

# **SAMSUNG**

## **ELECTRONICS**

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# SAMSUNG

## SPLIT-TYPE AIR CONDITIONER

AR10RYFTAURNSV	AR10RYFTAURXSV
AR10RYFTAWKNSV	AR10RYFTAWKXSV
AR13RYFTAURNSV	AR13RYFTAURXSV
AR13RYFTAWKNSV	AR13RYFTAWKXSV
AR18RYFTAURNSV	AR18RYFTAURXSV
AR24RYFTAURNSV	AR24RYFTAURXSV

## SERVICE

## MANUAL

### AIR CONDITIONER



AR10RYFTAURNSV  
AR10RYFTAWKNSV  
AR13RYFTAURNSV  
AR13RYFTAWKNSV  
AR18RYFTAURNSV  
AR24RYFTAURNSV



AR10RYFTAURXSV  
AR10RYFTAWKXSV  
AR13RYFTAURXSV  
AR13RYFTAWKXSV



AR18RYFTAURXSV



AR24RYFTAURXSV

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# 1. Precautions

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## 1-1 Precautions for the Service

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- **Use the standard parts when replacing the electric parts.**
  - Confirm the model name, rated voltage current of the electric parts.
- **Repair the disconnection of HARNESS securely when repairing the break down.**
  - If there is any connection error, it causes an abnormal noise and incorrect operation
- **In case that you assemble or disassemble the products with laying it on the side, do work on the workcloth.**
  - If not, the exterior of products can be scratched.
- **Remove dust and foreign materials from harness, connection part, and inspection part thoroughly when repairing the break down**
  - It protects the danger of re such as tracking and short.
- **Tighten tightly the service valve of outdoor unit and the cap of charging valve with a monkey spanner.**
- **Check the assembly status of parts after repairing the break down.**
  - It should be same as the status before repairing.

## 1-2 Precautions for the Static Electricity and PL

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- **As the PCB power terminal has a weakness for the static electricity, pay attention to it during the repair and measurement.**
  - Work with insulation gloves during the repair and measurement of PCB.
- **Check the distance between the product and the other electronic appliances such as TV, Video, and audio. It should be over 2m.**
  - If not, it causes a bad picture quality or a noise.
- **Repairing the products by consumer should be strictly prohibited.**
  - There is a danger of electric shock or re due to incorrect disassembly.

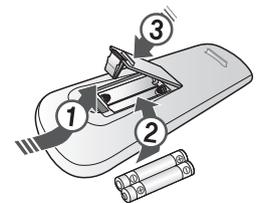
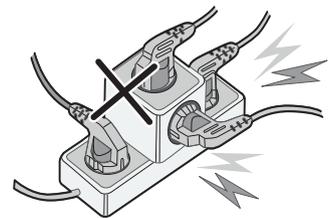


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## 1-3 Disposing of the unit

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- **Do not pull any electric wires and do not touch an auxiliary power switch with a wet hand.**
  - There is a danger of electric shock or e.
- **In case any wire or power plug has been damaged, replace it to eliminate any possible danger. Do not bend the power cord by force and do not put any heavy object on the power cord.**
  - There is a danger of electric shock or e.
- **Do not use multi socket.**
  - There is a danger of electric shock or e.
- **Ground the product if necessary.**
  - Be sure to ground the product if there is any danger of electric leakage due to water or moisture.
- **Be sure to turn off the auxiliary power switch or pull out the power plug during replacement or repair of electric parts.**
  - There is a danger of electric shock.
- **In case the product will not be in use for a long time, the battery of remote control should be kept separately.**
  - Leakage of inside liquid can cause break down of remote control.



## 2. Product Specifications

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### 2-1 The Feature of Product

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- **2 step cooling**
  - 2-step cooling function will quickly cool the room to reach the set temperature and then it will adjust the fan speed and air flow direction automatically to help you stay comfortable and refreshing.
- **Fast cooling**
  - If you want the strong and cool air, just select Fast function! It will get you the strongest air!
- **Comfort cooling**
  - If you want the comfortable and refreshing air, Comfort function will spread the cool air indirectly to you, so that you can stay comfortable.
- **Single User**
  - Use Single User function when you are alone at home. This function will set the temperature range limit to help you save energy while the air conditioner is operating in Cool mode.
- **Good'sleepfunction**
  - good'sleep function will allow you to have deep, good night's sleep by adjusting the temperature, fan speed and air flow direction

## 2-2 Product Specifications

Model			AR10RYFTAUR/SV	AR10RYFTAWK/SV
Rating	Mode	Unit	Wall-mounted	Wall-mounted
Capacity	T1 Cool	Btu/h	9400	9400
	T3 Cool	Btu/h	-	-
	Heat	Btu/h	-	-
Power Input	T1 Cool	W	915	915
	T3 Cool	W	-	-
	Heat	W	-	-
Current	T1 Cool	A	4.5	4.5
	T3 Cool	A	-	-
	Heat	A	-	-
Efficiency	T1 Cool	Btu/h/W	3.01	3.01
	T3 Cool	W/W	-	-
	Heat	Btu/h/W	-	-
Dehumidifying		l/hr.	0.8	0.8
Platform	IDU	-	BORACAY 1	BORACAY 1
	ODU	-	N-V2MD	N-V2MD
Evap	Main	-	Φ7, 2R*10S*605mm, H1.3, N.G.S, 2by2	Φ7, 2R*10S*605mm, H1.3, N.G.S, 2by2
	Sub	-	Φ7, 2R*4S*575mm, H1.3, N.G.S : (4 <sup>2</sup> -1-6)	Φ7, 2R*4S*575mm, H1.3, N.G.S : (4 <sup>2</sup> -1-6)
Cond	Main	-	N-V2MD N-PFC FP1.2	N-V2MD N-PFC FP1.2
	Sub	-	-	-
Comp	Model	-	UB9AK1090FJR	UB9AK1090FJR
	OLP	-	-	-
Motor In	Code	-	DB31-00679A	DB31-00679A
	Name	-	RPG15C-1(AL)	RPG15C-1(AL)
Motor Out	Code	-	DB31-00426C	DB31-00426C
	Name	-	Y5S613B826GL / Y5S613B860GL(Y5S613B826GL) / YDK30-6C-4(AL)	Y5S613B826GL / Y5S613B860GL(Y5S613B826GL) / YDK30-6C-4(AL)
Expansion	EEV	-	1.3*1000 ☉	1.3*1000 ☉
Refrigerant	type	-	R32	R32
	charge	g	480	480
SVC Valve	Liquid / Gas	-	6.35/9.52	6.35/9.52
Tube	Dis. / Suc.	-	7.94/9.52	7.94/9.52
4-WAY V/V		-	-	-
Power Supply		V/Hz/Φ	220-240/50/1	220-240/50/1
Climate Class		-	T1	T1
Noise	IDU UT,T	dB	43	43
	ODU	dB	54	54
Net Size (W*H*D)	IDU	mm	820*285*213	820*285*213
	ODU	mm	660*475*242	660*475*242
Weight	IDU	kg	8.2	8.2
	ODU	kg	20.2	20.2
Operation range	Cooling	IDU	16 °C~32 °C	16 °C~32 °C
		ODU	16 °C~ 46 °C	16 °C~ 46 °C
	Heating	IDU		
		ODU		

Model			AR13RYFTAUR/SV	AR13RYFTAWK/SV
Rating	Mode	Unit	Wall-mounted	Wall-mounted
Capacity	T1 Cool	Btu/h	12000	12000
	T3 Cool	Btu/h	-	-
	Heat	Btu/h	-	-
Power Input	T1 Cool	W	1250	1250
	T3 Cool	W	-	-
	Heat	W	-	-
Current	T1 Cool	A	6.0	6.0
	T3 Cool	A	-	-
	Heat	A	-	-
Efficiency	T1 Cool	Btu/h/W	2.81	2.81
	T3 Cool	W/W	-	-
	Heat	Btu/h/W	-	-
Dehumidifying		l/hr.	0.8	0.8
Platform	IDU	-	BORACAY 1	BORACAY 1
	ODU	-	N-V2MD	N-V2MD
Evap	Main	-	Φ7, 2R*10S*605mm, H1.3, N.G.S, 2by2	Φ7, 2R*10S*605mm, H1.3, N.G.S, 2by2
	Sub	-	Φ7, 2R*4S*575mm, H1.3, N.G.S : (4 <sup>2</sup> -1-6)	Φ7, 2R*4S*575mm, H1.3, N.G.S : (4 <sup>2</sup> -1-6)
Cond	Main	-	N-V2MD N-PFC FP1.2	N-V2MD N-PFC FP1.2
	Sub	-	-	-
Comp	Model	-	UB9AK1090FJR	UB9AK1090FJR
	OLP	-	-	-
Motor In	Code	-	DB31-00679A	DB31-00679A
	Name	-	RPG15C-1(AL)	RPG15C-1(AL)
Motor Out	Code	-	DB31-00426C	DB31-00426C
	Name	-	Y5S613B826GL / Y5S613B860GL(Y5S613B826GL) / YDK30-6C-4(AL)	Y5S613B826GL / Y5S613B860GL(Y5S613B826GL) / YDK30-6C-4(AL)
Expansion	EEV	-	1.3*1000 ©	1.3*1000 ©
Refrigerant	type	-	R32	R32
	charge	g	480	480
SVC Valve	Liquid / Gas	-	6.35/9.52	6.35/9.52
Tube	Dis. / Suc.	-	7.94/9.52	7.94/9.52
4-WAY V/V		-	-	-
Power Supply		V/Hz/Φ	220-240/50/1	220-240/50/1
Climate Class		-	T1	T1
Noise	IDU UT,T	dB	43	43
	ODU	dB	54	54
Net Size (W*H*D)	IDU	mm	890*285*213	890*285*213
	ODU	mm	660*475*242	660*475*242
Weight	IDU	kg	8.8	8.8
	ODU	kg	20.3	20.3
Operation range	Cooling	IDU	16 °C~32 °C	16 °C~32 °C
		ODU	16 °C~46 °C	16 °C~46 °C
	Heating	IDU		
		ODU		

Model			AR18RYFTAUR/SV	AR24RYFTAUR/SV
Rating	Mode	Unit	Wall-mounted	Wall-mounted
Capacity	T1 Cool	Btu/h	18000	21500
	T3 Cool	Btu/h	-	-
	Heat	Btu/h	-	-
Power Input	T1 Cool	W	1600	1740
	T3 Cool	W	-	-
	Heat	W	-	-
Current	T1 Cool	A	7.5	7.9
	T3 Cool	A	-	-
	Heat	A	-	-
Efficiency	T1 Cool	Btu/h/W	3.30	3.62
	T3 Cool	W/W	-	-
	Heat	Btu/h/W	-	-
Dehumidifying		l/hr.	0.8	0.8
Platform	IDU	-	BORACAY 3	BORACAY 3
	ODU	-	N-SI	Q-480
Evap	Main	-	Φ7, 2R*10S*850mm, H1.3, N.G.S, 5by5	Φ7, 2R*10S*850mm, H1.3, N.G.S, 5by5
	Sub	-	Φ7, 2R*5(6)S*830mm, H1.3, N.G.S : (4 <sup>2</sup> -3-3)	Φ7, 2R*5(6)S*830mm, H1.3, N.G.S : (4 <sup>2</sup> -3-4)
Cond	Main	-	N-SI PFC FP1.4	Q-480 PFC FP1.4
	Sub	-	-	-
Comp	Model	-	UB9TK3150FE4	UB9TK3150FE4
	OLP	-	-	-
Motor In	Code	-	DB31-00609A	DB31-00609A
	Name	-	SIC-41CVJ-F127-1 / RD-310-25-8U	SIC-41CVJ-F127-1 / RD-310-25-8U
Motor Out	Code	-	DB31-00634B	DB31-00642D
	Name	-	YDK42-6-1(AL) / YGN40-6A / Y5S613C832FL	ZKFP-45-8-102-2 / SIC-67FV-F139-5 / YMAP040BF02A1
Expansion	EEV	-	1.5*600 ☉	EEV Φ1.4
Refrigerant	type	-	R32	R32
	charge	g	730	800
SVC Valve	Liquid / Gas	-	6.35/12.7	6.35/15.88
Tube	Dis. / Suc.	-	7.94/15.88	9.52/12.7
4-WAY V/V		-	-	-
Power Supply		V/Hz/Φ	220-240/50/1	220-240/50/1
Climate Class		-	T1	T1
Noise	IDU UT,T	dB	46	51
	ODU	dB	58	60
Net Size (W*H*D)	IDU	mm	1065*298*225	1065*298*225
	ODU	mm	790*548*285	880*638*310
Weight	IDU	kg	11.4	11.4
	ODU	kg	29.7	34.8
Operation range	Cooling	IDU	16 °C~32 °C	16 °C~32 °C
		ODU	16 °C~46 °C	16 °C~46 °C
	Heating	IDU		
		ODU		

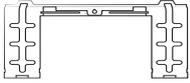
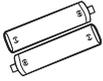
## 2-3 The Comparative Specifications Product

Model		DEVELOPMENT MODEL	DEVELOPMENT MODEL
		AR10RYFTAUR/SV	AR10RYFTAWK/SV
Design	Indoor Unit		
	Outdoor Unit		
Net Weight	Indoor Unit	8.2	8.2
	Outdoor Unit	20.2	20.2
Net Dimension	Indoor Unit	820*285*213	820*285*213
	Outdoor Unit	660*475*242	660*475*242
Noise	Indoor Unit	43	43
	Outdoor Unit	54	54
Air Purifying System		3 Care Filter	3 Care Filter
Indoor Display		3LED	3LED

Model		DEVELOPMENT MODEL	DEVELOPMENT MODEL
		AR13RYFTAUR/SV	AR13RYFTAWK/SV
Design	Indoor Unit		
	Outdoor Unit		
Net Weight	Indoor Unit	8.8	8.8
	Outdoor Unit	20.3	20.3
Net Dimension	Indoor Unit	890*285*213	890*285*213
	Outdoor Unit	660*475*242	660*475*242
Noise	Indoor Unit	43	43
	Outdoor Unit	54	54
Air Purifying System		3 Care Filter	3 Care Filter
Indoor Display		3LED	3LED

Model		DEVELOPMENT MODEL	DEVELOPMENT MODEL
		AR18RYFTAUR/SV	AR24RYFTAUR/SV
Design	Indoor Unit		
	Outdoor Unit		
Net Weight	Indoor Unit	11.4	11.4
	Outdoor Unit	29.7	34.8
Net Dimension	Indoor Unit	1065*298*225	1065*298*225
	Outdoor Unit	790*548*285	880*638*310
Noise	Indoor Unit	46	51
	Outdoor Unit	58	60
Air Purifying System		3 Care Filter	3 Care Filter
Indoor Display		3LED	3LED

## 2-4 Accessory and Option Specifications

Item	Descriptions	Code No.	Q'ty	Remark
	ASSY HANGER	Boracay 1 : DB90-04558A Boracay 3 : DB90-06524A	1	Indoor unit case
	ASSY WIRELESS REMOCON	DB93-15882Q	1	
	Manual Uers Manual Install	DB68-08179A DB68-08180A	1	
	Batteries for Remote controller	4301-000121	2	
	Holder Remocon	DB61-06087A	1	
	M4 x 12 Tapped Screws	6002-000213	2	
	Rubber Leg	DB67-01533A	4	Outdoor unit case

# 3. Alignment and Adjustments

## 3-1 Test Mode

- **How to Approach Test Mode**

You can approach the test mode by pressing the on/off switch of indoor unit for 5 seconds.



- **Test mode operation option**

After installing the air conditioner, check whether each subordinate is normally operated or not by operating the test mode.

- **When an Error occurs, display the Error Mode.**
- **Operation Mode :** Cool mode. operate the cool mode by operating the compressor by force without the compressor ON/OFF according to the set temperature/indoor temperature. (Do not follow the antifreeze control)
- **Up-down louver :** Up-down swing mode
- **Indoor Fan :** Turbo



**Note**

- Because the test mode operates the cool mode by force not related to the set temperature / indoor temperature, check whether each subordinate is operated normally or not after completing installation and must turn off the power of the air conditioner.

## 3-2 Display Error and Check Method

### 3-2-1 Display Error and Check Method

-	LED1	LED2	LED3	DESCRIPTION
	OPERATION	TIMER	OPTION	
E101, E102	○	◐	◐	Communication error (Indoor <-> Outdoor)
E121	○	◐	○	ROOM TH sensor error
E122, E123	◐	◐	○	INDOOR MID, INDOOR IN PIPE-TH sensor error
E154	○	○	◐	Fan error (indoor)
E162	◐	◐	◐	EEPROM error
E163	◐	◐	◐	Option error
FROM E200	◐	○	◐	Outdoor error display
E203	◐	●	●	Time out comm. (Inv Micom <-> Main Micom)
E422/E554	●	○	◐	EEV or Valve Close error-Self diagnosis/Gas Leak Error
E458	●	●	◐	Out door and Fan Error
E461	◐	●	◐	Comp. Starting Error
E464	○	●	◐	IPM Over Current (O.C) Error
E465	◐	●	○	Comp V_limit/I_limit Error
E500				Heatsink overheat or IPM overheat

- : LAMP ON
- : LAMP OFF
- ◐ : LAMP BLINK

#### \*\*Note\*\*

If the Set doesn't work (No power), check the Thermal fuse of Terminal block OPEN or SHORT with Multimeter.

- \* Measure the Thermal fuse housing PIN#1 ~ 2 :  
OPEN(disconnection) -> defective product

### 3-3 Setting Option Setup Method

ex) Option No. :

Note :

SEG1, SEG7, SEG13, SEG19 need not to be pressed in, so in fact the Option No. we should press in is as below.

30 00 07 C2 6C 83 10 00 00 00 20 00 00 00 00 00 10 00 00

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12	SEG13	SEG14	SEG15	SEG16	SEG17	SEG18	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
0	3	0	0	0	0	1	7	C	2	6	C	2	8	3	1	0	0	3	0	0	0	0	0
SEG25	SEG26	SEG27	SEG28	SEG29	SEG30	SEG31	SEG32	SEG33	SEG34	SEG35	SEG36	SEG37	SEG38	SEG39	SEG40	SEG41	SEG42	SEG43	SEG44	SEG45	SEG46	SEG47	SEG48
0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	3	0	0	0	0	0

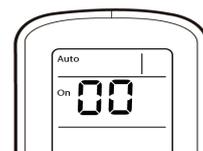
#### Step 1

Enter the Option Setup mode.

1. Tack out the batteries of remote control.

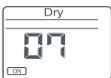
2. Press the temperature  button simultaneously and insert the battery again.

3. Make sure the remote control display shown as 



#### Step 2

Enter the Options Setup mode and select your options according to the following procedure.

	Feature	Display
	<p>1 The default value is  .</p> <p>Every time you push the  button, the display panel reads  Auto → Cool → Dry → Fan → Heat ,  Auto → Cool → Dry → Fan → Heat repeatedly.</p>	
	<p>2 Push the  button to set the display panel to 3 .</p> <p>Every time you push the  button, the display panel reads 0-1-2-3-.....-9-A-b-c-d-E-F repeatedly.</p>	
	<p>3 Push the  button to  .</p> <p>Every time you push the  button, the display panel reads 0-1-2-3-.....-9-A-b-c-d-E-F repeatedly.</p>	
	<p>4 Push the  button to  .</p> <p>Push the  button to set the display panel to 7 .</p> <p>Every time you push the  button, the display panel reads 0-1-2-3-.....-9-A-b-c-d-E-F repeatedly.</p>	
	<p>5 Push the  button to  .</p> <p>Push the  button to set the display panel to C .</p> <p>Every time you push the  button, the display panel reads 0-1-2-3-.....-9-A-b-c-d-E-F repeatedly.</p>	
	<p>6 Push the  button to set the display panel to 2 .</p> <p>Every time you push the  button, the display panel reads 0-1-2-3-.....-9-A-b-c-d-E-F repeatedly.</p>	

	Feature	Display
	<b>7</b> Push the  button to  . Push the  button to set the display panel to <b>6</b> . Every time you push the  button, the display panel reads <b>0-1-2-3-.....-9-A-b-c-d-E-F</b> repeatedly.	
	<b>8</b> Push the  button to set the display panel to <b>8</b> . Every time you push the  button, the display panel reads <b>0-1-2-3-.....-9-A-b-c-d-E-F</b> repeatedly.	
	<b>9</b> Push the  button to  . Push the  button to set the display panel to <b>8</b> . Every time you push the  button, the display panel reads <b>0-1-2-3-.....-9-A-b-c-d-E-F</b> repeatedly.	
	<b>10</b> Push the  button to set the display panel to <b>3</b> . Every time you push the  button, the display panel reads <b>0-1-2-3-.....-9-A-b-c-d-E-F</b> repeatedly.	
	<b>11</b> Push the  button to  . Push the  button to set the display panel to <b>1</b> . Every time you push the  button, the display panel reads <b>0-1-2-3-.....-9-A-b-c-d-E-F</b> repeatedly.	
	<b>12</b> Push the  button to  .	
	<b>13</b> Push the  button to  .	
<b>14</b> Push the  button to  .		

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

Press the Mode  Selection key to set the display part and check the display part.  
 → The display part shows like below when each time you press Mode button.



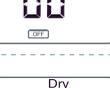
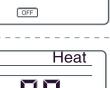
**Step 4** Pressing the ON/OFF button ().

When pressing the operation ON/OFF key with the direction of remote control for the sound "Ding" or "Diring" 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 deriving sound isn't heard, try again pressing the ON/OFF button.)

## Step 5

Enter the Options Setup mode and select your options according to the following procedure.



	Feature	Display
	<p>1 Step 1 (Enter the Option Setup mode) is executed. (Seg25 ~ 48 for setting remote control Setup)</p>	
	<p>2 Push the  Mode button to set the display panel to 2. Every time you push the  button, the display panel reads 0 - 1 - 2 → 3 → ... → 9 - A - b - c - d - E - F repeatedly.</p>	
	<p>3 Push the  button to </p>	
	<p>4 Push the  button to </p>	
	<p>5 Push the  button to </p>	
	<p>6 Push the  button to </p>	
	<p>7 Push the  button to </p>	
	<p>8 Push the  button to </p>	
	<p>9 Push the  button to </p>	
	<p>10 Push the  Mode button to set the display panel to 1. Every time you push the  button, the display panel reads 0 - 1 - 2 → 3 → ... → 9 - A - b - c - d - E - F repeatedly.</p>	
	<p>11 Push the  button to </p>	
	<p>12 Push the  button to </p>	

**Step 6**

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

Press the Mode  Selection key to set the display part and check the display part.  
→ The display part shows like below when each time you press Mode button.

**Step 7**

Pressing the ON/OFF button ().

When pressing the operation ON/OFF key with the direction of remote control for the sound "Ding" or "Diring" 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 deriving sound isn't heard, try again pressing the ON/OFF button.)

**Step 8**

Unit operation test-run.

**First :** Remove the battery from the remote control.

**Second :** Re-insert the battery into the remote control.

**Third :** Press ON/OFF key with the direction of remote control for set.

■ **Error mode**

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

■ **Option Items**

Model	Option code
AR10RYFTAUR/SV	020000-100000-200000-300000
AR10RYFTAWK/SV	020000-100000-200000-300000
AR13RYFTAUR/SV	020000-100000-200000-300000
AR13RYFTAWK/SV	020000-100000-200000-300000
AR18RYFTAUR/SV	020000-100000-200000-300000
AR24RYFTAUR/SV	020000-100000-200001-300000

## 4. Disassembly and Reassembly

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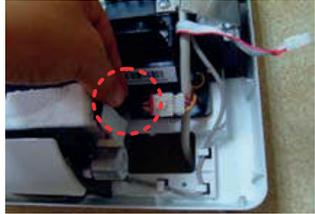
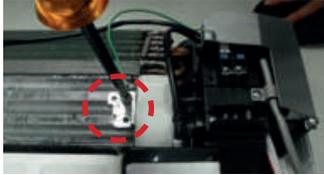
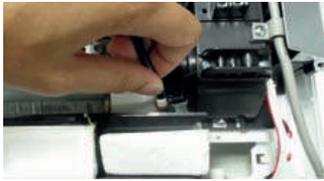
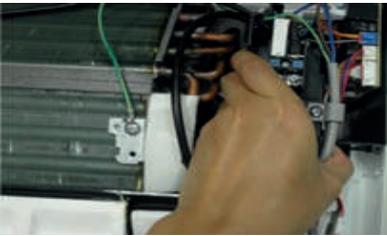
### ■ Necessary Tools

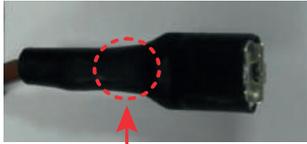
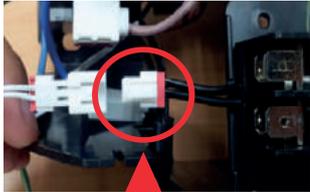
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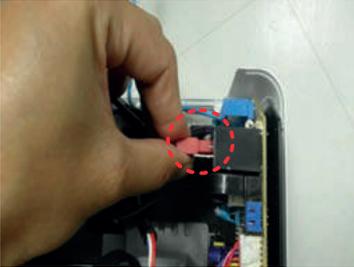
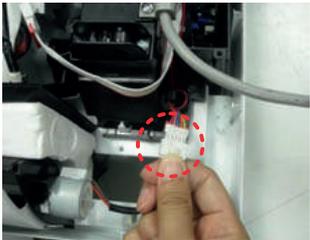
Item	Remark
+SCREW DRIVER Q'ty 1 ea. To assembly and disassembly the screw	
MONKEY SPANNER Q'ty 1 ea. To assembly and disassembly the Fan motor and Compressor	
- SCREW DRIVER Q'ty 1 ea. To assembly and disassembly the screw	

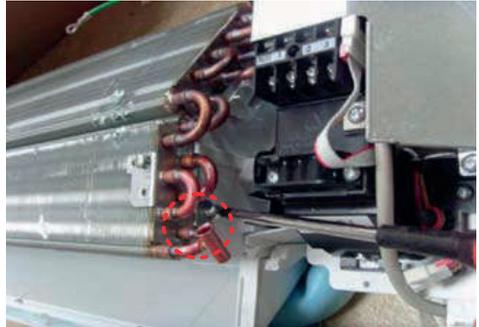
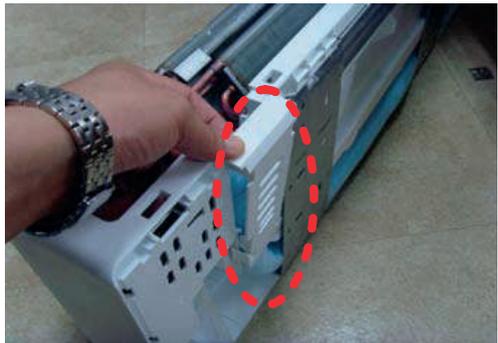
## 4-1. Indoor Unit

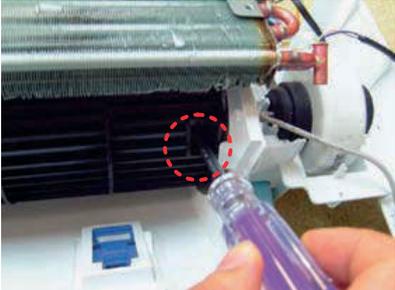
No.	Parts	Procedure	Remark
1	PANEL-FRONT	<p>1) Stop the driving of air conditioner and shut off main power supply.</p> <p>2) Open the FRONT-GRILLE and pull out from the PANEL-FRONT.</p> <p>3) Detach COVER-TERMINAL from the PANELFRONT.(use + Screw Driver)</p> <p>4) Cover Panel is fixed to body by Hook</p>	  
		<p>5) To detach the FRONT-PANEL the main frame,unfasten 2 screw at the button. (use + ScrewDriver).</p>	
		<p>6) Take off the FRONT-PANEL, lifting up the button.</p>	

No.	Parts	Procedure	Remark
2	TRAY DRAN	<p>1) Loosen stepping motor wire and detach the hook of main frame</p> <p>2) To detach TRAY-DRAIN from the main frame pull the bottom of the TRAY - DRAIN towards you.</p>	 
3	CONTROL IN	<p>1) Unfasten the earth screw. (Use + Screw Driver)</p> <p>2) Detach the temperature sensor</p> <p>3) Detach COVER- CONTROL from the CASE-CONTROL</p> <p>4) Take off the CASE-CONTROL from the main fame</p>	   

No.	Parts	Procedure	Remark
4	PBA	1) Unfasten the screw	
		2) Loosen the terminal block wires (Total 2 EA) <b>* Caution</b> <b>The terminal is locking type. So, when you separate terminals pull pressing the button.</b>  <b>Button</b>	
		3) Loosen assy connector wire thermal fuse <b>* Caution</b> <b>The housing is locking type So, when you separate housing, pull pressing the button.</b>  <b>Button</b>	

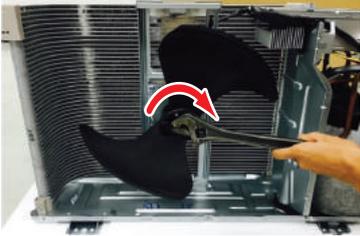
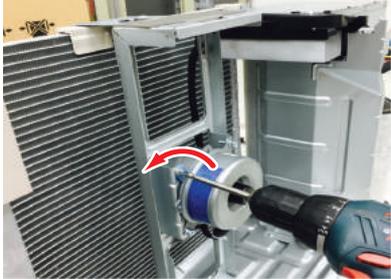
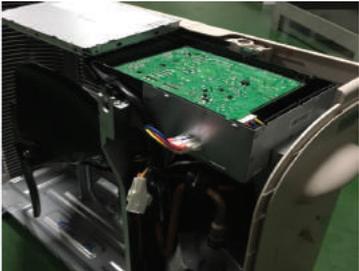
No.	Parts	Procedure	Remark
4	PBA	<p>4) Loosen the Motor Feedback connector (CN44).</p> <p><b>* Caution</b></p> <p>When you separate the connector, pull pressing the locking button.</p> <p>5) Loosen the Relay #4 blue-Connector(RY71).</p> <p><b>* Caution</b></p> <p>The terminal is locking type. So, When you separate terminals, pull pressing the button.</p>  <p><b>Button</b></p>	 
		<p>6) Loosen the Relay #3 redconnector ( RY71)</p> <p><b>* Caution</b></p> <p>The terminal is locking type. So, When you separate terminals, pull pressing the button.</p>  <p><b>Button</b></p>	
		<p>7) Loosen the step motor connector.</p> <p><b>* Caution</b></p> <p>When you separate the connector, pull pressing the locking button.</p>	

No.	Parts	Procedure	Remark
5	EVAPORATOR	1) Unfasten the screw at the right side. (use+ Screw Driver)	
		2) Unfasten the screw at the left side. (use+ Screw Driver)	
		3) Detach the HOLDER PIPE.	
		4) Take off the EVAPORATOR from the main frame.	

No.	Parts	Procedure	Remark
6	FAN MOTOR & CROSS FAN	<p>1) Unfasten the screw in the HOLDEREVAP on the left side of evaporator. (Use + Screw Driver)</p> <p>2) Unfasten the 3 points screw in the (Use + Screw Driver)</p> <p>3) Unfasten the screw a little. (Use + Screw Driver)</p> <p>4) Lift up the evaporator slightly and pull the</p>	   

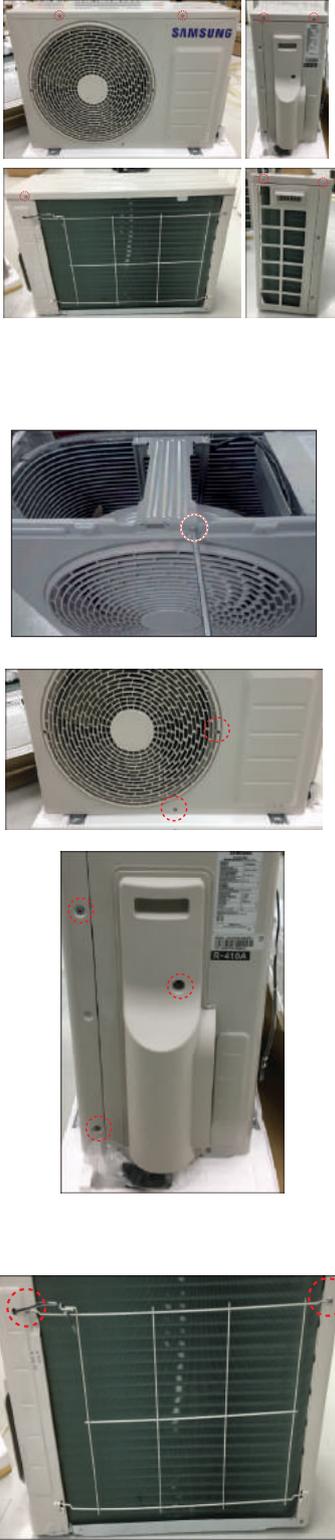
## 4-2 Outdoor Unit (V2MD Chassids)

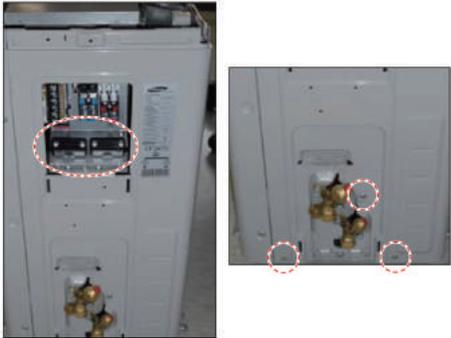
No	Parts	Procedure	Remark
1	Common Work	<p>1) Loosen 2 fixing screws and separate the cover Control.</p> <p>2) Loosen 2 fixing screws and separate the cover control.</p> <p>3) Loosen 5 fixing screws and separate the Cabinet Front.</p> <p>4) Loosen 1 fixing screw of Ass'y E-part.</p> <p>5) Loosen 12 fixing screws and separate the Cabinet-Side</p>	

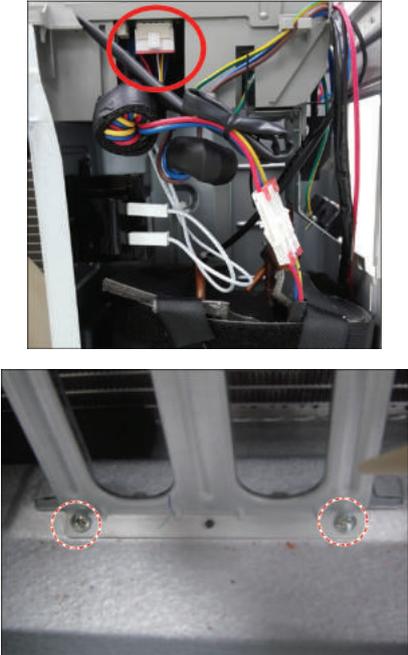
No	Parts	Procedure	Remark
2	Fan & Motor	<p>1) Remove the Nut Flange. (Turn to the clockwise) 2) Separate the Fan.</p> <p>3) Loosen 4 fixing screws to separate the Motor.</p> <p>4) Loosen 2 fixing screws and separate the Motor Bracket from the Base.</p>	  
3	Assy Control Out	<p>1) To remove the Cover control box : Pull the motor wire is allow sufficient space as shown on the right side and then remove the screw.</p> <p>2) Detach several connectors from the Ass'y Control Out.</p> <p>3) Detach several connectors from the PCB of Ass'y Control Out.</p>	 

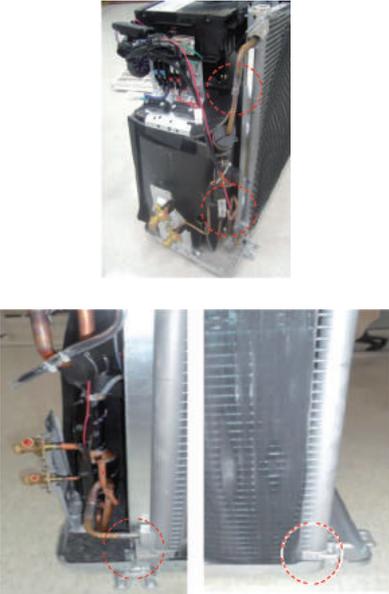
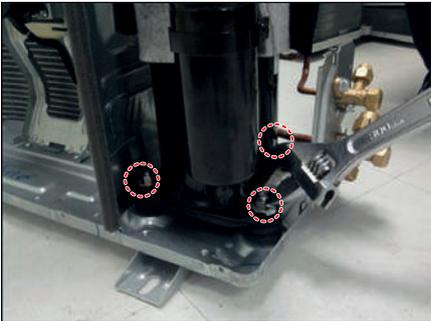
No	Parts	Procedure	Remark
4	Heat Exchanger	1) Loosen 2 fixing screwa of left and right side. 2) Disassemble the inlet and outlet pipe by welding. 3) Separate the Heat Exchanger.  <b>⚠ Before you disassemble the pipes and Condenser, be sure that there should be no refrigerant remained in the unit.</b>	
5	Compressor	1) Open the Terminal Cover of Compressor and unscrew the Connection Terminal. 2) Disassemble the inlet and outlet pipe of Compressor by welding. 3) Loosen 3 bolts of the lower part. 4) Separate the Compressor.	  

## Outdoor Unit (N-SI Chassids)

No.	Parts	Procedure	Remark
1	Common work	<p>1) Loosen each screws and detach the Cabi Top Cover.</p> <p>2) Loosen screws of the Cabi front.and detach it. Loosen screws of the Cover valve</p> <p>3) Loosen 2 fixing screws and detach the conbar.</p>	

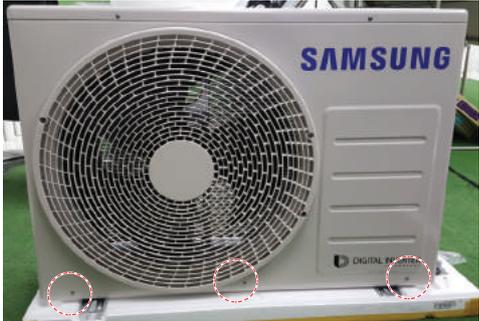
No.	Parts	Procedure	Remark
		<p>4) Loosen 2 fixing screws from the Cabi side LF and detach it</p> <p>5) Loosen fixing screws from the Cabi front Rh and detach it</p>	 
2	Fan & Motor	<p>1) Detach the Nut Flange.(Turn counterclockwise Detach the Fan.</p> <p>Loosen 4 fixing screws to detach the Motor. (Use Monkey Spanner.)</p>	 

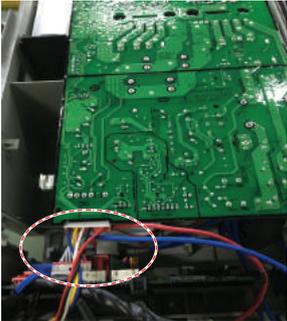
No.	Parts	Procedure	Remark
		<p>2) Disconnect the wire between Assy control out and Motor</p> <p>3) Loosen 2 fixing screws to detach the BRACKET MOTOER</p>	 <p>The top photograph shows a bundle of multi-colored wires with a red circle highlighting a specific connection point. The bottom photograph shows a grey plastic bracket with two screws being loosened, also indicated by red dashed circles.</p>
3	ASSY CONTROL OUT	<p>1) Separate a screw in order to separate ASSY CONTROL. along the picture</p> <p>2) Separate connector wire in order to separate ASSY CONTROL</p>	 <p>The top photograph shows a grey control panel with a red circle around a screw at the bottom. The middle photograph shows the internal wiring with two red circles highlighting the connectors to be disconnected. The bottom photograph shows the control panel being lifted away, with red circles highlighting the remaining wire connections.</p>

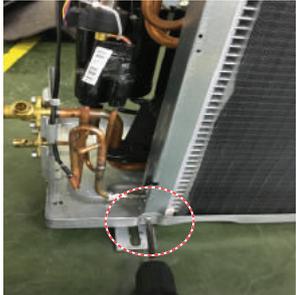
No.	Parts	Procedure	Remark
4	Heat Exchanger	<p>1) Release the refrigerant at first</p> <p>⚠ Before you disassemble the pipes and Condenser, be sure that there should be no refrigerant remained in the unit.</p> <p>2) Disassemble the pipes in both inlet and outlet with welding torch.</p> <p>⚠ Please separate when you repair COMPRESSOR</p> <p>3) Loosen fixing screw 1EA left side. (using +)screw driver.)</p> <p>4) Loosen fixing screw 1EA back side. (using +)screw driver.)</p>	
5	Compressor	<p>1) Loosen the Terminal Cover nut to open the Terminal Cover. (Use Monkey Spanner.)</p> <p>Disassemble the cloth sound felt.</p> <p>Disassemble the pipe in both inlet and outlet of the Compressor with welding torch.</p> <p>Disassemble the pipe in both inlet and outlet of the Condenser with welding torch.</p> <p>Loosen the 3 bolts at the bottom. (Use Monkey Spanner.)</p> <p>Detach the Compressor.</p>	

## Outdoor Unit (Q480 Chassis)

No	Parts	Procedure	Remark
1	COMMON WORK	<p>1) Loosen fixing screws from the Cabi Side Rh and detach it.</p> <p>2) Loosen each screws and detach the Cabi Top Cover</p> <p>3) Loosen fixing screws from the Cabi Side.</p> <p>4) Loosen fixing screws from the Cabi Side RIGHT and detach it.</p>	   

No	Parts	Procedure	Remark
1	COMMON WORK	<p>5) Loosen fixing screws from the Cabi Front and detach it.</p> <p>6) Loosen fixing screws from the Cabi LEFT and detach it.</p> <p>7) Remove the 4 Cond Bar from the holder of outdoor unit cabinet.</p>	   

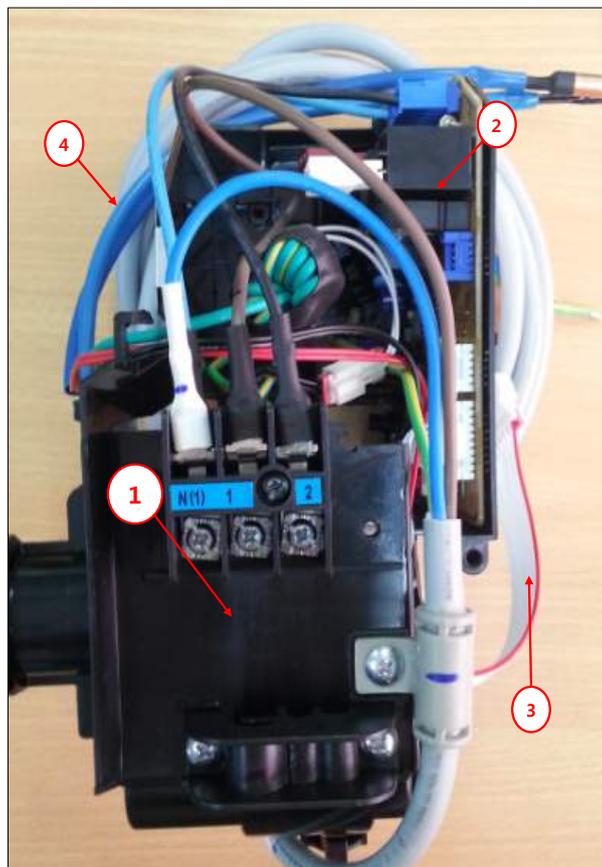
No	Parts	Procedure	Remark
2	Fan & Motor	<p>1) Detach the Nut Flange like the picture on the right side.(Turn clockwise because the screw is left-handed.) (Use Monkey Spanner.)</p> <p>2) Detach the Fan Propeller.</p> <p>3) Loosen 4 fixing screws to detach the Motor. (Use Monkey Spanner.)</p> <p>4) Disconnect the wire between Ass'y Control Out and Motor.</p> <p>8) Loosen 2 fixing bolts and detach the Bracket Motor</p>	   

No	Parts	Procedure	Remark
3	Ass'y Control Out	<p>1) To remove the Cover control box : Pull the motor wire is allow sufficient space as shown on the right side and then remove the screw.</p> <p>2) Detach several connectors from the Ass'y Control Out.</p> <p>3) Detach several connectors from the PCB of Ass'y Control Out.</p>	 
4	Heat Exchanger	<p>1) Release the refrigerant at first.</p> <p>2) Loosen fixing screw on both sides.</p> <p>3) Disassemble the pipes in both inlet and outlet with welding torch.</p> <p>4) Detach the Heat Exchanger.</p>	 



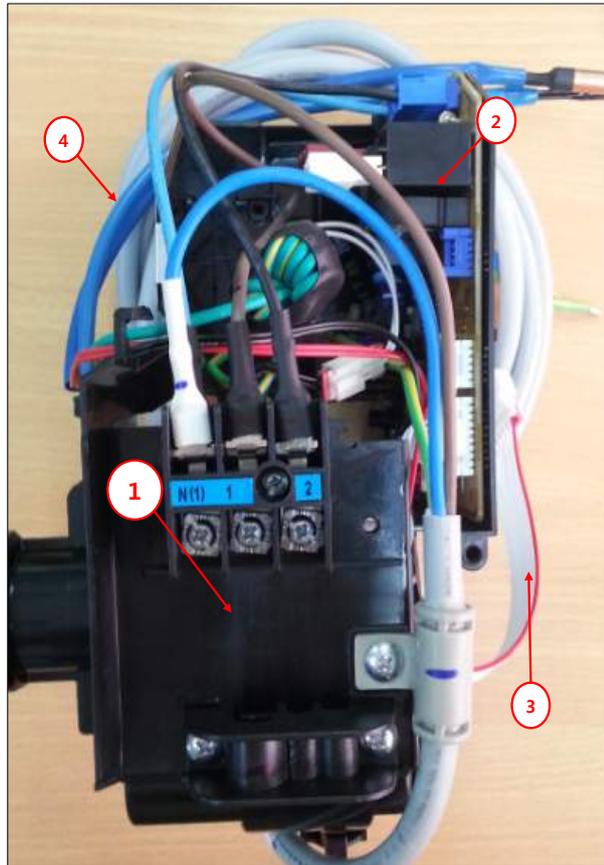
# 5. ASSY CONTROL

## 5-1 ASSY KIT INDOOR CODE DB92-04415E



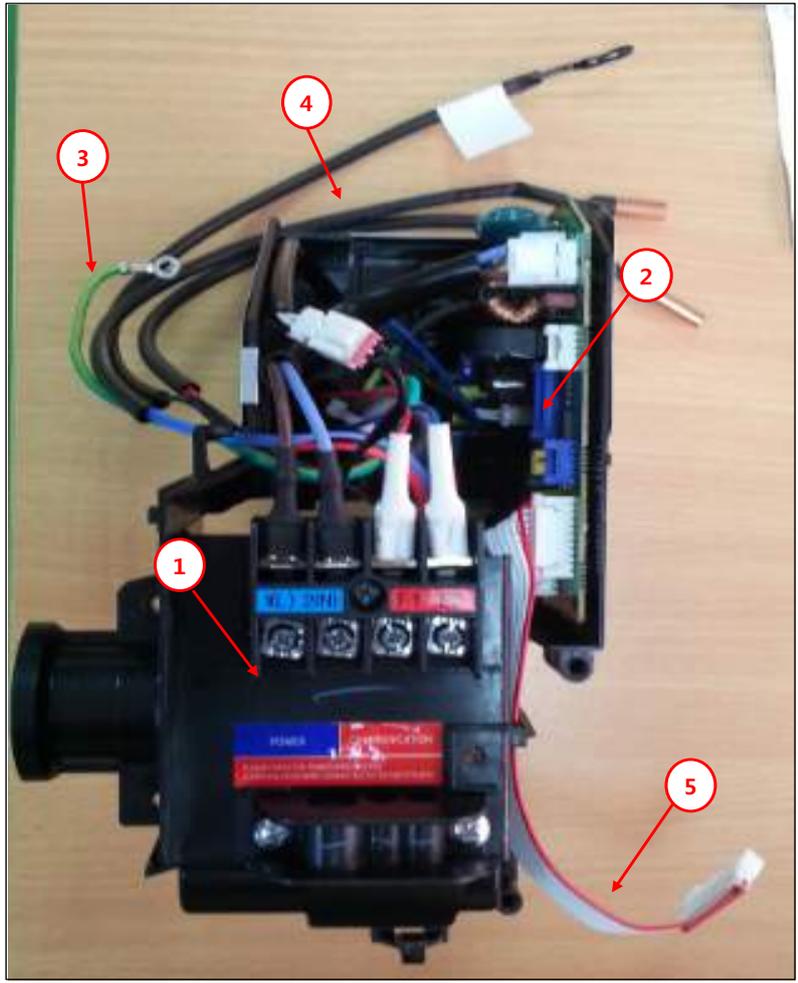
Main materials list					
No	NAME	CODE	Q'ty	unit	Remark
1	ASSY CASE ELECTRIC	DB90-09804B	1	EA	Boracay3,SSR COMM, INV
2	ASSY PCB MAIN	DB92-04601C	1	EA	MAIN,17R_ECO_INV_ BLDC,120X120mm,Y,220V-240V,5V,12V,15V,11W,1WAY
3	ASSY CONNECTOR WIRE	DB93-06923D	1	EA	9,1007,26,RED,SMH200-9H/ WHT,25045HP-9/WHT,-,190,-,-,-, UNKNOWN
4	SENSOR TEMP	DB32-00205A	1	EA	50~110,5V,-,-,103HW,BLK,400

5-2 ASSY KIT INDOOR CODE DB92-04604C



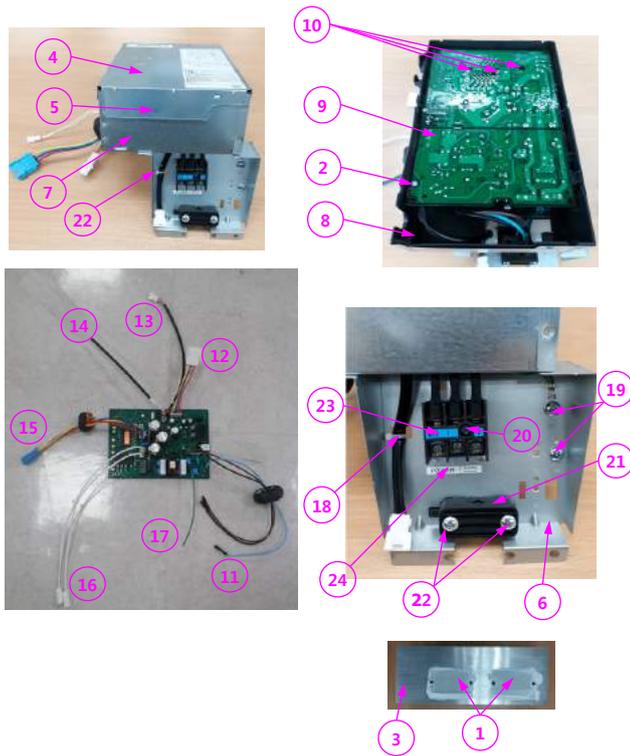
Main materials list					
No	NAME	CODE	Q'ty	unit	Remark
1	ASSY CASE ELECTRIC	DB90-09805D	1	EA	Boracay3,SSR COMM, INV
2	ASSY PCB MAIN	DB92-04372C	1	EA	MAIN,17R_ECO_INV_ BLDC,120X120mm,Y,220V- 240V,5V,12V,15V,11W,1WAY
3	ASSY CONNECTOR WIRE	DB93-06923D	1	EA	9,1007,26,RED,SMH200-9H/ WHT,25045HP-9/WHT,-,190,-,-,- ,UNKNOWN
4	SENSOR TEMP	DB32-00205A	1	EA	50~110,5V,-,-,103HW,BLK,400

5-3 ASSY KIT INDOOR CODE DB92-04454A



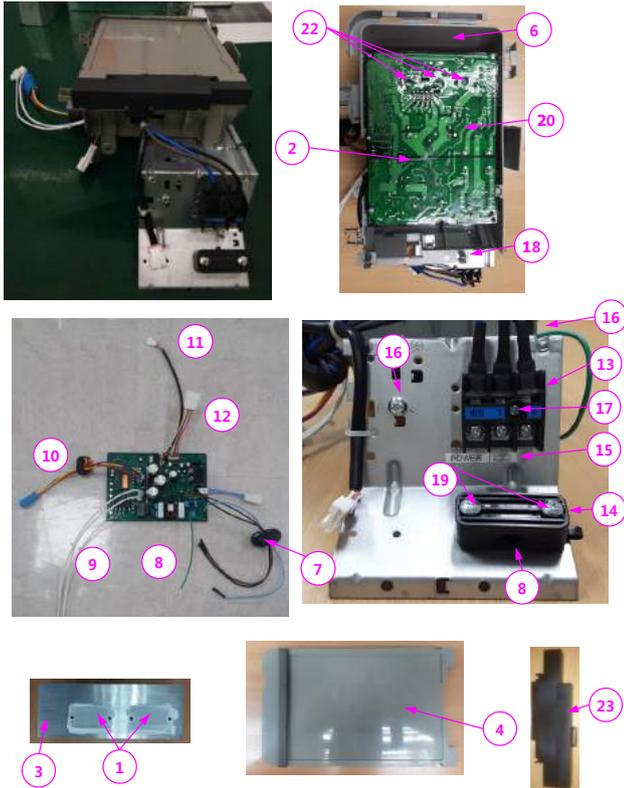
Main materials list					
No	NAME	CODE	Q'ty	unit	Remark
1	ASSY CASE ELECTRIC	DB90-09431A	1	EA	BORACAY 3,INVERTER, 485 comm.
2	ASSY PCB MAIN	DB92-03467G	1	EA	MAIN,120*120,Y,220V-240V,5V,12V,15V,9W,RAC,N-STD#5, BLDC,BORACAY
3	ASSY CONNECTOR WIRE	DB93-06676A	1	EA	1,1015,16,YEL/GRN,ST730711-3,ST710095-3,-,250,-,-,-,PBA-EVAP,AR5000
4	ASSY THERMISTOR IN	DB95-05163A	1	EA	103AT,AC,200,10
5	ASSY CONNECTOR WIRE-DISPLAY	DB93-11217C	1	EA	103AT,AC,200,10

## 5-4 ASSY KIT OUTDOOR CODE DB92-04601C



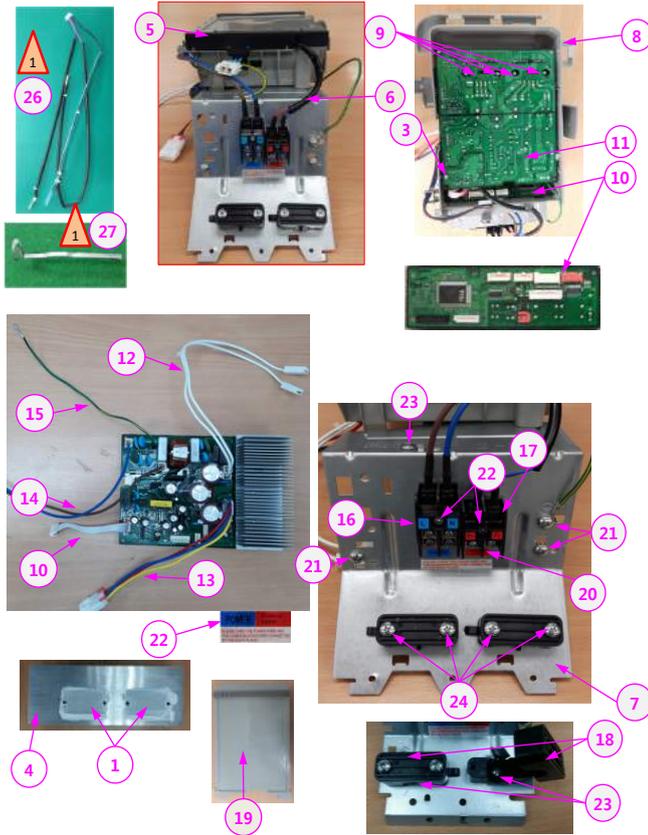
Main materials list					
No	NAME	CODE	Q'ty	unit	REMARK
1	GREASE-SILICON	0205-000178	0.002	KG	
2	SCREW-TAPPING	6002-000536	1	EA	Fix PCB & case
3	HEAT SINK	DB62-12575A	1	EA	
4	CASE CONTROL-UPPER S	DB61-06600A	1	EA	
5	COVER-CONTROL-UPPER INSIDE	DB63-03378A	1	EA	
6	PLATE-CONTROL-OUT	DB61-06715B	1	EA	
7	PLATE-CONTROL-LOW	DB61-06713A	1	EA	
8	CASE CONTROL-OUT	DB61-06714A	1	EA	
9	ASSY PCB INVERTER	DB92-04360A	1	EA	PF#1_18E N-V2MD(1.5uF)
10	ASSY-SCREW MACHINE	DB91-00933A	3	EA	
11	"ASSY CONNECTOR WIRE POWER"	DB93-16372A	1	EA	Core
12	"ASSY CONNECTOR WIRE MOTOR"	"DB93-10822A"	1	EA	
13	"ASSY CONNECTOR WIRE DOWNLOAD"	DB93-06679A	1	EA	
14	ASSY CONNECTOR WIRE OLP	DB93-10989A	1	EA	OLP SENSOR
15	ASSY CONNECTOR WIRE COMP	DB93-15317A	1	EA	
16	ASSY CONNECTOR WIRE REACTOR	DB93-15320B	1	EA	150mm
17	ASSY CONNECTOR WIRE EARTH	DB93-12121B	1	EA	240mm
18	CABLE TIE	DB65-10088D	1	EA	
19	SCREW SPACIAL	6009-001001	2	EA	M4,L8 : GND
20	SCREW	6002-000555	1	EA	Fix terminal Block
21	SCREW	6002-000239	1	EA	Fix holder wire, plate and case
22	SCREW	6002-000234	2	EA	Holder wire
23	TERMINAL BLOCK	DB65-00181B	1	EA	3 PIN
24	ASSY-LABEL CONNECTION	DB98-32842A	1	EA	POWER+ COMM + CAUTION

## 5-4 ASSY KIT OUTDOOR CODE DB92-04361B



Main materials list					
No	NAME	CODE	Q'ty	unit	REMARK
1	GREASE-SILICON	0205-000178	0.002	KG	
2	SCREW-TAPPING	6002-000536	1	EA	Fix PCB & case
3	HEAT SINK	DB62-12575A	1	EA	
4	ASSY COVER CONTROL	DB90-09878A	1	EA	
5	PLATE CONTROL	DB61-05897A	1	EA	N-SI
6	CASE CONTROL	DB61-06722A	1	EA	
7	ASSY CONNECTOR WIRE-POWER	DB93-16371A	1	EA	
8	ASSY CONNECTOR WIRE-POWER	DB93-09646A	1	EA	
9	ASSY CONNECTOR WIRE-EARTH	DB93-12121B	1	EA	
10	ASSY CONNECTOR WIRE-REACTOR	DB93-15320A	1	EA	
11	ASSY CONNECTOR WIRE-COMP	DB93-15317A	1	EA	
12	ASSY CONNECTOR WIRE -DOWNLOAD	DB93-06679A	1	EA	
13	ASSY CONNECTOR WIRE -MOTOR	DB93-10822A	1	EA	
14	TERMINAL BLOCK	DB65-00181B	1	EA	3 PIN
15	HOLDER-WIRE CLAMP	DB61-00250A	1	EA	
16	ASSY-LABEL CONNECTION	DB98-32842A	1	EA	POWER+ COMM + CAUTION
17	SCREW SPACIAL	6009-001001	2	EA	M4,L8 : GND
18	SCREW	6002-000555	1	EA	Fix terminal Block
19	SCREW	6002-000239	2	EA	Fix holder wire, plate and case
20	SCREW	6002-000234	2	EA	Holder wire
21	ASSY PCB INVERTER	DB92-04360B	1	EA	PF#1_18E (2.5uF)
22	CABLE TIE	DB65-10088D	2	EA	
23	ASSY-SCREW MACHINE	DB91-00933A	3	EA	
24	COVER PCB	DB63-03885A	1	EA	

## 5-5 ASSY KIT OUTDOOR CODE DB92-04378H



Main materials list					
No	NAME	CODE	Q'ty	unit	REMARK
1	GREASE-SILICON	0205-000178	0.002	KG	
2	ASSY CONNECTOR WIRE	DB93-07452B	1	EA	MAIN - INV COMMUNICATION
3	SCREW-TAPPING	6002-000536	1	EA	Fix PCB & case
4	HEAT SINK	DB62-12196B	1	EA	
5	COVER PCB	DB63-03885A	1	EA	
6	ASSY CONNECTOR WIRE-COMM	DB93-16402A	1	EA	COMMUNICATION
7	PLATE CONTROL	DB61-04690A	1	EA	Q (New modify)
8	CASE CONTROL	DB61-06722A	1	EA	
9	ASSY-SCREW MACHINE	DB91-00933A	4	EA	Fix PCB & heat sink
10	ASSY PCB MAIN	DB92-04029D	1	EA	RAC MAIN EMI
11	ASSY PCB INVERTER	DB92-04025C	1	EA	PF2_17S
12	ASSY CONNECTOR WIRE-REACTOR	DB93-15320A	1	EA	
13	ASSY CONNECTOR WIRE-COMP	DB93-09497E	1	EA	WHT HOUSING
14	ASSY CONNECTOR WIRE-POWER	DB93-16371A	1	EA	POWER
15	ASSY CONNECTOR WIRE-EARTH	DB93-12121B	1	EA	Inv and Plate
16	TERMINAL BLOCK	DB65-00298B	1	EA	POWER
17	TERMINAL BLOCK	DB65-00274A	1	EA	F1,F2
18	HOLDER-WIRE CLAMP	DB61-00250A	2	EA	
19	ASSY COVER CONTROL	DB90-09878A	1	EA	Attach seal
20	LABEL INSTRUCTION	DB98-34030A	1	EA	CAUTION
21	SCREW SPACIAL	6009-001001	4	EA	M4,L8 : GND
22	SCREW	6002-000555	2	EA	Fix terminal
23	SCREW	6002-000239	3	EA	Fix holder wire, plate and case
24	SCREW	6002-000234	4	EA	Holder wire
25	ASSY CONNECTOR WIRE-EARTH	DB93-12121C	1	EA	MAIN and Plate
26	SENSOR TEMP	DB32-00257A	1	EA	
27	SPRING ETC-SENSOR	DB81-00635A	2	EA	

# 6. Electrical Parts List

## 6-1 INDOOR MAIN PCB CODE DB92-04601C

Level	Parts Code	Design Loc	Parts Description	Spec.	Quantity	Unit
..1	0201-001982	-	ADHESIVE-SIL	TSE3854DS-W,White,2.2,MIL-A-46146B,UL94V-0	0.0017	KG
..1	0202-001463	SOLDER-WIRE	SOLDER-WIRE	LFC2-W3.0,D3,99.79Sn/0.2Cu/0.01P,No Flux	5.1	G
..1	0204-004665	FLUX	FLUX	KSP-70M-S,MIXTURE,NO,FLUX,13%	0.28	G
..1	0204-005794	-	SOLVENT	S-1000,(CH3)2CHOH,100%,0.79	1	G
..1	1203-000274	IC02	IC-POSI.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	PC
..1	1203-006089	IC01	IC-PWM CONTROLLER	TOP253PN,DIP,7P,6.35x9.57mm,PLASTIC,-0.3V/700V,15W,-40Cto+150C,1.37A,ST	1	PC
..1	1404-001194	PTC71	THERMISTOR-PTC	39ohm(Typ),270VAC,1.2A,RADIAL(DISC),0.2A,11x5mm,TP	1	PC
..1	1405-000160	VA71	VARISTOR	680V,560VDC,4500A,17.5x8mm,TP,1120V,500pF,D14	1	PC
..1	2201-000983	C103	C-CERAMIC,DISC	1nF,10%,2000V,Y5P,TP,9x5mm,7.5mm	1	PC
..1	2201-002690	C107	C-CERAMIC,DISC	2.2nF,20%,400Vac,Y5U,TP,12.5x7mm,10mm	1	PC
..1	2201-002690	C108	C-CERAMIC,DISC	2.2nF,20%,400Vac,Y5U,TP,12.5x7mm,10mm	1	PC
..1	2301-001915	CR71	C-FILM,LEAD	1.2,-25to+85C,-,450V,+10~-5,36x16x26.5,CP wire,PP,PBT,S3,	1	PC
..1	2301-002032	XC72	C-FILM,LEAD-PPF	100nF,10%,275Vac,TP,12.5x6x12mm	1	PC
..1	2401-001998	C109	C-AL	1000uF,20%,25V,GP,TP,10x20mm,5mm	1	PC
..1	2401-004267	C101	C-AL	22uF,20%,500V,TP,16x25mm,7.5mm	1	PC
..1	3002-001129	BZ61	BUZZER-PIEZO	85dB,2KHz,BK	1	PC
..1	3501-001268	RY71	RELAY-POWER	12V,0.9W,25000mA,1FormA,20ms,10ms	1	PC
..1	3502-000115	SS71	SSR	12V,2A,1ms,1ms,9.6V,264V	1	PC
..1	3502-001087	SS72	SSR	12V,2A,0.2ms,9.6~25,264V	1	PC
..1	3601-001288	F701	FUSE-AXIAL LEAD	250V,2.5A,TIME-LAG,CERAMIC-TUBE,5.2x20mm	1	PC
..1	3711-000260	CN71	HEADER-BOARD TO CABLE	1WALL,3P,1R,7.92mm,STRAIGHT,SN,BLU	1	PC
..1	3711-000262	CN72	HEADER-BOARD TO CABLE	1WALL,3P,1R,7.92mm,STRAIGHT,SN,WHT,8.5X19.74X3.2mm	1	PC
..1	3711-000796	CN42	HEADER-BOARD TO CABLE	BOX,2P,1R,2.5MM,STRAIGHT,SN,RED	1	PC
..1	3711-000879	CN44	HEADER-BOARD TO CABLE	BOX,3P,1R,2.5mm,STRAIGHT,SN,BLU	1	PC
..1	3711-000941	CN81	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5mm,STRAIGHT,SN,YEL	1	PC
..1	3711-004379	CN43	HEADER-BOARD TO CABLE	BOX,4P,1R,2mm,STRAIGHT,SN,WHT	1	PC
..1	3711-004484	CN61	HEADER-BOARD TO CABLE	BOX,5P,1R,2mm,STRAIGHT,SN,WHT	1	PC
..1	3711-004712	CN91	HEADER-BOARD TO CABLE	BOX,9P,1R,2mm,STRAIGHT,SN,WHT,5.1x19.98x11.2mm	1	PC
..1	3711-007067	CN31	HEADER-BOARD TO CABLE	BOX,6P,1R,2mm,STRAIGHT,SN,BLK	1	PC
..1	DB26-00115A	ST11	TRANS SWITCHING	85~265V	1	PC
..1	DB27-00017A	FT71	COIL CHOKE	USAV-07153,UU1116,15mH,+50~-30%,-,1.3ohm,0.7A,15mH,105,20*18mm,13x10,0.6,BK,-25~-+85,-,Mn-Zn,4,DIP	1	PC
..1	DB93-12824A	CN11	ASSY CONNECTOR WIRE	2,1007,26,WHT,25045HP-02B/WHT,YBNH200-02P/WHT,-,150,2.5pi/UL125/BLK,30,-,-,PBA-TERMINAL BLOCK,BORACAY,N,-,BORACAY,AWG 2	1	PC
..1	DB94-07541A	001	ASSY PCB AUTO	MAIN,17R,ECO,INV,AC,90X120mm,Y,220V-240V,5V,12V,9W,1-WAY COMM,CO,PTC,AC FAN,15STE,DB92-04601C	1	PC

....2	0402-000137	D101	DIODE-RECTIFIER	1N4007,1000V,1A,DO-41,TP	1	PC
....2	1404-001413	NTC1	THERMISTOR-NTC	18ohm,3A,3200K,19MWC,15mm,TP,17x6mm,RADIAL(DISC)	1	PC
....2	2001-000429	R901	R-CARBON	1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	1	PC
....2	2002-001104	R108	R-COMPOSITION	12Mohm,5%,1/2W,AA,TP,3.4x9mm	1	PC
....2	2002-001104	R109	R-COMPOSITION	12Mohm,5%,1/2W,AA,TP,3.4x9mm	1	PC
....2	2003-000706	R105	R-METAL OXIDE(S)	47Kohm,5%,2W,AA,TP,3.8x12mm	1	PC
....2	2401-000480	C106	C-AL	10uF,20%,50V,GP,TP,5x11mm,5mm	1	PC
....2	2401-000832	C111	C-AL	220uF,20%,25V,GP,TP,8x11.5mm,5mm	1	PC
....2	2401-002619	C105	C-AL	47uF,20%,25V,GP,TP,5x11mm,5mm	1	PC
....2	2802-001198	X501	RESONATOR-CERAMIC	10MHZ,0.5%,TP,8x3x5.5mm	1	PC
....2	3812-001283	J10	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J11	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J14	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J17	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J20	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J22	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J23	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J25	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J29	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J3	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J31	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J32	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J33	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J34	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J4	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J56	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J58	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J8	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J9	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	6042-001008	ECN71-1	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ECN71-2	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ECN72-1	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ECN72-2	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ERY71-1	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ERY71-2	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ERY71-3	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ERY71-4	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	DB94-07542A	-	ASSY PCB SMD	MAIN,17R_ECO_INV_AC,90X120mm,Y,220V-240V,5V,12V,9W,1-WAY COMM,CO,PTC,AC FAN,155STE,DB92-04601C	1	PC
.....3	0201-001354	-	ADHESIVE-EPOXY	SMT-GLUE,HT-130D	3.30E-04	KG
.....3	0402-001192	D103	DIODE-RECTIFIER	ES2D,200V,2A,SMB,TP	1	PC
.....3	0402-001298	BD71	DIODE-BRIDGE	DF06S,600V,1A,SMD-4,TP	1	PC
.....3	0402-001427	D102	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	PC
.....3	0402-001741	D201	DIODE-RECTIFIER	S1M,1000V,1A,SMA,TP	1	PC

.....3	0403-000258	ZD02	DIODE-ZENER	BZX84C5V6,5.2~6V,225mW,SOT-23,TP,5.6V	1	PC
.....3	0403-001285	ZD01	DIODE-ZENER	BZX84-C11,10.4-11.6V,350mW,SOT-23,TP	1	PC
.....3	0501-000534	Q401	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SOT-23,TP,180~390	1	PC
.....3	0504-001064	Q101	TR-DIGITAL	DTC114EKA,NPN,200mW,10K/10K,SOT-23,TP	1	PC
.....3	0504-001064	Q601	TR-DIGITAL	DTC114EKA,NPN,200mW,10K/10K,SOT-23,TP	1	PC
.....3	0504-001064	Q602	TR-DIGITAL	DTC114EKA,NPN,200mW,10K/10K,SOT-23,TP	1	PC
.....3	0506-000175	IC05	TR-ARRAY	2003,NPN,7,1000mW,SOP-16,TP,1000	1	PC
.....3	0604-001002	PC01	PHOTO-COUPLER	TR,100-600%,170mW,SOP-4,TP	1	PC
.....3	0604-001172	PC02	PHOTO-COUPLER	TR,150-300,200mW,SOP,TP	1	PC
.....3	1103-001431	IC03	IC-EEPROM	AT24C08C-SSHM-T,8Kbit,x8,SOP,8P,4.9x3.9mm,1.8/5.5,-40to+85,18uA,TP	1	PC
.....3	1203-006245	IC06	IC-VOL. DETECTOR	KIA7033AT,TSM,3P,2.9x1.6x0.7mm,PLASTIC,3.3V,350mW,-30to+85C,TP	1	PC
.....3	2007-000033	J1	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J12	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J18	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J19	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J2	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J24	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J26	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J28	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J30	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J5	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000039	JP1	R-CHIP	0ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000043	R206	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000043	R303	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000043	R304	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000043	R407	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R306	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R400	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R904	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R110	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R903	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000467	R305	R-CHIP	1Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000475	R501	R-CHIP	1Mohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000476	R101	R-CHIP	1Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000476	R102	R-CHIP	1Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000476	R103	R-CHIP	1Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000476	R113	R-CHIP	1Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000516	R111	R-CHIP	2.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000591	R500	R-CHIP	22ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R403	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R404	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R408	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R601	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC

.....3	2007-000763	R602	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000781	R106	R-CHIP	33ohm,5%,1/8W,TP,2012	1	PC
.....3	2007-000869	R205	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R301	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R302	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R405	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R502	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R503	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R504	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000929	R112	R-CHIP	470ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000939	R902	R-CHIP	47Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001011	R211	R-CHIP	51Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-001011	R212	R-CHIP	51Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-001011	R213	R-CHIP	51Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-001011	R214	R-CHIP	51Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-001011	R215	R-CHIP	51Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-001011	R216	R-CHIP	51Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-001068	R401	R-CHIP	6.8Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001068	R402	R-CHIP	6.8Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001068	R406	R-CHIP	6.8Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001068	R409	R-CHIP	6.8Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001074	R107	R-CHIP	6.8ohm,5%,1/8W,TP,2012	1	PC
.....3	2007-009922	R701	R-CHIP	300Kohm,1%,1/4W,TP,3216,T0.55	1	PC
.....3	2007-009922	R702	R-CHIP	300Kohm,1%,1/4W,TP,3216,T0.55	1	PC
.....3	2007-009922	R703	R-CHIP	300Kohm,1%,1/4W,TP,3216,T0.55	1	PC
.....3	2203-000257	C403	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000257	C501	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C901	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C104	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C110	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C112	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C113	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C201	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C301	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C302	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C303	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C401	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C402	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C404	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C502	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C503	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C504	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	DB41-01421A	PCB	PCB MAIN	FR-1,1L,T1.6,90X120mm,2,17R_ECO_INV_ AC,1Oz,189.5X142mm	1	PC
.....3	DB91-01979A	IC04-1	ASSY MICOM	18K_RAC_L_Inv_AC,STM-1754- OA,S3F8S6B,64QFP,ROM 64KB	1	PC

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.....4	0903-002055	IC04-1	IC- MICROCONTROLLER	S3F8S6B,QFP,64P,14.0x20.0mm,12MHz,TR,Plastic, 5V,-40to+85C,2KB,64KB,8BIT MICROCONTROLLER	1	PC
....2	DE70-00179A	EC101-1	EYELET	ID1.65,OD2.0,L3.0,Ni+Sn PLT,BRASS	1	PC
....2	DE70-00179A	EC101-2	EYELET	ID1.65,OD2.0,L3.0,Ni+Sn PLT,BRASS	1	PC
....2	DE70-00179A	ECR71-1	EYELET	ID1.65,OD2.0,L3.0,Ni+Sn PLT,BRASS	1	PC
....2	DE70-00179A	ECR71-2	EYELET	ID1.65,OD2.0,L3.0,Ni+Sn PLT,BRASS	1	PC
....2	DE70-00179A	EF701-1	EYELET	ID1.65,OD2.0,L3.0,Ni+Sn PLT,BRASS	1	PC
....2	DE70-00179A	EF701-2	EYELET	ID1.65,OD2.0,L3.0,Ni+Sn PLT,BRASS	1	PC

## 6-2 INDOOR MAIN PCB CODE DB92-04372C

Level	Parts Code	Design Loc	Parts Description	Spec.	Quantity	Unit
..1	0201-001528	COATING	ADHESIVE-SIL	LDC2577D,Y/GRN,175CPS	2	G
..1	0201-001982	ADHESIVE-SIL	ADHESIVE-SIL	TSE3854DS-W,White,2.2,MIL-A-46146B,UL94V-0	0.0015	KG
..1	0202-001463	SOLDER-WIRE	SOLDER-WIRE	LFC2-W3.0,D3,99.79Sn/0.2Cu/0.01P,No Flux	4.5	G
..1	0202-001608	SOLDER-WIRE FLUX	SOLDER-WIRE FLUX	LFC7-107,D0.8,99.3Sn/0.7Cu/0.01P,Flux 3.5%	0.2	G
..1	0204-004665	FLUX	FLUX	KSP-70M-S,MIXTURE,NO,FLUX,13%	2.5	G
..1	0402-001227	BD71	DIODE-BRIDGE	D3SBA60,600V,2.3A,SIP-4,BK	1	PC
..1	1203-000274	IC02	IC-POSI.FIXED REG.	7805,TO-220,3P,-,PLASTIC,4.8/5	1	PC
..1	1203-006089	IC01	IC-PWM CONTROLLER	TOP253PN,DIP,7P,6.35x9.57mm,PLASTIC,-0.3V/700V,15W,-40Cto+150C,1.37A,ST	1	PC
..1	1404-001413	NTC1	THERMISTOR-NTC	18ohm,3A,3200K,19MWC,15mm,TP,17x6mm,RADIAL(DISC)	1	PC
..1	2301-002032	XC72	C-FILM,LEAD-PPF	100nF,10%,275Vac,TP,12.5x6x12mm	1	PC
..1	2401-004393	C101	C-AL	100uF,20%,500V,BK,25.4x30mm,10mm	1	PC
..1	3002-001129	BZ61	BUZZER-PIEZO	85dB,2KHz,BK	1	PC
..1	3501-001268	RY71	RELAY-POWER	12V,0.9W,25000mA,1FormA,20ms,10ms	1	PC
..1	3502-001087	SS72-1	SSR	12V,2A,0.2ms,9.6~25,264V	1	PC
..1	3601-001288	F701	FUSE-AXIAL LEAD	250V,2.5A,TIME-LAG,CERAMIC-TUBE,5.2x20mm	1	PC
..1	3711-000260	CN71	HEADER-BOARD TO CABLE	1WALL,3P,1R,7.92mm,STRAIGHT,SN,BLU	1	PC
..1	3711-000296	CN72	HEADER-BOARD TO CABLE	1WALL,6P,1R,3.96MM,STRAIGHT,SN,WHT	1	PC
..1	3711-000796	CN42	HEADER-BOARD TO CABLE	BOX,2P,1R,2.5MM,STRAIGHT,SN,RED	1	PC
..1	3711-000941	CN81	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5mm,STRAIGHT,SN,YEL	1	PC
..1	3711-004379	CN43	HEADER-BOARD TO CABLE	BOX,4P,1R,2mm,STRAIGHT,SN,WHT	1	PC
..1	3711-004484	CN61	HEADER-BOARD TO CABLE	BOX,5P,1R,2mm,STRAIGHT,SN,WHT	1	PC
..1	3711-004712	CN91	HEADER-BOARD TO CABLE	BOX,9P,1R,2mm,STRAIGHT,SN,WHT,5.1x19.98x11.2mm	1	PC
..1	3711-005097	CN62	HEADER-BOARD TO CABLE	BOX,5P,1R,2MM,STRAIGHT,SN,BLU	1	PC
..1	3711-007067	CN31	HEADER-BOARD TO CABLE	BOX,6P,1R,2mm,STRAIGHT,SN,BLK	1	PC
..1	DB26-00116A	ST11	TRANS SWITCHING	230V	1	PC
..1	DB27-00017A	FT71	COIL CHOKE	USAV-07153,UU1116,15mH,+50~-30%,-,1.3ohm,0.7A,15mH,105,20*18mm,13x10,0.6,BK,-25 ~+85 ,-,Mn-Zn,4,DIP	1	PC
..1	DB93-11027A	CN73	ASSY PCB SUB-HVPS	SUB,MALDIVES-P/J,21*15,5V,5V,-,SUB_BORACAY[-],Non-Standard	1	PC
....2	DB93-11579A	-	ASSY PCB MANUAL	11R RAC INDOOR ,STD3,BLDC PROTECTION	1	PC
.....3	0202-001463	-	SOLDER-WIRE	LFC2-W3.0,D3,99.79Sn/0.2Cu/0.01P,No Flux	0.447	G
.....3	0202-001608	-	SOLDER-WIRE FLUX	LFC7-107,D0.8,99.3Sn/0.7Cu/0.01P,Flux 3.5%	0.013	G
.....3	0204-002514	-	THINNER	TS4500,OXIGEN,NO,13.15KG,14KG/BOTTLE,VISCOSITY 0.786	0.295	G
.....3	0204-002606	-	FLUX	LF-715K,OXIGEN,NO,16000L,14%,16kg,Gravity 0.82	0.328	G
.....3	3711-005658	CN72	CONNECTOR-HEADER	NOWALL,4P,1R,2mm,ANGLE,SN,WHT	1	PC
.....3	DB93-11580A	-	ASSY PCB SMD	11R RAC INDOOR ,STD3,BLDC PROTECTION	1	PC

.....4	0201-002040	-	ADHESIVE-EPOXY	HT-130D,RED,36g/BT,SMT-GLUE	1.00E-04	PC
.....4	0501-000465	Q702	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30~300	1	PC
.....4	1202-000104	IC11	IC-VOLTAGE COMP.	393,SOP,8P,150MIL,DUAL,36V,CMOS,PLASTIC,18V,780mW,0to+70C,18V,5mV,250nA,50NA,30	1	PC
.....4	2007-000052	R710	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....4	2007-000130	R715	R-CHIP	39Kohm,5%,1/10W,TP,1608	1	PC
.....4	2007-000455	R712	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	PC
.....4	2007-000475	R709	R-CHIP	1Mohm,1%,1/10W,TP,1608	1	PC
.....4	2007-000583	R714	R-CHIP	22Kohm,1%,1/10W,TP,1608	1	PC
.....4	2007-000939	R711	R-CHIP	47Kohm,1%,1/10W,TP,1608	1	PC
.....4	2007-000979	R713	R-CHIP	5.6Kohm,1%,1/10W,TP,1608	1	PC
.....4	2203-000440	C709	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....4	2203-001083	C711	C-CER,CHIP	0.005nF,0.1pF,50V,COG,TP,1608	1	PC
.....4	2203-005249	C710	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....4	2203-005249	C712	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....4	DB41-01021A	PCB	PCB SUB-HVPS	FR-1,T1.6,25	1	PC
..1	DB93-12824A	CN11	ASSY CONNECTOR WIRE	2,1007,26,WHT,25045HP-02B/WHT,YBNH200-02P/WHT,-,150,2.5pi /UL125/BLK,30,-,-,PBA-TERMINAL BLOCK,BORACAY,N,-,BORACAY,AWG 2	1	PC
..1	DB94-07518A	-	ASSY PCB AUTO	MAIN,17R_ECO_INV_BLD,120X120mm,Y,220V-240V,5V,12V,15V,11W,1WAY COMM,CO,BLDC,15STEP,PTC,D,DB92-04372C	1	PC
....2	0402-000137	D101	DIODE-RECTIFIER	1N4007,1000V,1A,DO-41,TP	1	PC
....2	0402-000137	D701	DIODE-RECTIFIER	1N4007,1000V,1A,DO-41,TP	1	PC
....2	0501-000294	Q701	TR-SMALL SIGNAL	KSA708-Y,PNP,800mW,TO-92,TP,12	1	PC
....2	1203-001238	IC07	IC-POS.FIXED REG.	78L15,TO-92,3P,-,PLASTIC,14.4/	1	PC
....2	1404-001194	PTC71	THERMISTOR-PTC	39ohm(Typ),270VAC,1.2A,RADIAL(DISC),0.2A,11x5mm,TP	1	PC
....2	1405-000160	VA71	VARIATOR	680V,560VDC,4500A,17.5x8mm,TP,1120V,500pF,D14	1	PC
....2	2002-001104	R108	R-COMPOSITION	12Mohm,5%,1/2W,AA,TP,3.4x9mm	1	PC
....2	2002-001104	R109	R-COMPOSITION	12Mohm,5%,1/2W,AA,TP,3.4x9mm	1	PC
....2	2003-000706	R105	R-METAL OXIDE(S)	47Kohm,5%,2W,AA,TP,3.8x12mm	1	PC
....2	2201-000983	C103	C-CERAMIC,DISC	1nF,10%,2000V,Y5P,TP,9x5mm,7.5mm	1	PC
....2	2201-002690	C107	C-CERAMIC,DISC	2.2nF,20%,400Vac,Y5U,TP,12.5x7mm,10mm	1	PC
....2	2201-002690	C108	C-CERAMIC,DISC	2.2nF,20%,400Vac,Y5U,TP,12.5x7mm,10mm	1	PC
....2	2401-000027	C706	C-AL	4.7uF,20%,50V,GP,TP,5x11mm,5mm	1	PC
....2	2401-000480	C106	C-AL	10uF,20%,50V,GP,TP,5x11mm,5mm	1	PC
....2	2401-000832	C111	C-AL	220uF,20%,25V,GP,TP,8x11.5mm,5mm	1	PC
....2	2401-001998	C109	C-AL	1000uF,20%,25V,GP,TP,10x20mm,5mm	1	PC
....2	2401-002300	C701	C-AL	47uF,20%,50V,GP,TP,6.3x11mm,5mm	1	PC
....2	2401-002300	C703	C-AL	47uF,20%,50V,GP,TP,6.3x11mm,5mm	1	PC
....2	2401-002619	C105	C-AL	47uF,20%,25V,GP,TP,5x11mm,5mm	1	PC
....2	2802-001198	X501	RESONATOR-CERAMIC	10MHz,0.5%,TP,8x3x5.5mm	1	PC
....2	3812-001283	J1	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J12	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J13	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J15	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC

....2	3812-001283	J16	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J18	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J19	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J20	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J21	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J24	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J25	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J26	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J28	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J3	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J31	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J33	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J35	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J36	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J37	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J38	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J39	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J4	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J42	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J43	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J44	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J47	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J5	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J50	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J6	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J8	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J81	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J82	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	3812-001283	J83	WIRE-NO SHEATH CU	FE+CU+SN,300V,L52,1/0.6mm,SILVER	1	PC
....2	6042-001008	EC101-1	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	EC101-2	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ECN71-1	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ECN71-2	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ECN78-1	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ERY71-1	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ERY71-2	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ERY71-3	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	6042-001008	ERY71-4	EYELET	ID2.0,OD2.5,L3.2,Ni+Sn PLT,BRASS	1	PC
....2	DB94-07519A		ASSY PCB SMD	MAIN,17R_ECO_INV_BLD,120X120mm,Y,220V-240V,5V,12V,15V,11W,1WAY COMM,CO,BLDC,15STEP,PTC,D,DB92-04372C	1	PC
.....3	0201-001354	ADHESIVE-EPOXY	ADHESIVE-EPOXY	SMT-GLUE,HT-130D	0.0034	KG
.....3	0402-001192	D103	DIODE-RECTIFIER	ES2D,200V,2A,SMB,TP	1	PC
.....3	0402-001427	D102	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	PC
.....3	0402-001741	D201	DIODE-RECTIFIER	S1M,1000V,1A,SMA,TP	1	PC

.....3	0403-000258	ZD02	DIODE-ZENER	BZX84C5V6,5.2~6V,225mW,SOT-23,TP,5.6V	1	PC
.....3	0403-001285	ZD01	DIODE-ZENER	BZX84-C11,10.4-11.6V,350mW,SOT-23,TP	1	PC
.....3	0504-001064	Q101	TR-DIGITAL	DTC114EKA,NPN,200mW,10K/10K,SOT-23,TP	1	PC
.....3	0504-001064	Q601	TR-DIGITAL	DTC114EKA,NPN,200mW,10K/10K,SOT-23,TP	1	PC
.....3	0504-001064	Q703	TR-DIGITAL	DTC114EKA,NPN,200mW,10K/10K,SOT-23,TP	1	PC
.....3	0506-000175	IC05	TR-ARRAY	2003,NPN,7,1000mW,SOP-16,TP,1000	1	PC
.....3	0506-000175	IC06	TR-ARRAY	2003,NPN,7,1000mW,SOP-16,TP,1000	1	PC
.....3	0506-000175	IC08	TR-ARRAY	2003,NPN,7,1000mW,SOP-16,TP,1000	1	PC
.....3	0604-001002	PC01	PHOTO-COUPLER	TR,100-600%,170mW,SOP-4,TP	1	PC
.....3	0604-001002	PC03	PHOTO-COUPLER	TR,100-600%,170mW,SOP-4,TP	1	PC
.....3	0604-001002	PC04	PHOTO-COUPLER	TR,100-600%,170mW,SOP-4,TP	1	PC
.....3	0604-001002	PC05	PHOTO-COUPLER	TR,100-600%,170mW,SOP-4,TP	1	PC
.....3	0604-001172	PC02	PHOTO-COUPLER	TR,150-300,200mW,SOP,TP	1	PC
.....3	1103-001431	IC03	IC-EEPROM	AT24C08C-SSHM-T,8Kbit,x8,SOP,8P,4.9x3.9mm,1.8/5.5,-40to+85,18uA,TP	1	PC
.....3	1203-006245	IC09	IC-VOL. DETECTOR	KIA7033AT,TSM,3P,2.9x1.6x0.7mm,PLASTIC,3.3V,350mW,-30to+85C,TP	1	PC
.....3	2007-000033	J10	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J11	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J14	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J17	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J2	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J23	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J29	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J30	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J32	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J41	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J45	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J46	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J49	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J51	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J7	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000033	J9	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000039	JP1	R-CHIP	0ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000043	R206	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000043	R303	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000043	R304	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000043	R305	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000043	R706	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000043	R901	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R306	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R701	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R702	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R704	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R705	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R904	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC

.....3	2007-000287	R110	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R903	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000385	R115	R-CHIP	14.3Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000475	R501	R-CHIP	1Mohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000476	R101	R-CHIP	1Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000476	R102	R-CHIP	1Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000476	R103	R-CHIP	1Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000476	R117	R-CHIP	1Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000516	R111	R-CHIP	2.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000591	R500	R-CHIP	22ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R403	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R404	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R408	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R601	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R602	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000781	R106	R-CHIP	33ohm,5%,1/8W,TP,2012	1	PC
.....3	2007-000869	R205	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R301	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R302	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R502	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R503	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R504	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R707	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000924	R112	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R113	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R114	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000929	R116	R-CHIP	470ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000939	R902	R-CHIP	47Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001011	R211	R-CHIP	51Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-001011	R212	R-CHIP	51Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-001011	R213	R-CHIP	51Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-001011	R214	R-CHIP	51Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-001011	R215	R-CHIP	51Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-001011	R216	R-CHIP	51Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-001068	R401	R-CHIP	6.8Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001068	R402	R-CHIP	6.8Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001068	R409	R-CHIP	6.8Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001074	R107	R-CHIP	6.8ohm,5%,1/8W,TP,2012	1	PC
.....3	2007-001090	R703	R-CHIP	620ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001175	R708	R-CHIP	8.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-002758	R730	R-CHIP	620Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-002758	R731	R-CHIP	620Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-002758	R732	R-CHIP	620Kohm,5%,1/4W,TP,3216	1	PC
.....3	2203-000257	C501	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000257	C705	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	PC

.....3	2203-000440	C901	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C104	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C110	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C112	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C113	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C201	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C301	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C302	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C303	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C401	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C402	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C404	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C502	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C503	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C504	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C505	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C506	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C702	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-006104	C708	C-CER,CHIP	1000nF,10%,50V,X7R,TP,3225,T2.5	1	PC
.....3	2203-006496	C707	C-CER,CHIP	2.2nF,10%,50V,X7R,TP,1608,T0.9	1	PC
.....3	DB41-01381A	PCB MAIN	PCB MAIN	FR-1,1L,T1.6,120X120mm,2,17R_ECO_INV_ BLDC,10z,242X142mm	1	PC
.....3	DB91-01978A	IC04-1	ASSY MICOM	18K_RAC_L_Inv_BLDC,STM-1753- OA,S3F8S6B,64QFP,ROM 64KB	1	PC
.....4	0903-002055	-	IC- MICROCONTROLLER	S3F8S6B,QFP,64P,14.0x20.0mm,12MHz,TR,Plastic, 5V,-40to+85C,2KB,64KB,8BIT MICROCONTROLLER	1	PC
....2	DE70-00179A	EF701-1	EYELET	ID1.65,OD2.0,L3.0,Ni+Sn PLT,BRASS	1	PC
....2	DE70-00179A	EF701-2	EYELET	ID1.65,OD2.0,L3.0,Ni+Sn PLT,BRASS	1	PC

### 6-3 INDOOR MAIN PCB CODE DB92-03467G

Level	Parts Code	Design Loc	Parts Description	Spec.	Quantity	Unit
..1	0201-001528	ADHESIVE-SIL	ADHESIVE-SIL	LDC2577D,Y/GRN,175CPS	2	G
..1	0202-001463	SOLDER-WIRE	SOLDER-WIRE	LFC2-W3.0,D3,99.79Sn/0.2Cu/0.01P,No Flux	4	G
..1	0202-001608	SOLDER-WIRE FLUX	SOLDER-WIRE FLUX	LFC7-107,D0.8,99.3Sn/0.7Cu/0.01P,Flux 3.5%	0.1	G
..1	0204-004665	FLUX	FLUX	KSP-70M-S,MIXTURE,NO,FLUX,13%	0.3	G
..1	0204-005794	SOLVENT	SOLVENT	S-1000,(CH3)2CHOH,100%,0.79	0.5	G
..1	0402-000324	BD71	DIODE-BRIDGE	D3SB60,600V,4A,SIP-4,ST	1	PC
..1	1203-006089	PW101	IC-PWM CONTROLLER	TOP253PN,DIP,7P,6.35x9.57mm,PLASTIC,-0.3V/700V,15W,-40Cto+150C,1.37A,ST	1	PC
..1	1203-007320	IC102	IC-POSIFIXED REG.	KIA78D12PI,TO-220IS,3P,10.3X15.3mm,PLASTIC,11.7/12.3V,2W,-40to+85C,1A,ST	1	PC
..1	1404-001413	NTC1	THERMISTOR-NTC	18ohm,3A,3200K,19MWC,15mm,TP,17x6mm,RADIAL(DISC)	1	PC
..1	1405-000160	VA71	VARISTOR	680V,560VDC,4500A,17.5x8mm,TP,1120V,500pF,D14	1	PC
..1	2007-000148	R530	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
..1	2007-007306	R905	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
..1	2007-007306	R906	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
..1	2007-007306	R907	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
..1	2007-007306	R908	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
..1	2007-007306	R909	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
..1	2007-007306	R910	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
..1	2201-000987	C107	C-CERAMIC,DISC	2.2nF,20%,400V,Y5U,BK,12.5x6mm,10mm	1	PC
..1	2201-000987	C108	C-CERAMIC,DISC	2.2nF,20%,400V,Y5U,BK,12.5x6mm,10mm	1	PC
..1	2201-000987	C703	C-CERAMIC,DISC	2.2nF,20%,400V,Y5U,BK,12.5x6mm,10mm	1	PC
..1	2201-000987	C704	C-CERAMIC,DISC	2.2nF,20%,400V,Y5U,BK,12.5x6mm,10mm	1	PC
..1	2301-002032	XC71	C-FILM,LEAD-PPF	100nF,10%,275Vac,TP,12.5x6x12mm	1	PC
..1	2401-004393	CE101	C-AL	100uF,20%,500V,BK,25.4x30mm,10mm	1	PC
..1	3002-001129	BZ61	BUZZER-PIEZO	85dB,2KHz,BK	1	PC
..1	3711-000015	CNS22	HEADER-BOARD TO CABLE	BOX,2P,1R,2.5mm,STRAIGHT,SN,WHT,5.8X7.4X7.0mm	1	PC
..1	3711-000203	CNP71	HEADER-BOARD TO CABLE	1WALL,2P,1R,7.92mm,STRAIGHT,SN,WHT,11.82x8.6x9.4mm	1	PC
..1	3711-000296	CNP72	HEADER-BOARD TO CABLE	1WALL,6P,1R,3.96MM,STRAIGHT,SN,WHT	1	PC
..1	3711-000941	CNS81	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5mm,STRAIGHT,SN,YEL	1	PC
..1	3711-002001	CNS31	HEADER-BOARD TO CABLE	BOX,20P,2R,2.0mm,STRAIGHT,SN,BLK,5.0X22.0X6.6mm	1	PC
..1	3711-003942	CNS11	HEADER-BOARD TO CABLE	BOX,2P,1R,2mm,STRAIGHT,SN,WHT,5.98x5.1x7.7mm	1	PC
..1	3711-004182	CNS91	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,STRAIGHT,SN,WHT,5.1x21.98x11.2mm	1	PC
..1	3711-004236	CNS43	HEADER-BOARD TO CABLE	BOX,6P,1R,2mm,STRAIGHT,SN,WHT	1	PC
..1	3711-004484	CNS61	HEADER-BOARD TO CABLE	BOX,5P,1R,2mm,STRAIGHT,SN,WHT	1	PC
..1	3711-005097	CNS62	HEADER-BOARD TO CABLE	BOX,5P,1R,2MM,STRAIGHT,SN,BLU	1	PC

..1	3711-006678	CNS32	HEADER-BOARD TO CABLE	BOX,10P,1R,2mm,STRAIGHT,SN,BLU	1	PC
..1	3712-001047	CNP73	CONNECTOR-TERMINAL	TAB,MALE,N,0.5/4.75mm	1	PC
..1	DB27-00096A	FT71	COIL CHOKE	CV1615280,COIL CHOKE,28.0mH,+50~-30%,268.0mohm,1.5A,66,21*22*15.5*4,13x10,Mn-Zn,4,DIP	1	PC
..1	DB67-00942A	VA71-1	CAP	VIVALDI-P/J,SHP2,1,5,2,11.5,18.5,GREEN,SSEC	1	PC
..1	DB94-06021A	-	ASSY PCB AUTO	MAIN,NEW BORACAY,120*120,Y,220-240V,19V,12V,5V,15W,485-INV,BLDC FAN,NO Y-CAP,DB92-03467J	1	PC
....2	0501-000362	Q801	TR-SMALL SIGNAL	KSC2328A-Y,NPN,1000mW,TO-92L,TP,160~320	1	PC
....2	1203-003318	IC101	IC-POSI.ADJUST REG.	KIA431A,TO-92,3P,4.7x4.8mm,PLASTIC,700mW,-40to+85,1mA,2.47/2.52V,TP,Marking:3B, Shunt	1	PC
....2	2003-002406	R105	R-METAL OXIDE(S)	300Kohm,5%,2W,AA,TP,3.8x12mm	1	PC
....2	2201-000285	C102	C-CERAMIC,DISC	1nF,10%,1000V,Y5P,TP,8x5mm,5mm	1	PC
....2	2401-000480	C706	C-AL	10uF,20%,50V,GPTP,5x11mm,5mm	1	PC
....2	2401-000480	CE104	C-AL	10uF,20%,50V,GPTP,5x11mm,5mm	1	PC
....2	2401-000480	CE107	C-AL	10uF,20%,50V,GPTP,5x11mm,5mm	1	PC
....2	2401-001415	CE111	C-AL	470uF,20%,35V,GPTP,10x20mm,5mm	1	PC
....2	2401-001838	CE108	C-AL	470uF,20%,25V,WT,TP,10x16mm,5mm	1	PC
....2	2401-001838	CE113	C-AL	470uF,20%,25V,WT,TP,10x16mm,5mm	1	PC
....2	3601-001209	F702	FUSE-RADIAL LEAD	250V,1A,TIME-LAG,-,8.5x8mm	1	PC
....2	3601-001765	F701	FUSE-RADIAL LEAD	250V,3.15A,TIME-LAG,Thermoplastic,8.5x8mm	1	PC
....2	DB94-06022A	-	ASSY PCB SMD	MAIN,NEW BORACAY,120*120,Y,220-240V,19V,12V,5V,15W,485-INV,BLDC FAN,NO Y-CAP,DB92-03467J	1	PC
.....3	0202-001477	SOLDER-CREAM	SOLDER-CREAM	LST309-M,D20~45um,96.5Sn/3Ag/0.5Cu,Flux 11.5%	1	G
.....3	0402-001192	D103	DIODE-RECTIFIER	ES2D,200V,2A,SMB,TP	1	PC
.....3	0402-001192	D104	DIODE-RECTIFIER	ES2D,200V,2A,SMB,TP	1	PC
.....3	0402-001741	D701	DIODE-RECTIFIER	S1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D101	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D102	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0406-001204	CD81	DIODE-TVS	SMBJ5.0CA,6.4/-/7.25V,600W,SMB	1	PC
.....3	0406-001204	CD82	DIODE-TVS	SMBJ5.0CA,6.4/-/7.25V,600W,SMB	1	PC
.....3	0406-001204	CD83	DIODE-TVS	SMBJ5.0CA,6.4/-/7.25V,600W,SMB	1	PC
.....3	0501-000465	Q601	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30~300	1	PC
.....3	0501-000465	Q702	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30~300	1	PC
.....3	0501-000465	Q802	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30~300	1	PC
.....3	0501-002296	Q701	TR-SMALL SIGNAL	MMST2907A,PNP,200MW,SMT3,TP,100-300	1	PC
.....3	0506-000175	IC05	TR-ARRAY	2003,NPN,7,1000mW,SOP-16,TP,1000	1	PC
.....3	0506-000175	IC10	TR-ARRAY	2003,NPN,7,1000mW,SOP-16,TP,1000	1	PC
.....3	0604-001002	PC03	PHOTO-COUPLER	TR,100-600%,170mW,SOP-4,TP	1	PC
.....3	0604-001002	PC04	PHOTO-COUPLER	TR,100-600%,170mW,SOP-4,TP	1	PC
.....3	0604-001002	PC05	PHOTO-COUPLER	TR,100-600%,170mW,SOP-4,TP	1	PC
.....3	0604-001002	PC101	PHOTO-COUPLER	TR,100-600%,170mW,SOP-4,TP	1	PC
.....3	0801-000393	IC08	IC-CMOS LOGIC	74HC86,OR GATE,SOP,14P,150MIL,QUAD,TP,2.0/6.0V,0.26V,-40to+85,180mW,4.2V,1uA,0.1uA,5.2mA	1	PC
.....3	1006-001325	IC07	IC-BUS TRANSCEIVER	SO,8P,4.9x3.8 mm,SINGLE,ST,PLASTIC,5V,-40to+85C,1,1,1.5/5.0V	1	PC

.....3	1202-000104	IC12	IC-VOLTAGE COMP.	393,SOP,8P,150MIL,DUAL,36V,CMOS,PLASTIC,18V,780mW,0to+70C,18V,5mV,250nA,50NA,30	1	PC
.....3	1203-002722	REG701	IC-POSI.FIXED REG.	KA78R15,TO-220,4P,10x15mm,PLASTIC,14.6/15.4V,1.5W,-20to+80C,ST	1	PC
.....3	1203-006245	IC03	IC-VOL. DETECTOR	KIA7033AT,TSM,3P,2.9x1.6x0.7mm,PLASTIC,3.3V,350mW,-30to+85C,TP	1	PC
.....3	2007-000033	R826	R-CHIP	0ohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000040	R113	R-CHIP	150ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000070	R717	R-CHIP	0ohm,5%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000076	R601	R-CHIP	330ohm,5%,1/10W,TP,1608	1	PC
.....3	2007-000076	R602	R-CHIP	330ohm,5%,1/10W,TP,1608	1	PC
.....3	2007-000076	R716	R-CHIP	330ohm,5%,1/10W,TP,1608	1	PC
.....3	2007-000078	R703	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	PC
.....3	2007-000078	R706	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	PC
.....3	2007-000078	R805	R-CHIP	1Kohm,5%,1/10W,TP,1608	1	PC
.....3	2007-000080	R107	R-CHIP	2Kohm,5%,1/10W,TP,1608	1	PC
.....3	2007-000084	R707	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	1	PC
.....3	2007-000087	R708	R-CHIP	6.8Kohm,5%,1/10W,TP,1608	1	PC
.....3	2007-000090	R604	R-CHIP	10Kohm,5%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000090	R701	R-CHIP	10Kohm,5%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000090	R704	R-CHIP	10Kohm,5%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000090	R705	R-CHIP	10Kohm,5%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000090	R723	R-CHIP	10Kohm,5%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000090	R801	R-CHIP	10Kohm,5%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000090	R802	R-CHIP	10Kohm,5%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000090	R803	R-CHIP	10Kohm,5%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000090	R804	R-CHIP	10Kohm,5%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000090	R806	R-CHIP	10Kohm,5%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000116	R825	R-CHIP	120ohm,5%,1/10W,TP,1608	1	PC
.....3	2007-000124	R603	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	1	PC
.....3	2007-000130	R715	R-CHIP	39Kohm,5%,1/10W,TP,1608	1	PC
.....3	2007-000138	R515	R-CHIP	100ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000138	R516	R-CHIP	100ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000138	R518	R-CHIP	100ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000138	R519	R-CHIP	100ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000138	R520	R-CHIP	100ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000138	R539	R-CHIP	100ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000138	R542	R-CHIP	100ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000138	R809	R-CHIP	100ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000140	R538	R-CHIP	1Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000140	R545	R-CHIP	1Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000140	R815	R-CHIP	1Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000140	R901	R-CHIP	1Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000141	R814	R-CHIP	2.2Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R511	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R512	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC

.....3	2007-000143	R513	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R111	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R501	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R502	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R507	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R514	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R521	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R522	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R523	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R524	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R525	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R526	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R527	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R528	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R529	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R534	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R543	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R544	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R807	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R808	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R810	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R813	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R816	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R903	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R904	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000157	R902	R-CHIP	47Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000303	R702	R-CHIP	10Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000385	R724	R-CHIP	14.3Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000455	R712	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000475	R709	R-CHIP	1Mohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000476	R101	R-CHIP	1Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000476	R102	R-CHIP	1Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000476	R103	R-CHIP	1Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000476	R104	R-CHIP	1Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000583	R714	R-CHIP	22Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000614	R112	R-CHIP	24Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000924	R720	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R721	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R722	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000939	R711	R-CHIP	47Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000979	R713	R-CHIP	5.6Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001313	R404	R-CHIP	330ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-001313	R405	R-CHIP	330ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-001313	R406	R-CHIP	330ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-001313	R505	R-CHIP	330ohm,5%,1/16W,TP,1005,T0.35	1	PC

.....3	2007-001313	R811	R-CHIP	330ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-001433	R618	R-CHIP	12Kohm,1%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-007313	R401	R-CHIP	6.8Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007313	R402	R-CHIP	6.8Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007313	R403	R-CHIP	6.8Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007455	R110	R-CHIP	24.9Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-009922	R301	R-CHIP	300Kohm,1%,1/4W,TP,3216,T0.55	1	PC
.....3	2007-009922	R302	R-CHIP	300Kohm,1%,1/4W,TP,3216,T0.55	1	PC
.....3	2007-009922	R303	R-CHIP	300Kohm,1%,1/4W,TP,3216,T0.55	1	PC
.....3	2007-010635	R106	R-CHIP	6.8ohm,1%,1/10W,TP,1608,T0.3	1	PC
.....3	2203-000257	C705	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000257	C801	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000438	C516	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C520	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C901	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000440	C715	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-001071	C519	C-CER,CHIP	0.056nF,5%,50V,COG,TP,1608	1	PC
.....3	2203-001083	C711	C-CER,CHIP	0.005nF,0.1pF,50V,COG,TP,1608	1	PC
.....3	2203-005249	C101	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C103	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C104	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C106	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C510	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C514	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C702	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C710	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C712	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C802	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C803	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C805	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C806	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C807	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C902	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-006158	C401	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C402	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C403	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C517	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C522	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C529	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C530	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C531	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C533	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C809	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006460	C512	C-CER,CHIP	2200nF,10%,16V,X5R,TP,1608	1	PC
.....3	2203-006496	C707	C-CER,CHIP	2.2nF,10%,50V,X7R,TP,1608,T0.9	1	PC

.....3	2203-006960	C708	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1	PC
.....3	2203-007456	C509	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C515	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C518	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C521	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C523	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C526	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C528	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C551	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C552	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007486	C804	C-CER,CHIP	1000nF,10%,50V,X5R,TP,1608	1	PC
.....3	2402-001145	C701	C-AL,SMD	47uF,20%,50V,GP,TP,6.3X7.7mm	1	PC
.....3	2402-001145	CE102	C-AL,SMD	47uF,20%,50V,GP,TP,6.3X7.7mm	1	PC
.....3	2802-001211	X501	RESONATOR-CERAMIC	8MHz,0.5%,TP,3.2x1.3x0.9 mm	1	PC
.....3	DB41-01296A	PCB MAIN	PCB MAIN	FR-4,2Layer,T1.6,120X120,2,STD#5,10z,240X142	1	PC
.....3	DB91-01752A	MIC04	ASSY MICOM	16T RAC AR4500/5500 Inverter (Single/FJM),STM-1546-0A,HART-m310,100MQFP,ROM 256KB	1	PC
.....4	0903-001864	-	IC-MICROCONTROLLER	HART-M310,QFP,100P,20x14mm,8MHz,5V,600mW,-40to+85C,24KB,256KB,MAIN PBA SOC	1	PC
..1	DC26-00043A	TRAN1	TRANS SWITCHING	ECO2020SEO-K01V017,85V-240V,W41xL18,50Hz/60Hz,770uH,5V-25V	1	PC

## 6-4 OUTDOOR INVERTER PCB CODE DB92-04360A

Level	Parts Code	Design Loc	Parts Description	Spec.	Quantity	Unit
..1	0201-001528	COATING	ADHESIVE-SIL	LDC2577D,Y/GRN,175CPS	3	G
..1	0201-001982	ADHESIVE-SIL	ADHESIVE-SIL	TSE3854DS-W,White,2.2,MIL-A-46146B,UL94V-0	0.003	KG
..1	0202-001463	SOLDER-WIRE	SOLDER-WIRE	LFC2-W3.0,D3,99.79Sn/0.2Cu/0.01P,No Flux	5.5	G
..1	0202-001608	SOLDER-WIRE FLUX	SOLDER-WIRE FLUX	LFC7-107,D0.8,99.3Sn/0.7Cu/0.01P,Flux 3.5%	0.5	G
..1	0204-004665	FLUX	FLUX	KSP-70M-S,MIXTURE,NO,FLUX,13%	3.86	G
..1	0402-001299	BD051	DIODE-BRIDGE	TS25P05G,D25XB60,600V,25A,SIP-4,BK	1	PC
..1	1405-000154	VA002	VARISTOR	560V,460VDC,4500A,17.5x7.5mm,BK,920V,600pF,D14	1	PC
..1	1405-000154	VA003	VARISTOR	560V,460VDC,4500A,17.5x7.5mm,BK,920V,600pF,D14	1	PC
..1	2201-002002	C002	C-CERAMIC,DISC	4.7nF,20%,400V,Y5U,16x6mm,10mm	1	PC
..1	2201-002002	C003	C-CERAMIC,DISC	4.7nF,20%,400V,Y5U,16x6mm,10mm	1	PC
..1	2201-002002	C005	C-CERAMIC,DISC	4.7nF,20%,400V,Y5U,16x6mm,10mm	1	PC
..1	2201-002002	C006	C-CERAMIC,DISC	4.7nF,20%,400V,Y5U,16x6mm,10mm	1	PC
..1	2301-001285	C001	C-FILM,LEAD-PPF	680nF,10%,275Vac,BK,31x11x21mm	1	PC
..1	2301-001285	C004	C-FILM,LEAD-PPF	680nF,10%,275Vac,BK,31x11x21mm	1	PC
..1	2301-001992	CRO41	C-FILM,LEAD	1.5,-25to+85C,-,450V,+10~-5,36x16x26.5,CP wire,PP,PBT,S3,	1	PC
..1	2306-000123	C412	C-FILM,LEAD-PPF	100nF,5%,630V,BK,18x17x10mm	1	PC
..1	2401-004267	CE151	C-AL	22uF,20%,500V,TP,16x25mm,7.5mm	1	PC
..1	2401-005163	CE101	C-AL	270uF,20%,400V,BK,25.4x45,10mm	1	PC
..1	2401-005163	CE102	C-AL	270uF,20%,400V,BK,25.4x45,10mm	1	PC
..1	2401-005163	CE103	C-AL	270uF,20%,400V,BK,25.4x45,10mm	1	PC
..1	2702-001127	L161	INDUCTOR-RADIAL	680uH,10%,11.7x22mm	1	PC
..1	2702-001127	L162	INDUCTOR-RADIAL	680uH,10%,11.7x22mm	1	PC
..1	3501-001154	RY022	RELAY-MINIATURE	12V,200mW,3000mA,1FormA,10ms,10ms	1	PC
..1	3501-001154	RY031	RELAY-MINIATURE	12V,200mW,3000mA,1FormA,10ms,10ms	1	PC
..1	3501-001154	RY041	RELAY-MINIATURE	12V,200mW,3000mA,1FormA,10ms,10ms	1	PC
..1	3501-001279	RY021	RELAY-POWER	12V,400mW,16000mA,1FormA,15ms,5ms	1	PC
..1	3601-001538	F001	FUSE-AXIAL LEAD	250V,15A,TIME-LAG,CERAMIC,6.35x31.8mm	1	PC
..1	3711-002001	CNP501	HEADER-BOARD TO CABLE	BOX,20P,2R,2.0mm,STRAIGHT,SN,BLK,5.0X22.0X6.6mm	1	PC
..1	3711-003380	CNP031	HEADER-BOARD TO CABLE	1WALL,2P,1R,7.92MM,ANGLE,SN,WHT	1	PC
..1	3711-007656	CNP401	HEADER-BOARD TO CABLE	BOX,3,1R,6mm,STRAIGHT,WHT	1	PC
..1	3711-007817	CNP551	HEADER-BOARD TO BOARD	3WALL,7P,1R,2mm,STRAIGHT,SN,WHT	1	PC
..1	3712-001047	CNP003	CONNECTOR-TERMINAL	TAB,MALE,N,0.5/4.75mm	1	PC
..1	3712-001139	CNP001	CONNECTOR-TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC
..1	3712-001139	CNP002	CONNECTOR-TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC

..1	3712-001139	CNP051	CONNECTOR- TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC
..1	3712-001139	CNP052	CONNECTOR- TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC
..1	3712-001139	CNP301	CONNECTOR- TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC
..1	4719-003459	PFCIPM401	POWER MODULE	600V,15A,DIP,IFCM15S60GS,24PIN,PFCIPM	1	PC
..1	DB27-00076A	FT001	COIL CHOKE	12mH,10A,26x16,Mn-Zn,4,DIP	1	PC
..1	DB61-05915A	SUPPORT IC	SUPPORT-PCB	XS02,PA66,NC0001,3.2g,NY66	1	PC
..1	DB94-07130A	-	ASSY PCB AUTO	INVERTER,ECO- INVERTER,142x194mm,Y,220- 240V,5V,15V,PF1_12K_18E,DB92-04360A	1	PC
....2	1404-001413	NTC151	THERMISTOR-NTC	18ohm,3A,3200K,19MWC,15mm,TP,17x6mm, RADIAL(DISC)	1	PC
....2	1404-001856	PTC021	THERMISTOR-PTC	47ohm(Typ),270VAC,4A,RADIAL(DISC),0.32A, 18x7mm,TP	1	PC
....2	1405-001239	VA001	VARISTOR	680V,560VDC,6000A,17x10mm,TP,1120V,35 OpF,D14	1	PC
....2	1405-001239	VA151	VARISTOR	680V,560VDC,6000A,17x10mm,TP,1120V,35 OpF,D14	1	PC
....2	2201-000012	C151	C-CERAMIC,DISC	0.22nF,10%,1000V,Y5P,TP,6.3x5mm,5mm	1	PC
....2	2201-000983	C415	C-CERAMIC,DISC	1nF,10%,2000V,Y5P,TP,9x5mm,7.5mm	1	PC
....2	2401-000481	CE160	C-AL	10uF,20%,50V,WT,TP,5x11mm,5mm	1	PC
....2	2401-000481	CE164	C-AL	10uF,20%,50V,WT,TP,5x11mm,5mm	1	PC
....2	2401-001281	CE301	C-AL	4.7uF,20%,50V,WT,TP,5x11,5	1	PC
....2	2401-001838	CE161	C-AL	470uF,20%,25V,WT,TP,10x16mm,5mm	1	PC
....2	2401-001838	CE162	C-AL	470uF,20%,25V,WT,TP,10x16mm,5mm	1	PC
....2	2401-001838	CE163	C-AL	470uF,20%,25V,WT,TP,10x16mm,5mm	1	PC
....2	3601-001600	F151	FUSE-RADIAL LEAD	250V,1.6A,TIME- LAG,Thermoplastic,8.5x8.0mm	1	PC
....2	3711-000012	CNP571	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5MM,STRAIGHT,SN,WHT	1	PC
....2	3711-000015	CNP251	HEADER-BOARD TO CABLE	BOX,2P,1R,2.5mm,STRAIGHT,SN,WHT,5.8X7.4 X7.0mm	1	PC
....2	3711-000262	CNP041	HEADER-BOARD TO CABLE	1WALL,3P,1R,7.92mm,STRAIGHT,SN,WHT,8.5X 19.74X3.2mm	1	PC
....2	4715-001093	DSA001	SURGE ABSORBER	3600V,20%,2000A,-,AXIAL	1	PC
....2	DB94-07131A	-	ASSY PCB SMD	INVERTER,ECO- INVERTER,142x194mm,Y,220- 240V,5V,15V,PF1_12K_18E,DB92-04360A	1	PC
.....3	0202-001933	SOLDER- CREAM	SOLDER-CREAM	LFM-48W TM-HP,D20~38um,96.5Sn/3Ag/0.5 Cu,Flux 12%	7.5	G
.....3	0401-001099	D021	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D022	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D031	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D041	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D163	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D451	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D501	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0402-001427	D061	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	PC

.....3	0402-001472	D161	DIODE-RECTIFIER	ES1J,600V,0.8A,SMA,TP	1	PC
.....3	0402-001472	D162	DIODE-RECTIFIER	ES1J,600V,0.8A,SMA,TP	1	PC
.....3	0402-001795	D051	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D108	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D151	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D152	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D153	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D154	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0403-000461	ZD061	DIODE-ZENER	PTZ18A,16.8-19.1V,1000mW,SOD-106(SMA)1W,TP,18V	1	PC
.....3	0403-000461	ZD062	DIODE-ZENER	PTZ18A,16.8-19.1V,1000mW,SOD-106(SMA)1W,TP,18V	1	PC
.....3	0403-000461	ZD401	DIODE-ZENER	PTZ18A,16.8-19.1V,1000mW,SOD-106(SMA)1W,TP,18V	1	PC
.....3	0501-000465	Q301	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30~300	1	PC
.....3	0506-000175	IC801	TR-ARRAY	2003,NPN,7,1000mW,SOP-16,TP,1000	1	PC
.....3	0601-002423	LED801	LED	SMD(Top View),RED,WATER CLEAR,1.6x1.5mm,3.2x1.6x1.1mm,1,130deg,112/180mcd,-55to+85C,639nm,75mW,-,TP,INDICATOR	1	PC
.....3	0601-002955	LED803	LED	SMD(Top View),YEL,WATER CLEAR,1.6x1.5mm,3.2x1.6x1.1mm,1,130deg,18/60mcd,-55to+85C,588nm,75mW,-,TR,INDICATOR	1	PC
.....3	0601-002956	LED802	LED	SMD(Top View),GRN,WATER CLEAR,1.6x1.5mm,3.2x1.6x1.1mm,1,130deg,18/35mcd,-55to+85C,574nm,75mW,-,TR,INDICATOR	1	PC
.....3	0604-001148	PC301	PHOTO-COUPLER	TR,100-600%,200mW,SMD-4,TP	1	PC
.....3	1003-002940	IC061	IC-GATE DRIVER	SOIC,8P,5.0x4.0x1.75mm,Tape & Reel,13.5/25,-55to+150C	1	PC
.....3	1201-004191	IC451	IC-OP AMP	9064,TSSOP,TP,14P,5x4.4x1.2mm,4,100dB,6V,-40to+125C,103dB,6.5,0.05pA,0.5pA,1.6mV	1	PC
.....3	1202-000104	IC401	IC-VOLTAGE COMP.	393,SOP,8P,150MIL,DUAL,36V,CMOS,PLASTIC,18V,780mW,0to+70C,18V,5mV,250nA,50NA,30	1	PC
.....3	1203-002835	REG152-T	IC-POSI.FIXED REG.	7805,D-PAK/TO252,3P,6.6x6.1mm,PLASTIC,4.8V/5.2V,1.3W,TP	1	PC
.....3	1203-002986	REG151-T	IC-POSI.FIXED REG.	7812,3P,6.6x6.1mm,PLASTIC,11.5/12.5V,1.3,150C,TP	1	PC
.....3	1203-004412	DDC151	IC-PWM CONTROLLER	LNK306GN,SMD-8B,7P,9.57x3.43mm,PLASTIC,-0.3/700V,-40to+150C,360mA,TP	1	PC
.....3	1203-004967	IC502	IC-VOL. DETECTOR	KIA7042AT,TSM,3P,2.9x1.6mm,PLASTIC,4.2V,350mW,-40to+85C,20mA	1	PC
.....3	1404-001152	NTC251	THERMISTOR-NTC	10Kohm,0.0012A,3380K,1MWC,TP,1.6x0.8x0.8mm,SMD	1	PC
.....3	2007-000066	R065	R-CHIP	20Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000066	R417	R-CHIP	20Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000067	R162	R-CHIP	15Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000067	R410	R-CHIP	15Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000219	R163	R-CHIP	1.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000238	R309	R-CHIP	1.5Kohm,1%,1/8W,TP,2012	1	PC
.....3	2007-000238	R310	R-CHIP	1.5Kohm,1%,1/8W,TP,2012	1	PC

.....3	2007-000238	R313	R-CHIP	1.5Kohm,1%,1/8W,TP,2012	1	PC
.....3	2007-000239	R071	R-CHIP	1.5Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000239	R407	R-CHIP	1.5Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R063	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R066	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R401	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R402	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R403	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R404	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R405	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R406	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R413	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000299	R064	R-CHIP	10Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000385	R053	R-CHIP	14.3Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000385	R104	R-CHIP	14.3Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000465	R314	R-CHIP	1Kohm,1%,1/8W,TP,2012	1	PC
.....3	2007-000543	R312	R-CHIP	20Kohm,1%,1/8W,TP,2012	1	PC
.....3	2007-000570	R072	R-CHIP	220ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000669	R161	R-CHIP	2Kohm,1%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000842	R416	R-CHIP	3Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R412	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R414	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000870	R421	R-CHIP	4.7Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000870	R422	R-CHIP	4.7Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000870	R423	R-CHIP	4.7Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R054	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R055	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R056	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R105	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R106	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R107	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000944	R301	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R302	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R303	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R304	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R305	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R306	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R307	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R308	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000962	R411	R-CHIP	5.1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001118	R311	R-CHIP	680ohm,5%,1/8W,TP,2012	1	PC
.....3	2007-001175	R408	R-CHIP	8.2Kohm,1%,1/10W,TP,1608	1	PC

.....3	2007-001723	R062	R-CHIP	15ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002557	R021	R-CHIP	120ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002557	R022	R-CHIP	120ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002557	R023	R-CHIP	120ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002557	R031	R-CHIP	120ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002557	R041	R-CHIP	120ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002768	R801	R-CHIP	6.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-002768	R802	R-CHIP	6.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-002768	R803	R-CHIP	6.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-007135	R085	R-CHIP	18Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R455	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R456	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R469	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R470	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R501	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R504	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R513	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R515	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R516	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R517	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R519	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R520	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R521	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R522	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R523	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R524	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R525	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R526	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R533	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R534	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R538	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R531	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R543	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R544	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R545	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R551	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R552	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R553	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R558	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R415	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R506	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R507	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC

.....3	2007-007306	R508	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R512	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R514	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R530	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R535	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R536	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R540	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R541	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R542	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R546	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R554	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R555	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R556	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R557	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R571	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R573	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R574	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R575	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R576	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R577	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R578	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R579	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R580	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R581	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007312	R461	R-CHIP	20Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007312	R464	R-CHIP	20Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007312	R465	R-CHIP	20Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007312	R468	R-CHIP	20Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007313	R547	R-CHIP	6.8Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007313	R548	R-CHIP	6.8Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R502	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R503	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R505	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R510	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R528	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R529	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R572	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007528	R083	R-CHIP	1.5Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007528	R084	R-CHIP	1.5Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007698	R253	R-CHIP	5.1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007766	R086	R-CHIP	2Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007766	R451	R-CHIP	2Kohm,1%,1/16W,TP,1005,T0.35	1	PC

.....3	2007-007766	R452	R-CHIP	2Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007766	R527	R-CHIP	2Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007942	R532	R-CHIP	1Mohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008023	R101	R-CHIP	100Kohm,5%,1W,TP,6432	1	PC
.....3	2007-008023	R102	R-CHIP	100Kohm,5%,1W,TP,6432	1	PC
.....3	2007-008023	R103	R-CHIP	100Kohm,5%,1W,TP,6432	1	PC
.....3	2007-008137	R251	R-CHIP	24Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008175	R252	R-CHIP	330ohm,1%,1/16W,TP,1005	1	PC
.....3	2007-008175	R254	R-CHIP	330ohm,1%,1/16W,TP,1005	1	PC
.....3	2007-008263	R462	R-CHIP	3Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008263	R463	R-CHIP	3Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008263	R466	R-CHIP	3Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008263	R467	R-CHIP	3Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008275	R081	R-CHIP	30Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008275	R082	R-CHIP	30Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008275	R453	R-CHIP	30Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008275	R454	R-CHIP	30Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008779	R418	R-CHIP	0ohm,1%,1/16W,TP,1005	1	PC
.....3	2007-010245	R051-T	R-CHIP	0.01ohm,1%,2W,TP,6432	1	PC
.....3	2007-010245	R052-T	R-CHIP	0.01ohm,1%,2W,TP,6432	1	PC
.....3	2007-010245	R424-T	R-CHIP	0.01ohm,1%,2W,TP,6432	1	PC
.....3	2007-010245	R425-T	R-CHIP	0.01ohm,1%,2W,TP,6432	1	PC
.....3	2007-010305	R061	R-CHIP	5.1ohm,1%,1/4W,TP,3216,T0.6	1	PC
.....3	2203-000233	C420	C-CER,CHIP	0.1nF,5%,50V,COG,TP,1005,T0.5	1	PC
.....3	2203-000257	C071	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000260	C311	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012	1	PC
.....3	2203-000260	C312	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012	1	PC
.....3	2203-000438	C502	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C503	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C504	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C505	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C506	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C507	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C511	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C516	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C522	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000440	C061	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C062	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C064	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C404	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C405	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C406	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC

.....3	2203-000440	C407	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C408	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C409	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C410	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C417	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000812	C513	C-CER,CHIP	0.033nF,5%,50V,COG,TP,1005	1	PC
.....3	2203-005135	C413	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005135	C414	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005249	C063	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C161	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C162	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C163	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C164	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C401	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C402	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C403	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C411	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C416	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C418	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C419	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C801	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-006158	C251	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C252	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C501	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C508	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C509	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C512	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C514	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C519	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C520	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C521	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006960	C301	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1	PC
.....3	2203-007392	C515	C-CER,CHIP	2200nF,10%,16V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C518	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007544	C081	C-CER,CHIP	100nF,10%,50V,X7R,TP,1005,T0.5	1	PC
.....3	2203-007544	C451	C-CER,CHIP	100nF,10%,50V,X7R,TP,1005,T0.5	1	PC
.....3	2203-007544	C452	C-CER,CHIP	100nF,10%,50V,X7R,TP,1005,T0.5	1	PC
.....3	2203-007544	C454	C-CER,CHIP	100nF,10%,50V,X7R,TP,1005,T0.5	1	PC
.....3	2203-007809	C517	C-CER,CHIP	22nF,10%,50V,X7R,TP,1005,T0.5	1	PC
.....3	2402-001183	CE451	C-AL,SMD	22uF,20%,16V,WT,TP,5.3X5.3X6MM	1	PC
.....3	2402-001368	CE061	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2402-001368	CE062	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC

.....3	2402-001368	CE401	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2402-001368	CE402	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2402-001368	CE403	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2402-001368	CE404	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2402-001368	CE405	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2802-001211	X501	RESONATOR- CERAMIC	8MHz,0.5%,TP,3.2x1.3x0.9 mm	1	PC
.....3	DB41-01380A	PCB INVERTER	PCB INVERTER	FR-4,2L,T1.6,142x194mm,2,PF1_18E,20z,28 5x194mm	1	PC
.....3	DB91-02069A	MIC501	ASSY MICOM	18E_PFO / PF1(RAC_HP),STM-1823-OA,HART- i910z,64LQFP,ROM 128KB	1	PC
.....4	0903-002197	-	IC- MICROCONTROLLER	HART-I910Z,LQFP,64P,12x12mm,8MHz,TR,5V,600 mW,-40to+85C,12KB,128KB,Inverter SOC	1	PC

## 6-6 OUTDOOR INVERTER PCB CODE DB92-04360C

Level	Parts Code	Design Loc	Parts Description	Spec.	Quantity	Unit
..1	0201-001528	COATING	ADHESIVE-SIL	LDC2577D,Y/GRN,175CPS	3	G
..1	0201-001982	ADHESIVE-SIL	ADHESIVE-SIL	TSE3854DS-W,White,2.2,MIL-A-46146B,UL94V-0	0.003	KG
..1	0202-001463	SOLDER-WIRE	SOLDER-WIRE	LFC2-W3.0,D3,99.79Sn/0.2Cu/0.01P,No Flux	5.5	G
..1	0202-001608	SOLDER-WIRE FLUX	SOLDER-WIRE FLUX	LFC7-107,D0.8,99.3Sn/0.7Cu/0.01P,Flux 3.5%	0.5	G
..1	0204-004665	FLUX	FLUX	KSP-70M-S,MIXTURE,NO,FLUX,13%	3.86	G
..1	0402-001299	BD051	DIODE-BRIDGE	TS25P05G,D25XB60,600V,25A,SIP-4,BK	1	PC
..1	1405-000154	VA002	VARISTOR	560V,460VDC,4500A,17.5x7.5mm,BK,920V,600pF,D14	1	PC
..1	1405-000154	VA003	VARISTOR	560V,460VDC,4500A,17.5x7.5mm,BK,920V,600pF,D14	1	PC
..1	2201-002002	C002	C-CERAMIC,DISC	4.7nF,20%,400V,Y5U,16x6mm,10mm	1	PC
..1	2201-002002	C003	C-CERAMIC,DISC	4.7nF,20%,400V,Y5U,16x6mm,10mm	1	PC
..1	2201-002002	C005	C-CERAMIC,DISC	4.7nF,20%,400V,Y5U,16x6mm,10mm	1	PC
..1	2201-002002	C006	C-CERAMIC,DISC	4.7nF,20%,400V,Y5U,16x6mm,10mm	1	PC
..1	2301-001285	C001	C-FILM,LEAD-PPF	680nF,10%,275Vac,BK,31x11x21mm	1	PC
..1	2301-001285	C004	C-FILM,LEAD-PPF	680nF,10%,275Vac,BK,31x11x21mm	1	PC
..1	2306-000123	C412	C-FILM,LEAD-PPF	100nF,5%,630V,BK,18x17x10mm	1	PC
..1	2401-004267	CE151	C-AL	22uF,20%,500V,TP,16x25mm,7.5mm	1	PC
..1	2401-004874	CE101	C-AL	330uF,20%,400V,BK,25.4x50mm,10mm	1	PC
..1	2401-004874	CE102	C-AL	330uF,20%,400V,BK,25.4x50mm,10mm	1	PC
..1	2401-004874	CE103	C-AL	330uF,20%,400V,BK,25.4x50mm,10mm	1	PC
..1	2504-000016	CR042	C-MOTOR RUN-BOX	2.5,450V,5%,PP,S3	1	PC
..1	2702-001127	L161	INDUCTOR-RADIAL	680uH,10%,11.7x22mm	1	PC
..1	2702-001127	L162	INDUCTOR-RADIAL	680uH,10%,11.7x22mm	1	PC
..1	3501-001154	RY022	RELAY-MINIATURE	12V,200mW,3000mA,1FormA,10ms,10ms	1	PC
..1	3501-001154	RY031	RELAY-MINIATURE	12V,200mW,3000mA,1FormA,10ms,10ms	1	PC
..1	3501-001154	RY041	RELAY-MINIATURE	12V,200mW,3000mA,1FormA,10ms,10ms	1	PC
..1	3501-001279	RY021	RELAY-POWER	12V,400mW,16000mA,1FormA,15ms,5ms	1	PC
..1	3601-001538	F001	FUSE-AXIAL LEAD	250V,15A,TIME-LAG,CERAMIC,6.35x31.8mm	1	PC
..1	3711-002001	CNP501	HEADER-BOARD TO CABLE	BOX,20P,2R,2.0mm,STRAIGHT,SN,BLK,5.0X22.0X6.6mm	1	PC
..1	3711-003380	CNP031	HEADER-BOARD TO CABLE	1WALL,2P,1R,7.92MM,ANGLE,SN,WHT	1	PC
..1	3711-007656	CNP401	HEADER-BOARD TO CABLE	BOX,3,1R,6mm,STRAIGHT,WHT	1	PC
..1	3711-007817	CNP551	HEADER-BOARD TO BOARD	3WALL,7P,1R,2mm,STRAIGHT,SN,WHT	1	PC
..1	3712-001047	CNP003	CONNECTOR-TERMINAL	TAB,MALE,N,0.5/4.75mm	1	PC
..1	3712-001139	CNP001	CONNECTOR-TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC
..1	3712-001139	CNP002	CONNECTOR-TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC

..1	3712-001139	CNP051	CONNECTOR-TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC
..1	3712-001139	CNP052	CONNECTOR-TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC
..1	3712-001139	CNP301	CONNECTOR-TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC
..1	4719-003459	PFCIPM401	POWER MODULE	600V,15A,DIP,IFCM15S60GS,24PIN,PFCIPM	1	PC
..1	DB27-00097A	FT002	COIL CHOKE	3.5mH,15A,37.5*40*26,26x21,Mn-Zn,4,DIP	1	PC
..1	DB61-05915A	SUPPORT IC	SUPPORT-PCB	XS02,PA66,NC0001,3.2g,NY66	1	PC
..1	DB94-07139A	-	ASSY PCB AUTO	INVERTER,ECO-INVERTER,142x194mm,Y,220-240V,5V,15V,PF1_18E_CAPLESS,DB92-04360C	1	PC
....2	1404-001413	NTC151	THERMISTOR-NTC	18ohm,3A,3200K,19MWC,15mm,TP,17x6mm,RADIAL(DISC)	1	PC
....2	1404-001856	PTC021	THERMISTOR-PTC	47ohm(Typ),270VAC,4A,RADIAL(DISC),0.32A,18x7mm,TP	1	PC
....2	1405-001239	VA001	VARISTOR	680V,560VDC,6000A,17x10mm,TP,1120V,35OpF,D14	1	PC
....2	1405-001239	VA151	VARISTOR	680V,560VDC,6000A,17x10mm,TP,1120V,35OpF,D14	1	PC
....2	2201-000012	C151	C-CERAMIC,DISC	0.22nF,10%,1000V,Y5P,TP,6.3x5mm,5mm	1	PC
....2	2201-000983	C415	C-CERAMIC,DISC	1nF,10%,2000V,Y5P,TP,9x5mm,7.5mm	1	PC
....2	2401-000481	CE160	C-AL	10uF,20%,50V,WT,TP,5x11mm,5mm	1	PC
....2	2401-000481	CE164	C-AL	10uF,20%,50V,WT,TP,5x11mm,5mm	1	PC
....2	2401-001281	CE301	C-AL	4.7uF,20%,50V,WT,TP,5x11,5	1	PC
....2	2401-001838	CE161	C-AL	470uF,20%,25V,WT,TP,10x16mm,5mm	1	PC
....2	2401-001838	CE162	C-AL	470uF,20%,25V,WT,TP,10x16mm,5mm	1	PC
....2	2401-001838	CE163	C-AL	470uF,20%,25V,WT,TP,10x16mm,5mm	1	PC
....2	3601-001600	F151	FUSE-RADIAL LEAD	250V,1.6A,TIME-LAG,Thermoplastic,8.5x8.0mm	1	PC
....2	3711-000012	CNP571	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5MM,STRAIGHT,SN,WHT	1	PC
....2	3711-000015	CNP251	HEADER-BOARD TO CABLE	BOX,2P,1R,2.5mm,STRAIGHT,SN,WHT,5.8X7.4X7.0mm	1	PC
....2	3711-000262	CNP041	HEADER-BOARD TO CABLE	1WALL,3P,1R,7.92mm,STRAIGHT,SN,WHT,8.5X19.74X3.2mm	1	PC
....2	4715-001093	DSA001	SURGE ABSORBER	3600V,20%,2000A,-,AXIAL	1	PC
....2	DB94-07140A	-	ASSY PCB SMD	INVERTER,ECO-INVERTER,142x194mm,Y,220-240V,5V,15V,PF1_18E_CAPLESS,DB92-04360C	1	PC
.....3	0202-001933	SOLDER-CREAM	SOLDER-CREAM	LFM-48W TM-HP,D20~38um,96.5Sn/3Ag/0.5Cu,Flux 12%	7.5	G
.....3	0401-001099	D021	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D022	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D031	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D041	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D163	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D451	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC

.....3	0401-001099	D501	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0402-001427	D061	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	PC
.....3	0402-001472	D161	DIODE-RECTIFIER	ES1J,600V,0.8A,SMA,TP	1	PC
.....3	0402-001472	D162	DIODE-RECTIFIER	ES1J,600V,0.8A,SMA,TP	1	PC
.....3	0402-001795	D051	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D108	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D151	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D152	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D153	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D154	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0403-000461	ZD061	DIODE-ZENER	PTZ18A,16.8-19.1V,1000mW,SOD-106(SMA)1W,TP,18V	1	PC
.....3	0403-000461	ZD062	DIODE-ZENER	PTZ18A,16.8-19.1V,1000mW,SOD-106(SMA)1W,TP,18V	1	PC
.....3	0403-000461	ZD401	DIODE-ZENER	PTZ18A,16.8-19.1V,1000mW,SOD-106(SMA)1W,TP,18V	1	PC
.....3	0501-000465	Q301	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30~300	1	PC
.....3	0506-000175	IC801	TR-ARRAY	2003,NPN,7,1000mW,SOP-16,TP,1000	1	PC
.....3	0601-002423	LED801	LED	SMD(Top View),RED,WATER CLEAR,1.6x1.5mm,3.2x1.6x1.1mm,1,130deg,112/180mcd,-55to+85C,639nm,75mW,-,TP,INDICATOR	1	PC
.....3	0601-002955	LED803	LED	SMD(Top View),YEL,WATER CLEAR,1.6x1.5mm,3.2x1.6x1.1mm,1,130deg,18/60mcd,-55to+85C,588nm,75mW,-,TR,INDICATOR	1	PC
.....3	0601-002956	LED802	LED	SMD(Top View),GRN,WATER CLEAR,1.6x1.5mm,3.2x1.6x1.1mm,1,130deg,18/35mcd,-55to+85C,574nm,75mW,-,TR,INDICATOR	1	PC
.....3	0604-001148	PC301	PHOTO-COUPLER	TR,100-600%,200mW,SMD-4,TP	1	PC
.....3	1003-002940	IC061	IC-GATE DRIVER	SOIC,8P,5.0x4.0x1.75mm,Tape & Reel,13.5/25,-55to+150C	1	PC
.....3	1201-004191	IC451	IC-OP AMP	9064,TSSOPTP,14P,5x4.4x1.2mm,4,100dB,6V,-40to+125C,103dB,6.5,0.05pA,0.5pA,1.6mV	1	PC
.....3	1202-000104	IC401	IC-VOLTAGE COMP.	393,SOP,8P,150MIL,DUAL,36V,CMOS,PLASTIC,18V,780mW,0to+70C,18V,5mV,250nA,50NA,30	1	PC
.....3	1203-002835	REG152-T	IC-POSI.FIXED REG.	7805,D-PAK/TO252,3P,6.6x6.1mm,PLASTIC,4.8V/5.2V,1.3W,TP	1	PC
.....3	1203-002986	REG151-T	IC-POSI.FIXED REG.	7812,3P,6.6x6.1mm,PLASTIC,11.5/12.5V,1.3,150C,TP	1	PC
.....3	1203-004412	DDC151	IC-PWM CONTROLLER	LNK306GN,SMD-8B,7P,9.57x3.43mm,PLASTIC,-0.3/700V,-40to+150C,360mA,TP	1	PC
.....3	1203-004967	IC502	IC-VOL. DETECTOR	KIA7042AT,TSM,3P,2.9x1.6mm,PLASTIC,4.2V,350mW,-40to+85C,20mA	1	PC
.....3	1404-001152	NTC251	THERMISTOR-NTC	10Kohm,0.0012A,3380K,1MWC,TP,1.6x0.8x0.8mm,SMD	1	PC
.....3	2007-000066	R065	R-CHIP	20Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000066	R417	R-CHIP	20Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000067	R162	R-CHIP	15Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000067	R410	R-CHIP	15Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000219	R163	R-CHIP	1.2Kohm,1%,1/10W,TP,1608	1	PC

.....3	2007-000238	R309	R-CHIP	1.5Kohm,1%,1/8W,TP,2012	1	PC
.....3	2007-000238	R310	R-CHIP	1.5Kohm,1%,1/8W,TP,2012	1	PC
.....3	2007-000238	R313	R-CHIP	1.5Kohm,1%,1/8W,TP,2012	1	PC
.....3	2007-000239	R071	R-CHIP	1.5Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000239	R407	R-CHIP	1.5Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R063	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R066	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R401	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R402	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R403	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R404	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R405	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R406	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R413	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000299	R064	R-CHIP	10Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000385	R053	R-CHIP	14.3Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000385	R104	R-CHIP	14.3Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000465	R314	R-CHIP	1Kohm,1%,1/8W,TP,2012	1	PC
.....3	2007-000543	R312	R-CHIP	20Kohm,1%,1/8W,TP,2012	1	PC
.....3	2007-000570	R072	R-CHIP	220ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000669	R161	R-CHIP	2Kohm,1%,1/10W,TP,1608,TO.45	1	PC
.....3	2007-000842	R416	R-CHIP	3Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R412	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R414	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000870	R421	R-CHIP	4.7Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000870	R422	R-CHIP	4.7Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000870	R423	R-CHIP	4.7Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R054	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R055	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R056	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R105	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R106	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R107	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000944	R301	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R302	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R303	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R304	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R305	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R306	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R307	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000944	R308	R-CHIP	47Kohm,5%,1/4W,TP,3216	1	PC
.....3	2007-000962	R411	R-CHIP	5.1Kohm,1%,1/10W,TP,1608	1	PC

.....3	2007-001118	R311	R-CHIP	680ohm,5%,1/8W,TP,2012	1	PC
.....3	2007-001175	R408	R-CHIP	8.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001723	R062	R-CHIP	15ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002557	R021	R-CHIP	120ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002557	R022	R-CHIP	120ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002557	R023	R-CHIP	120ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002557	R031	R-CHIP	120ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002557	R041	R-CHIP	120ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002768	R801	R-CHIP	6.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-002768	R802	R-CHIP	6.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-002768	R803	R-CHIP	6.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-007135	R085	R-CHIP	18Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R455	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R456	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R469	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R470	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R501	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R504	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R513	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R515	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R516	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R517	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R519	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R520	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R521	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R522	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R523	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R524	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R525	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R526	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R533	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R534	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007136	R538	R-CHIP	4.7Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R531	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R543	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R544	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R545	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R551	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R552	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R553	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007142	R558	R-CHIP	10Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R415	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC

.....3	2007-007306	R506	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R507	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R508	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R512	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R514	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R530	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R535	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R536	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R540	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R541	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R542	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R546	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R554	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R555	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R556	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R557	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R571	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R573	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R574	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R575	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R576	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R577	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R578	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R579	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R580	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R581	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007312	R461	R-CHIP	20Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007312	R464	R-CHIP	20Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007312	R465	R-CHIP	20Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007312	R468	R-CHIP	20Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007313	R547	R-CHIP	6.8Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007313	R548	R-CHIP	6.8Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R502	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R503	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R505	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R510	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R528	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R529	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R572	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007528	R083	R-CHIP	1.5Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007528	R084	R-CHIP	1.5Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007698	R253	R-CHIP	5.1Kohm,1%,1/16W,TP,1005,T0.35	1	PC

.....3	2007-007766	R086	R-CHIP	2Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007766	R451	R-CHIP	2Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007766	R452	R-CHIP	2Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007766	R527	R-CHIP	2Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007942	R532	R-CHIP	1Mohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008023	R101	R-CHIP	100Kohm,5%,1W,TP,6432	1	PC
.....3	2007-008023	R102	R-CHIP	100Kohm,5%,1W,TP,6432	1	PC
.....3	2007-008023	R103	R-CHIP	100Kohm,5%,1W,TP,6432	1	PC
.....3	2007-008137	R251	R-CHIP	24Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008175	R252	R-CHIP	330ohm,1%,1/16W,TP,1005	1	PC
.....3	2007-008175	R254	R-CHIP	330ohm,1%,1/16W,TP,1005	1	PC
.....3	2007-008263	R462	R-CHIP	3Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008263	R463	R-CHIP	3Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008263	R466	R-CHIP	3Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008263	R467	R-CHIP	3Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008275	R081	R-CHIP	30Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008275	R082	R-CHIP	30Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008275	R453	R-CHIP	30Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008275	R454	R-CHIP	30Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-008779	R418	R-CHIP	0ohm,1%,1/16W,TP,1005	1	PC
.....3	2007-010245	R051-T	R-CHIP	0.01ohm,1%,2W,TP,6432	1	PC
.....3	2007-010245	R052-T	R-CHIP	0.01ohm,1%,2W,TP,6432	1	PC
.....3	2007-010245	R424-T	R-CHIP	0.01ohm,1%,2W,TP,6432	1	PC
.....3	2007-010245	R425-T	R-CHIP	0.01ohm,1%,2W,TP,6432	1	PC
.....3	2007-010305	R061	R-CHIP	5.1ohm,1%,1/4W,TP,3216,T0.6	1	PC
.....3	2203-000233	C420	C-CER,CHIP	0.1nF,5%,50V,COG,TP,1005,T0.5	1	PC
.....3	2203-000257	C071	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000260	C311	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012	1	PC
.....3	2203-000260	C312	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012	1	PC
.....3	2203-000438	C502	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C503	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C504	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C505	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C506	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C507	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C511	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C516	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C522	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000440	C061	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C062	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C064	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C404	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC

.....3	2203-000440	C405	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C406	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C407	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C408	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C409	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C410	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C417	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000812	C513	C-CER,CHIP	0.033nF,5%,50V,COG,TP,1005	1	PC
.....3	2203-005135	C413	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005135	C414	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005249	C063	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C161	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C162	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C163	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C164	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C401	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C402	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C403	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C411	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C416	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C418	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C419	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C801	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-006158	C251	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C252	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C501	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C508	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C509	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C512	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C514	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C519	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C520	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C521	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006960	C301	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1	PC
.....3	2203-007392	C515	C-CER,CHIP	2200nF,10%,16V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C518	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007544	C081	C-CER,CHIP	100nF,10%,50V,X7R,TP,1005,T0.5	1	PC
.....3	2203-007544	C451	C-CER,CHIP	100nF,10%,50V,X7R,TP,1005,T0.5	1	PC
.....3	2203-007544	C452	C-CER,CHIP	100nF,10%,50V,X7R,TP,1005,T0.5	1	PC
.....3	2203-007544	C454	C-CER,CHIP	100nF,10%,50V,X7R,TP,1005,T0.5	1	PC
.....3	2203-007809	C517	C-CER,CHIP	22nF,10%,50V,X7R,TP,1005,T0.5	1	PC
.....3	2402-001183	CE451	C-AL,SMD	22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	PC

.....3	2402-001368	CE061	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2402-001368	CE062	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2402-001368	CE401	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2402-001368	CE402	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2402-001368	CE403	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2402-001368	CE404	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2402-001368	CE405	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2802-001211	X501	RESONATOR- CERAMIC	8MHz,0.5%,TP,3.2x1.3x0.9 mm	1	PC
.....3	DB41-01380A	PCB INVERTER	PCB INVERTER	FR-4,2L,T1.6,142x194mm,2,PF1_18E,20z,28 5x194mm	1	PC
.....3	DB91-02069A	MIC501	ASSY MICOM	18E_PFO / PF1(RAC_HP),STM-1823-OA,HART- i910z,64LQFP,ROM 128KB	1	PC
.....4	0903-002197	-	IC- MICROCONTROLLER	HART-I910Z,LQFP,64P,12x12mm,8MHz,TR,5V,600 mW,-40to+85C,12KB,128KB,Inverter SOC	1	PC

## 6-6 OUTDOOR INVERTER PCB CODE DB92-04025C

Level	Parts Code	Design Loc	Parts Description	Spec.	Quantity	Unit
..1	0201-001528	COATING	ADHESIVE-SIL	LDC2577D,Y/GRN,175CPS	1	G
..1	0202-001463	SOLDER-WIRE	SOLDER-WIRE	LFC2-W3.0,D3,99.79Sn/0.2Cu/0.01P,No Flux	10	G
..1	0202-001608	SOLDER-WIRE FLUX	SOLDER-WIRE FLUX	LFC7-107,D0.8,99.3Sn/0.7Cu/0.01P,Flux 3.5%	0.2	G
..1	0204-004665	FLUX	FLUX	KSP-70M-S,MIXTURE,NO,FLUX,13%	2	G
..1	0204-005754	COATING	COATING	SL 1301 ECO,55±5s,colorless	0.004	PC
..1	0402-000324	BD151	DIODE-BRIDGE	D3SB60,600V,4A,SIP-4,ST	1	PC
..1	1203-002722	IC181	IC-POSI.FIXED REG.	KA78R15,TO-220,4P,10x15mm,PLASTIC,14.6 /15.4V,1.5W,-20to+80C,ST	1	PC
..1	1404-001413	NTC151	THERMISTOR-NTC	18ohm,3A,3200K,19MWC,15mm,TP,17x6mm, RADIAL(DISC)	1	PC
..1	1405-000154	VA002	VARISTOR	560V,460VDC,4500A,17.5x7.5mm,BK,920V,6 00pF,D14	1	PC
..1	1405-000154	VA003	VARISTOR	560V,460VDC,4500A,17.5x7.5mm,BK,920V,6 00pF,D14	1	PC
..1	1405-001239	VA001	VARISTOR	680V,560VDC,6000A,17x10mm,TP,1120V,35 0pF,D14	1	PC
..1	1405-001239	VA151	VARISTOR	680V,560VDC,6000A,17x10mm,TP,1120V,35 0pF,D14	1	PC
..1	2201-000540	C055	C-CERAMIC,DISC	4.7nF,20%,2000V,Y5P,BK,16x5mm,10mm	1	PC
..1	2201-002002	C002	C-CERAMIC,DISC	4.7nF,20%,400V,Y5U,16x6mm,10mm	1	PC
..1	2201-002002	C003	C-CERAMIC,DISC	4.7nF,20%,400V,Y5U,16x6mm,10mm	1	PC
..1	2201-002002	C004	C-CERAMIC,DISC	4.7nF,20%,400V,Y5U,16x6mm,10mm	1	PC
..1	2201-002002	C005	C-CERAMIC,DISC	4.7nF,20%,400V,Y5U,16x6mm,10mm	1	PC
..1	2301-001285	C001	C-FILM,LEAD-PPF	680nF,10%,275Vac,BK,31x11x21mm	1	PC
..1	2301-001285	C006	C-FILM,LEAD-PPF	680nF,10%,275Vac,BK,31x11x21mm	1	PC
..1	2306-000123	C413	C-FILM,LEAD-PPF	100nF,5%,630V,BK,18x17x10mm	1	PC
..1	2401-004267	CE151	C-AL	22uF,20%,500V,TP,16x25mm,7.5mm	1	PC
..1	2401-004874	CE101	C-AL	330uF,20%,400V,BK,25.4x50mm,10mm	1	PC
..1	2401-004874	CE102	C-AL	330uF,20%,400V,BK,25.4x50mm,10mm	1	PC
..1	2401-004874	CE103	C-AL	330uF,20%,400V,BK,25.4x50mm,10mm	1	PC
..1	3501-001154	RY022	RELAY-MINIATURE	12V,200mW,3000mA,1FormA,10ms,10ms	1	PC
..1	3501-001154	RY031	RELAY-MINIATURE	12V,200mW,3000mA,1FormA,10ms,10ms	1	PC
..1	3501-001279	RY021	RELAY-POWER	12V,400mW,16000mA,1FormA,15ms,5ms	1	PC
..1	3601-001537	F001	FUSE-AXIAL LEAD	250V,20A,TIME-LAG,CERAMIC,6.35x31.8mm	1	PC
..1	3711-000012	CNP552	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5MM,STRAIGHT,SN,WHT	1	PC
..1	3711-000296	CNP901	HEADER-BOARD TO CABLE	1WALL,6P,1R,3.96MM,STRAIGHT,SN,WHT	1	PC
..1	3711-001084	CN351	HEADER-BOARD TO CABLE	BOX,8P,1R,2.5mm,STRAIGHT,SN,WHT,5.8x22. 4x7	1	PC
..1	3711-002001	CN230	HEADER-BOARD TO CABLE	BOX,20P,2R,2.0mm,STRAIGHT,SN,BLK,5.0X22. 0X6.6mm	1	PC
..1	3711-003380	CNP031	HEADER-BOARD TO CABLE	1WALL,2P,1R,7.92MM,ANGLE,SN,WHT	1	PC
..1	3711-003873	CNP361	HEADER-BOARD TO CABLE	BOX,7P,1R,2mm,STRAIGHT,SN,WHT,5.1x15.98 x11.2mm	1	PC

..1	3711-007656	CNP401	HEADER-BOARD TO CABLE	BOX,3,1R,6mm,STRAIGHT,WHT	1	PC
..1	3712-001047	CNP003	CONNECTOR- TERMINAL	TAB,MALE,N,0.5/4.75mm	1	PC
..1	3712-001139	CNP001	CONNECTOR- TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC
..1	3712-001139	CNP002	CONNECTOR- TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC
..1	3712-001139	CNP051	CONNECTOR- TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC
..1	3712-001139	CNP052	CONNECTOR- TERMINAL	TAB,MALE,6.35x0.8mm,BRASS,SN	1	PC
..1	4719-002484	IPM400	POWER MODULE	600V,15A,DIP,FNA41560B5,26,IPM	1	PC
..1	4719-003043	PFCM050	POWER MODULE	600V,20A,DIP,FBA42060B5,26PIN,PFCM	1	PC
..1	DB26-00143A	T151	TRANS SWITCHING	85~265V,5V, 12V, 17V,850uH,15W	1	PC
..1	DB27-00097A	FT001	COIL CHOKE	3.5mH,15A,37.5*40*26,26x21,Mn-Zn,4,DIP	1	PC
..1	DB94-07248A		ASSY PCB AUTO	INVERTER,PF2_17S,142mmX194mm,Y,220V- 240V,5V,12V,15V,16W,48COMM,OUTDOOR,S AFETY,DB92-04025C	1	PC
....2	1404-001856	PT020	THERMISTOR-PTC	47ohm(Typ),270VAC,4A,RADIAL(DISC),0.32A, 18x7mm,TP	1	PC
....2	2201-000285	C152	C-CERAMIC,DISC	1nF,10%,1000V,Y5P,TP,8x5mm,5mm	1	PC
....2	2201-002335	C154	C-CERAMIC,DISC	0.068nF,10%,2000V,SL,TP,8x5mm,5mm	1	PC
....2	2201-002427	C904	C-CERAMIC,DISC	2.2nF,10%,2000V,Y5P,TP,12.5x5mm,7.5mm	1	PC
....2	2201-002688	C155	C-CERAMIC,DISC	2.2nF,20%,400Vac,Y5U,TP,12.5x7mm,10mm	1	PC
....2	2201-002688	C156	C-CERAMIC,DISC	2.2nF,20%,400Vac,Y5U,TP,12.5x7mm,10mm	1	PC
....2	2401-000481	CE152	C-AL	10uF,20%,50V,WT,TP,5x11mm,5mm	1	PC
....2	2401-001838	CE161	C-AL	470uF,20%,25V,WT,TP,10x16mm,5mm	1	PC
....2	2401-001838	CE162	C-AL	470uF,20%,25V,WT,TP,10x16mm,5mm	1	PC
....2	2401-003069	CE170	C-AL	470uF,20%,50V,WT,TP,10x20mm,5	1	PC
....2	2401-003139	CE175	C-AL	1000uF,20%,25V,WT,TP,10x20mm,5mm	1	PC
....2	2401-003224	CE163	C-AL	470uF,20%,16V,WT,TP,8x11.5mm,5mm	1	PC
....2	2401-003395	CE901	C-AL	47uF,20%,50V,LZ,TP,6.3x11mm,5mm	1	PC
....2	2401-003585	CE902	C-AL	220uF,20%,35V,WT,TP,8x11.5mm,5mm	1	PC
....2	2401-006176	CE174	C-AL	470uF,20%,25V,LZ,TP,10x12.5mm,5mm	1	PC
....2	3601-001674	FH151	FUSE-RADIAL LEAD	250V,2.5A,TIME-LAG,4.3x8.4x7.6mm	1	PC
....2	4715-001093	DSA001	SURGE ABSORBER	3600V,20%,2000A,-,AXIAL	1	PC
....2	DB94-07249A		ASSY PCB SMD	INVERTER,PF2_17S,142mmX194mm,Y,220V- 240V,5V,12V,15V,16W,48COMM,OUTDOOR,S AFETY,DB92-04025C	1	PC
.....3	0202-001933	SOLDER- CREAM	SOLDER-CREAM	LFM-48W TM-HP,D20~38um,96.5Sn/3Ag/0.5 Cu,Flux 12%	1	G
.....3	0401-000132	AD901	DIODE-SWITCHING	BAV99,75V,50mA,SOT-23,TP	1	PC
.....3	0401-001099	D021	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D022	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D031	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC

.....3	0401-001099	D161	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D162	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D454	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0401-001099	D501	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	1	PC
.....3	0402-001192	D170	DIODE-RECTIFIER	ES2D,200V,2A,SMB,TP	1	PC
.....3	0402-001427	D152	DIODE-RECTIFIER	ES1D,200V,1A,DO-214AC,TP	1	PC
.....3	0402-001669	D173	DIODE-RECTIFIER	ES3D,200V,3A,DO-214AB(SMC),TP	1	PC
.....3	0402-001741	D151	DIODE-RECTIFIER	S1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D052	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0402-001795	D903	DIODE-RECTIFIER	US1M,1000V,1A,SMA,TP	1	PC
.....3	0403-001003	ZD051	DIODE-ZENER	PTZ20B,20-22.4V,1000MW,PSM,TP	1	PC
.....3	0403-001003	ZD401	DIODE-ZENER	PTZ20B,20-22.4V,1000MW,PSM,TP	1	PC
.....3	0501-000465	Q032	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30~300	1	PC
.....3	0501-000465	Q902	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30~300	1	PC
.....3	0501-000467	Q181	TR-SMALL SIGNAL	MMBT3906,PNP,350mW,SOT-23,TP,30~300	1	PC
.....3	0501-000467	Q351	TR-SMALL SIGNAL	MMBT3906,PNP,350mW,SOT-23,TP,30~300	1	PC
.....3	0501-000467	Q352	TR-SMALL SIGNAL	MMBT3906,PNP,350mW,SOT-23,TP,30~300	1	PC
.....3	0501-000467	Q901	TR-SMALL SIGNAL	MMBT3906,PNP,350mW,SOT-23,TP,30~300	1	PC
.....3	0501-000467	Q903	TR-SMALL SIGNAL	MMBT3906,PNP,350mW,SOT-23,TP,30~300	1	PC
.....3	0505-003681	IC153	FET-SILICON	A0N7264E,N,60V,28A,27.5W,DFN 3x3 EP	1	PC
.....3	0506-000175	IC801	TR-ARRAY	2003,NPN,7,1000mW,SOP-16,TP,1000	1	PC
.....3	0601-002956	LED802	LED	SMD(Top View),GRN,WATER CLEAR,1.6x1.5mm,3.2x1.6x1.1mm,1,130deg,18/35mcd,-55to+85C,574nm,75mW,-,-,TR,INDICATOR	1	PC
.....3	0604-001172	PC181	PHOTO-COUPLER	TR,150-300,200mW,SOP,TP	1	PC
.....3	0604-001172	PC351	PHOTO-COUPLER	TR,150-300,200mW,SOP,TP	1	PC
.....3	0604-001172	PC352	PHOTO-COUPLER	TR,150-300,200mW,SOP,TP	1	PC
.....3	1201-004191	IC451	IC-OP AMP	9064,TSSOP,TP,14P,5x4.4x1.2mm,4,100dB,6V,-40to+125C,103dB,6.5,0.05pA,0.5pA,1.6mV	1	PC
.....3	1203-002835	IC162	IC-POS.FIXED REG.	7805,D-PAK/TO252,3P,6.6x6.1mm,PLASTIC,4.8V/5.2V,1.3W,TP	1	PC
.....3	1203-004967	IC502	IC-VOL. DETECTOR	KIA7042AT,TSM,3P,2.9x1.6mm,PLASTIC,4.2V,350mW,-40to+85C,20mA	1	PC
.....3	1203-008881	IC152	IC-PWM CONTROLLER	INN2603K,eSOP-R16B,16P,PLASTIC,-40to+105C,1.2A,TP	1	PC
.....3	2007-000043	R354	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000043	R356	R-CHIP	1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R032	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R191	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R194	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R352	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R358	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R901	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R905	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R906	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC

.....3	2007-000052	R908	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000052	R909	R-CHIP	10Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000067	R181	R-CHIP	15Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000137	R536	R-CHIP	2Kohm,5%,1/16W,TP,1005	1	PC
.....3	2007-000143	R503	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R505	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R508	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R516	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R518	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R520	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R521	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R522	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R523	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R524	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R529	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R530	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R533	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R534	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R540	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000143	R541	R-CHIP	4.7Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R261	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R262	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R263	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R264	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R265	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R269	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R527	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000239	R068	R-CHIP	1.5Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000239	R407	R-CHIP	1.5Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000239	R461	R-CHIP	1.5Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000239	R462	R-CHIP	1.5Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000239	R491	R-CHIP	1.5Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R053	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R055	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R401	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R402	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R403	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R404	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R405	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000287	R406	R-CHIP	100ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000385	R101	R-CHIP	14.3Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000385	R105	R-CHIP	14.3Kohm,1%,1/4W,TP,3216	1	PC

.....3	2007-000455	R465	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000476	R157	R-CHIP	1Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000491	R031	R-CHIP	2.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000491	R190	R-CHIP	2.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000491	R351	R-CHIP	2.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000491	R357	R-CHIP	2.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000491	R910	R-CHIP	2.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000536	R492	R-CHIP	200ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000537	R172	R-CHIP	200ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000537	R173	R-CHIP	200ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000537	R174	R-CHIP	200ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000537	R175	R-CHIP	200ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000537	R176	R-CHIP	200ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000570	R069	R-CHIP	220ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000592	R160	R-CHIP	22ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000614	R366	R-CHIP	24Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000669	R451	R-CHIP	2Kohm,1%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000669	R452	R-CHIP	2Kohm,1%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000669	R466	R-CHIP	2Kohm,1%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-000736	R453	R-CHIP	30Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000736	R454	R-CHIP	30Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000736	R463	R-CHIP	30Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000736	R464	R-CHIP	30Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R192	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R353	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R355	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R904	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000772	R185	R-CHIP	33Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R455	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R456	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R903	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R907	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000924	R102	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R103	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R104	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R106	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R107	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R108	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000924	R158	R-CHIP	470Kohm,1%,1/4W,TP,3216	1	PC
.....3	2007-000946	R184	R-CHIP	47ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000962	R054	R-CHIP	5.1Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000962	R408	R-CHIP	5.1Kohm,1%,1/10W,TP,1608	1	PC

.....3	2007-001068	R902	R-CHIP	6.8Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001175	R050	R-CHIP	8.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001175	R409	R-CHIP	8.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001206	R183	R-CHIP	82Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001297	R170	R-CHIP	47ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-001297	R171	R-CHIP	47ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-001297	R178	R-CHIP	47ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-001297	R179	R-CHIP	47ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-001297	R186	R-CHIP	47ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-001297	R187	R-CHIP	47ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-001313	R367	R-CHIP	330ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-001433	R163	R-CHIP	12Kohm,1%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-002557	R021	R-CHIP	120ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002557	R022	R-CHIP	120ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002557	R024	R-CHIP	120ohm,1%,1/4W,TP,3216	1	PC
.....3	2007-002768	R801	R-CHIP	6.2Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-007306	R245	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R246	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R247	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R248	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R249	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R250	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R266	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R267	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R268	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R270	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R361	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R362	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R363	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R364	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R365	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R501	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R513	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R517	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R531	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R532	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R535	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R550	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R558	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R559	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R560	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007313	R502	R-CHIP	6.8Kohm,1%,1/16W,TP,1005,T0.35	1	PC

.....3	2007-007313	R504	R-CHIP	6.8Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R251	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R506	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R507	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R510	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R511	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R512	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R525	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R526	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007385	R151	R-CHIP	1.2Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-007385	R152	R-CHIP	1.2Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-007385	R153	R-CHIP	1.2Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-007385	R154	R-CHIP	1.2Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-007385	R155	R-CHIP	1.2Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-007385	R156	R-CHIP	1.2Mohm,1%,1/4W,TP,3216	1	PC
.....3	2007-007942	R528	R-CHIP	1Mohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-010245	R071	R-CHIP	0.01ohm,1%,2W,TP,6432	1	PC
.....3	2007-010245	R072	R-CHIP	0.01ohm,1%,2W,TP,6432	1	PC
.....3	2007-010245	R410	R-CHIP	0.01ohm,1%,2W,TP,6432	1	PC
.....3	2007-010245	R411	R-CHIP	0.01ohm,1%,2W,TP,6432	1	PC
.....3	2203-000257	C050	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000257	C351	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000257	C352	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000438	C502	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C503	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C504	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C507	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C512	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C523	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C531	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000440	C051	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C052	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C054	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C181	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C353	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C354	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C404	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C405	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C406	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C408	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C409	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C410	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC

.....3	2203-000440	C411	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C412	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000440	C903	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-000783	C178	C-CER,CHIP	0.33nF,5%,50V,COG,TP,1608	1	PC
.....3	2203-000812	C518	C-CER,CHIP	0.033nF,5%,50V,COG,TP,1005	1	PC
.....3	2203-002398	C532	C-CER,CHIP	22nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005135	C168	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005135	C169	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005135	C173	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005135	C174	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005135	C175	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005135	C176	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005135	C184	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005135	C185	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005135	C414	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005135	C415	C-CER,CHIP	1nF,10%,630V,X7R,TP,3216,T1.15	1	PC
.....3	2203-005249	C053	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C153	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C161	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C162	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C163	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C170	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C177	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C182	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C183	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C401	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C402	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C403	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C407	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C451	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C460	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C461	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C801	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C902	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-006158	C361	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C501	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C505	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C506	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C511	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C513	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C519	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C520	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC

.....3	2203-006158	C521	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C522	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006460	C180	C-CER,CHIP	2200nF,10%,16V,X5R,TP,1608	1	PC
.....3	2203-006460	C533	C-CER,CHIP	2200nF,10%,16V,X5R,TP,1608	1	PC
.....3	2203-006698	C524	C-CER,CHIP	1000nF,10%,25V,X7R,TP,1608,T0.8	1	PC
.....3	2203-006698	C901	C-CER,CHIP	1000nF,10%,25V,X7R,TP,1608,T0.8	1	PC
.....3	2402-001183	CE451	C-AL,SMD	22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	PC
.....3	2402-001268	CE050	C-AL,SMD	100uF,20%,25V,WT,TP,8x6.3mm	1	PC
.....3	2402-001268	CE404	C-AL,SMD	100uF,20%,25V,WT,TP,8x6.3mm	1	PC
.....3	2402-001368	CE401	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2402-001368	CE402	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2402-001368	CE403	C-AL,SMD	47uF,20%,25V,TP,6.3x4.9mm	1	PC
.....3	2802-001211	X501	RESONATOR-CERAMIC	8MHz,0.5%,TP,3.2x1.3x0.9 mm	1	PC
.....3	DB41-01350A	PCB INVERTER	PCB INVERTER	FR-4,2Layer,T1.6,142*194,2,PF#2_17S,2 Oz,285*194	1	PC
.....3	DB91-01930A	IC501	ASSY MICOM	PF2/3_13S , PF2/3_17S Inverter Micom,STM-1746_OA,HART-i910z,64LQFP,ROM 128KB	1	PC
.....4	0903-002197	-	IC-MICROCONTROLLER	HART-I910Z,LQFP,64P,12x12mm,8MHz,TR,5V,600 mW,-40to+85C,12KB,128KB,Inverter SOC	1	PC
.....4	0903-002197	-	IC-MICROCONTROLLER	HART-I910Z,LQFP,64P,12x12mm,8MHz,TR,5V,600 mW,-40to+85C,12KB,128KB,Inverter SOC	1	PC

## 6-3 OUTDOOR MAIN PCB Code DB92-04029D

Level	Parts Code	Design Loc	Parts Description	Spec.	Quantity	Unit
..1	0201-001528	COATING	ADHESIVE-SIL	LDC2577D,Y/GRN,175CPS	1	G
..1	0202-001463	SOLDER-WIRE	SOLDER-WIRE	LFC2-W3.0,D3,99.79Sn/0.2Cu/0.01P,No Flux	6	G
..1	0202-001608	SOLDER-WIRE FLUX	SOLDER-WIRE FLUX	LFC7-107,D0.8,99.3Sn/0.7Cu/0.01P,Flux 3.5%	0.2	G
..1	0204-004665	FLUX	FLUX	KSP-70M-S,MIXTURE,NO,FLUX,13%	3	G
..1	0204-005754	COATING	COATING	SL 1301 ECO,55±5s,colorless	0.004	PC
..1	2301-001935	C308	C-FILM,LEAD	22nF,20%,300Vac,BK,18x7x13.5mm	1	PC
..1	2301-001935	C309	C-FILM,LEAD	22nF,20%,300Vac,BK,18x7x13.5mm	1	PC
..1	2301-001935	C310	C-FILM,LEAD	22nF,20%,300Vac,BK,18x7x13.5mm	1	PC
..1	2301-001935	C311	C-FILM,LEAD	22nF,20%,300Vac,BK,18x7x13.5mm	1	PC
..1	3711-000012	CN291	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5MM,STRAIGHT,SN,WHT	1	PC
..1	3711-000177	CN301	HEADER-BOARD TO CABLE	1WALL,2P,1R,3.96MM,STRAIGHT,SN,RED	1	PC
..1	3711-000999	CN281	HEADER-BOARD TO CABLE	BOX,5P,1R,2.5mm,STRAIGHT,SN,WHT,5.8x14. 9x7.0mm	1	PC
..1	3711-001084	CN261	HEADER-BOARD TO CABLE	BOX,8P,1R,2.5mm,STRAIGHT,SN,WHT,5.8x22. 4x7	1	PC
..1	3711-002001	CN230	HEADER-BOARD TO CABLE	BOX,20P,2R,2.0mm,STRAIGHT,SN,BLK,5.0X22. 0X6.6mm	1	PC
..1	3711-003846	CN251	HEADER-BOARD TO CABLE	BOX,8P,1R,2mm,ANGLE,SN,WHT	1	PC
..1	3711-006337	CN701	CONNECTOR- HEADER	BOX,5P,1R,2.5mm,ANGLE,SN,RED	1	PC
..1	3711-007817	CN271	HEADER-BOARD TO BOARD	3WALL,7P,1R,2mm,STRAIGHT,SN,WHT	1	PC
..1	3712-001047	CN302	CONNECTOR- TERMINAL	TAB,MALE,N,0.5/4.75mm	1	PC
..1	DB27-00082A	L302	COIL CHOKE	40mH,0.5A,8.4x3.4,Mn-Zn	1	PC
..1	DB27-00090A	L301	COIL CHOKE	31uH,13*15	1	PC
..1	DB94-07179A		ASSY PCB AUTO	MAIN,RAC_OUT MAIN,142X48.5mm,N,485COMM,EMI, WIND FREE,DB92-04029D	1	PC
....2	1404-001194	PTC301	THERMISTOR-PTC	39ohm(Typ),270VAC,1.2A,RADIAL(DISC),0.2A, 11x5mm,TP	1	PC
....2	DB27-00034A	BEAD301	BEAD-AXIAL	55ohm,5.7x3.5mm,TP,55ohm/100MHz	1	PC
....2	DB94-07180A		ASSY PCB SMD	MAIN,RAC_OUT MAIN,142X48.5mm,N,485COMM,EMI, WIND FREE,DB92-04029D	1	PC
.....3	0202-001933	SOLDER- CREAM	SOLDER-CREAM	LFM-48W TM-HP,D20~38um,96.5Sn/3Ag/0.5 Cu,Flux 12%	1	G
.....3	0406-001204	TD301	DIODE-TVS	SMBJ5.0CA,6.4/-/7.25V,600W,SMB	1	PC
.....3	0406-001204	TD302	DIODE-TVS	SMBJ5.0CA,6.4/-/7.25V,600W,SMB	1	PC
.....3	0406-001204	TD303	DIODE-TVS	SMBJ5.0CA,6.4/-/7.25V,600W,SMB	1	PC
.....3	0506-000175	IC701	TR-ARRAY	2003,NPN,7,1000mW,SOP-16,TP,1000	1	PC
.....3	0601-002345	LED801	LED	SMD(Top View),RED,WATER CLEAR,1.3x0. 8mm,1.6x0.8x0.55mm,1.130deg,18mcd,- 25to+80C,660nm,63mW,-,TP,INDICATOR	1	PC

.....3	0601-002419	LED803	LED	SMD(Top View),YEL,WATER CLEAR,1.6x0.8mm,1.6x0.8x0.6mm,1,130deg,30/60mcd,-55to+85C,591nm,75,-,-,TP,INDICATOR	1	PC
.....3	0601-002679	LED802	LED	SMD(Top View),Y-GRN,WATER CLEAR,1.2x0.8mm,1.6x0.8x0.6mm,1,120deg,8/11mcd,-25to+80C,573nm,44mW,-,-,TP,INDICATOR	1	PC
.....3	0801-000393	IC302	IC-CMOS LOGIC	74HC86,OR GATE,SOP,14P,150MIL,QUAD,TP,2.0/6.0V,0.26V,-40to+85,180mW,4.2V,1uA,0.1uA,5.2mA	1	PC
.....3	1006-001325	IC301	IC-BUS TRANSCEIVER	SO,8P,4.9x3.8mm,SINGLE,ST,PLASTIC,5V,-40to+85C,1,1,1.5/5.0V	1	PC
.....3	1203-006245	IC230	IC-VOL. DETECTOR	KIA7033ATTSM,3P,2.9x1.6x0.7mm,PLASTIC,3.3V,350mW,-30to+85C,TP	1	PC
.....3	2007-000116	R304	R-CHIP	120ohm,5%,1/10W,TP,1608	1	PC
.....3	2007-000148	R201	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R202	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R203	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R204	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R205	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R206	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R207	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R208	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R209	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R210	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R212	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R213	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R214	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R215	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R216	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R217	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R218	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R219	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R220	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R221	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
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.....3	2007-000148	R250	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R271	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
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.....3	2007-000148	R286	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R306	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R307	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R308	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R309	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000148	R310	R-CHIP	10Kohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000171	R312	R-CHIP	0ohm,5%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-000455	R251	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000455	R253	R-CHIP	18Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000614	R252	R-CHIP	24Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000614	R254	R-CHIP	24Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R255	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R256	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R257	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000763	R258	R-CHIP	330ohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R801	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R802	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-000869	R803	R-CHIP	4.7Kohm,1%,1/10W,TP,1608	1	PC
.....3	2007-001433	R225	R-CHIP	12Kohm,1%,1/10W,TP,1608,T0.45	1	PC
.....3	2007-007306	R224	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R231	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R232	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R233	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R234	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R235	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R243	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R244	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R245	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R246	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R247	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R248	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R249	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R261	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R262	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R263	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R264	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R273	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R274	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R275	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R276	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R281	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R282	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC

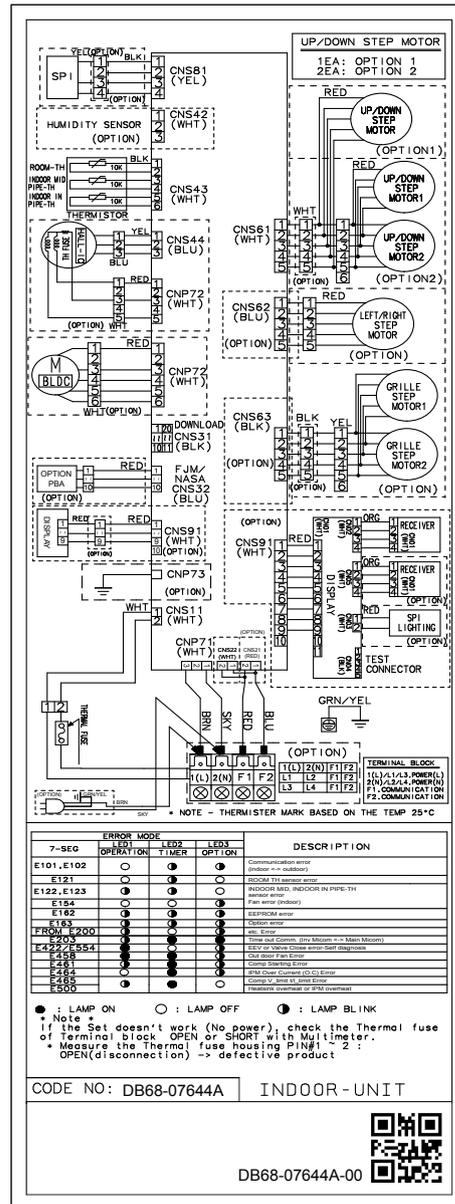
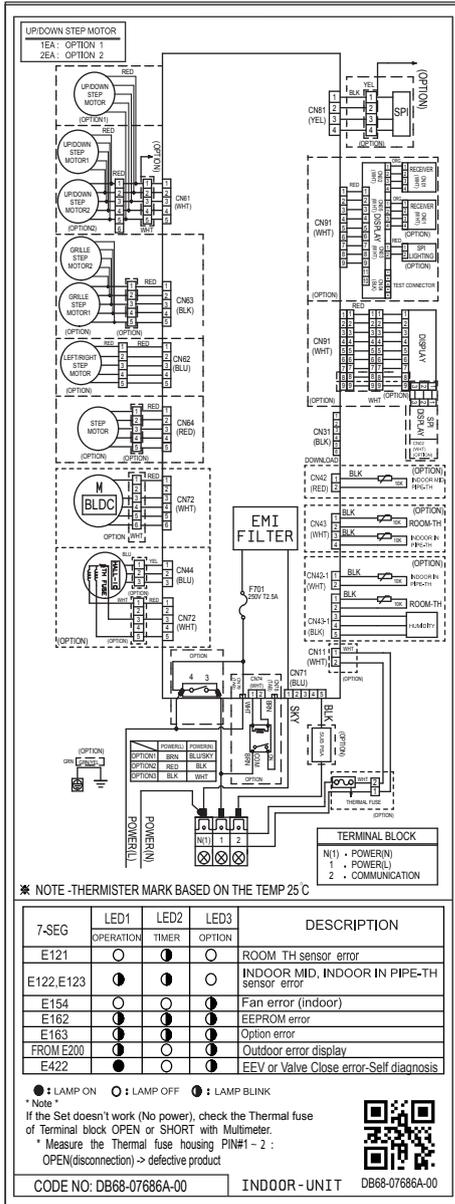
.....3	2007-007306	R283	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R291	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007306	R292	R-CHIP	100ohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R303	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R305	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007318	R311	R-CHIP	1Kohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2007-007942	R211	R-CHIP	1Mohm,1%,1/16W,TP,1005,T0.35	1	PC
.....3	2203-000438	C211	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C219	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C220	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C281	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C282	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-000438	C283	C-CER,CHIP	1nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-001071	C210	C-CER,CHIP	0.056nF,5%,50V,COG,TP,1608	1	PC
.....3	2203-002285	C302	C-CER,CHIP	10nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-002285	C303	C-CER,CHIP	10nF,10%,50V,X7R,TP,1005	1	PC
.....3	2203-005249	C251	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C252	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C253	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C254	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C701	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-005249	C702	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608	1	PC
.....3	2203-006158	C202	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C203	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C206	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C209	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C212	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C215	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C216	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C218	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C248	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C304	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C305	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C306	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-006158	C307	C-CER,CHIP	100nF,10%,16V,X7R,TP,1005,T0.5	1	PC
.....3	2203-007306	C261	C-CER,CHIP	10000nF,10%,25V,X5R,TP,2012,T1.25	1	PC
.....3	2203-007306	C262	C-CER,CHIP	10000nF,10%,25V,X5R,TP,2012,T1.25	1	PC
.....3	2203-007456	C201	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C204	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C205	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C207	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C208	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C213	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2203-007456	C214	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC

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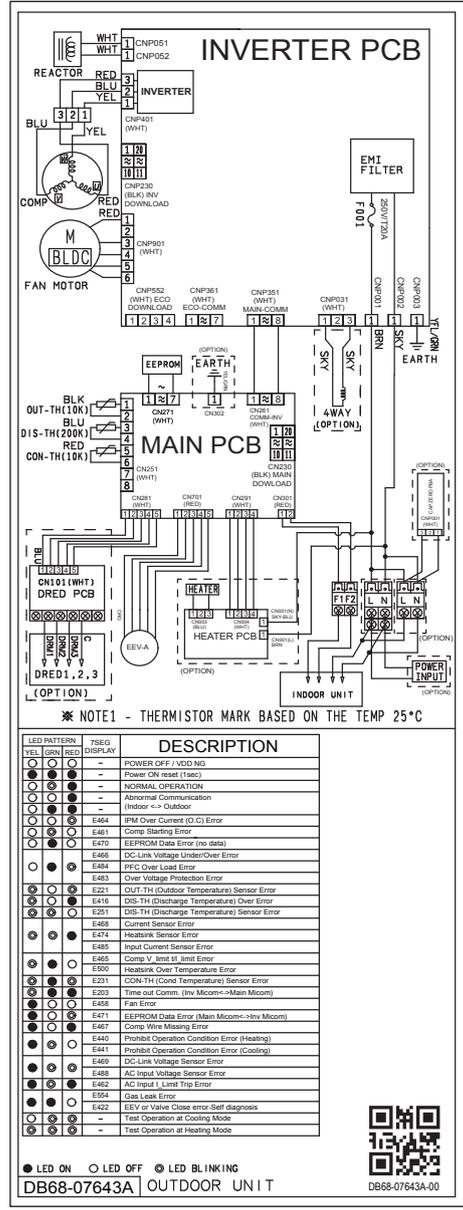
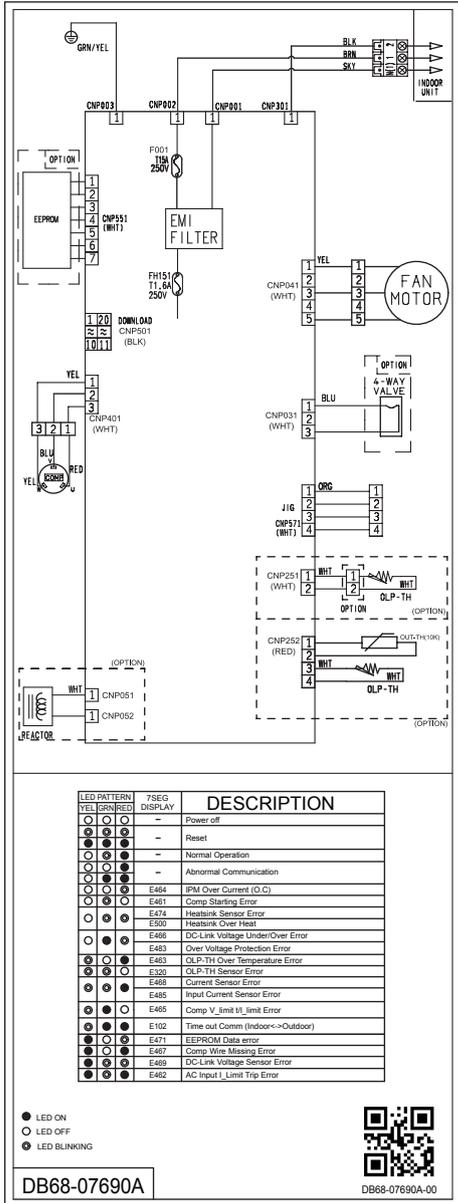
.....3	2203-007456	C217	C-CER,CHIP	1000nF,10%,25V,X5R,TP,1005,T0.5	1	PC
.....3	2802-001211	X201	RESONATOR- CERAMIC	8MHz,0.5%,TP,3.2x1.3x0.9 mm	1	PC
.....3	DB41-01352A	PCB MAIN	PCB MAIN	FR-4,2L,T1.6,142x48.5,8,RAC_OUT_ MAIN,1Oz,284x194mm	1	PC
.....3	DB91-01931A	IC231	ASSY MICOM	18K_RAC_PF23_SG_OUT,STM-1749-0A,HART- m310,100MQFP,ROM 256KB	1	PC
.....4	0903-001864	-	IC- MICROCONTROLLER	HART-M310,QFP,100P,20x14mm,8MHz,5V,600 mW,-40to+85C,24KB,256KB,MAIN PBA SOC	1	PC

# 7. Wiring Diagram

## 7-1 Indoor Unit

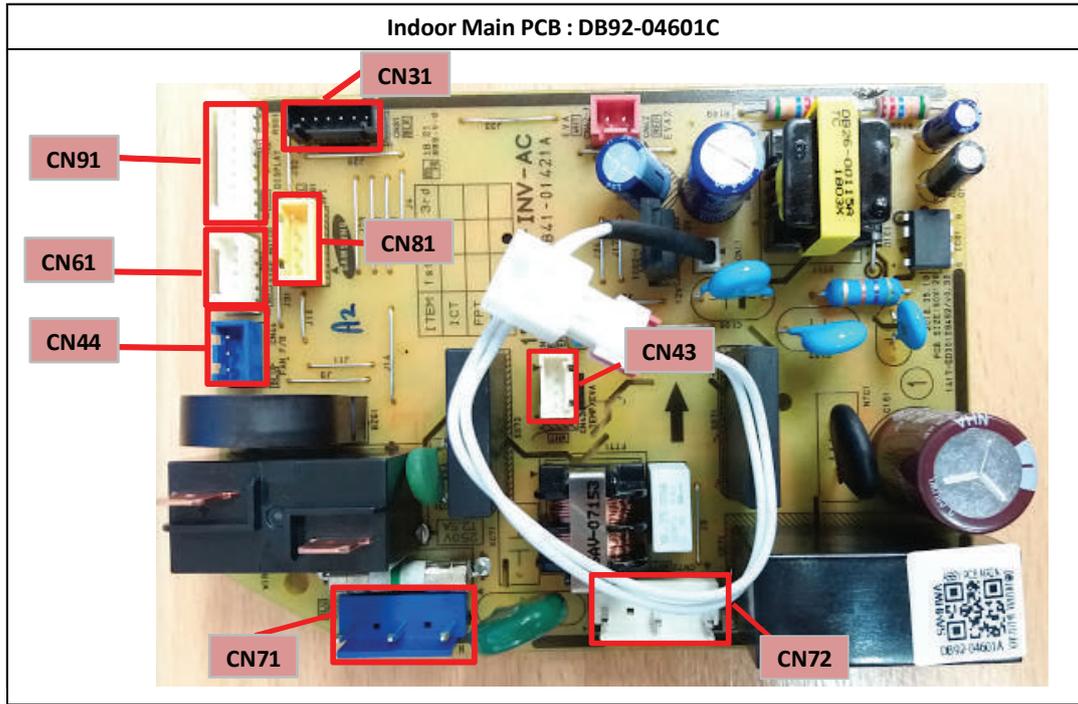


# 7-2 Outdoor Unit



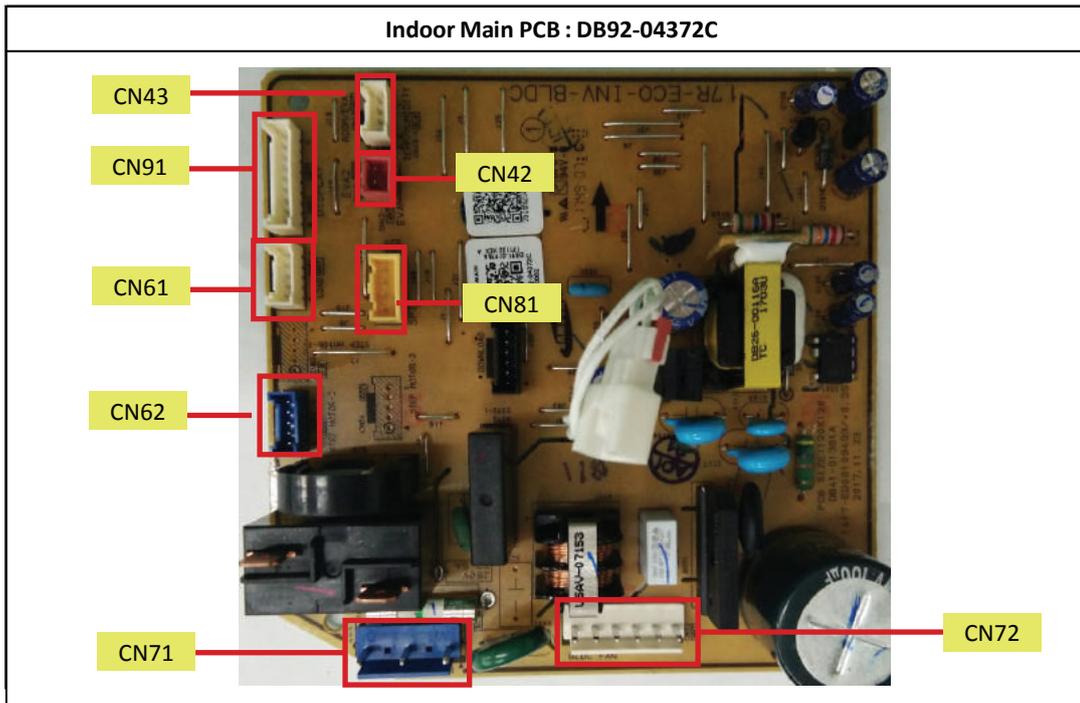
# 8. PCB Diagram

## 8-1 Indoor Main PCB CODE DB92-04601C



<p><b>CN71 : N/COMM</b></p> <p>#1 : POWER-N #3 : NULL #5 : COMMUNICATION</p>	<p><b>CN91 : DISPLAY</b></p> <p>#1 : DIO #2 : CLK #3 : STB #4 : IRQ #5 : IRQ_G #6 : VCC #7 : VCC_2 #8 : PWM_LED #9 : TEST_RX #10 : TEST_TX #11 : MODE0</p>	<p><b>CN72 : AC FAN</b></p> <p>#1 : AC POWER #2 : NULL #3 : SS71 #4 : NULL #5 : AC POWER</p>
<p><b>CN61 : STEP MOTOR</b></p> <p>#1 : 12V #2 : 05 #3 : 04 #4 : 03 #5 : 01</p>	<p><b>CN44 : FAN F/B</b></p> <p>#1 : VCC #2 : GND #3 : Q401 (Base)</p>	<p><b>CN81 : SPI</b></p> <p>#1 : MPI' #2 : GND #3 : 12V #4 : NULL</p>
<p><b>CN31 : DOWNLOAD</b></p> <p>#1 : TEST #2 : VCC #3 : GND #4 : VCC #5 : AD1 #6 : ADO</p>	<p><b>CN43 : TEMP EVA/ROOM</b></p> <p>#1 : ROOM_TEMP #2 : GND #3 : EVA_TEMP #4 : GND</p>	

## 8-2 Indoor Main PCB CODE DB92-04372C



### **CN71 : N/COMM**

#1 : POWER-N  
#3 : NULL  
#5 : COMMUNICATION

### **CN91 : DISPLAY**

#1 : DIO  
#2 : CLK  
#3 : STB  
#4 : IRQ  
#5 : IRQ\_G  
#6 : VCC  
#7 : VCC\_2  
#8 : PWM\_LED  
#9 : TEST\_RX  
#10 : TEST\_TX  
#11 : MODE0

### **CN72 : AC FAN**

#1 : AC POWER  
#2 : NULL  
#3 : SS71  
#4 : NULL  
#5 : AC POWER

### **CN61 : LOAD**

#1 : 12V  
#2 : 04  
#3 : 03  
#4 : 02  
#5 : 01

### **CN42 : EVA2**

#1 : EVA1  
#2 : GND

### **CN81 : SPI**

#1 : MPI'  
#2 : GND  
#3 : 12V  
#4 : NULL

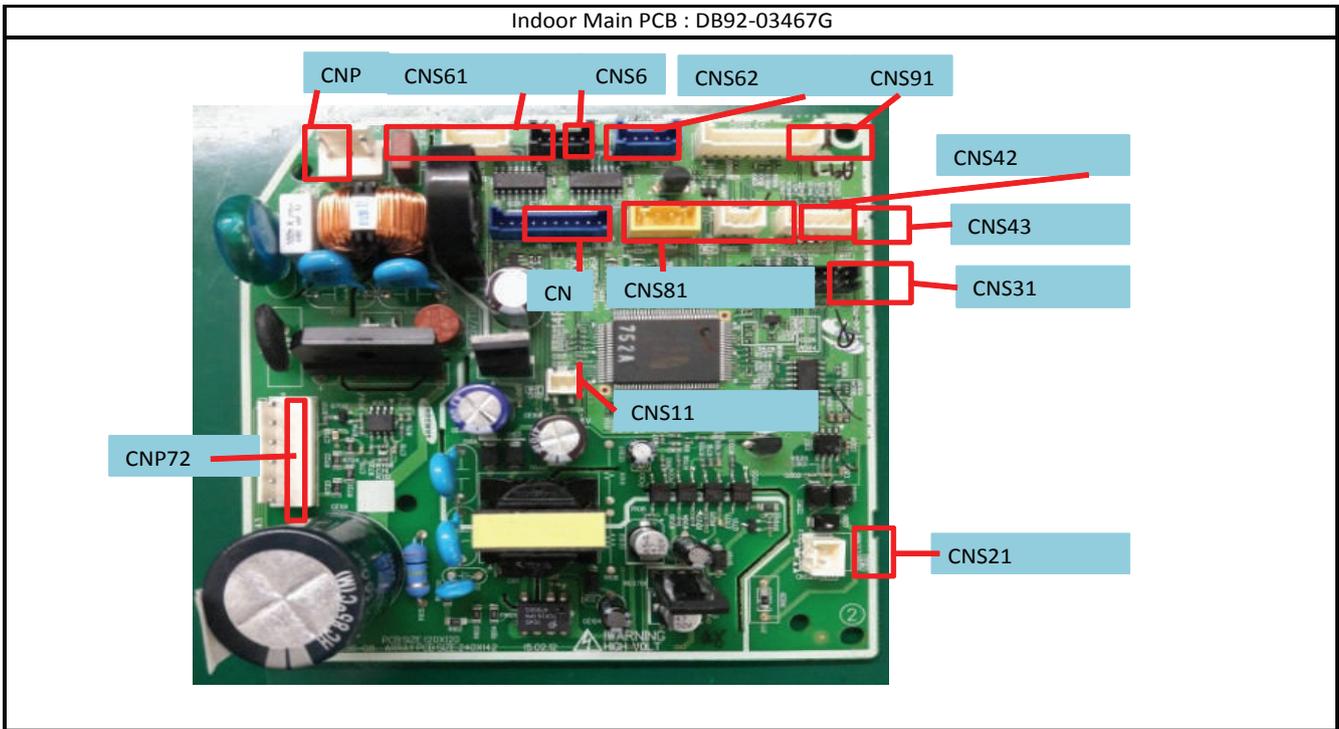
### **CN62 : STEP MOTOR 2**

#1 : VCC  
#2 : 05  
#3 : 04  
#4 : 03  
#5 : 01

### **CN43 : TEMP EVA/ROOM**

#1 : ROOM\_TEMP  
#2 : GND  
#3 : EVA\_TEMP  
#4 : GND

### 8-3 Indoor Main PCB CODE DB92-03467G

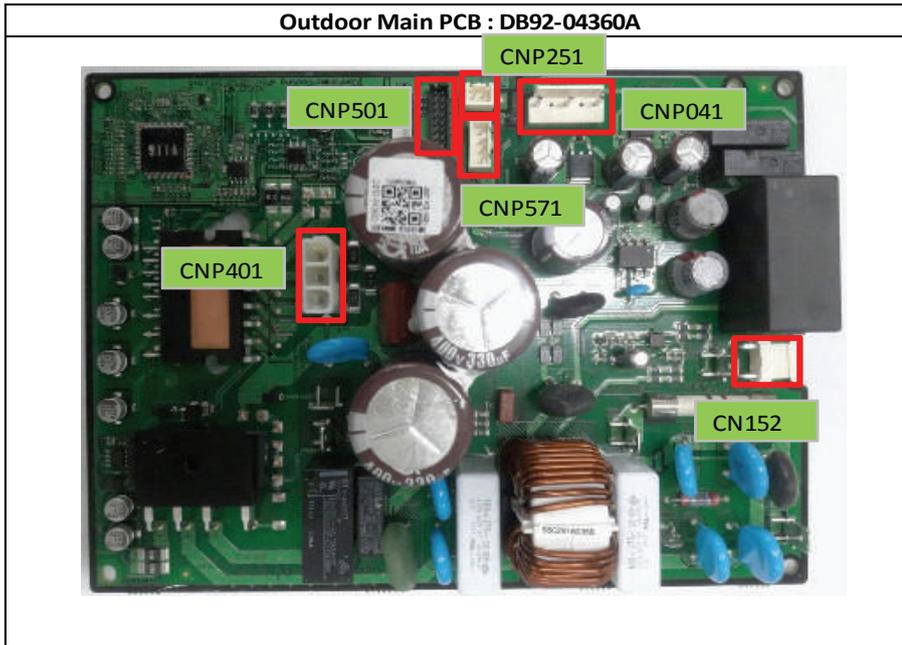


CNP71	CNS61	CNS62	CNS63	CNS81
#1 N	#1 +12V	#1 +12V	#1 +12V	#1 C (Q801)
#2 NULL	#2 O2	#2 O4	#2 O6	#2 NULL
#3 L	#3 O3	#3 O5	#3 O7	#3 +12V
	#4 O4	#4 O6	#4 O2	#4 NULL
	#5 O5	#5 O7	#5 O3	

CNS42	CNS43	CNS11	CNS21
#1 HUM_OUT1	#1 ROOM TEMP	#1 +5V	#1 PIN7 (IC07)
#2 HUM_SENSOR	#2 GND	#2 5V'	#2 PIN6 (IC07)
#3 HUM_OUT2	#3 EVA_TEMP		
	#4 GND		
	#5 EVA2_TEMP		
	#6 GND		

CNS91	CNS32	CNP72
#1 DIO	#1 COM2_RXD	#1 TRAN_IN
#2 CLK	#2 COM2_TXD	#2 NULL
#3 STB	#3 COM2_ENABLE	#3 PIN6 PC04
#4 IRQ	#4 COM2_LED	#4 +15V
#5 R902	#5 ECT_CTRL	#5 PIN4 PC04
#6 +5V	#6 COMP_CHK	#6 PIN3 PC05
#7 Vout	#7 ERROR_CHK	
#8 PLM_LED	#8 +5V	
#9 NULL	#9 GND	
#10 REMOCON_SIGN_OL	#10 +12V	

## 8-4 Outdoor Inverter PCB CODE DB92-04360A



### **CN152 : 4WAY**

#1 : S  
#2 : NULL  
#3 : RY030

### **CNP041: AC FAN**

#1 : CR042  
#2 : NULL  
#3 : RY041  
#4 : NULL  
#5 : CNP031 #1

### **CN571 : DOWNLOAD**

#1 : RXD\_INV  
#2 : TXD\_INV  
#3 : GND  
#4 : +5V

### **CN251 : SENSOR**

#1 : OLP  
#2 : GND

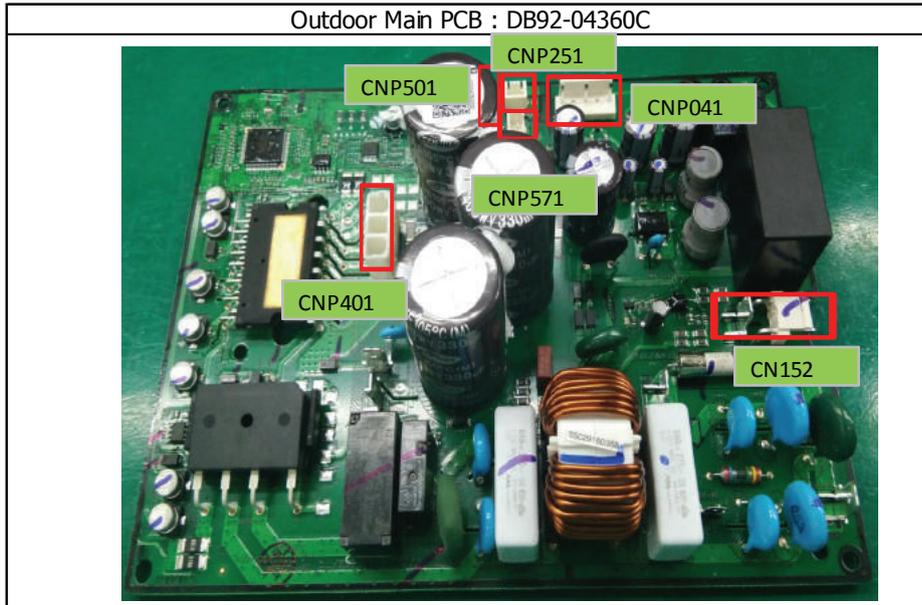
### **CNP401 : COMP**

#1 : W  
#2 : V  
#3 : U

### **CNP501 : DOWNLOAD**

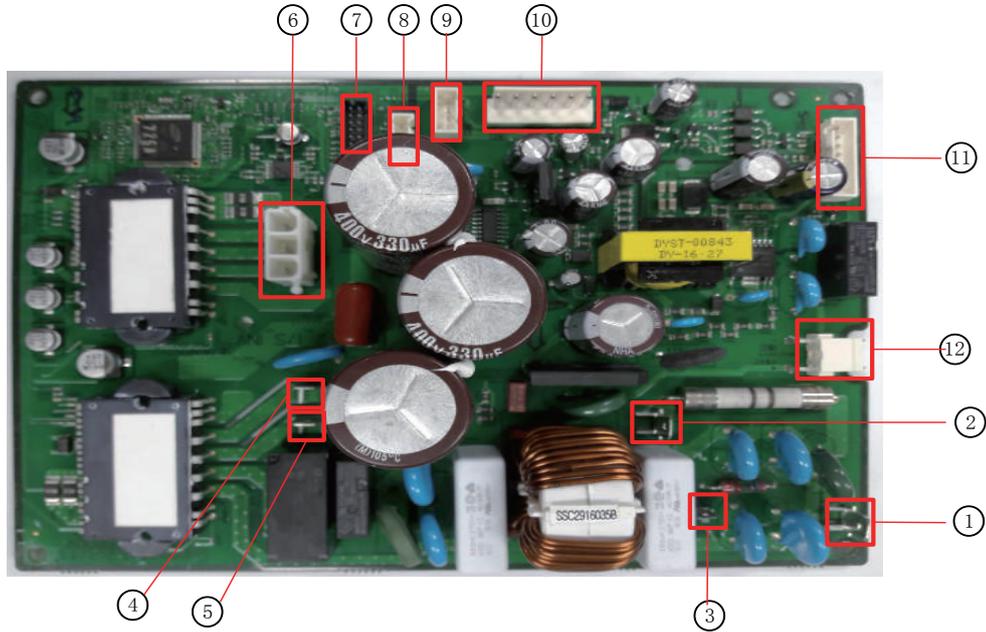
#1 : RXD\_INV  
#2 : TXD\_INV  
#3 : Ntrst  
#4 : TDO  
#5 : TCK  
#6 : TDI  
#7 : TMS  
#8 : TRACECLK  
#9 : GND  
#10 : 5V  
#11 : 5V  
#12 : MODEO  
#13 : RESET\_MAIN  
#14 : TRACED3  
#15 : F\_SCLK  
#16 : F\_SDAT  
#17 : GND  
#18 : TRACED2  
#19 : TRACED1  
#20 : TRACED0

## 8-5 Outdoor Inverter PCB CODEDB92-04360C



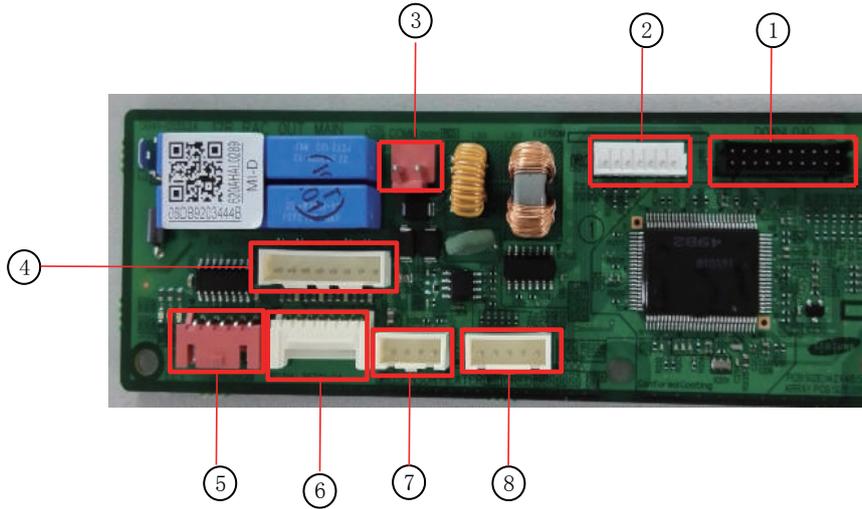
CN152 : 4WAY	CNP041: AC FAN	CN571 : DOWNLOAD	CN251 : SENSOR	CNP401 : COMP
#1 : S #2 : NULL #3 : RY030	#1 : CR042 #2 : NULL #3 : RY041 #4 : NULL #5 : CNP031 #1	#1 : RXD_INV #2 : TXD_INV #3 : GND #4 : +5V	#1 : OLP #2 : GND	#1 : W #2 : V #3 : U
CNP501 : DOWNLOAD				
#1 : RXD_INV #2 : TXD_INV #3 : Ntrst #4 : TDO #5 : TCK #6 : TDI #7 : TMS #8 : TRACECLK #9 : GND #10 : 5V #11 : 5V #12 : MODE0 #13 : RESET_MAIN #14 : TRACED3 #15 : F_SCLK #16 : F_SDAT #17 : GND #18 : TRACED2 #19 : TRACED1 #20 : TRACED0				

## 8-6 Outdoor Inverter PCB CODE DB92-04025C



① CNP001 : POWER N	② CNP002 : POWER L	③ CNP003 : POWER EARTH	④ CNP052 : REACTOR
⑤ CNP051 : REACTOR	⑥ CNP401 : COMP #1: W phase #2: V phase #3: U phase	⑦ CN203 : INV DOWNLOAD Inv PBA S/W Download	⑧ CNP361 : ECO-COMM
⑨ CNP552	⑩ CNP901 : BLDC FAN #1: DC310V #3: 15V #4: PGND #5: BLDC FAN POWER SAVE #6: BLDC FAN Feedback	⑪ CN351 : MAIN-INV COMM #1: INV_RXD-MAIN_TXD #2: INV_TXD-MAIN_RXD #3: 5V #4: SGND #5: 12V #6: Power save #7: 4WAY singal	⑫ CNP031 : 4-WAY

## 8-7 Outdoor Inverter PCB CODE DB92-04029D



<p>① <b>CN230 : DOWNLOAD</b> : Main PBA S/W Download</p>	<p>② <b>2. CN271 : EEPROM</b></p>	<p>③ <b>CN301 : 485 COMM</b> #1 : F1 #2 : F2</p>	<p>④ <b>CN261 : MAIN-INV COMM</b> #1 : INV_TXD-MAIN_RXD #2 : INV_RXD-MAIN_TXD #3 : 5V #4 : SGND #5 : 12V #6 : Power save #7 : 4WAY singal</p>
<p>⑤ <b>CN701 : EEV-A</b></p>	<p>⑥ <b>CN251 : SENSOR</b> #1-#2 : OUTDOOR_TEMP #3-#4 : DISCHARGE_TEMP #5-#6 : COND_TEMP #7-#8 : OLP_TEMP</p>	<p>⑦ <b>CN291 : HEATER(OPTION)</b> #1:12V #2:SGND #3:HeaterL #4:HeaterN</p>	<p>⑧ <b>CN281 : DRED(OPTION)</b> #1 : DRED1 signal #2 : DRED2 signal #3 : DRED3 signal #4 : SGND #4 : 5V</p>

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## 8-8 PCB RECEIVE DISPLAY PCB-DB93-10861\*\*

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**CN01**

### **CN01 : RECEIVER**

- #1 : DIO
- #2 : CLK
- #3 : STB
- #4 : IRQ
- #5 : GND
- #6 : VCC
- #7 : Vout
- #8 : NULL
- #9 : GUN

---

## 8-9 Wire connecting the indoor unit terminal blocks

---

1. Terminal press of Ring terminal shall be set facing up before connecting wire.



Is inverted



Terminal has been cut.

2. There shall be no empty space between Ring terminal and Screw after Clamp.

If not, there exists a possibility of fire which can be caused by electric heat in the connecting part.



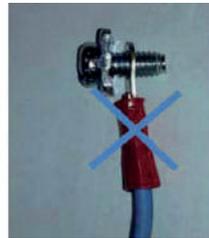
①



②



③



④



⑤



⑥

1,2 : Good

3 Bad : Ring terminal is connected reversely

4 Bad : Not clamped Screw

5 Bad : In the gap between Ring terminal & Screw

6 Bad : Unused Ring Terminal

# 9. Operating Instructions

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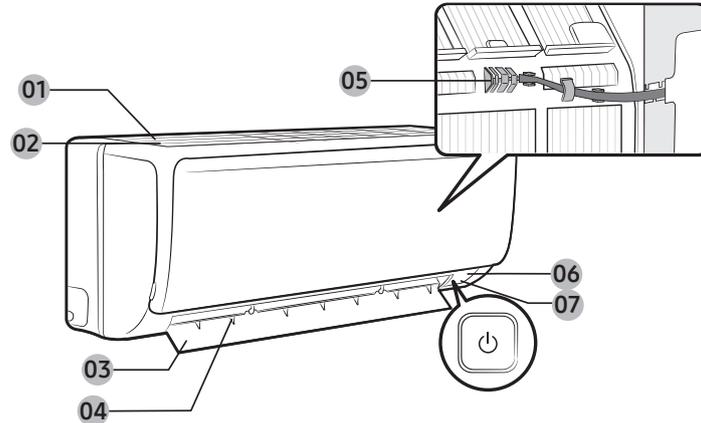
## 9-1 Name of Each Part

---

### 9-1-1 Indoor Unit

The design and shape are subject to change according to the model.

#### ■ Main Parts



**01** Air intake

**02** Air filter

**03** Air flow blade (up and down)

**04** Air flow blade (left and right)

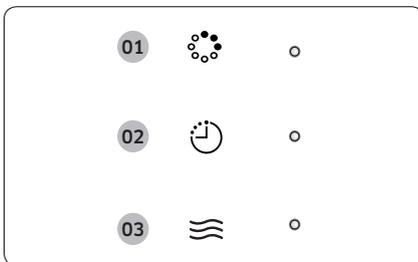
**05** Room temperature sensor

**06** Display

**07** Power button /  
Remote control receiver

### Display

---



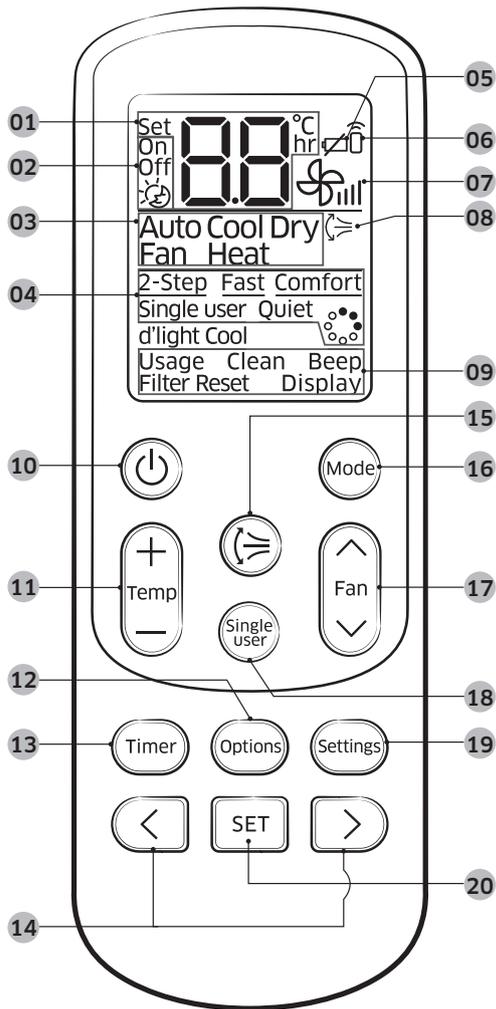
**01** Ionizer indicator

**02** Timer indicator  
Auto clean indicator  
good'sleep Indicator

**03** Operation indicator

## 9-2 Wireless Remote Control-Buttons and Display

### ■ DB93-15882Q



- 01 Set temperature indicator
- 02 Timer option indicator
- 03 Operation mode indicator
- 04 Options indicator
- 05 Low battery indicator
- 06 Transmit indicator
- 07 Fan speed indicator
- 08 Vertical air swing indicator
- 09 Settings indicator
- 10 Power button
- 11 Temperature button
- 12 Options button
- 13 Timer button
- 14 Direction button / Selection button
- 15 Vertical air swing button
- 16 Mode button
- 17 Fan speed button
- 18 Single User button
- 19 Settings button
- 20 SET button

# 10. Troubleshooting

## 10-1 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 line cable linking the indoor unit and the outdoor unit linked properly?  
The indoor unit and the outdoor unit shall be linked by 5 cables.  
Check the terminals if the indoor unit and outdoor unit are properly linked by the same number of cables.  
Otherwise the 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	The OPERATION indication LED(BLUE) blinks when a power plug of the indoor unit is plugged in for first time.	It indicates power is on. The LED stops blinking if the operation ON/OFF button on the remote control unit is pushed.
2	In a COOL operation mode, the compressor does not operate at a room temperature higher than the setting temperature that the INDOOR FAN should operate. <b>[In case of heat pump model]</b> In a HEAT operation mode, the compressor does not operate at a room temperature lower than the setting temperature that indoor fan should operate.	In happens after a delay of 3 minutes when the compressor is reoperated. The same phenomenon occurs when a power is on. As a phenomenon that the compressor is reoperated after a delay of 3 minutes, the indoor fan is adjusted automatically with reference to a temperature of the air blew.
3	Fan speed setting is not allowed in DRY mode.	The speed of the indoor fan is set to LL in DRY mode. Fan speed is selected automatically in AUTO mode.
4	Compressor stops operation intermittently in Dry mode.	Compressor operation is controlled automatically in DRY mode depending on the room temperature and humidity.
5	Timer LED(ORANGE) of the indoor unit lights up and the air conditioner does not operate.	Timer is being activated and the unit is in ready mode. The unit operates normally if the timer operation is cancelled.
6	The compressor stops intermittently in a COOL mode or DRY mode, and fan speed of the indoor unit decreases.	The compressor stops intermittently or the fan speed of the indoor unit decreases to prevent inside/outside air frozen depending on the inside/outside air temperature.
7	<b>[In case of heat pump model]</b> Compressor of the outdoor unit is operating although it is turned off in a HEAT mode.	When the unit is turned off while de-ice is activated, the compressor continues operation for up to 9 minutes(maximum) until the deice is completed.
8	<b>[In case of heat pump model]</b> The compressor and indoor fan stop intermittently in HEAT mode.	The compressor and indoor fan stop intermittently if room temperature exceeds a setting temperature in order to protect the compressor from overheated air in a HEAT mode.
9	<b>[In case of heat pump model]</b> 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.

## 10-2 Communication Error

### 10-2-1 Communication Error

Indoor display

3 LED DISPLAY			7 SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	E101/E102	Communication error(Indoor<->outdoor)
◐	●	●		

Outdoor display

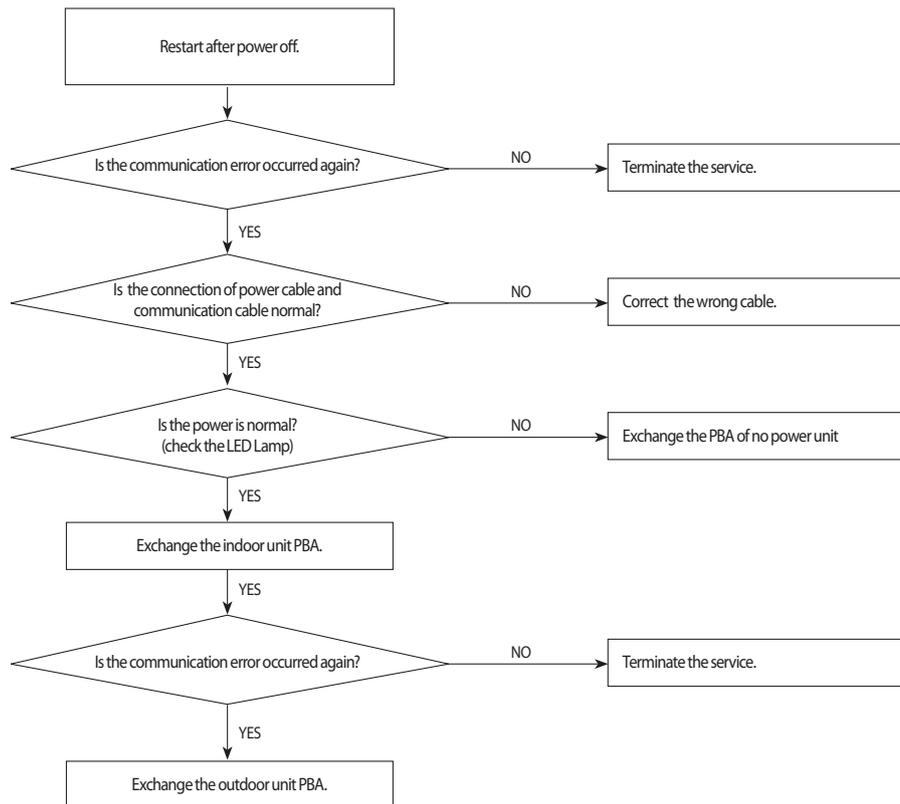
◐	●	●	1min. Time out Comm.
○	○	●	Abnormal Communication
○	●	●	

● : LAMP ON ○ : LAMP OFF ◐ : LAMP BLINK

1. Checklist :

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

2. Troubleshooting procedure



## 10-2-2 Indoor temperature sensor Error

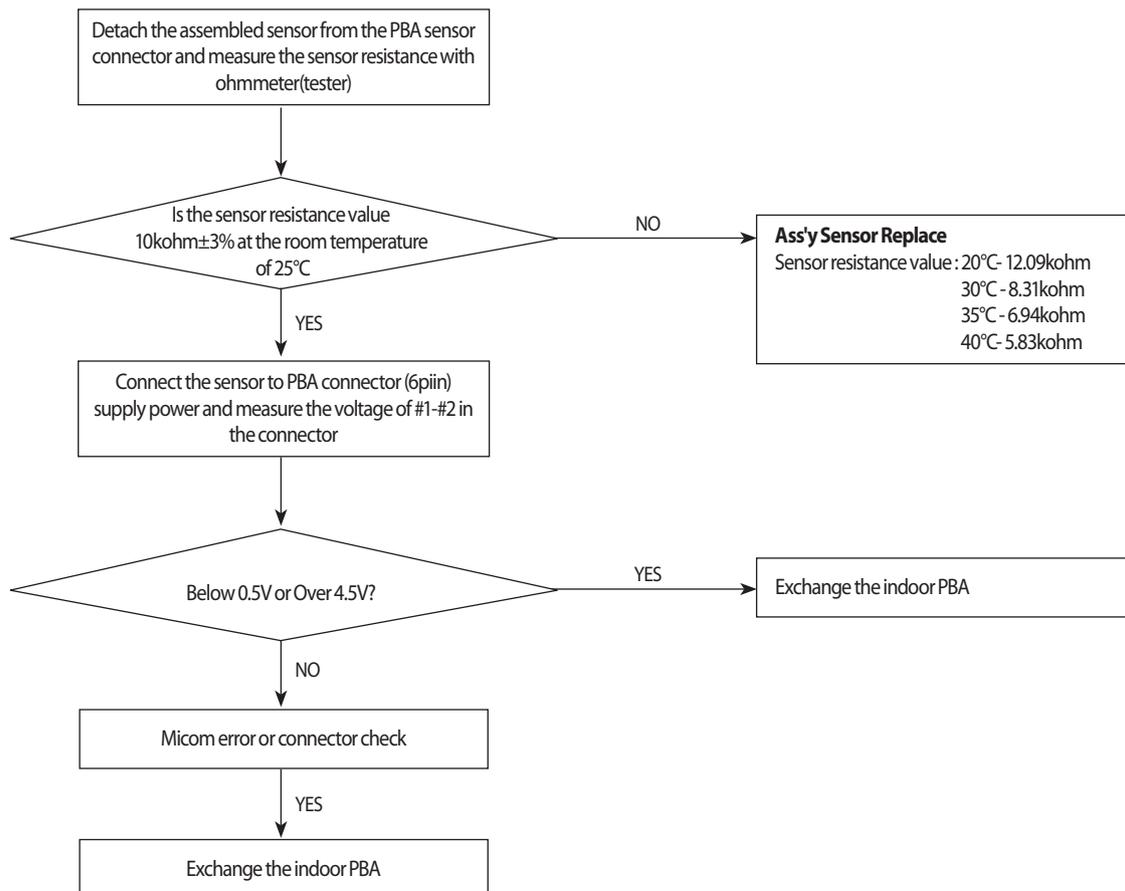
### Indoor display

7 SEG DISPLAY	DESCRIPTION
E121	Indoor room temp sensor error

#### 1. Checklist :

- 1) Is the indoor units temperature sensor connected correctly?
- 2) Is the sensor placed correctly?
- 3) Does the both terminal of sensor satisfy the resistance value in accordance with temperature?

#### 2. Troubleshooting procedure



### 10-2-3 Indoor fan motor speed detecting error (BLDC fan)

Indoor display

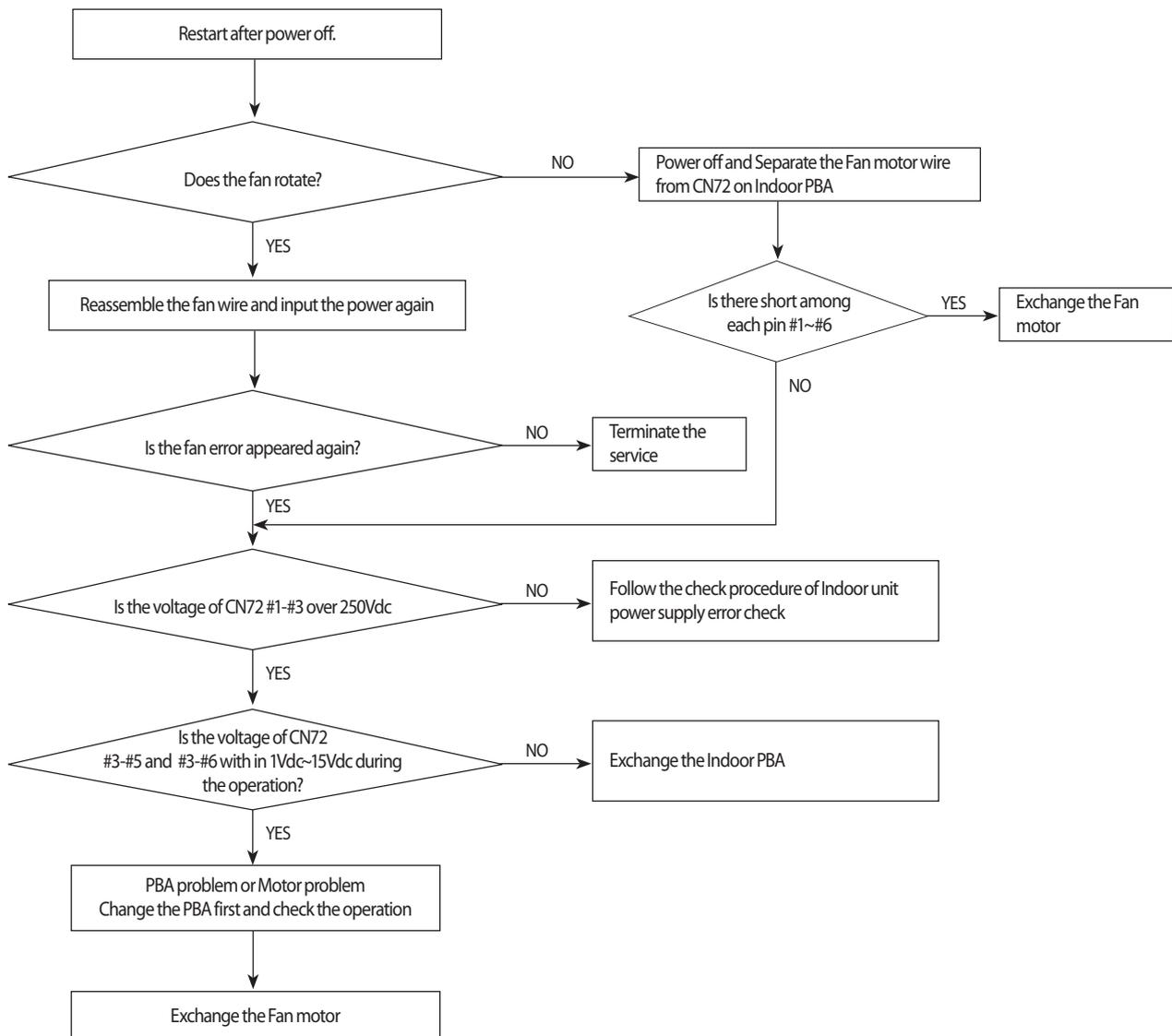
3 LED DISPLAY			7 SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	E154	Indoor fan error
○	○	◐		

● : LAMP ON ○ : LAMP OFF ◐ : LAMP BLINK

1. Checklist :

- 1) Is the indoor units fan motor properly connected with the connector(CN72)?
- 2) Is the AC voltage correct?

2. Troubleshooting procedure



## 10-2-4 Outdoor temperature sensor error

### Indoor display

3 LED DISPLAY			7 SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	E221	Outdoor temperature sensor error
●	○	●		

### Outdoor display

●	○	●	Outdoor temperature sensor error
---	---	---	----------------------------------

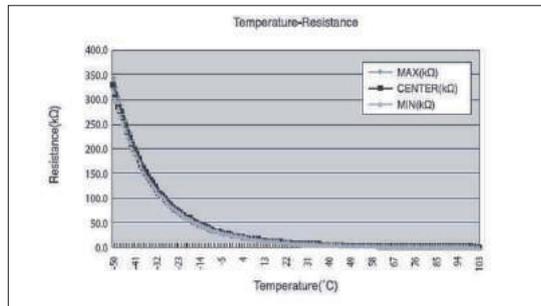
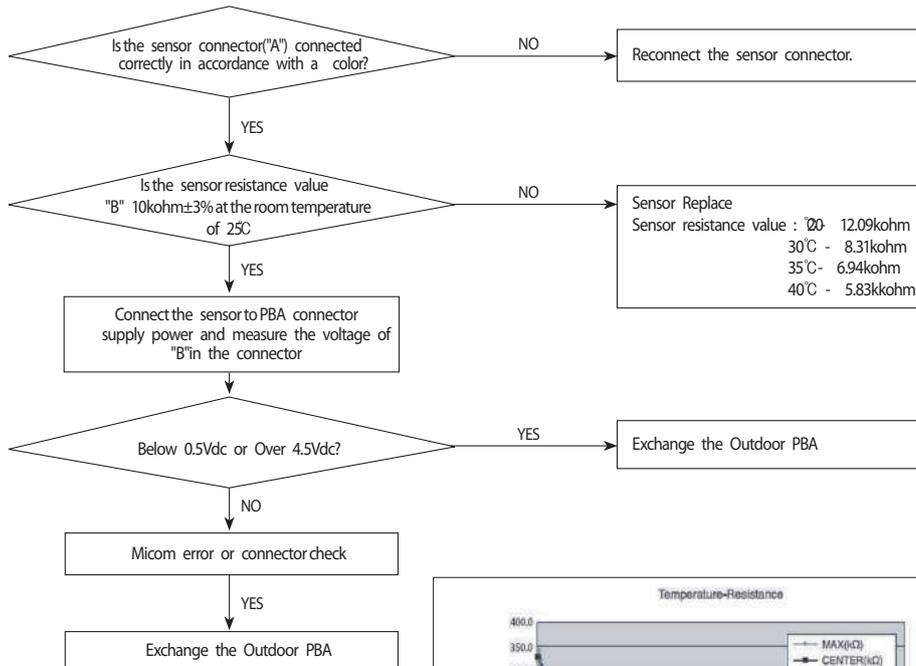
● : LAMP ON ○ : LAMP OFF ● : LAMP BLINK

### 1. Checklist :

- 1) Is the sensor 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

Model	"A"	"B"
All	CN251	CN251 #1-#2



## 10-2-5 Outdoor Cond temperature sensor error

### Outdoor display



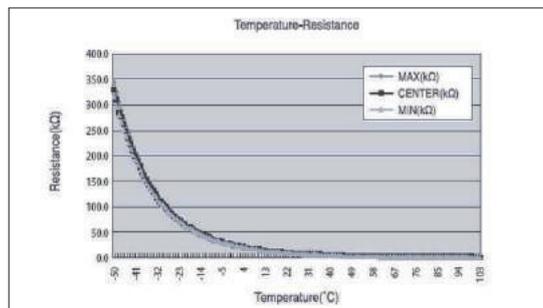
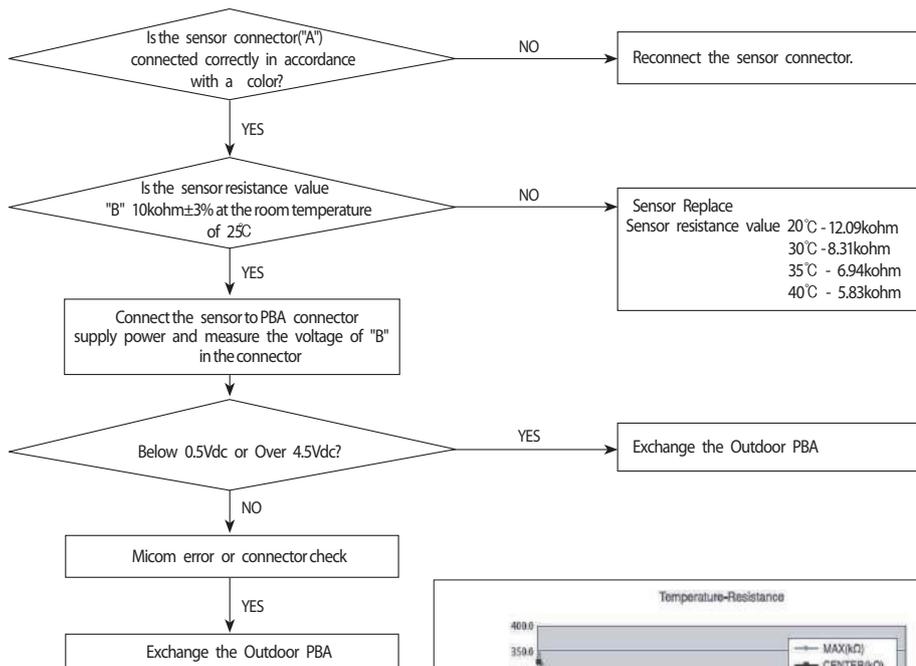
● : LAMP ON ○ : LAMP OFF ◐ : LAMP BLINK

#### 1. Checklist :

- 1) Is the sensor 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

Model	"A"	"B"
All	CN251	CN251 #5-#6



## 10-2-6 Outdoor Discharge temperature sensor error

Indoor display

3 LED DISPLAY			7 SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	E251	Outdoor Discharge temperature sensor error
●	●	○		

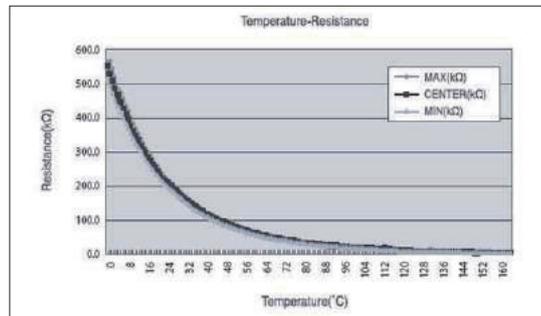
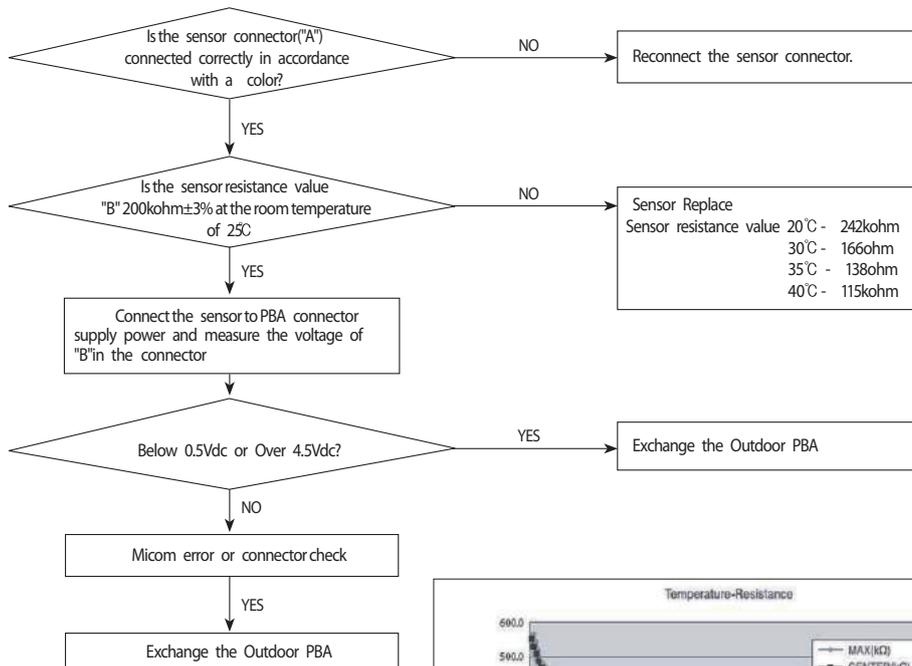
● : LAMP ON ○ : LAMP OFF ◐ : LAMP BLINK

1. Checklist :

- 1) Is the sensor 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

Model	"A"	"B"
All	CN251	CN251 #3-#4



## 10-2-7 Operation condition secession error

### Outdoor display

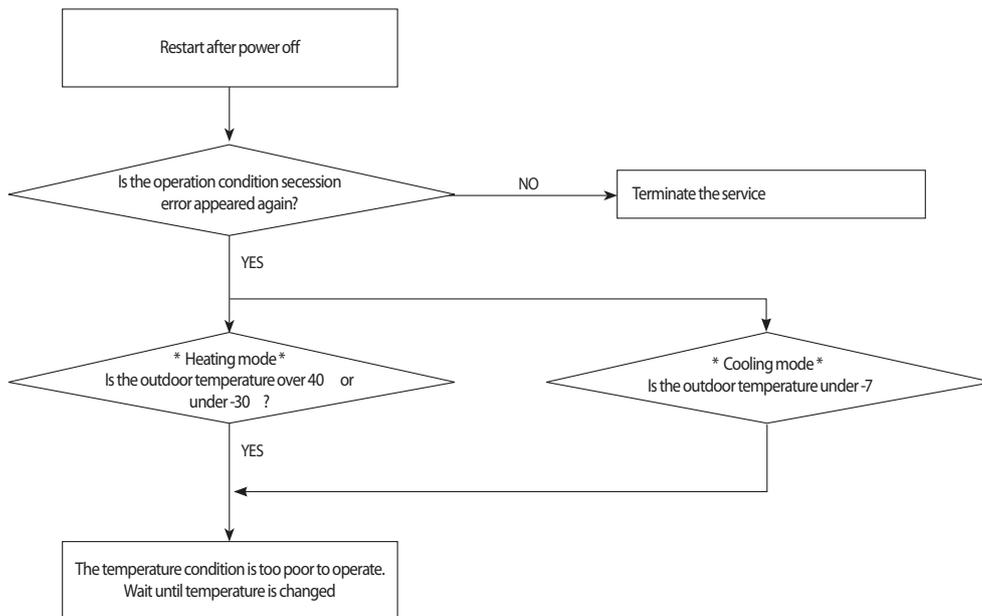
3 LED DISPLAY			7 SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3		
●	◐	○	E440	Prohibit Operation Condition Error (Heating)
			E441	Prohibit Operation Condition Error (Cooling)

● : LAMP ON ○ : LAMP OFF ◐ : LAMP BLINK

#### 1. Checklist :

- 1) Check the temperature around the outdoor unit.

#### 2. Troubleshooting procedure



## 10-2-8 EEPROM error/OTP error

Indoor display

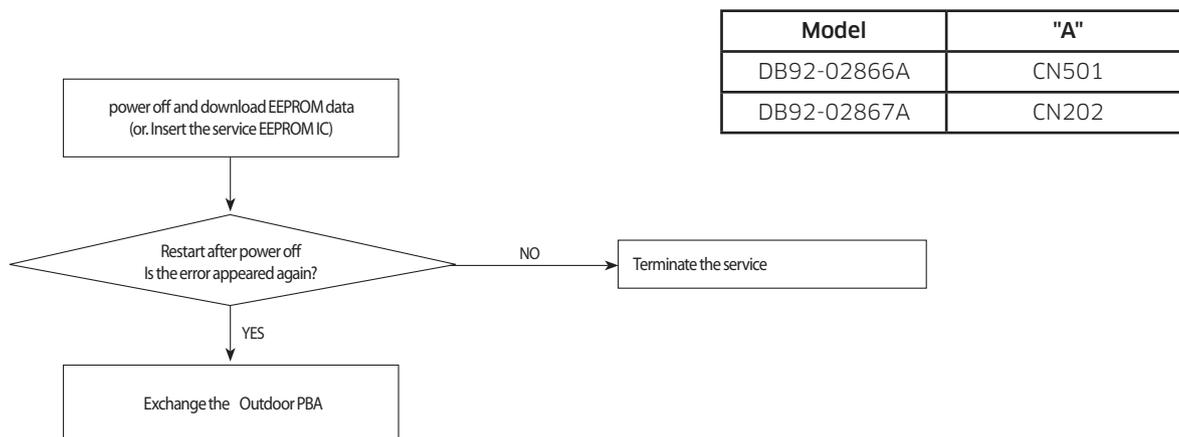
3 LED DISPLAY			7 SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3		
●	●	●	E162	EEPROM Error

● : LAMP ON ○ : LAMP OFF ◐ : LAMP BLINK

1. Checklist :

- 1) Is there a short around micom?
- 2) Is there a short around "A"?
- 3) Did you download or insert EEPROM IC, after changing outdoor PBA?

2. Troubleshooting procedure



## 10-2-9 Outdoor Fan motor error

### Outdoor display

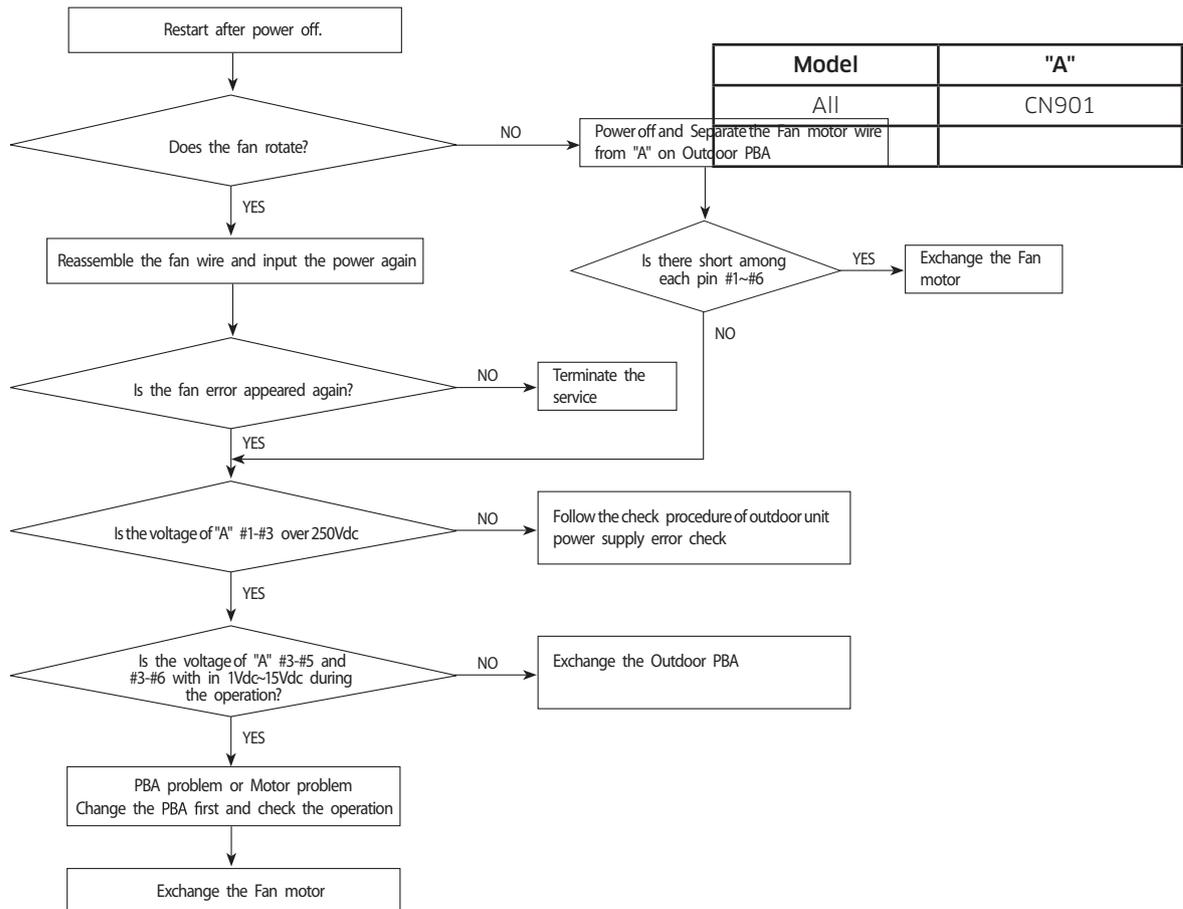
●	○	◐	Outdoor fan error
---	---	---	-------------------

● : LAMP ON   ○ : LAMP OFF   ◐ : LAMP BLINK

#### 1. Checklist :

- 1) Are the input power voltage and the power connection correct?
- 2) Is the motor wire connected to the outdoor PBA correctly?
- 3) Is there no assembly error or non-assembly in the terminal of motor wire connector?
- 4) Is there no obstacle at the surrounding of motor and propeller?

#### 2. Troubleshooting procedure



## 10-2-10 Compressor starting error

### Indoor display

3 LED DISPLAY			7 SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3		
◐	●	◐	E461	Comp starting error

### Outdoor display

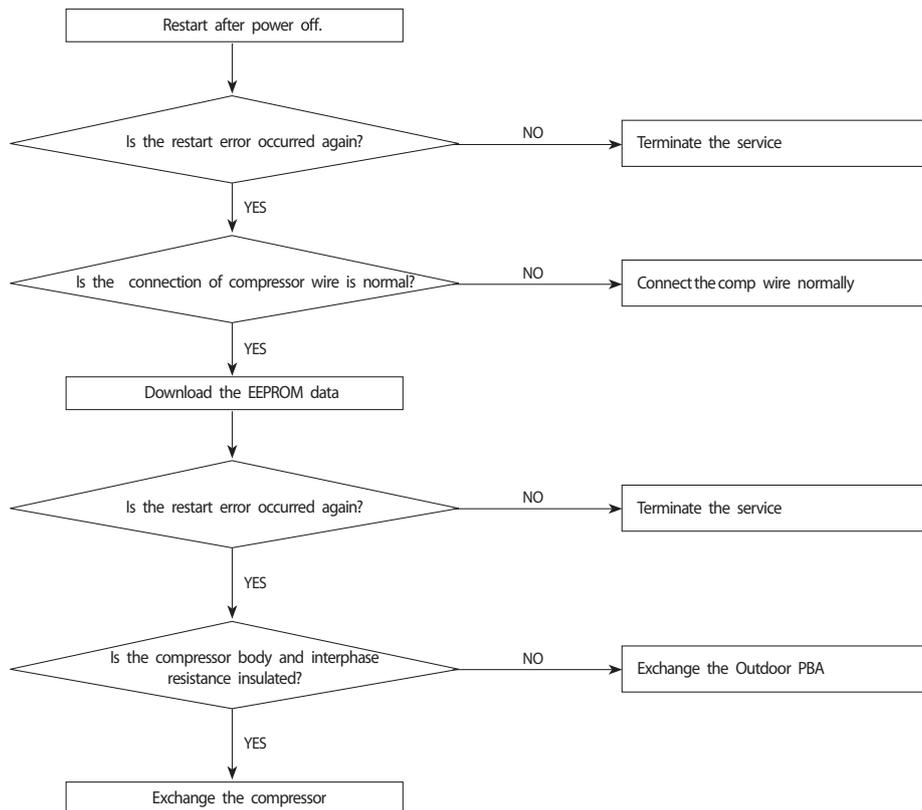
○	◐	○	Comp starting error
---	---	---	---------------------

● : LAMP ON ○ : LAMP OFF ◐ : LAMP BLINK

### 1. Checklist :

- 1) Is the connection of cable for the compressor?
- 2) Is the compressor wire is connected clockwise? U(RED)-V(BLU)-W(YEL)
- 3) Is the interphase resistance of compressor normal?

### 2. Troubleshooting procedure



## 10-2-11 Compressor wire missing error/rotation error

Outdoor display

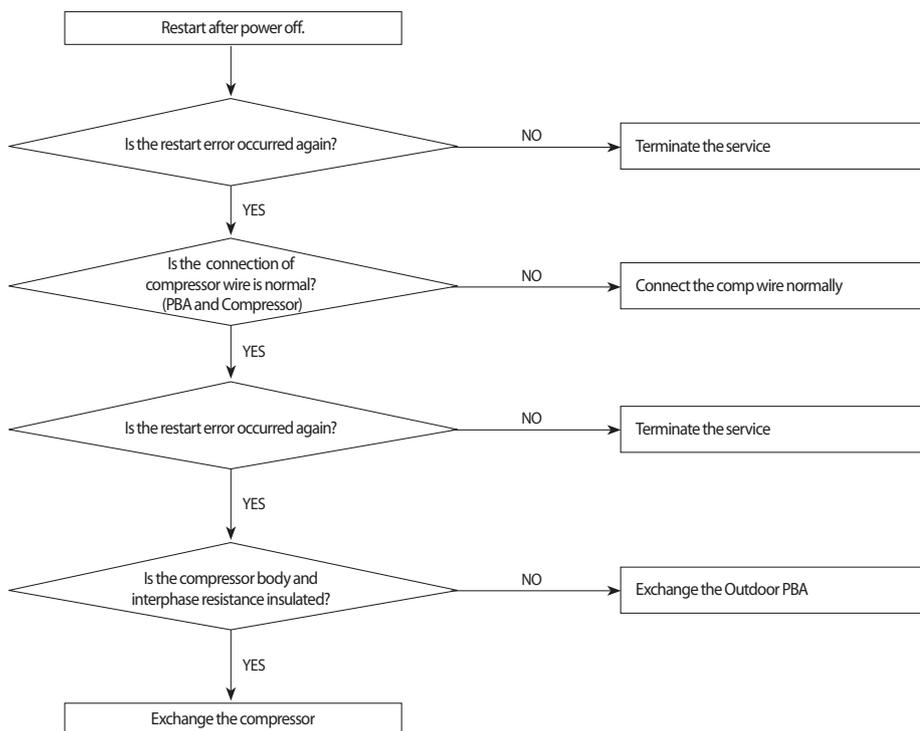
3 LED DISPLAY			7 SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3		
●	○	●	E467	Compressor wire missing error/rotation error

● : LAMP ON ○ : LAMP OFF ◐ : LAMP BLINK

1. Checklist :

- 1) Is the connection of cable for the compressor?
- 2) Is the compressor wire is connected clockwise? U(RED)-V(BLU)-W(YEL)
- 3) Is the interphase resistance of compressor normal?

2. Troubleshooting procedure



## 10-2-12 Current sensor error/Input current sensor error

### Outdoor display

3 LED DISPLAY			7 SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3		
●	○	●	E468	Current sensor error

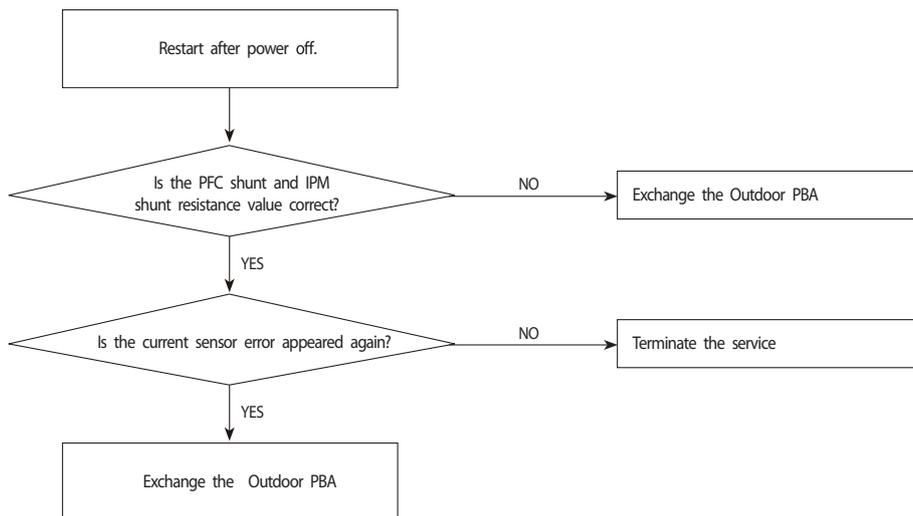
● : LAMP ON ○ : LAMP OFF ● : LAMP BLINK

#### 1. Checklist :

- 1) Is the PFC Shunt("A") resistance value correct? Check the resistor is opened.
- 2) Is the IPM Shunt("B") resistance value correct? Check the resistor is opened.
- 3) Is there no short or open around "C"?

Model	"A"	"B"	"C"
DB92-02866A	R426,R425	R410,R411,R412	IC451
DB92-02867A	R063,R064,R065	R408,R409,R410	IC451

#### 2. Troubleshooting procedure



## 10-2-13 O.C(Over Current) error

Indoor display

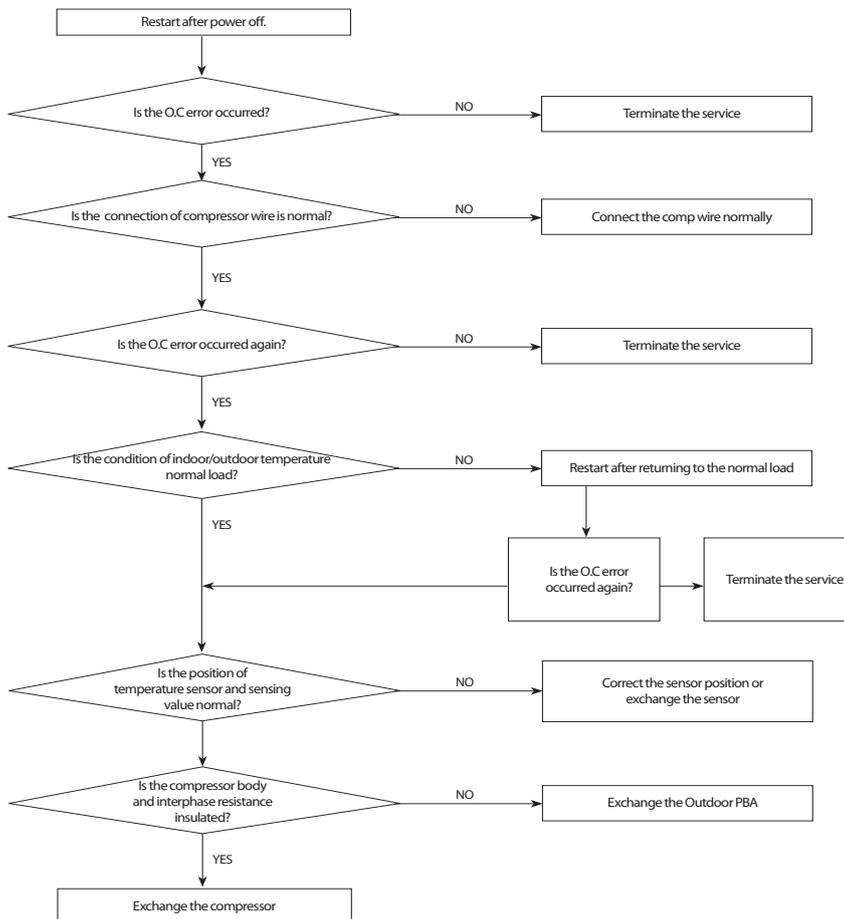
3 LED DISPLAY			7 SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3		
○	●	◐	E464	IPM Over Current(O.C) Error

● : LAMP ON ○ : LAMP OFF ◐ : LAMP BLINK

### 1. Checklist :

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

### 2. Troubleshooting procedure



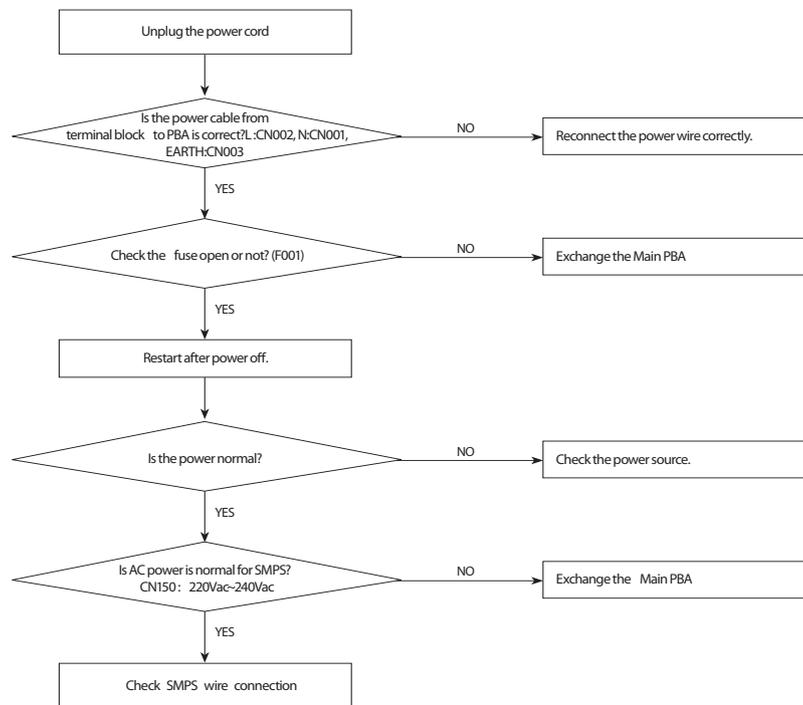
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## 10-2-14 No power outdoor (Initial Diagnosis) (Not displayed)

### 1. Checklist :

- 1) Is input power normal?
- 2) Is AC power linked correctly? (L,N,E)
- 3) Is mis-wiring between communication wire and Power wire?
- 4) Is mis-wiring between Main PBA and SMPS PBA wire?
- 5) Is input voltage of SMPS AC in Main PBA (CN150) normal?
- 6) Is the voltage of SMPS DC in Main PBA (CN151,CN152) normal?

### 2. Troubleshooting procedure



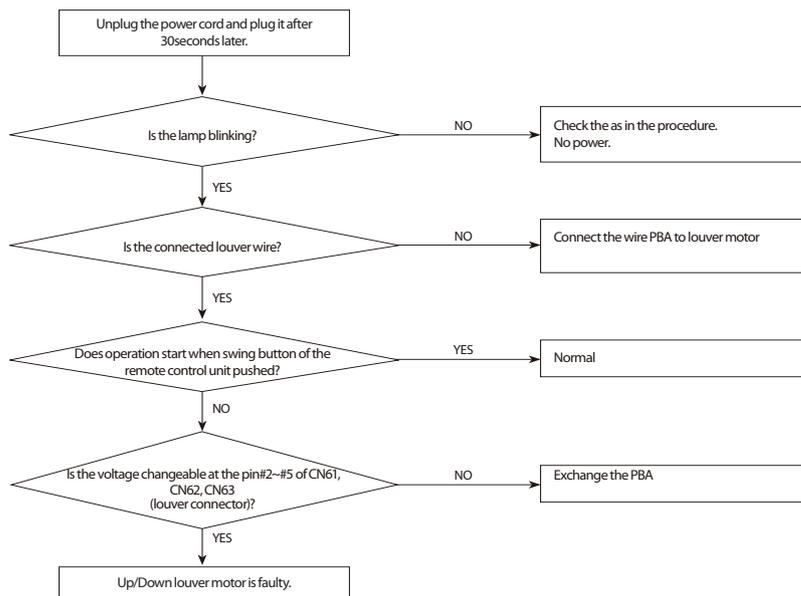
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## 10-2-15 When the Up/Down, Left/Right, Grill louver motor does not operate (Initial Diagnosis) (Not displayed)

### 1. Checklist :

- 1) Is the input power voltage normal?
- 2) Is the Up/Down louver motor properly connected with the connector? (CN61, CN62, CN63)

### 2. Troubleshooting procedure



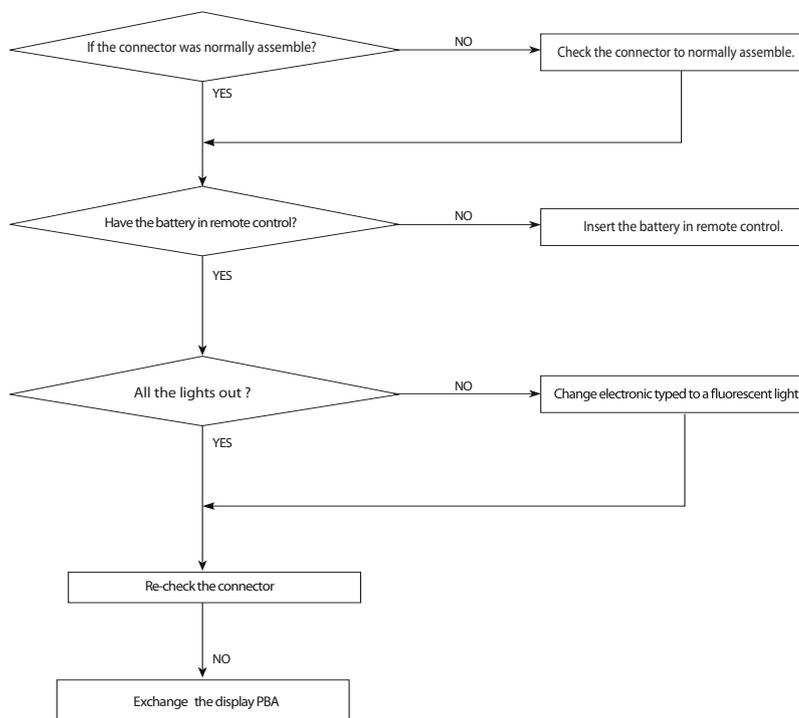
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## 10-2-16 When the remote control is not receiving

### 1. Checklist :

- 1) Check if the connector was normally assembled.
- 2) Check the battery in remote control
- 3) All the lights out and check again : Change electronic typed to a fluorescent light
- 4) Put the set in operation and check the voltage of display PBA
- 5) Replace the display PBA

### 2. Troubleshooting procedure



## 10-2-17 Smart Install error

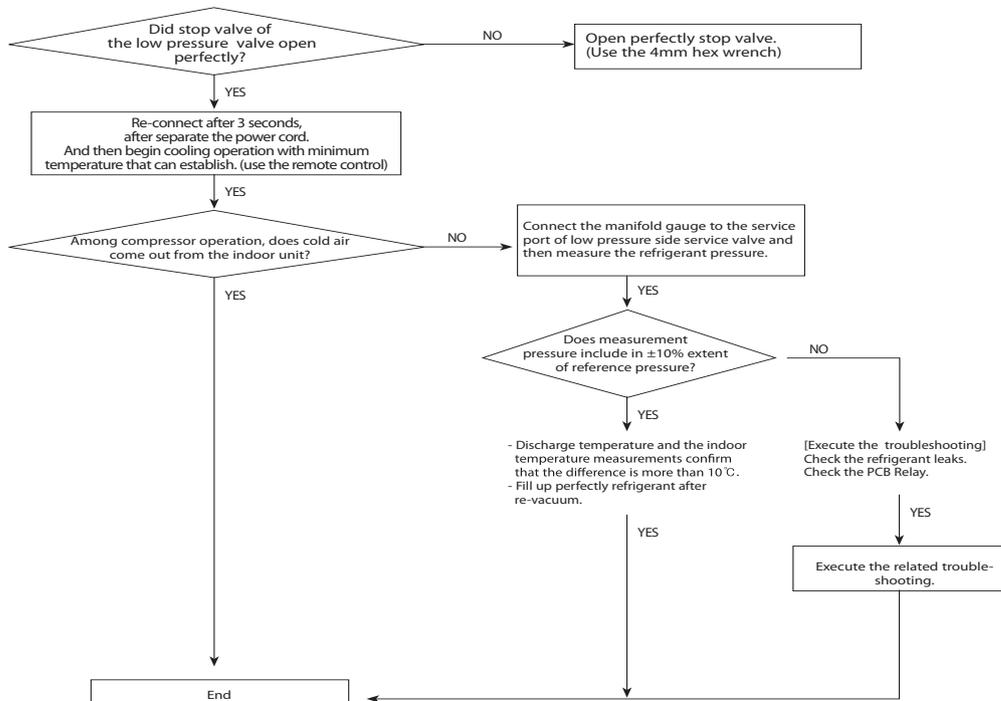
### 1. Checklist :

- 1) Check the leakage region.(Use leakage detection liquid or soapy water)
- 2) When leakage region is found from service valve and piping connection flare nut part : After the related measures to check the refrigerant supplements and operation.
- 3) If the leakage region is pipe welding part : Weld leakage region after refrigerant gas release.(Brass parts should only apply)
- 4) If the leakage region is surface area (Heat exchanger or pipe welding region is not) : Replace parts.
- 5) Check the PBA Relay
  - Display of indoor unit : Ensure that the operating pilot lamp has been lighted.
  - Ensure that the Relay input voltage of indoor unit PBA is normally.(If the PBA is defective, replace)

### 2. When the air conditioner is in standby status, use the remote controller to start the Smart Install mode.

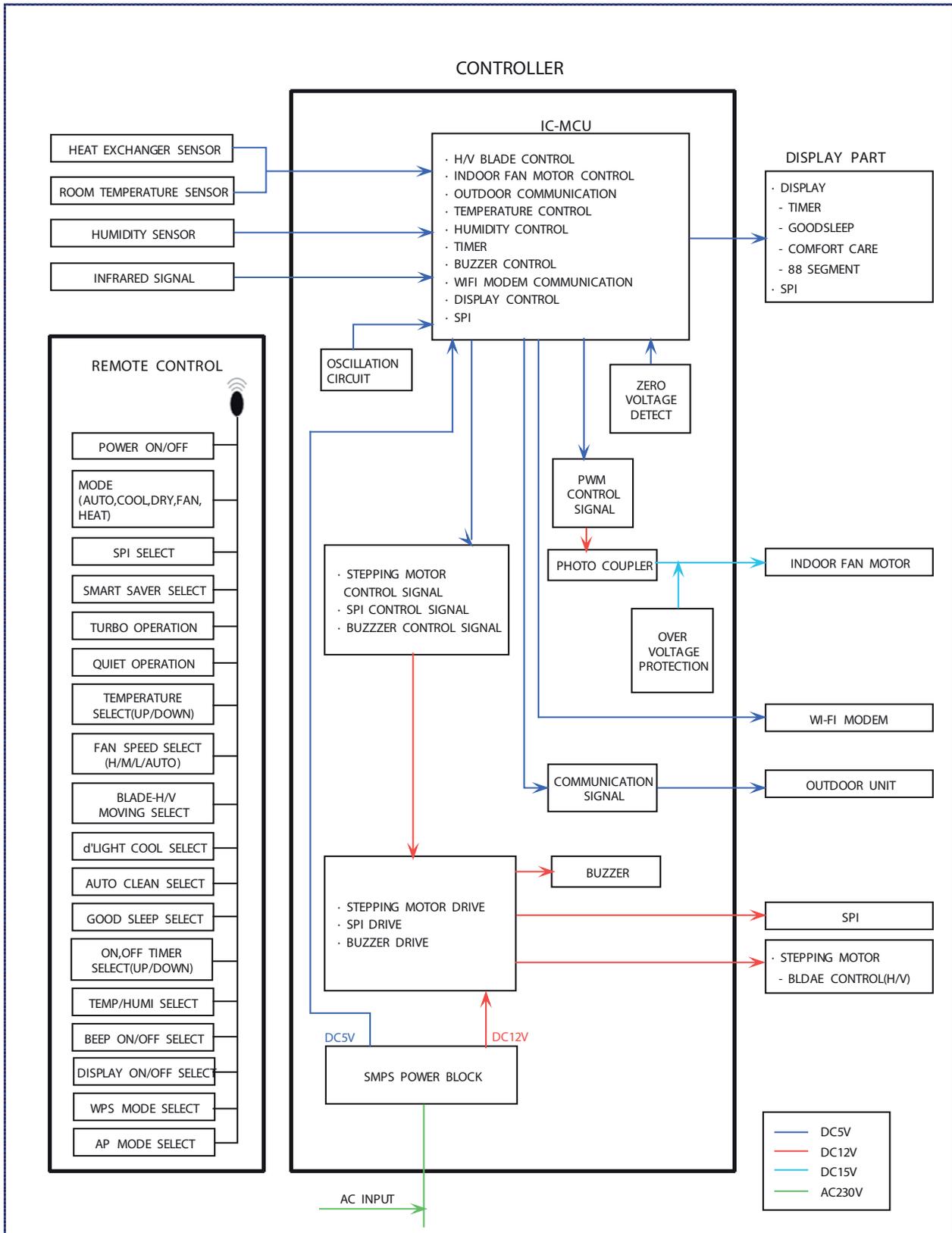
- 1) Press the [SET], [Mode], [Power] button simultaneously for 4 seconds.
  - Smart Install mode can be operated only with the supplied remote controller.
  - During the Smart install mode procedure, remote controller cannot be operated.

### 3. Troubleshooting procedure

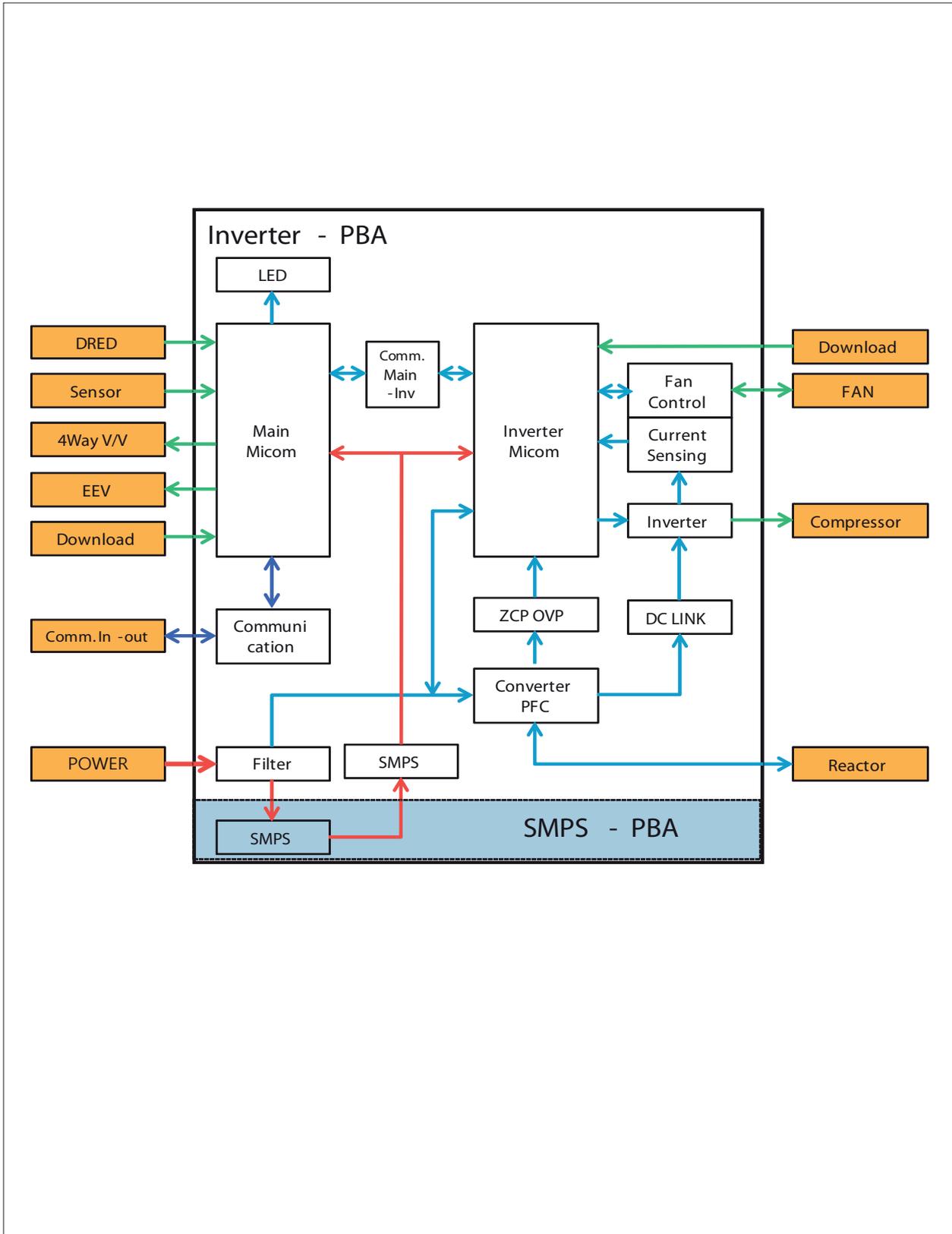


# 11. Block Diagram

## 11-1 Indoor unit



## 11-2 Outdoor unit



### 11-2-1 Pre-inspection Notices

1. Check if you pulled out the AC power plug when you eliminate the PCB or front panel
2. Don't hold the PCB side not impose excessive force on it to eliminate the PCB
3. Don't pull the lead wire but hold the whole housing to connect or disconnect a connector to the PCB
4. In case of outdoor PCB disassembly, check first the complete discharge of condenser after 1 minute power off

### 11-2-2 Inspection procedure

1. Check connector connection and peeling of PCB or bronze coating pattern when you think the PCB is broken
2. The PCB is composed of 3 parts
  - Indoor Main part : MICOM and surrounding circuit, relay, fan motor sensing and driving circuit, temperature sensing circuit power circuit of SMPS, buzzer circuit. Communication circuit
  - Display part : LED lamp, Switch, Remote-control module
  - Outdoor Main part : MICOM and surround circuit, fan motor sensing and driving circuit, compressor driving circuit power circuit of SMPS, PFC control circuit, 4way circuit, communication circuit, OPTION (EEV control circuit, temperature sensing circuit)

### 11-2-3 Indoor detailed inspection procedure

No.	Procedure	Inspection Method	Cause
1	Plug out and pull the PCB out of the control box Check the PCB fuse	1) Is 1st fuse disconnected? 2) Is 2nd fuse disconnected?	. Over current . Indoor Fan motor short . AC part and pattern short of Indoor PBA
2	Supply power if the operating lamp twinkles at this time, the above 1)-3) have no relation	Check the power voltage	
		1) Is the BD71 input voltage 200Vac~240Vac?	. Power cord is fault, Fuse open, Wrong Power cable Wiring, AC part is faulty
		2) Is the voltage between both terminal of IC02 pin #1-#2 12Vdc?	. Switching Trans of Power circuit is faulty
3	Press the ON/OFF button 1. Fan speed(high) 2. Continuous Operation	3) Is the voltage between both terminal of IC02 pin #2-#3 5Vdc?	. Power circuit is faulty, Load short
		1) Is the voltage over AC 180V being imposed on terminal #3-#5 of fan motor connector (CN72)?	. Fan motor of the indoor is faulty
		2) The fan motor of the indoor unit doesn't run	. Fan motor connector(CN72) is faulty
		3) The power voltage between terminal #3-#5 of the connector(CN72) is 0V	. PBA is faulty

11-2-4 Outdoor detailed inspection procedure

No.	Procedure	Inspection Method	Cause
1	Plug out and pull the PCB out of the control box  Check the PCB fuse (Wait 3 minutes after power off)	1) Is 1st fuse disconnected?	. Over current  . AC part and pattern short of Outdoor PBA
2	Check the Wiring	1) Is the Compressor wire connected clockwise? 2) Is the Reactor wire connected normal? 3) Is the Fan wire connected normal? 4) Is the 4way wire connected normal? 5) Is the sensor wire connected normal? 6) Is the EEV wire connected normal?	. Wrong assembly  . Installation(service) condition is bad
3	"Supply power and operate the set (Use Remote-control, button in indoor set)"	Check the power voltage	
		1) Is the voltage between Terminal block L-N 200Vac~240Vac?	. Power cord is faulty, Wrong Power cable Wiring
		2) Is the C006 voltage 200Vac~240Vac?	. Fuse open  . L,N,F1,F2 wire wrong wiring (Terminal Block-PBA)
		3) Is the CN150 voltage 200Vac~240Vac?	. Power circuit is faulty  . Load short
		4) Is the PFC050(#26-#27) voltage 200Vac~240Vac after 3 minutes later?	. Fuse open  . L,N,F1,F2 wire wrong wiring (Terminal Block-PBA)  . PTC020 open  . RY021, RY022 is faulty  . Outdoor Micom(IC201) error
		5) Is the CE101 voltage 280Vdc~320dc after 3 minutes later?	. PFC050 is faulty  . Reactor wire is wrong connection  . Power circuit is faulty, Load short  . BLDC Fan motor error
		6) Is the voltage CN151 #1-#2 voltage 15Vdc?	. Switching Trans of Power circuit is faulty  . Load short
		7) Is the voltage CN152 #1-#2 voltage 12Vdc?	. Switching Trans of Power circuit is faulty  . Load short
		8) Is the voltage CN151 #3-#2 voltage 5Vdc?	. Switching Trans of Power circuit is faulty  . Load short
4	Check the LED lamp display	1) Normal : RED on, GRN blink, YEL off 2) Abnormal - All o check no power - abnormal display : check error mode	. F1,F2 wire wrong wiring  . Outdoor PBA is faulty

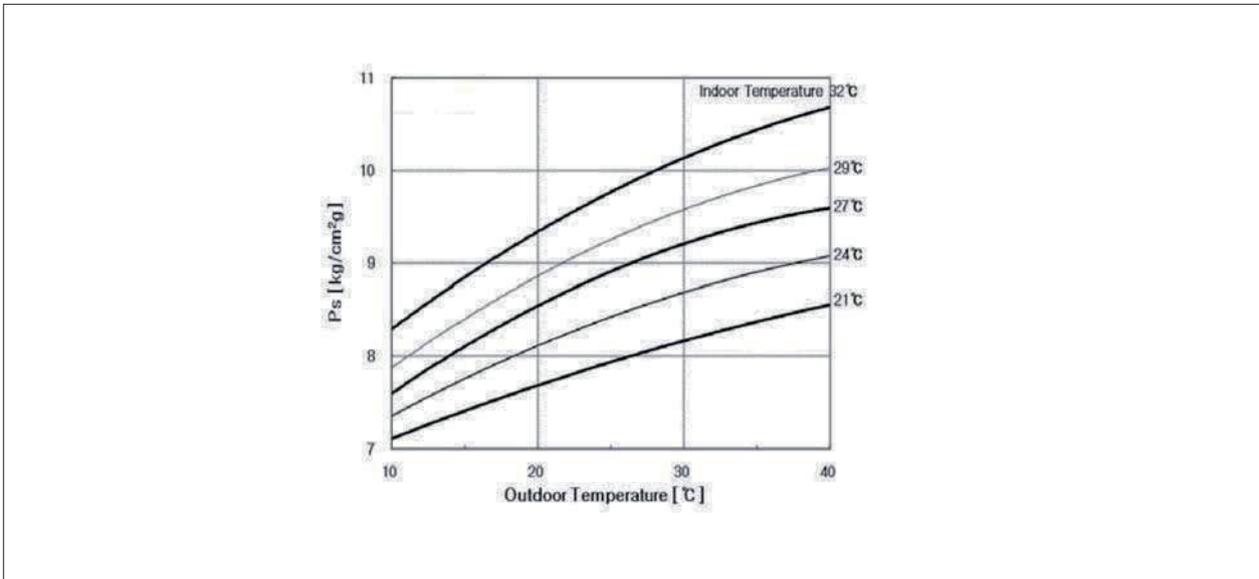
# 12. Reference Sheet

## 12-1 Low Refrigerant Pressure Distribution

Note : Please measure the refrigerant pressure after the air conditioner operates on testing cooling mode during more than 10 minutes.

■ Indoor Temp. Variation : 20°C ~ 32°C

■ Outdoor Temp. Variation : -5°C ~ 45°C



## 12-2 Pressure & Capacity mark

■ Power/Heat

W	cal/s	kcal/h	Btu/h	HP	kg.m/s	lb.m/s
1	0.23885	0.85985	3.4121	0.001341	0.10197	0.73756
4.1868	1	3.6	14.286	0.0056146	0.42693	3.088
1.163	0.27778	1	3.9683	0.0015596	0.11859	0.85778
0.29307	0.06999	0.252	1	3.9302x10 <sup>-4</sup>	0.029885	0.21616
745.7	178.11	641.19	2,544.4	1	76.04	550
9.8067	2.3423	8.4322	33.462	0.013151	1	7.233
1.3558	0.32383	1.0658	4.6262	0.0018182	0.13826	1

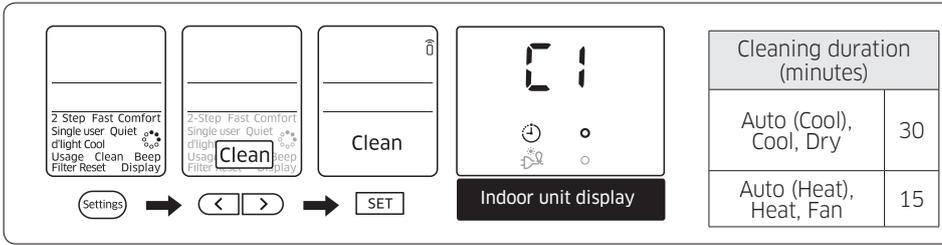
## 12-3 Q & A for Non-trouble

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

Classification	Class	Description
Smells	Q	<b>Whenever the air conditioner is turned on, it stinks.</b>
	A	When are no components in the air conditioner sending out chemical smells. But, when the air conditioner is turned on, other smell sources are sucked into the air conditioner and get out of it. So, find and root out the smell sources. Generally, when the drain hose is taken out to the washing room or there are sources of smells such as a diaper bin, a shoe shelf or a socks bin, bad smells generate. Also, it occurs where glass cleaners or air fresheners are used; when they are sucked in interacting with dusts and moistures inside, bad smells generate. these kinds of organic materials noxious to human bodies. So, we recommend against the use of them.
	Q	<b>Whenever the air conditioner is turned on, it smells sour.</b>
	A	When the room is papered recently, its paste smells would be sucked inside. Also, when the air conditioner is installed in the study room of young boys loving sweat-generating activities such as the basketball, excessive sweats evaporate and get sucked into the air conditioner resulting in bad smells. So, find and root out problem or refresh the room frequently.
	Q	<b>Whenever the air conditioner is turned on, it smells musty.</b>
	A	It is due to the improper keeping of the product after its use. When keeping the product, dry up the inside with the operation of ventilation to prevent must. When the product is kept without drying up the inside with ventilation, mold would grow inside resulting in must. So, open the windows and switch on the ventilation function to get rid of the saturated smell inside.
	Q	<b>Whenever the air conditioner is turned on, it sends out bad smells such as stale smells.</b>
	A	It occurs generally when there are pet animals in the house. Their smells stay at the same place. But, when the air conditioner is turned on, the air gets circulated resulting in the circulation of the smells. So, find and root out the problem or refresh the room frequently.
	Q	<b>It sends out bad smells.</b>
	A	When the air filter is filthy, it could send out bad smells. So, clean the filter and ventilate the room with the windows open while operating the ventilation function.
Operation	Q	<b>It generally works properly. But, when it's considerably hot, it goes off during operation.</b>
	A	It occurs when the outdoor unit is exposed to direct sunlight and the hot air does not escape properly. Set up a sun blind over the outdoor unit and clear the neighboring obstacles from the outdoor unit to provide good ventilation. When it goes off frequently during a heat wave, it would prevent the turnoff and increase the cooling capacity cleaning the outdoor unit or spraying some water to the heat exchanger.
	Q	<b>The remote controller won't operate.</b>
	A	When the batteries run out or the transmitter or receiver of the remote controller is blocked by obstacles, change the batteries or keep the obstacles away from the controlling area. Also, the remote controller may not work under intensive light from a 3-wave length lamp or a neon sign due to the EMI. In this case, take the remote controller closer to the receiver.

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

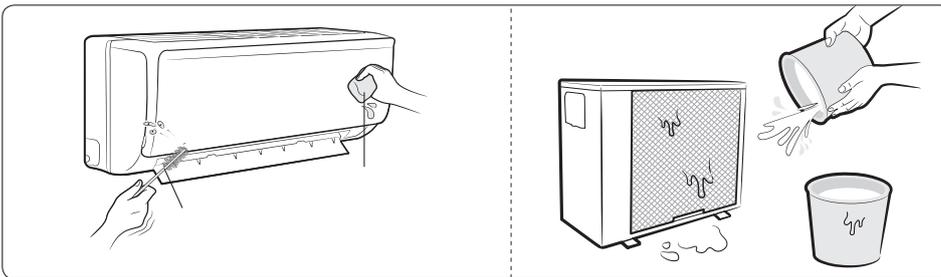
## 12-4 Cleaning the indoor unit exterior and outdoor unit heat exchanger



### NOTE

- When you set the Auto clean timer, **Clean** blinks and then disappears on the remote control display. The Timer (⌚) indicator also appears on the indoor unit display.
- When the air conditioner is off, Auto clean starts immediately when it is selected. When the air conditioner is on, Auto clean starts as soon as the air conditioner stops running.
- During Auto clean, the indoor fan continues to run, and air flow blades remain open to expel ambient air.

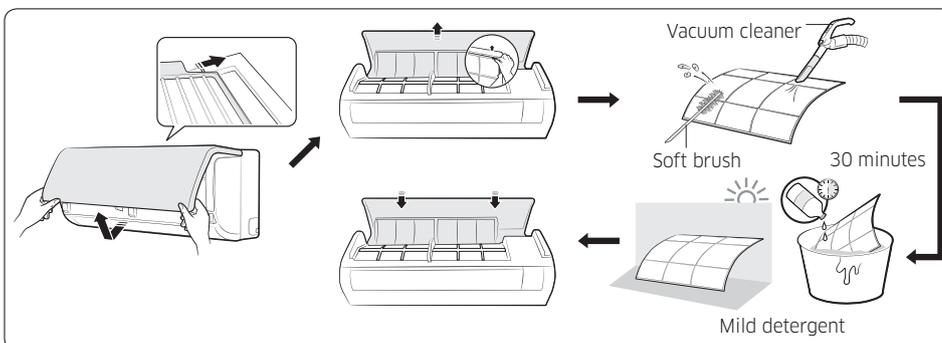
## Cleaning the indoor unit exterior and outdoor unit heat exchanger



### CAUTION

- Do not clean the display by using alkaline detergent.
- Do not use sulphuric acid, hydrochloric acid, or organic solvents (such as thinner, kerosene, and acetone) to clean the surfaces. Do not put any stickers on it as this can damage the surface of the air conditioner.
- When you clean and inspect the heat exchanger on the outdoor unit, contact the local service centre for help.

## Cleaning the filter



### CAUTION

- Do not scrub the air filter with a brush or other cleaning utensil. This may damage the filter.
- Do not expose the air filter to direct sunlight when drying it.

### NOTE

- Clean the air filter every 2 weeks. Cleaning term may vary depending on the usage and environmental conditions.
- If the air filter dries in a humid area, it may produce offensive odours. Clean it again and dry it in a well-ventilated area.

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## 12-5 Installation

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### 12-5-1 Before Installation

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

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

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

### 12-5-2 Installation Procedure

#### ■ Location

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

#### ■ Wall Drilling

Drill the wall downward in a diameter of 60 to 65mm.

#### ■ Fixing Indoor Unit & Outdoor Unit

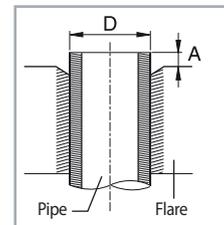
Fix the air conditioner indoor unit securely to the wall. Secure the outdoor unit in a suitable position.

#### ■ Pipe Spooling & Connectingt

You shall cut the pipe with a pipe cutter and grind all the burrs of the cut surface. pipe expansion may continue until the pipe surface becomes uneven or torn apart. Be sure to use a torque wrench to tighten pipes or flare nuts.

#### <Torque & Depth>

Outer Diameter (D)	Torque(kgf-cm)	Depth(A)
ø6.35 mm(1/4")	140~170	1.3 mm
ø9.52 mm(3/8")	250~280	1.8 mm
ø12.70 mm(1/2")	380~420	2.0 mm
ø15.88 mm(5/8")	440~480	2.2 mm
ø19.05 mm(4/4")	9900~1,210	2.2 mm



#### ■ Leak Test

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

#### ■ Drain Hose Connecting

Install the drain hose downward to drain water naturally. Be sure to pour water into the hose to check if it drains well.

#### ■ Electric & Earth Work

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

#### ■ Inspection & Trial Run

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

## 12-6 Installation Diagram of Indoor Unit and Outdoor Unit

### 12-6-1 Air-Purge Procedure

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



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



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



4) Purge the air from the system using vacuum pump for about 30 minutes.  
 - After that, please recheck that pressure is stabilized.  
 - Close the valve of the low pressure side of manifold gauge clockwise.  
 - Remove the hose of the low pressure side of manifold gauge.



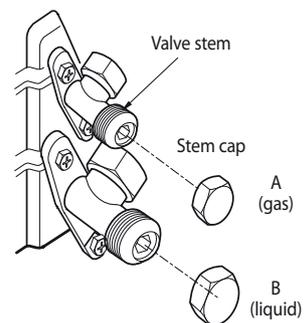
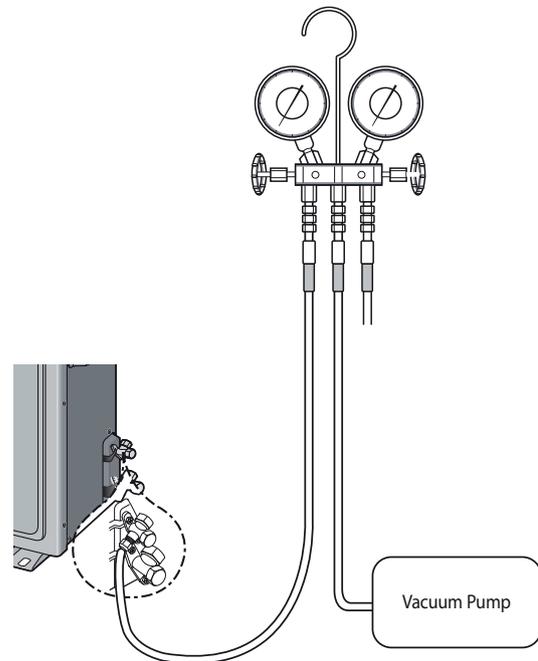
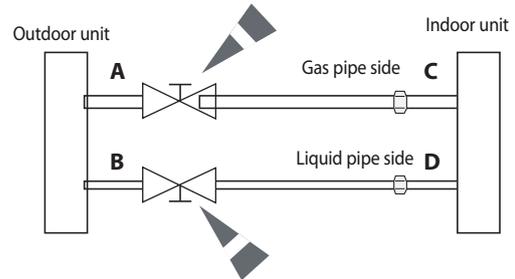
5) Set valve cork of both liquid side and gas side of packed valve to the open position.



6) Mount the valve stem nuts to the 2 way and 3 way valve. And mount the service port cap to 3 way valve.



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



## 12-6-2 "Pump down" Procedure

1) Remove the caps from the 3 way valve and the 3 way valve.



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



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



4) Turn the 3 way valve clockwise to close.



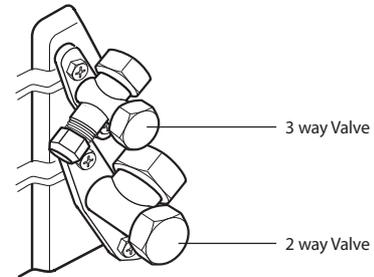
5) When the pressure gauge indicates "0" turn the 3 way valve clockwise to close.



6) Stop operation of the air conditioner.



7) Close the cap of each valve.



### Relocation of the air conditioner

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

## 12-7 Reference Sheet

Index for Model Name

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th
Project		Capacity		Sell	Feature		Series		Color		Unit	Export	
A	R	1	8	R	Y	F	T	A	U	R	/	S	V

ITEM	1st	2nd
RAC	A	R
FAC	A	F
WAC	A	W

ITEM	Reference	3rd	4th
1	Export	0	9
2	Export	1	2
3	Export	1	8
4	Export	2	4
5	Export	3	0

ITEM	5th
Y15	J
Y16	K
Y17	M
Y18	N
Y19	R

ITEM	6th
INVERTER H/P R32	X
INVERTER C/O R32	Y

ITEM	Item2	7th
Export	The virus doctor The India / Latin America A / PAC K besides)	S
Export	With WIFI,but no virus doctor	W
Export	NO virus doctor the India / Latin America A / PAC K besides)	F

**Special instructions:**  
About AR\*\*FSSSCUR/SA ,the 7TH is "S", but there is no virus doctor in these models.

9th		
Export	1st Model	A
Export	2nd Model	B
Export	18 th Model	R

ITEM1	ITEM2	ITEM3	ITEM4	8th
Export	RAC	NEW BORACAY	NEW BORACAY	H
Export	RAC	OLD BORACAY	BORACAY	T

Division	Series	Project	Color name	Division component	Sinkeolreo code (10TH,11TH)
Global	H	NEW BORACAY	DA White	Grille	WK

ITEM1	ITEM2	12th
Export	SET	/
Export	IN	N
Export	OUT	X

ITEM	The existing code	the sale area	CIS Description	The integrated code (13TH,14TH)
1	SV	VIETNAM	VIETNAM (XSV)	SV