Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-001179	R907	8.2Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-001179	R908	8.2Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-001179	R909	8.2Kohm,5%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-001318	R900	1Kohm,5%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-001318	R901	1Kohm,5%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-001318	R902	1Kohm,5%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-001318	R903	1Kohm,5%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-001318	R904	1Kohm,5%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-001318	R905	1Kohm,5%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-001318	R906	1Kohm,5%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-002667	R201	90.9Kohm,1%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-002667	R202	90.9Kohm,1%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-002667	R206	90.9Kohm,1%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-002667	R207	90.9Kohm,1%,1/4W,TP,3216	R-CHIP	1	SNA	
2007-007342	R106	1.82Kohm,1%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-007342	R203	1.82Kohm,1%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-007342	R204	1.82Kohm,1%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-007445	R105	9.09Kohm,1%,1/10W,TP,1608	R-CHIP	1	SNA	
2007-008261	R116	150KOHM,1%,1/2W,TP,5025	R-CHIP	1	SNA	
2007-008261	R117	150KOHM,1%,1/2W,TP,5025	R-CHIP	1	SNA	
2007-008261	R118	150KOHM,1%,1/2W,TP,5025	R-CHIP	1	SNA	
2201-000154	C307	10NF,+80-20%,2KV,YSP,TP,20X5MM,7.5	C-CERAMIC,DISC	1	SNA	
2201-000154	C308	10NF,+80-20%,2KV,YSP,TP,20X5MM,7.5	C-CERAMIC,DISC	1	SNA	
2201-000154	C309	10NF,+80-20%,2KV,YSP,TP,20X5MM,7.5	C-CERAMIC,DISC	1	SNA	
2201-000154	C310	10NF,+80-20%,2KV,YSP,TP,20X5MM,7.5	C-CERAMIC,DISC	1	SNA	
2201-000322	C105	2.2NF,10%,2KV,YSP,TP,13X5MM,10	C-CERAMIC,DISC	1	SNA	
2201-000322	C106	2.2NF,10%,2KV,YSP,TP,13X5MM,10	C-CERAMIC,DISC	1	SNA	
2201-000322	C903	2.2NF,10%,2KV,YSP,TP,13X5MM,10	C-CERAMIC,DISC	1	SNA	
2203-000125	C411	1.2nF,10%,50V,X7R,TP,1608,-	C-CER,CHIP	1	SNA	
2203-000125	C412	1.2nF,10%,50V,X7R,TP,1608,-	C-CER,CHIP	1	SNA	
2203-000125	C413	1.2nF,10%,50V,X7R,TP,1608,-	C-CER,CHIP	1	SNA	
2203-000125	C414	1.2nF,10%,50V,X7R,TP,1608,-	C-CER,CHIP	1	SNA	
2203-000125	C415	1.2nF,10%,50V,X7R,TP,1608,-	C-CER,CHIP	1	SNA	
2203-000125	C416	1.2nF,10%,50V,X7R,TP,1608,-	C-CER,CHIP	1	SNA	
2203-000257	C201	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C203	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C204	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C205	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C301	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C451	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C452	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C453	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C454	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C455	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C456	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C567	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C603	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C607	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C801	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C900	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C901	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C902	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C907	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000257	C908	10nF,10%,50V,X7R,TP,1608	C-CER,CHIP	1	SNA	
2203-000440	C609	1nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-001414	C108	330nF,10%,50V,X7R,2012	C-CER,CHIP	1	SNA	
2203-002002	C3011	33pF,5%,50V,NPO,BK,1608,-	C-CER,CHIP	1	SNA	
2203-002002	C318	33pF,5%,50V,NPO,BK,1608,-	C-CER,CHIP	1	SNA	
2203-002002	C319	33pF,5%,50V,NPO,BK,1608,-	C-CER,CHIP	1	SNA	
2203-002002	C320	33pF,5%,50V,NPO,BK,1608,-	C-CER,CHIP	1	SNA	
2203-002002	C321	33pF,5%,50V,NPO,BK,1608,-	C-CER,CHIP	1	SNA	
2203-002398	C419	22nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-002398	C420	22nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C109	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C112	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C116	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	

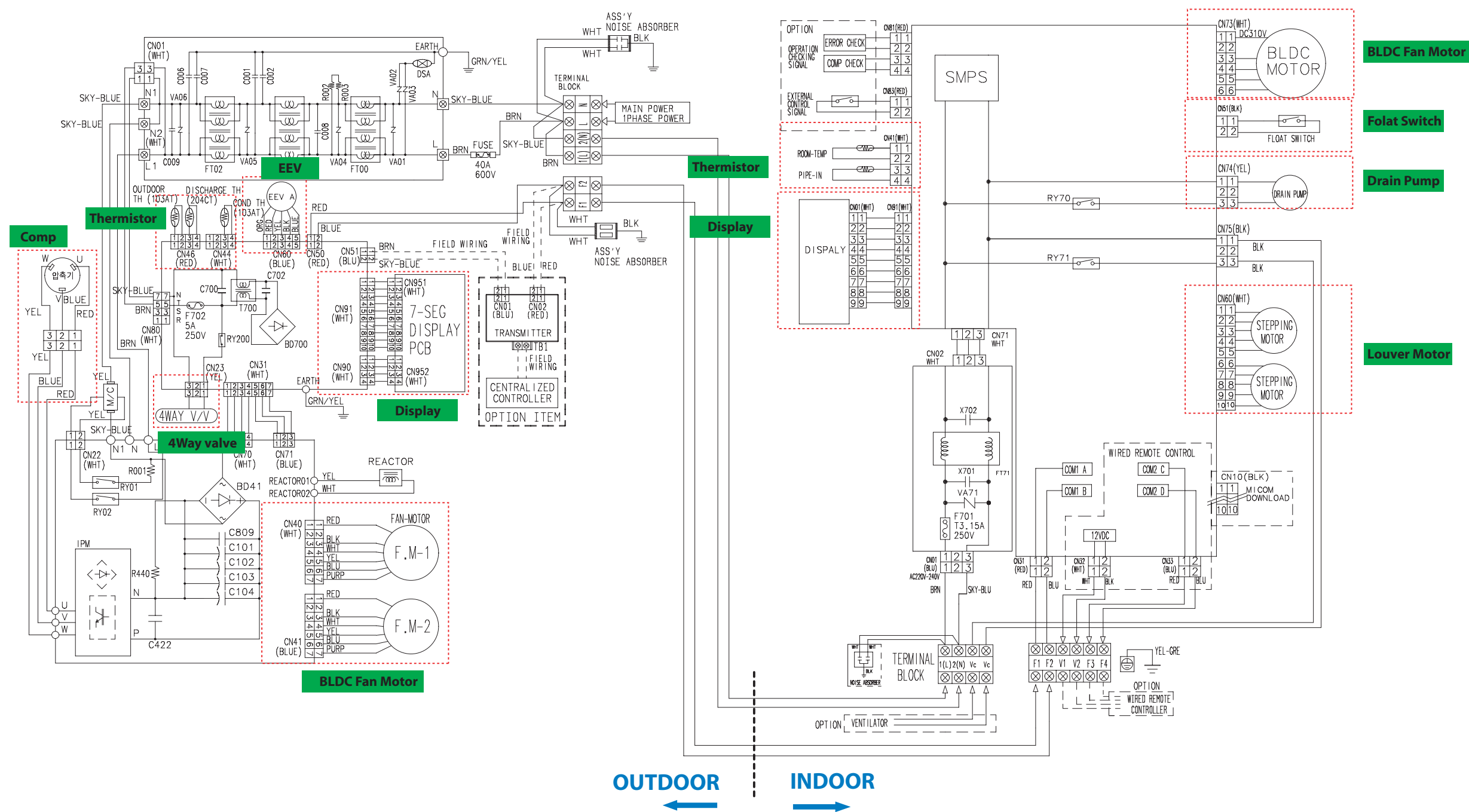
OUTDOOR ASSY MAIN PCB -INVERTER(UH070EAV1 :DB93-05839A Cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
2203-005249	C117	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C121	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C202	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C302	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C303	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C304	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C305	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C306	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C404	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C405	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C406	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C407	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C408	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C409	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C410	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C417	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C418	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C501	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C502	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C503	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C504	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C505	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C506	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C507	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C508	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C509	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C510	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C511	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C512	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C513	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C553	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C554	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C555	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C556	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C560	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C561	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C563	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C565	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C568	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C570	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C575	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C576	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005249	C706	100nF,10%,50V,X7R,1608	C-CER,CHIP	1	SNA	
2203-005261	C113	1000nF,10%,25V,X7R,3216	C-CER,CHIP	1	SNA	
2203-005261	C122	1000nF,10%,25V,X7R,3216	C-CER,CHIP	1	SNA	
2203-005261	C802	1000nF,10%,25V,X7R,3216	C-CER,CHIP	1	SNA	
2203-006104	C904	1000nF,10%,50V,X7R,3225	C-CER,CHIP	1	SNA	
2301-000141	C008	10nF,10%,630V,TP,16x11x7.5mm,5	C-FILM,LEAD-PEF	1	SNA	
2306-000123	C422	100nF,5%,630V,BK,26x16.5x8.5,2	C-FILM,LEAD-PPF	1	SNA	
2306-000123	C803	100nF,5%,630V,BK,26x16.5x8.5,2	C-FILM,LEAD-PPF	1	SNA	
2401-000303	C123	100uF,20%,25V,WT,TP,6.3x11mm,5mm	C-AL	1	SNA	
2401-000470	C104	10uF,20%,450V,GP,TP,13x20mm,5m	C-AL	1	SNA	
2401-000480	C552	10uF,20%,50V,GP,TP,5x11,5	C-AL	1	SNA	
2401-000480	C559	10uF,20%,50V,GP,TP,5x11,5	C-AL	1	SNA	
2401-000480	C562	10uF,20%,50V,GP,TP,5x11,5	C-AL	1	SNA	
2401-000480	C564	10uF,20%,50V,GP,TP,5x11,5	C-AL	1	SNA	
2401-000480	C569	10uF,20%,50V,GP,TP,5x11,5	C-AL	1	SNA	
2401-000480	C574	10uF,20%,50V,GP,TP,5x11,5	C-AL	1	SNA	
2401-000480	C577	10uF,20%,50V,GP,TP,5x11,5	C-AL	1	SNA	
2401-000480	C906	10uF,20%,50V,GP,TP,5x11,5	C-AL	1	SNA	
2401-000832	C110	220uF,20%,25V,GP,TP,8x11.5,5	C-AL	1	SNA	
2401-000832	C805	220uF,20%,25V,GP,TP,8x11.5,5	C-AL	1	SNA	
2401-001552	C107	47uF,20%,35V,GP,TP,6.3x11,2.5	C-AL	1	SNA	
2401-002274	C114	220uF,20%,35V,WT,TP,10x12.5,5	C-AL	1	SNA	
2401-002274	C119	220uF,20%,35V,WT,TP,10x12.5,5	C-AL	1	SNA	
2401-002274	C421	220uF,20%,35V,WT,TP,10x12.5,5	C-AL	1	SNA	
2401-002300	C118	47?F,20%,50V,GP,TP,6.3x11,5mm	C-AL	1	SNA	
2401-002300	C401	47?F,20%,50V,GP,TP,6.3x11,5mm	C-AL	1	SNA	
2401-002300	C402	47?F,20%,50V,GP,TP,6.3x11,5mm	C-AL	1	SNA	

OUTDOOR ASSY MAIN PCB -INVERTER(UH070EAV1 :DB93-05839A Cont.)

Location No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
2401-002300	C403	477F,20%,50V,GP,TP,6.3x11,5mm	C-AL	1	SNA	
2401-002598	C905	220uF,20%,50V,GP,TP,10x16,5	C-AL	1	SNA	
2401-003740	C101	560uF,20%,400V,WT,BK,35x50mm,10	C-AL	1	SNA	
2401-003740	C102	560uF,20%,400V,WT,BK,35x50mm,10	C-AL	1	SNA	
2401-003740	C103	560uF,20%,400V,WT,BK,35x50mm,10	C-AL	1	SNA	
2802-001179	XTAL51	4MHZ,0.5%,BK,8X3X5.5MM	RESONATOR-CERAMIC	1	SNA	
2802-001198	XTAL	10MHZ,0.5%,BK,8X3X5.5MM	RESONATOR-CERAMIC	1	SNA	
3501-001154	RY05	12Vdc,200mW,3000mA,1FormA,10mS,10mS	RELAY-MINIATURE	1	SNA	
3501-001248	RY31	12V,-,11.7MA,DPDT,4MS,4MS	RELAY-MINIATURE	1	SNA	
3501-001268	RY01	12V,0.9W,25000mA,SPST,20mS,10mS	RELAY-POWER	1	SNA	
3711-000176	CN01	1WALL,2P,1R,3.96mm,STRAIGHT,SN,BLU	HEADER-BOARD TO CABLE	1	SNA	
3711-003843	CN00	BOX,8P,1R,2mm,STRAIGHT,SN,WHT	HEADER-BOARD TO CABLE	1	SNA	
3711-003843	CN15	BOX,8P,1R,2mm,STRAIGHT,SN,WHT	HEADER-BOARD TO CABLE	1	SNA	
3711-004019	CN71	1WALL,6P,1R,3.96mm,ANGLE,SN,WHT	CONNECTOR-HEADER	1	SNA	
3711-004182	CN21	BOX,10P,1R,2MM,STRAIGHT,SN,NTR	HEADER-BOARD TO CABLE	1	SNA	
3711-004182	CN34	BOX,10P,1R,2MM,STRAIGHT,SN,NTR	HEADER-BOARD TO CABLE	1	SNA	
3711-004379	CN20	BOX,4P,1R,2mm,STRAIGHT,SN,NTR	HEADER-BOARD TO CABLE	1	SNA	
3711-004484	CN29	BOX,5P,1R,2mm,STRAIGHT,SN,NTR	HEADER-BOARD TO CABLE	1	SNA	
3712-001139	REACTOR01	TAB,MALE,-,6.35X0.8MM	CONNECTOR-TERMINAL	1	SNA	
3712-001139	REACTOR02	TAB,MALE,-,6.35X0.8MM	CONNECTOR-TERMINAL	1	SNA	
DB13-00003A	Q901	-,SOT-23,-,1P,1P,0.2mm,2.93x1.3mm	IC DRIVER GATE	1	SNA	
DB26-00075A	PT02	PT-50,AQV18FA,-,90~275V,FERRITE,-,EI2218,50/60HZ,UL,0.7mH,-,15V,12V,7.8V,-	TRANS SWITCHING	1	SNA	
DB32-00173A	IC451	ACS712,5HP INVERTER,-,40~150,-,30A,8V,Sinusoidal	SENSOR MAG-CT SENSOR	1	SNA	
DB32-00173A	IC452	ACS712,5HP INVERTER,-,40~150,-,30A,8V,Sinusoidal	SENSOR MAG-CT SENSOR	1	SNA	
DB32-00173A	IC453	ACS712,5HP INVERTER,-,40~150,-,30A,8V,Sinusoidal	SENSOR MAG-CT SENSOR	1	SNA	
DB41-00627A	PCB	MONTBLANC2,FR4,2,1.0,T1.6,220*180,Q,1,-,-	PCB MAIN-OUTDOOR	1	SNA	
DB91-00532B	IC01	Galaxy1 OUTDOOR Inv Micom,STM-0870-BA, MN1035FA7K,80P, ROM Size: 256K bytes	ASSY-MIC	1	SNA	
DB09-00517A	IC01	MN103FA7K,-,80P,+5V,10 MHz,Flash Memory, ROM Size: 256K bytes,32 Bit,32 Bit,QFP,QFP,14 * 14 mm,32 Bit,-40~+85	IC MICOM	1	SNA	
DB91-00564A	IC701	UH070EAV1,93LC66, SSEC	ASSY-EEPROM	1	SNA	
1103-001038	IC701	93LC66,4KBIT,256X16BIT,SOP,8P,5X4MM,-,2.5/5.5V,-,40TO+85C,1UA,TP	IC-EEPROM	1	SNA	
DB91-00583B	IC50	GAUDI INVETER OUT MAIN MICOM,STM-0761-BS, MB90F823 ,80QFP, ROM 128K bytes	ASSY-MIC	1	SNA	
DB09-00338A	IC50	MB90F823,-,80 P,5 V,24 MHz,Flash Memory,-,24,16,QFP,QFP,14 * 20 mm,16,-40 ~ 85	IC MICOM	1	SNA	
DB93-04344A		AQV24JAKCV,24K	ASSY CONNECTOR WIRE-EARTH	1	SNA	
DB93-04349A		AQV12JAKCV,12K_Out	ASSY CONNECTOR WIRE-4WAY	1	SNA	
DB93-04351A		AQV24JAKCV,Out_24K	ASSY LEAD WIRE-POWER	1	SNA	
DB93-04351B		AQV24JAKCV,Out_24K	ASSY LEAD WIRE-POWER	1	SNA	
DB93-06441A		GAUDI PJT,SSEC,UL1015,AWG12,380/390/400±5,WHT,MG620044	ASSY CONNECTOR WIRE-COMP	1	SNA	
DB93-06442A		GAUDI PJT,SSEC,UL1015,AWG22,300±10,BLU,ST730620-3,YH396-02VR	ASSY CONNECTOR WIRE-COMM	1	SNA	
DB95-00595A	IC81	MH080FXEA4,-	ASSY-PHOTO COUPLER	1	SNA	
DB95-00954A	IPM	MH080EAV2A,MITSUBISHI IPM	ASSY-IPM	1	SNA	
DB98-16591A	D101	-	ASSY-DIODE RECTIFIER	1	SNA	
DB98-16600A	LED2	-	ASSY-LED GREEN	1	SNA	
DB98-16601A	LED1	-	ASSY-LED RED	1	SNA	
DB98-16602A	LED3	-	ASSY-LED YEL	1	SNA	
DB98-22298A	CN51	INVERTER,SMAW250A-O4 RED	ASSY-HOOK RED	1	SNA	
DB98-22299A	CN50	inverter,SMAW250A-O4 WHT	ASSY-HOOK WHT	1	SNA	
DB98-24921A	CN30	UH035EAV,SMAW250A-O6 WHT	ASSY-HOOK WHT	1	SNA	

7. Wiring Diagram

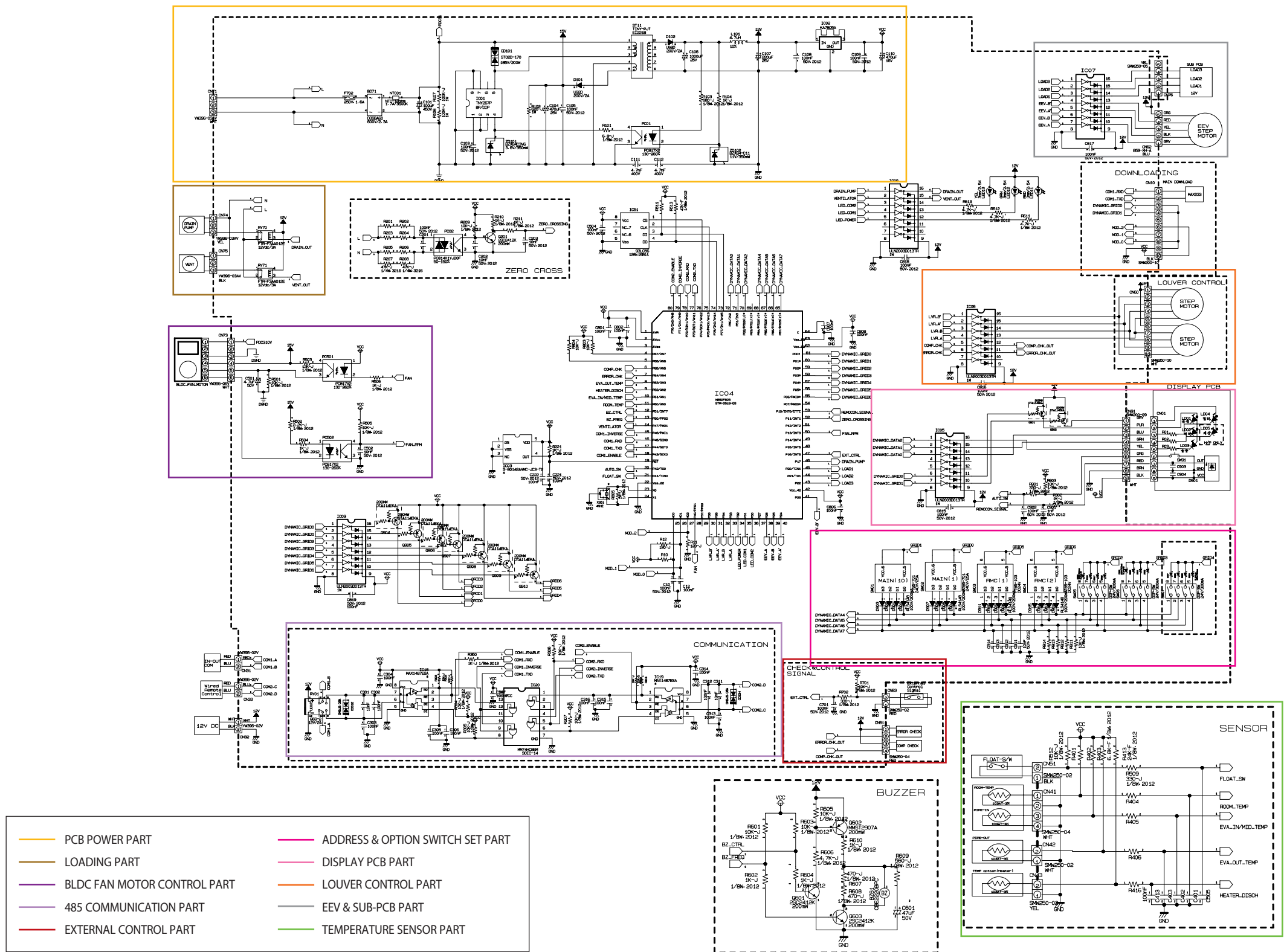


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8. Schematic Diagram

8. PCB Diagram Description

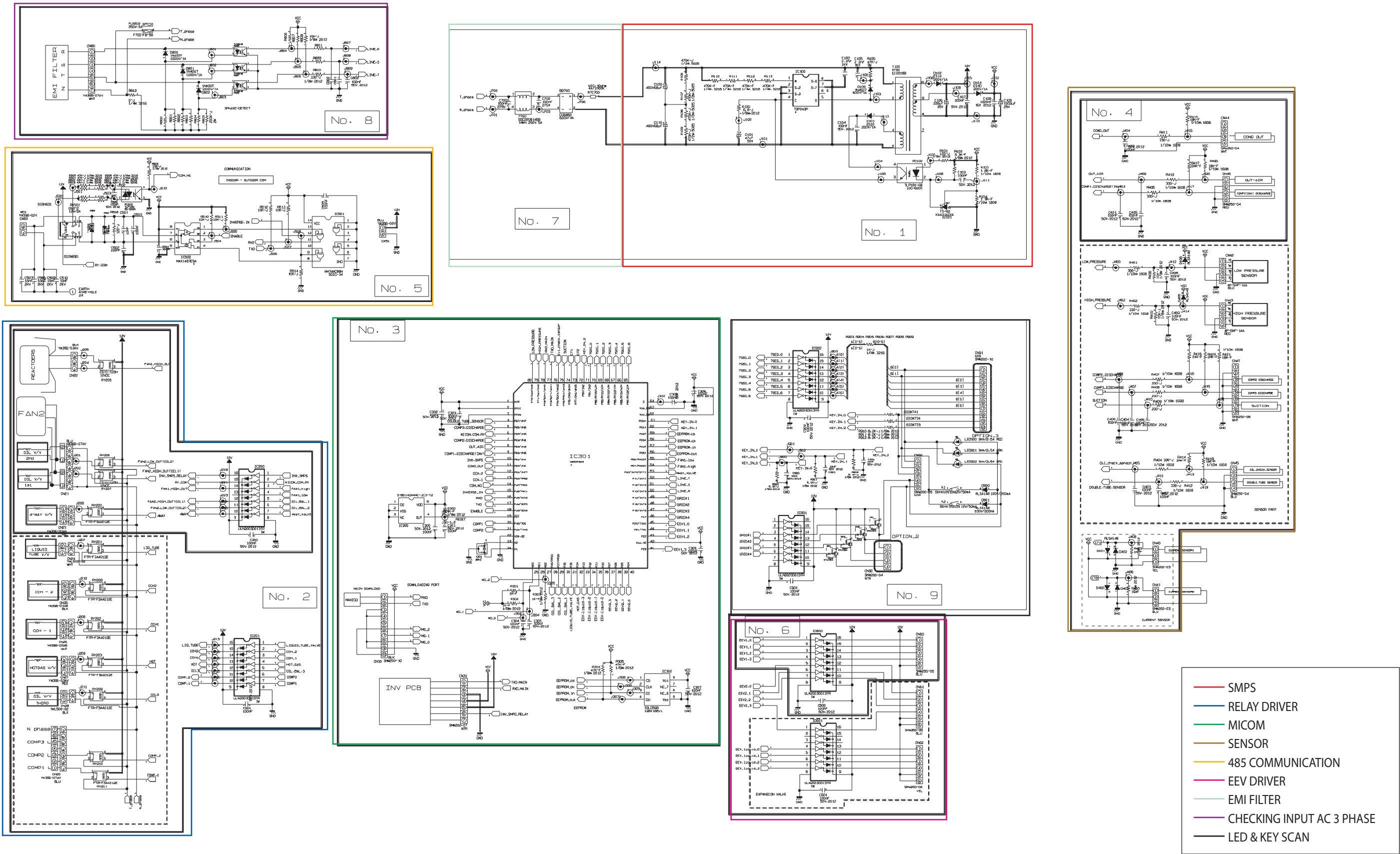
8-1 Indoor Unit



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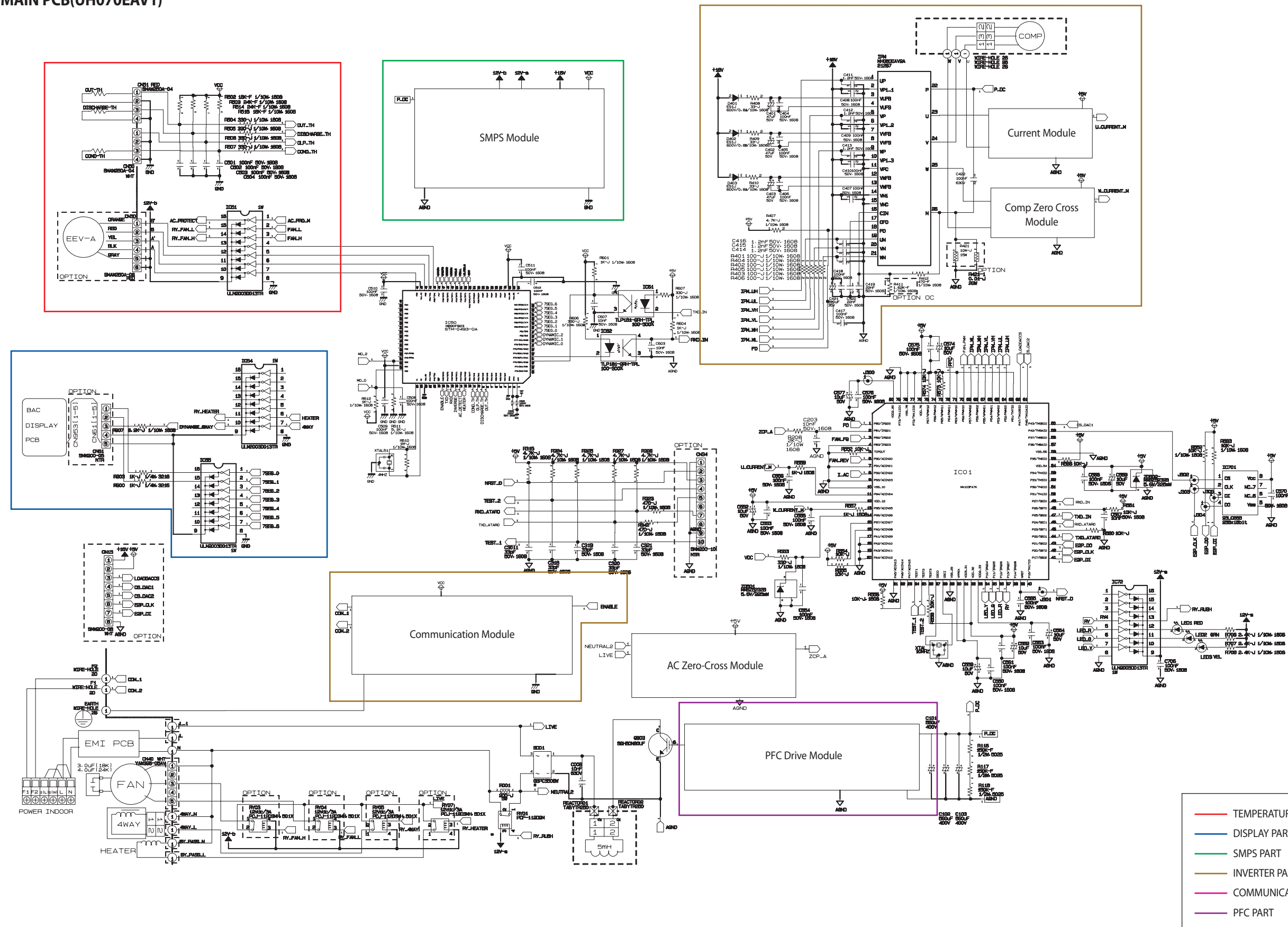
8-2 Outdoor Unit

■ MAIN PCB(UH090/105/140EAV)



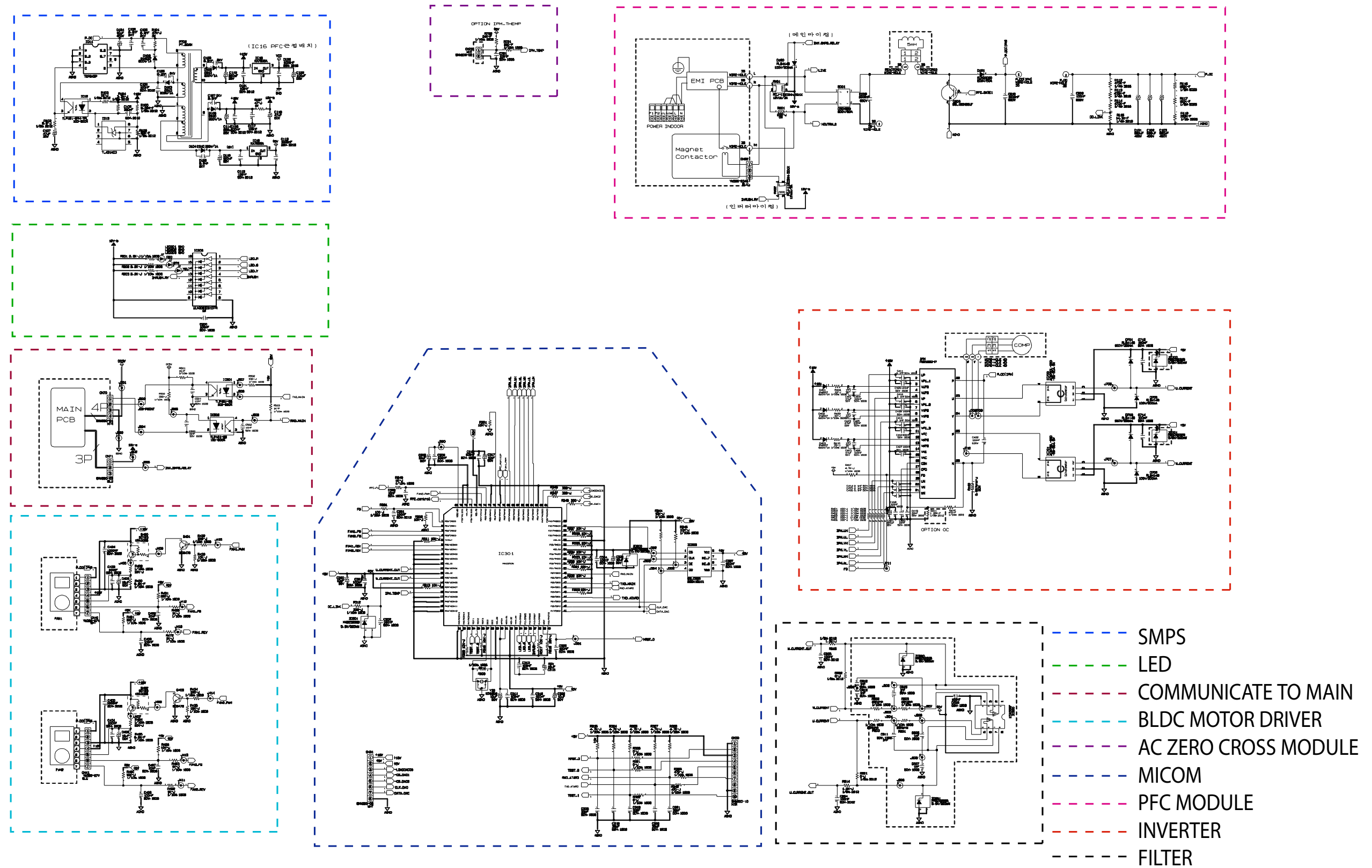
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■ MAIN PCB(UH070EAV1)



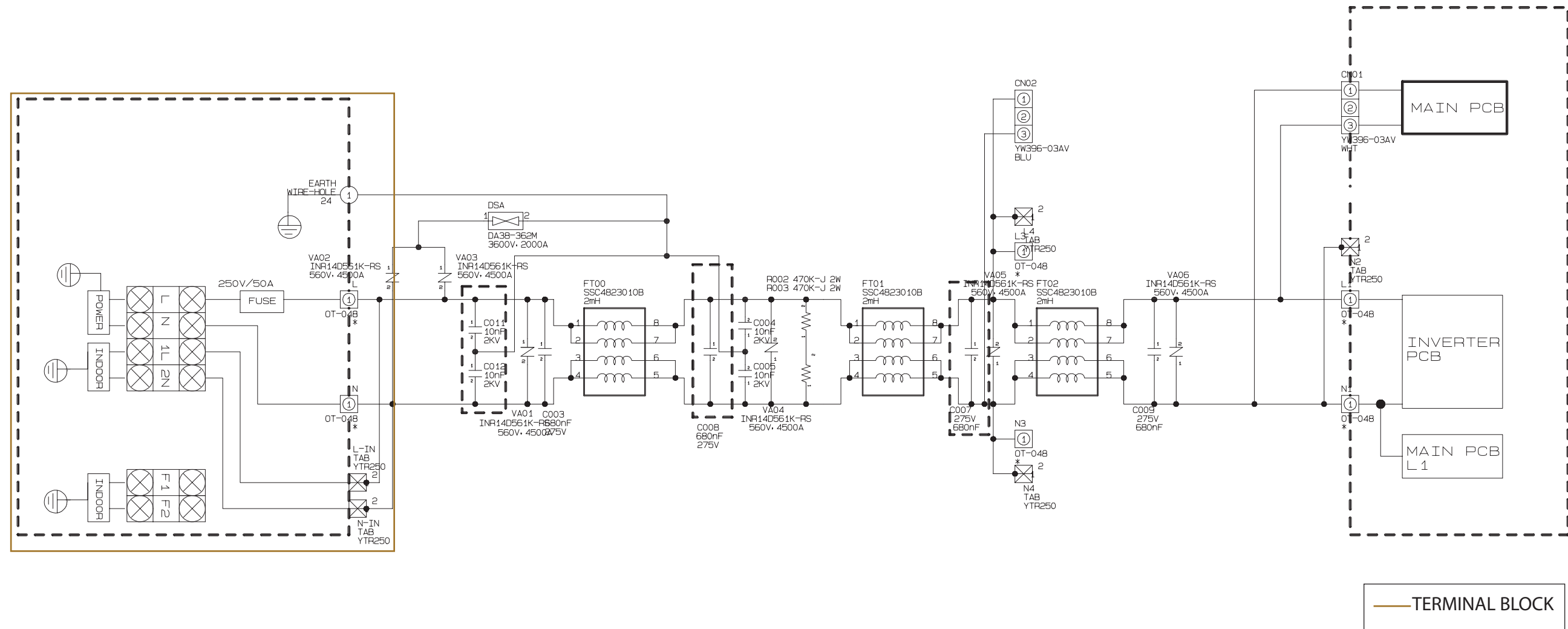
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INVERTER PCB



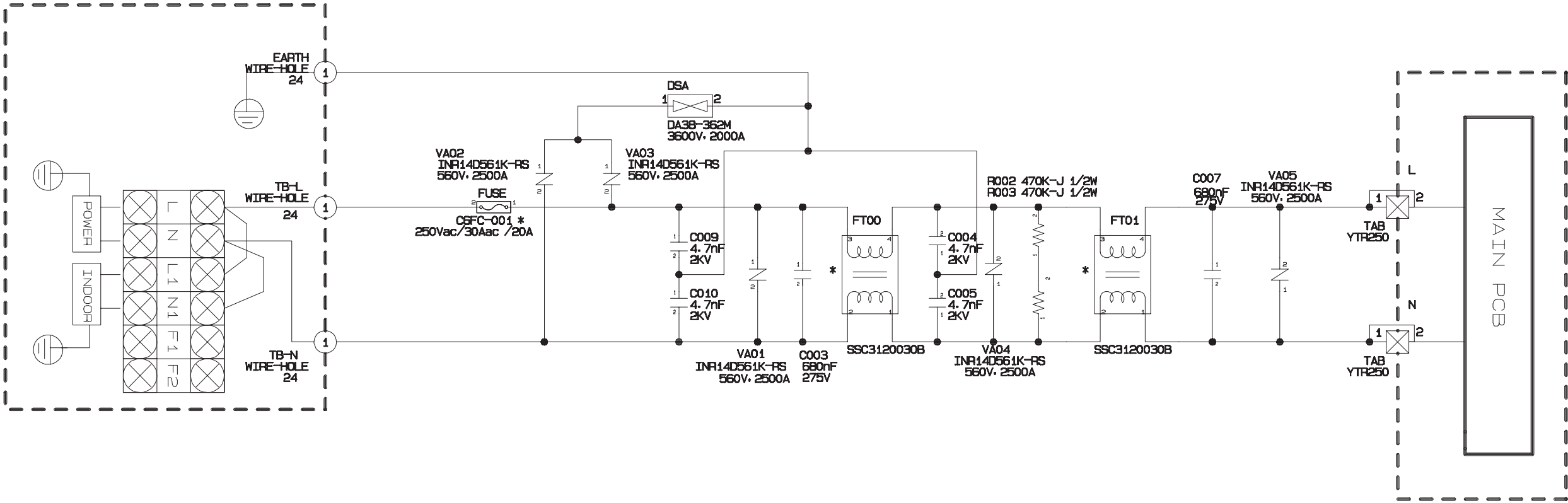
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■ EMI PCB(UH090/105/140EAV)



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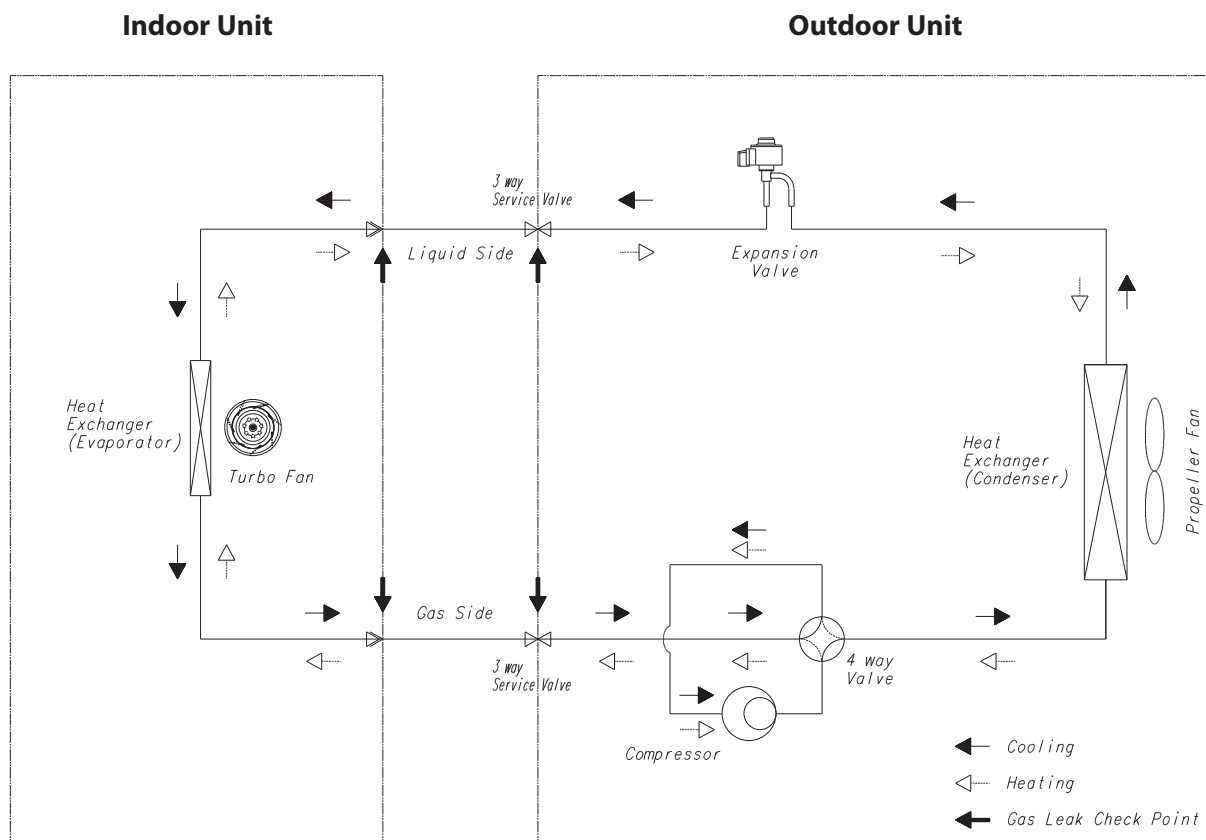
■ EMI PCB(UH070EAV1)



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9. Preference Sheet

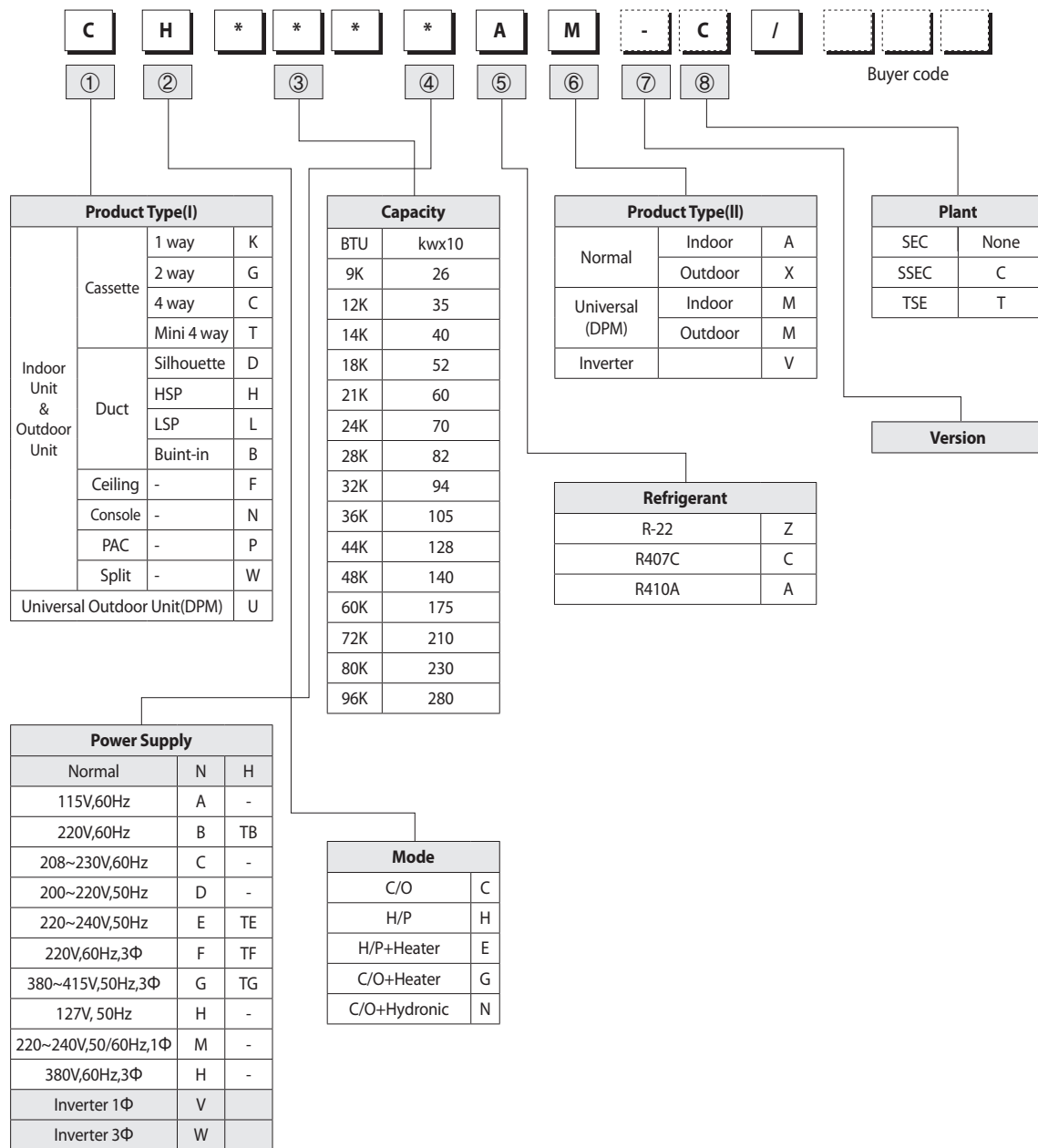
9-1 Refrigerating Cycle Diagram



9-2 Index of Model Name

■ Project model code for New Built-in Product.

Model Code



SAMSUNG

SYSTEM AIR CONDITIONER

Basic : CH140EAV/UH140GAV

Model : CH070EAV1/CH090/105/140EAV

UH070EAV1/UH090/105/140EAV

Model Code : CH070EAV1/CH090/105/140EAV

UH070EAV1/UH090/105/140EAV

SERVICE Manual

AIR CONDITIONER



CH070EAV1/CH090/105/140EAV



UH070EAV1



UH090/105/140EAV

THE FEATURE OF PRODUCT

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

Refer to the service manual in the GSPN(see the rear cover) for the more information.

**GSPN(Global Service Partner Network)**

Area	Web Site
North America	http://service.samsungportal.com
Latin America	http://latin.samsungportal.com
CIS	http://cis.samsungportal.com
Europe	http://europe.samsungportal.com
China	http://china.samsungportal.com
Asia	http://asia.samsungportal.com
Mideast & Africa	http://mea.samsungportal.com

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