SAMSUNG

SPLIT-TYPE AIR CONDITIONER

	INDOOR UNIT	OUTDOOR UNIT
Basic Model:	AR18FCFSCWKNGA	AR18FCFSCWKXGA
	AR24HQFSAWKNER	AR18HQFSAWKXER
	AR24HQFSAWKNER	AR24FCFSAWKXGA
	AR24HQFSAWKNER	AR24HQFSAWKXER
Model Code:	AR18HCFSMWKNAX	AR18HCFSMWKXAX
	AR18HPFSMWKNAX	AR18HPFSMWKXAX
	AR24HCFSMWKNAX	AR24HCFSMWKXAX
	AR24HPFSMWKNAX	AR24HPFSMWKXAX
	AR18HCFSMWKNXL	AR18HCFSMWKXXL
	AR24HCFSMWKNXL	AR24HCFSMWKXXL

SERVICE Manual

AIR CONDITIONER

AR18HCFSMWKNAX
AR18HPFSMWKNAX
AR18HCFSMWKNXL

AR24HCFSMWKNAX
AR24HPFSMWKNAX
AR24HCFSMWKNXL

AR18HCFSMWKXAX
AR18HPFSMWKXAX
AR18HCFSMWKXXL

AR24HCFSMWKXAX
AR24HPFSMWKXAX
AR24HCFSMWKXXL

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1. Precautions

1-1 Installing the air conditioner

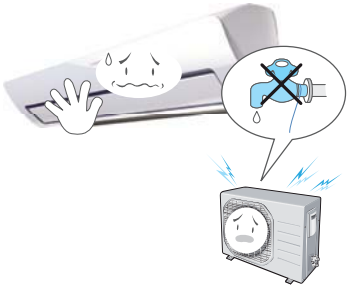
- Uses should not install the air conditioner by themselves.
  Ask the dealer or authorized company to install the air conditioner except window-type air conditioner in U.S.A and Canada.
- If you don't install the air conditioner properly, it may cause a fire, a water leakage or an electric shock.
-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

1-2 Power supply and circuit breaker

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

1-3 During operation

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

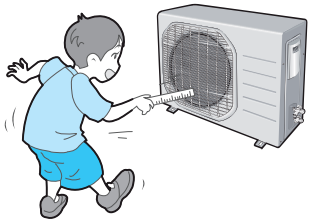


1-4 Disposing of the unit

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

1-5 Others

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



2. Product Specifications

2-1 The Feature of Product

■ 2 step cooling
- Get cool quickly and keep cool comfortably without shivering

■ Single user mode
- No worrying about the electricity bill, even using it when you're alone.

■ Crystal gloss design
- Uniquely stylish and innovative design to enhance your life and home

■ Smart Installation
- Get the confidence that it's perfectly installed

■ Smart Check
- Don't worry about the trouble-shooting in your home

■ Triple Protector Plus
- Use longer without damage in unsuitable conditions

■ Easy Installation
- Secure the easy Installation of Indoor unit and pipe connection

■ Easy Filter
- Quick and easy to clean filter saves time and effort

Item \ Model				Development Model			
				AR18HCFSMWK/AX AR18HCFSMWK/XL	AR18HPFSMWK/AX	AR24HCFSMWK/AX AR24HCFSMWK/XL	AR24HPFSMWK/AX
Type				WALL MOUNTED		WALL MOUNTED	
Design	Indoor						
	Outdoor						
Performance	Cooling/Heeting(ISO)		W	-	-	-	-
			BTU/H	18000 /-	18000 /18500	23300 /-	23300 /24500
	Cooling/Heeting(SASO)		Kcal	-	-	-	-
	Dehumidifying		l/h	1.8	1.8	2.6	2.6
	Noise	Indoor/Outdoor	dB(H/L)	48 /58	48 /58	48 /61	48 /61
	EER	Cooling/Heeting(ISO)	Btu/WH	9.79 /-	9.79/11.18	9.79 /-	9.79 /10.50
		Cooling/Heeting(SASO)	Btu/WH	-	-	-	-
	Power		V/HZ	220V /60Hz	220V /60Hz	220V /60Hz	220V /60Hz
Power	Power Consumption	Cooling/Heeting(ISO)	W	1838 /-	1838 /1655	2380 /-	2380 /2330
		Cooling/Heeting(SASO)	Btu/Wh	-	-	-	-
	Operating Current	Cooling/Heeting(ISO)	A	8.0 /-	8.5 /7.5	10.5 /-	11.5 /11.2
		Cooling/Heeting(SASO)	A	-	-	-	-
	Power Factor	Cooling/Heeting	%	97 /-	97 /97	95 /-	95 /95
	Starting Current		A	-	-	-	-
	Power Cord	Length	m	2	2	2	2
		Number of core wire	-	3	3	3	3
		Capacity	mm^2	1.5	1.5	2.5	2.5
Size	Outer Dimension	Indoor	W*D*H(mm)	1063*294*317	1063*294*317	1063*317*294	1063*317*294
		Outdoor		720*548*265	790*548*285	880*310*638	880*310*638
	Weight(net)	Indoor	Kg	13.2	13.2	13.5	13.5
		Outdoor		32.5	37.2	46.5	50
	Refrigerant Pipe	Liquid	D*L(mm)	6.35*4000	6.35*4000	6.35*4000	6.35*4000
		Gas		12.7*4000	12.7*4000	15.88*4000	15.88*4000
	Drain Hose		D*L(mm)	20*550	20*550	20*550	20*550
Heat Exchanger		Indoor		Φ7.0(Cu), 2R*16S*840mm, 15Hairpin 5-5pass, H-Fin, FP-1.3, 亲水	Φ7.0(Cu), 2R*16S*840mm, 15Hairpin 5-5pass, H-Fin, FP-1.3, 亲水	Φ7.0, 2Rx15(16)Sx840mm, 5-5P	Φ7.0, 2Rx15(16)Sx840mm, 5-5P Cu Hairpin, H1.3, 亲水
		Outdoor		WW-PFC 1R*49C*703mm, FP-1.4	S-FMC 1R*47C*780mm, FP-1.4	Q-PFC 1R*59S*890mm, FP1.2	Q-FMC FP1.4
Refrigerant			g	R22 /750	R22 /950	R22 /900	R22 /1160
Freezer Oil Capacity			cc	550	550	750	750
Refrigerant Control Unit				Capillary Tube	Capillary Tube	Capillary Tube	Capillary Tube
Compressor				UR8D185NEEH	UR8D185NEEH	UR5A240NEEM	UR5A240NEEM
Protection device(OLP)				internal	internal	internal	internal
Air purifying system				-	-	-	-
Cooling Test Condition				INDOOR UNIT:DB27℃/WB19℃ OUTDOOR UNIT:DB35℃/WB24℃	INDOOR UNIT:DB27℃/WB19℃ OUTDOOR UNIT:DB35℃/WB24℃	INDOOR UNIT:DB27℃/WB19℃ OUTDOOR UNIT:DB35℃/WB24℃	INDOOR UNIT:DB27℃/WB19℃ OUTDOOR UNIT:DB35℃/WB24℃
Cooling Operating Condition				INDOOR UNIT:16℃ to 32 ℃ OUTDOOR UNIT:15℃ to 43 ℃	INDOOR UNIT:16℃ to 32 ℃ OUTDOOR UNIT:15℃ to 43 ℃	INDOOR UNIT:16℃ to 32 ℃ OUTDOOR UNIT:15℃ to 43 ℃	INDOOR UNIT:16℃ to 32 ℃ OUTDOOR UNIT:15℃ to 43 ℃
Heating Operating Condition				INDOOR UNIT:16℃ or less OUTDOOR UNIT:-5℃ to 24 ℃	INDOOR UNIT:16℃ or less OUTDOOR UNIT:-5℃ to 24 ℃	INDOOR UNIT:16℃ or less OUTDOOR UNIT:-5℃ to 24 ℃	INDOOR UNIT:16℃ or less OUTDOOR UNIT:-5℃ to 24 ℃

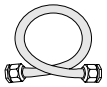
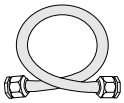
2-3 The Comparative Specifications of Product

Item \ Model		Development Model			
		AR18HCFSMWK/AX AR18HCFSMWK/XL	AR18HPFSMWK/AX	AR24HCFSMWK/AX AR24HCFSMWK/XL	AR24HPFSMWK/AX
Design	Indoor				
	Outdoor				
Net Weight	Indoor (Kg)	13.2	13.2	13.5	13.5
	Outdoor(Kg)	32.5	37.2	46.5	50
Outer Dimension (Width x Depth x Height)	Indoor (mm)	1063*294*317	1063*294*317	1063*317*294	1063*317*294
	Outdoor(mm)	720*548*265	790*548*285	880*310*638	880*310*638
Noise	Indoor (dB)	48	48	48	48
	Outdoor(dB)	58	58	61	61
Air purifying system	Filter	FULL HD FILTER	FULL HD FILTER	FULL HD FILTER	FULL HD FILTER

2-4 Accessory and Option Specifications

Item	Descriptions	Code-No.	Q'TY	Remark
	Installation Plate ✳✳09/12✳ (03 frame)	DB90-07732A	1	Indoor unit case
	Installation Plate ✳18/24/30✳ (05 frame)	DB90-07731A	1	
	Remote controller	DB93-14195B	1	
	Batteries for Remote controller	4301-000121	2	
	Manual Users & Install	DB68-03988A	1	
	Wi-Fi Manual	DB68-03984A	-	
	M4x10 Tapped Screws	DB97-23032A	1	
	M4 x 16 Tapped Screws	DB97-11984A	1	

2-4 Accessory and Option Specifications

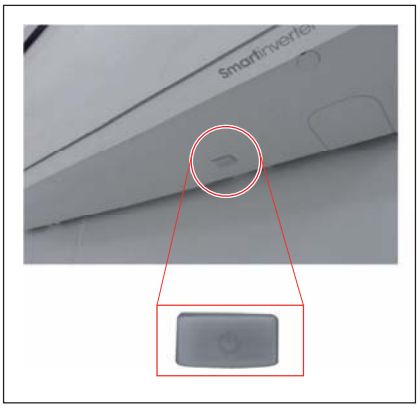
Item	Descriptions	Code-No.	Q'TY	Remark
	RUBBER-LEG	DB73-20134A	4	Outdoor Unit
	ASSY-PIPING	DB96-03723A	1	
	ASSY-PIPING	DB96-03723C	1	
	HOSE DRAIN-ASSY	DB67-00461A	1	
	TAPE ETC	DB72-00459A	2	
	ASSY-PUTTY A	DB98-10568A	0.1KG	
	CABLE-CLAMP A	DB39-20224A	3	
	CABLE-CLAMP B	DB39-20224B	3	
	SCREW-TAPPING	6002-000540	6	

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 teat mode operate 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 Indoor Display Error and Check Method

ERROR MODE				DESCRIPTION
7-SEG	LED1	LED2	LED3	
	OPERATION	TIMER	OPTION	
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
E422	●	○	◑	SMART INSTALL error

●: LAMP ON ○: LAMP OFF ◑: LAMP BLINK

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 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

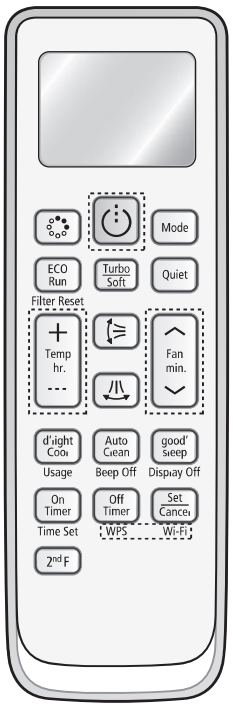
Step 1

Enter the Option Setup mode.

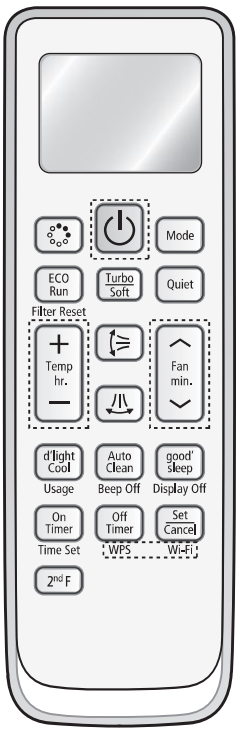
1. Tack out the batteries of remote control.
2. Press the temperature (+ Temp −) button simultaneously and insert the battery again.
3. Make sure the remote control display shown as 00.

Step 2

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



	Feature	Display
1	The default value is 00. Every time you push the Mode button, the display panel reads ON Auto ➡ Cool ➡ Dry ➡ Fan ➡ Heat , OFF Auto ➡ Cool ➡ Dry ➡ Fan ➡ Heat repeatedly.	
2	Push the Temp button to set the display panel to 3. Every time you push the Temp button, the display panel reads 0➡1➡2➡3➡ ..... ➡9➡A➡b➡c➡d➡E➡F repeatedly.	
3	Push the Mode button to 00. Every time you push the Temp button, the display panel reads 0➡1➡2➡3➡ ..... ➡9➡A➡b➡c➡d➡E➡F repeatedly.	
4	Push the Mode button to 00. Push the Fan button to set the display panel to 7. Every time you push the Fan button, the display panel reads 0➡1➡2➡3➡ ..... ➡9➡A➡b➡c➡d➡E➡F repeatedly.	
5	Push the Mode button to 00. Push the Temp button to set the display panel to C. Every time you push the Temp button, the display panel reads 0➡1➡2➡3➡ ..... ➡9➡A➡b➡c➡d➡E➡F repeatedly.	
6	Push the Fan button to set the display panel to 2. Every time you push the Fan button, the display panel reads 0➡1➡2➡3➡ ..... ➡9➡A➡b➡c➡d➡E➡F repeatedly.	



	Feature	Display
7	Push the Mode button to . Push the Fan button to set the display panel to 5. Every time you push the Fan button, the display panel reads 0→1→2→3→ ..... →9→A→b→c→d→E→F repeatedly.	Heat 60
8	Push the Fan button to set the display panel to 8. Every time you push the Fan button, the display panel reads 0→1→2→3→ ..... →9→A→b→c→d→E→F repeatedly.	Heat 6C
9	Push the Mode button to . Push the Fan button to set the display panel to 8. Every time you push the Fan button, the display panel reads 0→1→2→3→ ..... →9→A→b→c→d→E→F repeatedly.	Auto 80
10	Push the Fan button to set the display panel to 3. Every time you push the Fan button, the display panel reads 0→1→2→3→ ..... →9→A→b→c→d→E→F repeatedly.	Auto 83
11	Push the Mode button to . Push the Fan button to set the display panel to 1. Every time you push the Fan button, the display panel reads 0→1→2→3→ ..... →9→A→b→c→d→E→F repeatedly.	Cool 10
12	Push the Mode button to .	Dry 00
13	Push the Mode button to .	Fan 00
14	Push the Mode button to .	Heat 00

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

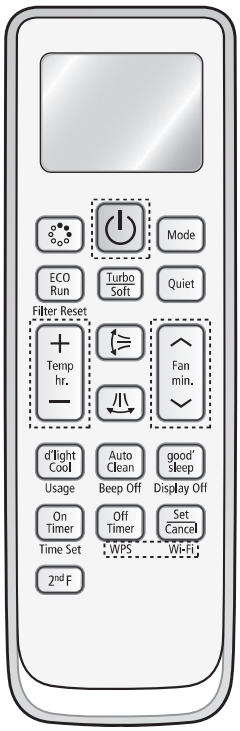
Press the Mode (Mode) Selection key to set the display part and check the display part.
→ The display part shows like below when each time you press Mode button.

Step 4 Pressing the ON/OFF button ( ) .

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

Step 5

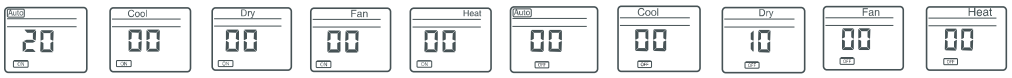
Enter the Options Setup mode and select your options asscording to the following procedure.



	Feature	Display
1	Step 1 (Enter the Option Setup mode) is executed. (Seg25 ~ 48 for setting remote control Setup)	
2	Push the Mode button to set the display panerl to 2. Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ··· 9 → A → b → c → d → E → F repeatedly.	Auto 20
3	Push the Mode button to	Cool 00
4	Push the Mode button to	Dry 00
5	Push the Mode button to	Fan 00
6	Push the Mode button to	Heat 00
7	Push the Mode button to .	Auto 00
8	Push the Mode button to .	Cool 00
9	Push the Mode button to .	Dry 00
10	Push the Mode button to set the display panerl to 1. Every time you push the button, the display panel reads 0 → 1 → 2 → 3 → ··· 9 → A → b → c → d → E → F repeatedly.	Dry 10
11	Push the Mode button to .	Fan 00
12	Push the Mode button to .	Heat 00

Step 6 Upon completion of the selection, check you made right selections.

Press the Mode (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 unit, the sound "Ding" or "Diriring" is heard and the OPERATION ICON(≡) lamp of the display is flickering at the same time, then the input of option is completed.
(If the 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 after setting the option code, see if the correct option code is set up for its model.

□Option Items

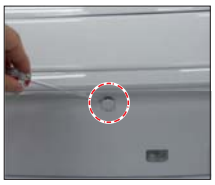
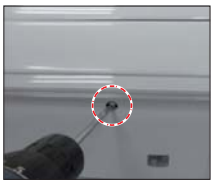
Model	1~6	7~12	13~18	19~24
AR18HCFSMWK/AX	000000	17823C	290109	300000
AR18HPFSMWK/AX	007824	178207	290109	300000
AR24HCFSMWK/AX	000000	178229	280109	300000
AR24HPFSMWK/AX	007827	178229	280109	300000
AR18HCFSMWK/XL	000000	178229	280109	300000
AR24HPFSMWK/XL	007827	178229	280109	300000

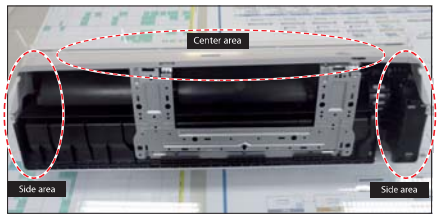
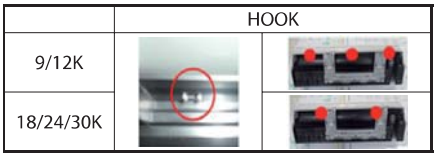
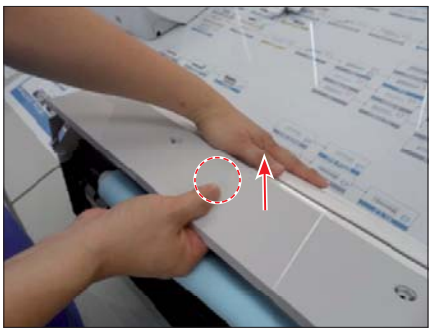
4. Disassembly and Reassembly

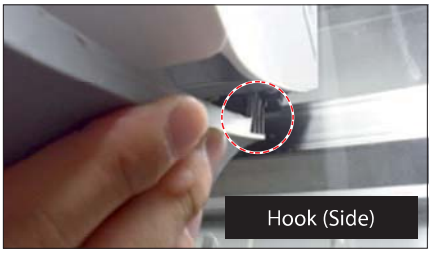
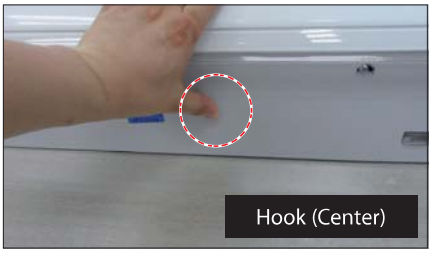
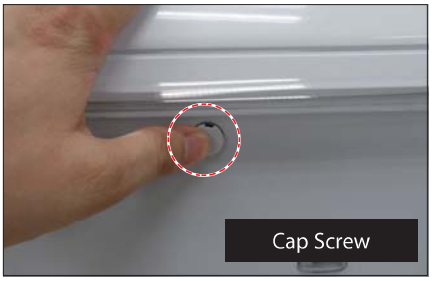
■ Necessary Tools

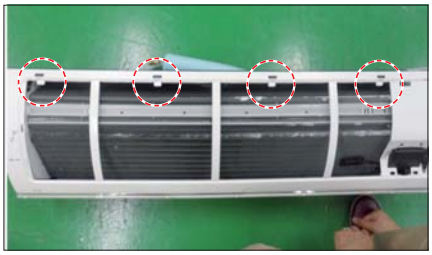
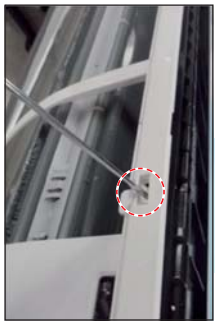
Item	Remark
+SCREW DRIVER	
MONKEY SPANNER	
- SCREW DRIVER	

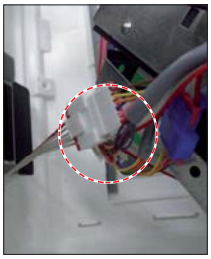
4-1. Indoor Unit

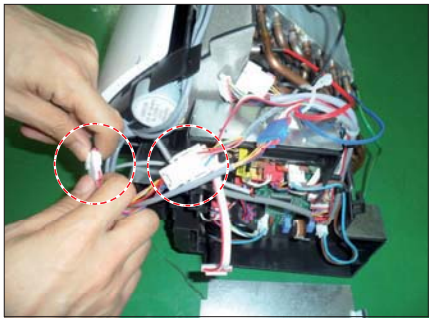
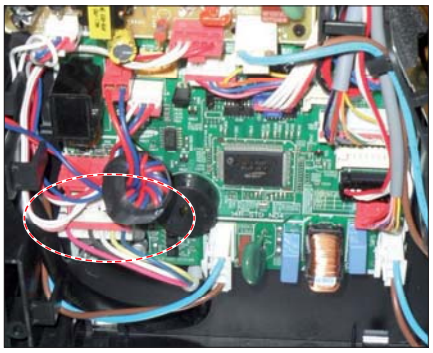
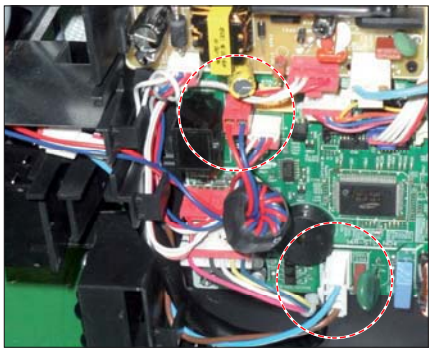
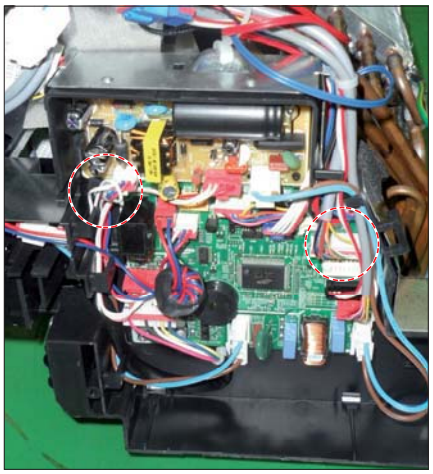
No	Parts	Procedure	Remark
1	PANEL-FRONT	1) Stop the driving of air conditioner and shut off main power supply.	
		2) Detach FILTER PRE from the PANEL FRONT.	
		3) Cover Panel is assembled on bottom of indoor unit as shown in the figure. Remove the Cap Screw as shown on the right side and then remove the screw and separate the Cover Panel.	  

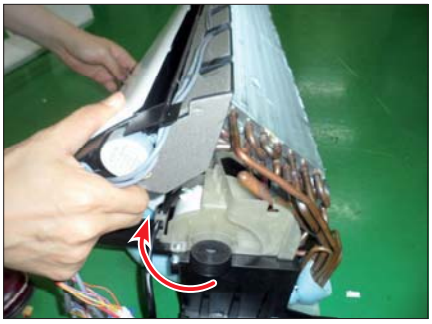
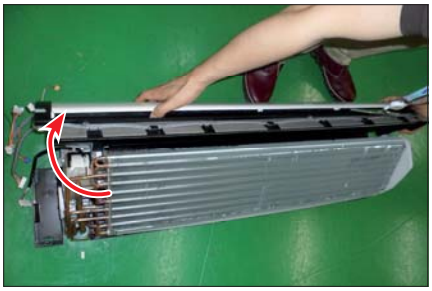
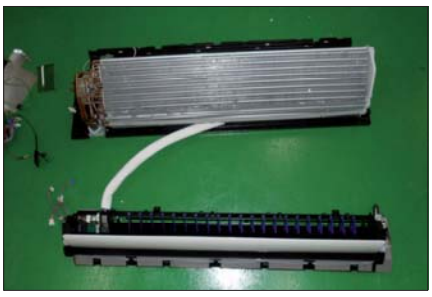
No	Parts	Procedure	Remark
		4) Cover Panel is fixed to body by Hook in center area and side area.	
			
		5) Separate the hook after pushing both end of Cover Panel as shown in the figure. (Watch out for the damage of the hook)	
		6) Raise front part upward obliquely as shown in the figure and then remove the hooks.	
			

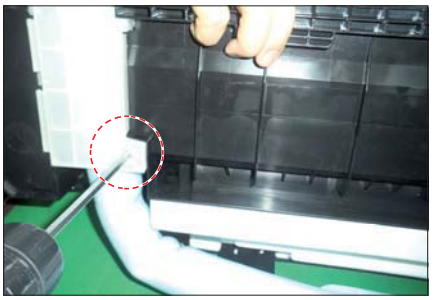
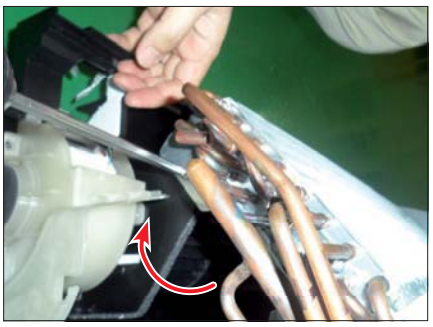
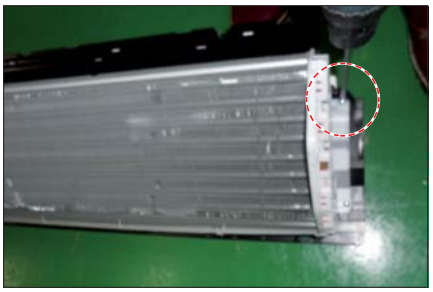
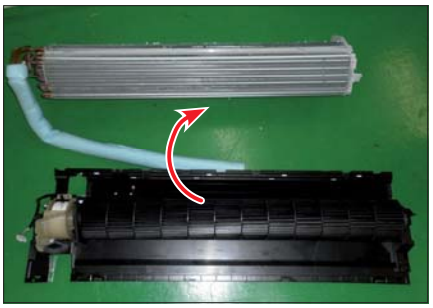
No	Parts	Procedure	Remark
		Caution: Assembly of Cover Panel after service end. - Reassembly is in the reverse order of the removal. - Piping and drain hose must be careful not to damage and Progress must be done with both hands.	  Hook (Side)  Hook (Center)  Screw  Cap Screw

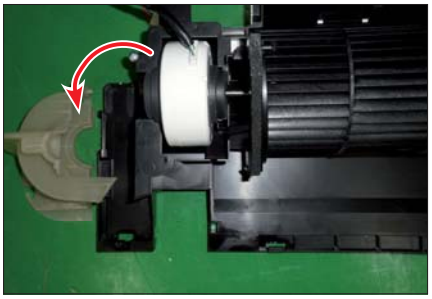
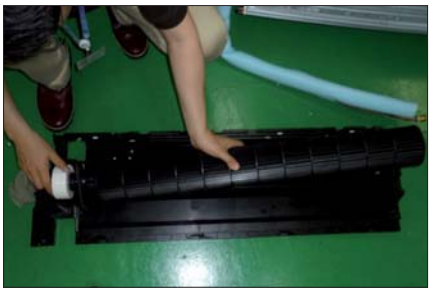
No	Parts	Procedure	Remark
		7) To detach the PANEL-FRONT from the main frame, unfasten 2 screws at the bottom. (use + Screw Driver)	 
		8) To detach the COVER-PANEL from the main frame, loosen 4 HOOK Structures. When separate the hook : Use the (-) screw Driver. (-)Screw Driver Insert the hook and then pull the hook as shown on the right side. (Watch out for the damage of the hook)	  

No	Parts	Procedure	Remark
		9) Remove the Panel Frame from the Main Frame as shown on the right side.	
			
		10) Remove the WIFI KIT connector. WIFI KIT connector is located of Panel Front. (For model with WIFI KIT)	 
			

No	Parts	Procedure	Remark
2	CONTORL IN	5) Loosen Stepping MOTOR Wire / BLADE Wire.	
		6) Loosen MOTOR Wire. ⚠ Caution: When you separate the connector, pull pressing the locking button.	
		7) Loosen the terminal block wires. ⚠ Caution: When you separate the connector, pull pressing the locking button.	
		8) Loosen the Thermistor wire connector, Display wire connector. ⚠ Caution: When you separate the connector, pull pressing the locking button.	

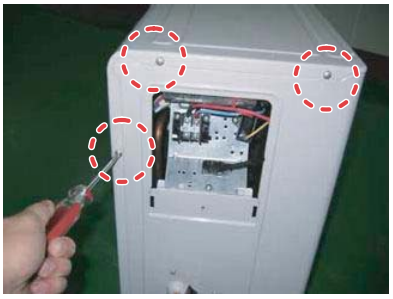
No	Parts	Procedure	Remark
5	EVAPORATOR	9) Take off the CASE-CONTROL from the main frame after loosen the remaining connector. ⚠ Caution: When you separate the connector, pull pressing the locking button.	
3	TRAY DRAIN	1) To detach TRAY-DRAIN from the main frame, pull the bottom of the TRAY-DRAIN towards you.	  

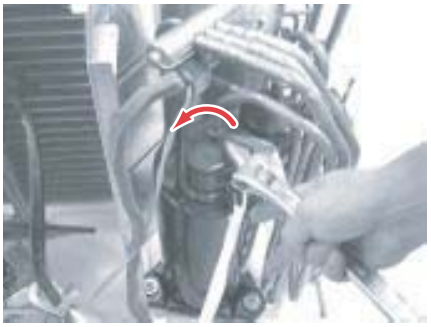
No	Parts	Procedure	Remark
4	Evaporator	1) Detach the HOLDER PIPE.	
		2) Unfasten the screw at the left side. (use + Screw Driver)	
		3) Unfasten the screw at the right side. (use + Screw Driver)	
		4) To detach Evaporator from the main frame, pull the bottom of the Evaporator towards you.	

No	Parts	Procedure	Remark
5	FAN MOTOR & CROSS FAN	1) Unfasten the screw. (use + Screw Driver)	
		2) Detach the FAN Motor case.	
		3) Unfasten the screw a little. (use + Screw Driver)	
		4) Pull the CROSS-FAN to the left side.	

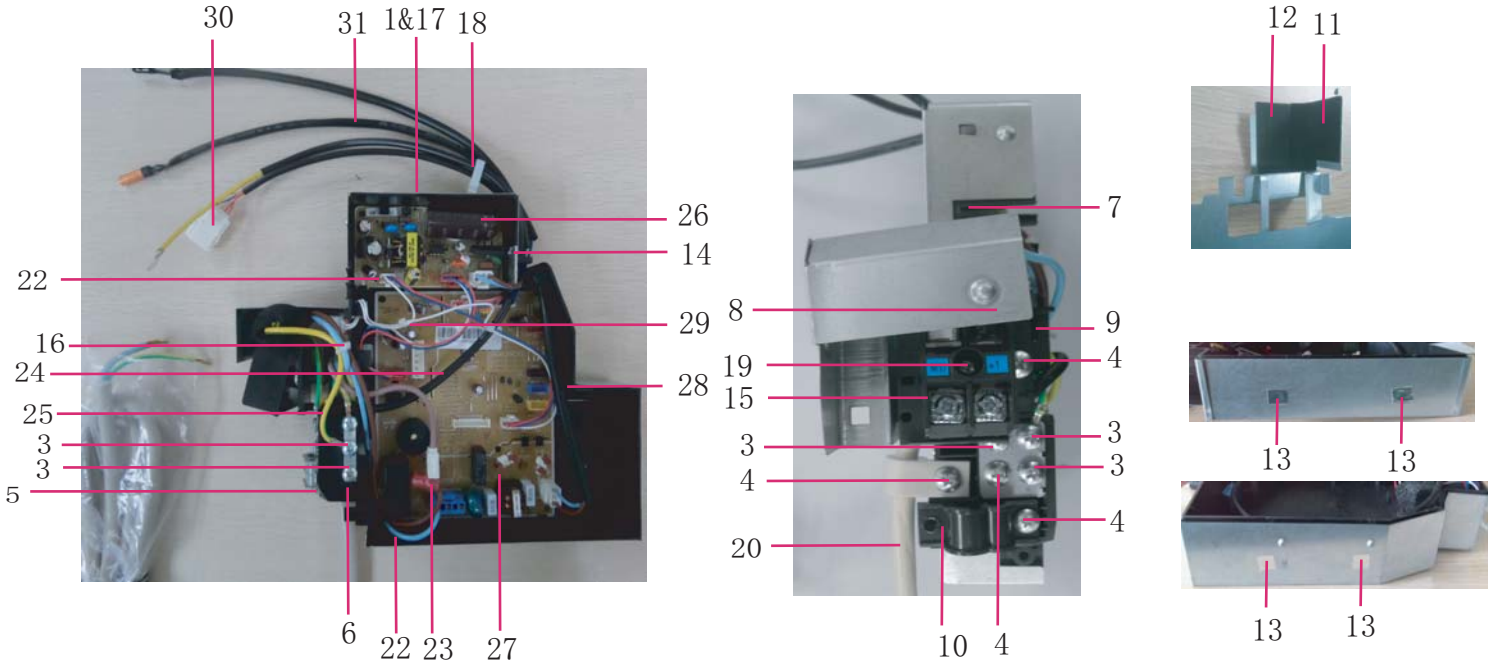
No	Parts	Procedure	Remark
6	Assy SPI Lamp	1) Remove the Assy SPI Lamp from the Back Body as shown on the right side. **⚠ Caution.** - Confirm Seal of backside necessarily after replace of Assy SPI Lamp. - Seal should be close adhesion to SPI Lamp. - Measure as shown on the right side since replace. (If the seal is not close adhesion perfectly : Defectiveness can happen)	 

4-2 Outdoor Unit

No	Parts	Procedure	Remark
1	Common Work	1) Loosen the fixing screw of the Cover Control.	
		2) Loosen the fixing screws on right and left, back Cabinet-Side edge and a fixing screw on the Cabinet-Front lower to detach the Cabinet-Front.	
		3) Loosen the fixing screws of the Ass'y-Control out.	
		4) Loosen the fixing screws of the Cabinet-Side RH.	
		5) Loosen the fixing screws of the Cabinet-Side LF.	

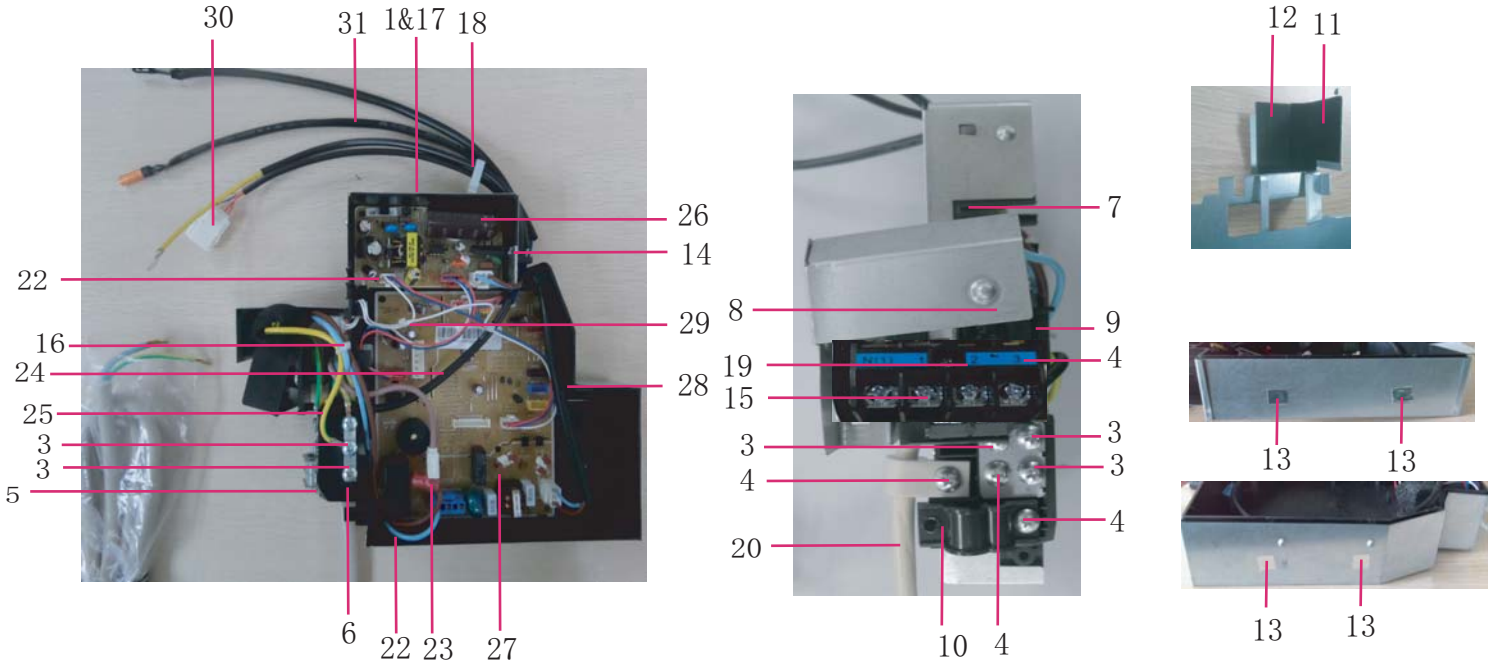
No	Parts	Procedure	Remark
2	Fan & Motor	1) Detach the Nut Flange.(Turn counterclock-wise because the screw is right-handed) 2) Detach the Fan. 3) Loosen 4 fixing screws to detach the Motor.	 
3	Heat Exchanger	1) Loosen 3 fixing screws of the Bar Steel. 2) Loosen 2 fixing screws on both sides. 3) Disassemble the pipe in both inlet and outlet with welding torch. 4) Detach the Heat Exchanger. ⚠ Before you disassemble the pipes and Condenser, be sure that there should be no refrigerant remained in the unit.	 
4	Compressor	1) Loosen the Terminal Cover nut to open the Terminal Cover. 2) Disassemble the cloth sound felt. 3) Disassemble the pipe in both inlet and outlet of the Compressor with welding torch. 4) Loosen the 3 bolts at the bottom. 5) Detach the Compressor.	 

ASSY CONTROL IN (DB93-14247 SERIES) 18K HC



NO	Parts Code	Parts Description	Spec.	Quantity
1	DB68-02809A	LABEL BAR CODE	-	1
2	DB90-07766F	ASSY CASE CONTROL IN	-	1
3	6002-000231	SCREW-TAPPING	EARTH SCREW	5
4	6009-001001	SCREW-SPECIAL	-	5
5	DB61-05812A	PLATE CONTROL-SUB	地线钣金(大)	1
6	DB61-05890A	PLATE CONTROL-SUB	地线钣金(小)	1
7	DB61-05891A	CASE CONTROL-IN	-	1
8	DB61-05961A	PLATE CONTROL-LEFT	左钣金	1
9	DB61-05963A	SUPPORT-CONTROL	-	1
10	DB61-06088A	HOLDER-WIRE		1
11	DB62-11656C	SEAL CUTT	-	0.052
12	DB62-11670A	SEAL CONTROL-A	-	1
13	DB63-03553C	SHEET-CONTROL	-	4
14	DB63-03553D	SHEET-CONTROL	-	1
15	DB65-00324A	TERMINAL BLOCK-THERMAL FUSE	-	1
16	DB65-10088D	CABLE TIE	-	1
17	DB68-02809A	LABEL BAR CODE	-	1
18	DB71-50021A	WIRE-SADDLE	-	1
19	DB91-00309A	ASSY-SCREW TAPPING	-	1
20	DB93-03038D	ASSY POWER CORD	-	1
21	DB93-14207B	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-DC	1
22	DB93-14214A	ASSY CONNECTOR WIRE-POWER	WIRE-POWER(N)	1
23	DB93-14224A	ASSY CONNECTOR WIRE-POWER	WIRE-COMP	1
24	DB93-14245A	ASSY CONNECTOR WIRE-EARTH	WIRE-EARTH	1
25	DB93-14245B	ASSY CONNECTOR WIRE-EARTH	WIRE-EARTH	1
26	DB92-02861A	ASSY MODULE	POWER PBA	1
27	DB92-02871D	ASSY PCB MAIN	MAIN PBA	1
28	DB93-14202A	ASSY CONNECTOR WIRE-POWER	WIRE-AC	1
29	DB93-14208A	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-BLDC(19V)	1
30	DB93-14218A	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-STEP MOTOR	1
31	DB95-05163B	ASSY THERMISTOR IN	SENSOR	1

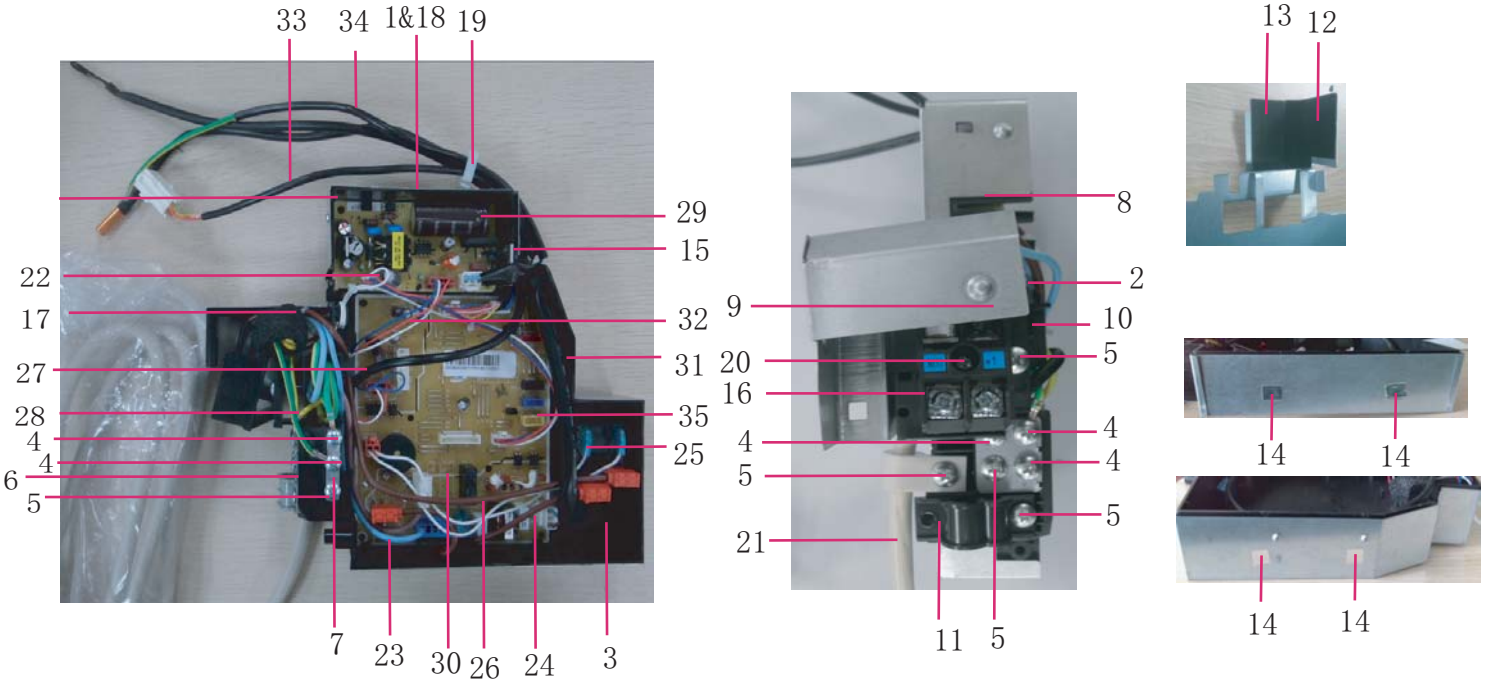
ASSY CONTROL IN (DB93-14247 SERIES) 18K HP



NO	Parts Code	Parts Description	Spec.	Quantity
1	DB68-02809A	LABEL BAR CODE	-	1
2	DB90-07766E	ASSY CASE CONTROL IN	-	1
3	6002-000231	SCREW-TAPPING	EARTH SCREW	5
4	6009-001001	SCREW-SPECIAL	-	5
5	DB61-05812A	PLATE CONTROL-SUB	地线钣金(大)	1
6	DB61-05890A	PLATE CONTROL-SUB	地线钣金(小)	1
7	DB61-05891A	CASE CONTROL-IN	-	1
8	DB61-05961A	PLATE CONTROL-LEFT	左钣金	1
9	DB61-05963A	SUPPORT-CONTROL	-	1
10	DB61-06088A	HOLDER-WIRE		1
11	DB62-11656C	SEAL CUTT	-	0.052
12	DB62-11670A	SEAL CONTROL-A	-	1
13	DB63-03553C	SHEET-CONTROL	-	4
14	DB63-03553D	SHEET-CONTROL	-	1
15	DB65-00326B	TERMINAL BLOCK-THERMAL FUSE	-	1
16	DB65-10088D	CABLE TIE	-	1
17	DB68-02809A	LABEL BAR CODE	-	1
18	DB71-50021A	WIRE-SADDLE	-	1
19	DB91-00309A	ASSY-SCREW TAPPING	-	1
20	DB93-03038D	ASSY POWER CORD	-	1
21	DB93-14207B	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-DC	1
22	DB93-14216A	ASSY CONNECTOR WIRE-POWER	WIRE-POWER(N)	1
23	DB93-14224A	ASSY CONNECTOR WIRE-POWER	WIRE-COMP	1
24	DB93-14245A	ASSY CONNECTOR WIRE-EARTH	WIRE-EARTH	1
25	DB93-14245B	ASSY CONNECTOR WIRE-EARTH	WIRE-EARTH	1
26	DB92-02861A	ASSY MODULE	POWER PBA	1
27	DB92-02871C	ASSY PCB MAIN	MAIN PBA	1
28	DB93-14202A	ASSY CONNECTOR WIRE-POWER	WIRE-AC	1
29	DB93-14208A	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-BLDC(19V)	1
30	DB93-14218A	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-STEP MOTOR	1
31	DB95-05163A	ASSY THERMISTOR IN	SENSOR	1

ASSY CONTROL IN (DB93-14234 SERIES)

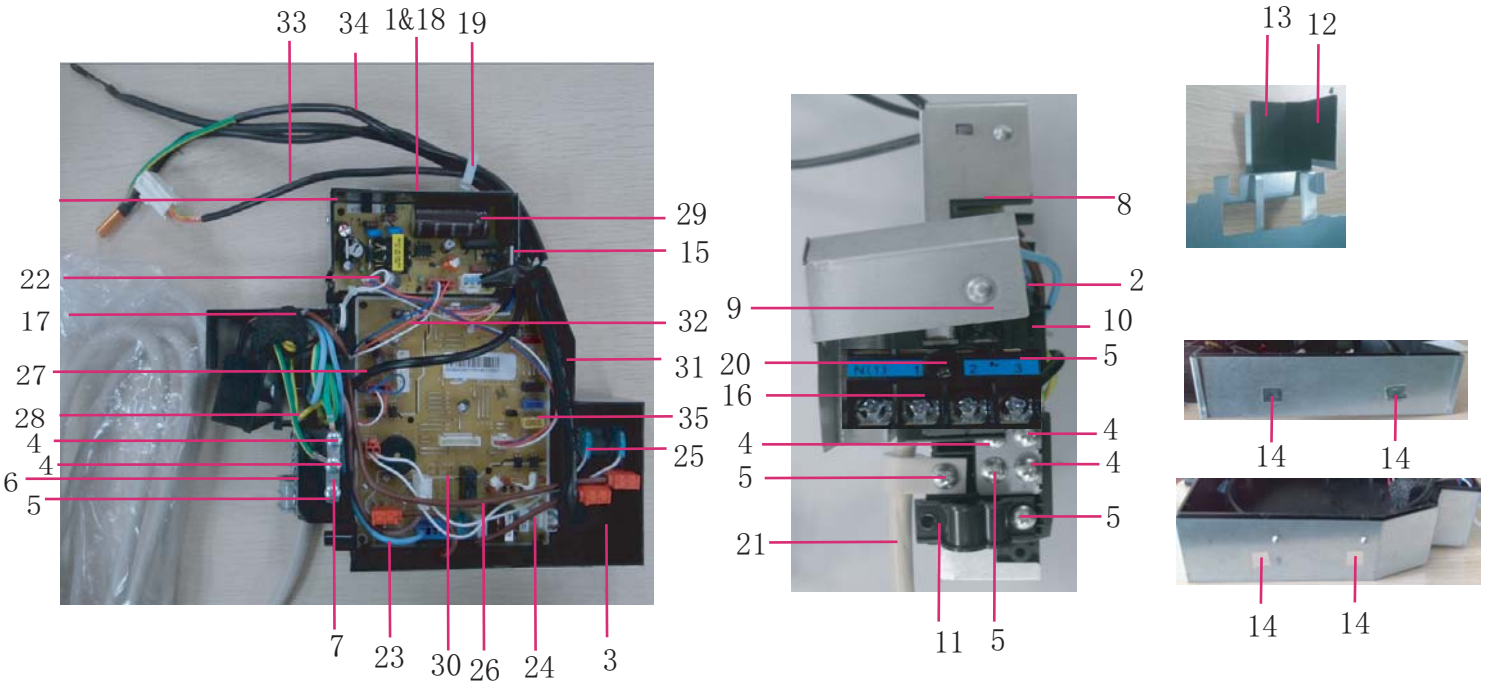
24K HC



NO	Parts Code	Parts Description	Spec.	Quantity
1	DB68-02809A	LABEL BAR CODE	-	1
2	DB90-07766D	ASSY CASE CONTROL IN	-	1
3	3501-001432	RELAY-POWER	-	1
4	6002-000231	SCREW-TAPPING	EARTH SCREW	5
5	6009-001001	SCREW-SPECIAL	-	5
6	DB61-05812A	PLATE CONTROL-SUB	-	1
7	DB61-05890A	PLATE CONTROL-SUB	-	1
8	DB61-05891A	CASE CONTROL-IN	-	1
9	DB61-05961A	PLATE CONTROL-LEFT	-	1
10	DB61-05963A	SUPPORT-CONTROL	-	1
11	DB61-06088A	HOLDER-WIRE		1
12	DB62-11656C	SEAL CUTT	-	0.052
13	DB62-11670A	SEAL CONTROL-A	-	1
14	DB63-03553C	SHEET-CONTROL	-	4
15	DB63-03553D	SHEET-CONTROL	-	1
16	DB65-00324A	TERMINAL BLOCK-THERMAL FUSE	-	1
17	DB65-10088D	CABLE TIE	-	1
18	DB68-02809A	LABEL BAR CODE	-	1
19	DB71-50021A	WIRE-SADDLE	-	1
20	DB91-00309A	ASSY-SCREW TAPPING	-	1
21	DB93-01638D	ASSY POWER CORD	-	1
22	DB93-14207B	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-DC	1
23	DB93-14214A	ASSY CONNECTOR WIRE-POWER	WIRE-POWER(N)	1
24	DB93-14222A	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-DC RELAY CONTROL	1
25	DB93-14223A	ASSY CONNECTOR WIRE-POWER	WIRE-RELAY CONTROL	1
26	DB93-14224B	ASSY CONNECTOR WIRE-POWER	WIRE-COMP	1
27	DB93-14245A	ASSY CONNECTOR WIRE-EARTH	WIRE-EARTH	1
28	DB93-14245B	ASSY CONNECTOR WIRE-EARTH	WIRE-EARTH	1
29	DB92-02861A	ASSY MODULE	POWER PBA	1
30	DB92-02871B	ASSY PCB MAIN	MAIN PBA	1
31	DB93-14202A	ASSY CONNECTOR WIRE-POWER	WIRE-AC	1
32	DB93-14208A	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-BLDC(19V)	1
33	DB93-14218A	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-STEP MOTOR	1
34	DB95-05163B	ASSY THERMISTOR IN	SENSOR	1
35	DB93-04695B	ASSY CONNECTOR WIRE	SPI-WIRE	1

ASSY CONTROL IN (DB93-14234 SERIES)

24K HP



NO	Parts Code	Parts Description	Spec.	Quantity
1	DB68-02809A	LABEL BAR CODE	-	1
2	DB90-07766C	ASSY CASE CONTROL IN	-	1
3	3501-001432	RELAY-POWER	-	1
4	6002-000231	SCREW-TAPPING	EARTH SCREW	5
5	6009-001001	SCREW-SPECIAL	-	5
6	DB61-05812A	PLATE CONTROL-SUB	-	1
7	DB61-05890A	PLATE CONTROL-SUB	-	1
8	DB61-05891A	CASE CONTROL-IN	-	1
9	DB61-05961A	PLATE CONTROL-LEFT	-	1
10	DB61-05963A	SUPPORT-CONTROL	-	1
11	DB61-06088A	HOLDER-WIRE		1
12	DB62-11656C	SEAL CUTT	-	0.052
13	DB62-11670A	SEAL CONTROL-A	-	1
14	DB63-03553C	SHEET-CONTROL	-	4
15	DB63-03553D	SHEET-CONTROL	-	1
16	DB65-00326B	TERMINAL BLOCK-THERMAL FUSE	-	1
17	DB65-10088D	CABLE TIE	-	1
18	DB68-02809A	LABEL BAR CODE	-	1
19	DB71-50021A	WIRE-SADDLE	-	1
20	DB91-00309A	ASSY-SCREW TAPPING	-	1
21	DB93-01638D	ASSY POWER CORD	-	1
22	DB93-14207B	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-DC	1
23	DB93-14216A	ASSY CONNECTOR WIRE-POWER	WIRE-POWER(N)	1
24	DB93-14222A	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-DC RELAY CONTROL	1
25	DB93-14223A	ASSY CONNECTOR WIRE-POWER	WIRE-RELAY CONTROL	1
26	DB93-14224B	ASSY CONNECTOR WIRE-POWER	WIRE-COMP	1
27	DB93-14245A	ASSY CONNECTOR WIRE-EARTH	WIRE-EARTH	1
28	DB93-14245B	ASSY CONNECTOR WIRE-EARTH	WIRE-EARTH	1
29	DB92-02861A	ASSY MODULE	POWER PBA	1
30	DB92-02871A	ASSY PCB MAIN	MAIN PBA	1
31	DB93-14202A	ASSY CONNECTOR WIRE-POWER	WIRE-AC	1
32	DB93-14208A	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-BLDC(19V)	1
33	DB93-14218A	ASSY CONNECTOR WIRE-DC SIGNAL	WIRE-STEP MOTOR	1
34	DB95-05163A	ASSY THERMISTOR IN	SENSOR	1
35	DB93-04695B	ASSY CONNECTOR WIRE	SPI-WIRE	1

6.Electrical Parts List

6-1 INDOOR MAIN PBA

INDOOR MAIN PBA(DB92-02871D) 18K HC

Parts Code	Design Loc	Parts Description	Spec.	Quant
2203-000206	C511	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C513	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C514	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C702	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C704	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C710	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C712	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C713	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000260	C512	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012	1
2203-000260	C516	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012	1
2203-000260	C705	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012	1
2203-000444	C507	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012	1
2203-000444	C508	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012	1
2203-000444	C515	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012	1
2203-000444	C711	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012	1
2203-000444	C715	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012	1
2203-000444	C901	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012	1
2203-000495	C707	C-CER,CHIP	2.2nF,10%,50V,X7R,2012	1
2203-006960	C502	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C504	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C517	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C518	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C530	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C532	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C708	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-007176	C503	C-CER,CHIP	10000nF,10%,16V,X5R,TP,2012,1.25T	1
2203-007176	C521	C-CER,CHIP	10000nF,10%,16V,X5R,TP,2012,1.25T	1
DB41-01219A	PCB MAIN	PCB MAIN	FR-1,1Layer,142*120,STD#2,142*240	1
DB91-01555A	IC04	ASSY MICOM	MB9AF007PMC, 64QFP, ROM 128KB	1
0903-001923	-	IC-MICROCONTROLLER	MB9AF007PMC,LQFP,64P,10x10mm	1
DB98-31449A	ASSY LABEL	ASSY-LABEL MICOM	QFP,64P,WHT,9*9	1

INDOOR MAIN PBA(DB92-02871D) 18K HC

Parts Code	Design Loc	Parts Description	Spec.	Quant
2007-000827	R715	R-CHIP	39Kohm, 1%, 1/8W, TP, 2012	1
2007-000872	R205	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R207	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R208	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R510	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R511	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R512	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R707	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000924	R112	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1
2007-000924	R113	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1
2007-000924	R114	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1
2007-000938	R711	R-CHIP	47Kohm, 1%, 1/8W, TP, 2012	1
2007-000941	R902	R-CHIP	47Kohm, 5%, 1/8W, TP, 2012	1
2007-000947	R717	R-CHIP	47ohm, 5%, 1/8W, TP, 2012	1
2007-001011	R201	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R202	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R203	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R212	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R213	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R214	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001067	R401	R-CHIP	6.8Kohm, 1%, 1/8W, TP, 2012	1
2007-001067	R402	R-CHIP	6.8Kohm, 1%, 1/8W, TP, 2012	1
2007-001067	R403	R-CHIP	6.8Kohm, 1%, 1/8W, TP, 2012	1
2007-001071	R708	R-CHIP	6.8Kohm, 5%, 1/8W, TP, 2012	1
2007-001097	R714	R-CHIP	62Kohm, 5%, 1/8W, TP, 2012	1
2007-009922	R301	R-CHIP	300Kohm, 1%, 1/4W, TP, 3216	1
2007-009922	R302	R-CHIP	300Kohm, 1%, 1/4W, TP, 3216	1
2007-009922	R303	R-CHIP	300Kohm, 1%, 1/4W, TP, 3216	1
2203-000206	C201	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C401	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C402	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C403	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C501	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C505	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C506	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C509	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1

INDOOR MAIN PBA(DB92-02871D)

18K HC

Parts Code	Design Loc	Parts Description	Spec.	Quant
2007-000033	J1	R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1
2007-000033	J16	R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1
2007-000033	J6	R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1
2007-000290	R506	R-CHIP	100ohm, 5%, 1/8W, TP, 2012	1
2007-000290	R507	R-CHIP	100ohm, 5%, 1/8W, TP, 2012	1
2007-000290	R520	R-CHIP	100ohm, 5%, 1/8W, TP, 2012	1
2007-000300	R209	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R501	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R502	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R508	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R509	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R513	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R514	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R515	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R516	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R517	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R518	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R701	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R704	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R705	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R723	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R803	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R903	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R904	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000303	R702	R-CHIP	10Kohm, 5%, 1/4W, TP, 3216	1
2007-000385	R115	R-CHIP	14.3Kohm, 1%, 1/4W, TP, 3216	1
2007-000406	R713	R-CHIP	15Kohm, 1%, 1/8W, TP, 2012	1
2007-000454	R712	R-CHIP	18Kohm, 1%, 1/8W, TP, 2012	1
2007-000468	R204	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R210	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R504	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R505	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R703	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R706	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R802	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R901	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000474	R709	R-CHIP	1Mohm, 1%, 1/8W, TP, 2012	1
2007-000762	R206	R-CHIP	330ohm, 1%, 1/8W, TP, 2012	1
2007-000766	R404	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R405	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R406	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R410	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R601	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R602	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R716	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1

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Parts Code	Design Loc	Parts Description	Spec.	Quant
6042-000001	ECN71-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN71-5	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN72-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN73-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN74-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN75-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN75-3	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN78-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-2	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-3	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-4	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000002	EVA71-1	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1
6042-000002	EVA71-2	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1
DB94-04131A		ASSY PCB SMD	INDOOR,CO,30K,A3050,142*120	1
0401-001010	D704	DIODE-SWITCHING	1N4148W,75V,150mA,400mW,4nS,SO	1
0401-001010	D705	DIODE-SWITCHING	1N4148W,75V,150mA,400mW,4nS,SO	1
0402-001741	D201	DIODE-RECTIFIER	S1M,1000V,1A,SMA,TP	1
0402-001741	D202	DIODE-RECTIFIER	S1M,1000V,1A,SMA,TP	1
0402-001741	D701	DIODE-RECTIFIER	S1M,1000V,1A,SMA,TP	1
0501-000465	Q201	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30-300	1
0501-000465	Q705	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30-300	1
0504-001080	Q601	TR-DIGITAL	KRC246S,NPN,200mW,2.2K/10Kohm,SOT-	1
0504-001080	Q802	TR-DIGITAL	KRC246S,NPN,200mW,2.2K/10Kohm,SOT-	1
0506-000175	IC05	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1
0506-000175	IC06	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1
1103-001431	IC03	IC-EEPROM	AT24C08BN,8Kbit,1Kx8,SOP,8P	1
1202-000104	IC11	IC-VOLTAGE COMP.	393,SOP,8P,150MIL,DUAL	1
1203-006245	IC08	IC-VOL. DETECTOR	KIA7033AT,TSM,3P	1
1203-007526	IC07	IC-POSI.FIXED REG.	7815,TO-252,3Z30	1
2007-000029	J21	R-CHIP	0ohm,5%,1/8W,TP,2012	1
2007-000029	J39	R-CHIP	0ohm,5%,1/8W,TP,2012	1
2007-000029	J49	R-CHIP	0ohm,5%,1/8W,TP,2012	1
2007-000029	J5	R-CHIP	0ohm,5%,1/8W,TP,2012	1
2007-000029	J9	R-CHIP	0ohm,5%,1/8W,TP,2012	1

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Parts Code	Design Loc	Parts Description	Spec.	Quant
3812-001283	J11	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J12	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J13	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J14	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J15	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J17	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J18	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J19	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J2	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J20	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J22	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J23	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J24	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J25	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J26	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J28	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J29	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J3	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J30	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J31	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J32	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J33	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J34	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J35	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J37	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J38	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J4	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J42	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J43	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J44	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J45	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J46	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J47	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J48	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J50	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J51	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J52	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J53	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J54	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J8	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1

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Parts Code	Design Loc	Parts Description	Spec.	Quant
0502-000245	Q701	TR-POWER	KSB1151-Y, PNP, 1300mW, TO-126, 160-320	1
0604-000117	PC01	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC02	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC03	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC04	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC05	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
1405-001239	VA71	VARISTOR	680V, 560Vdc, 6000A, 17x7.3mm, BK	1
2301-002032	XC71	C-FILM, LEAD-PPF	100nF, 10%, 275V, TP, 12.5X6X12.0	1
2301-002032	XC72	C-FILM, LEAD-PPF	100nF, 10%, 275V, TP, 12.5X6X12.0	1
3002-001139	BZ61	BUZZER-PIEZO	80dB, 9V, 2KHz, BK	1
3501-001154	RY74	RELAY-MINIATURE	12V, 200mW, 3000mA, 1FormA, 10ms, 10ms	1
3501-001272	RY75	RELAY-POWER	12VDC, -, 25000mA, 1FormA, 20mS, 10mS	1
3711-000024	CN76	HEADER-BOARD TO CABLE	BOX, 3P, 1R, 2.5MM, STRAIGHT, SN, WHT	1
3711-000203	CN75	HEADER-BOARD TO CABLE	1WALL, 2P/3P, 1R, 7.92mm, STRAIGHT, SN, WHT	1
3711-000260	CN71	HEADER-BOARD TO CABLE	1WALL, 3P, 1R, 7.92mm, STRAIGHT, SN, BLU	1
3711-000296	CN72	HEADER-BOARD TO CABLE	1WALL, 6P, 1R, 3.96MM, STRAIGHT, SN, WHT	1
3711-000941	CN81	HEADER-BOARD TO CABLE	BOX, 4P, 1R, 2.5mm, STRAIGHT, SN, YEL	1
3711-000998	CN77	CONNECTOR-HEADER	BOX, 5P, 1R, 2.5MM, STRAIGHT, SN, RED	1
3711-000999	CN61	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2.5mm, STRAIGHT, SN, WHT	1
3711-003845	CN91	HEADER-BOARD TO CABLE	BOX, 11P, 1R, 2mm, STRAIGHT, SN, WHT	1
3711-004236	CN43	HEADER-BOARD TO CABLE	BOX, 6P, 1R, 2mm, STRAIGHT, SN, WHT	1
3711-005096	CN63	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2MM, STRAIGHT, SN, BLK	1
3711-005097	CN62	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2MM, STRAIGHT, SN, BLU	1
3711-005504	CN51	HEADER-BOARD TO CABLE	BOX, 6P, 1R, 2mm, STRAIGHT, SN, RED	1
3712-001139	CN73	CONNECTOR-TERMINAL	TAB, MALE, 6.35x0.8mm	1
3712-001139	CN74	CONNECTOR-TERMINAL	TAB, MALE, 6.35x0.8mm	1
DB27-00017A	FT71	COIL CHOKE	15mH	1
DB67-00942A	VA71-1	CAP	VIVALDI-P/J, GREEN, SSEC	1
DB68-02809A	LABEL BAR CODE	LABEL BAR CODE	PET120, 45, 15, E-PASS	1
DB94-04130A		ASSY PCB AUTO	INDOOR, CO, 30K, A3050	1
0501-000362	Q801	TR-SMALL SIGNAL	KSC2328A-Y, NPN, 1000mW, TO-92L, TP, 160-320	1
2003-001093	R215	R-METAL OXIDE(S)	12Kohm, 5%, 2W, AF, TP, 3.9x10mm	1
2003-001093	R216	R-METAL OXIDE(S)	12Kohm, 5%, 2W, AF, TP, 3.9x10mm	1
2003-001093	R217	R-METAL OXIDE(S)	12Kohm, 5%, 2W, AF, TP, 3.9x10mm	1
2003-001093	R218	R-METAL OXIDE(S)	12Kohm, 5%, 2W, AF, TP, 3.9x10mm	1
2401-000287	C510	C-AL	100uF, 20%, 16V, WT, TP, 6.3x11, 5	1
2401-000303	C531	C-AL	100uF, 20%, 25V, WT, TP, 6.3x11mm, 5mm	1
2401-000480	C706	C-AL	10uF, 20%, 50V, GP, TP, 5x11, 5	1
2401-002300	C701	C-AL	47uF, 20%, 50V, GP, TP, 6.3x11, 5mm	1
2401-002300	C703	C-AL	47uF, 20%, 50V, GP, TP, 6.3x11, 5mm	1
2802-001164	X501	RESONATOR-CERAMIC	8.000MHZ, ±0.5%, TP, 8.0X5.5X3.0MM	1
3601-001765	F701	FUSE-ETC	250V, 3.15A, Thermoplastic, 8.5x8mm	1
3812-001283	J10	WIRE-NO SHEATH CU	FE+CU+SN, 300V, 52mm(TAPING), 1/0.6mm	1

INDOOR MAIN PBA(DB92-02871 *) 18K HP

Parts Code	Design Loc	Parts Description	Spec.	Quant
2203-000206	C511	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C513	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C514	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C702	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C704	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C710	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C712	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000206	C713	C-CER,CHIP	100nF,10%,50V,X7R,TP,2012	1
2203-000260	C512	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012	1
2203-000260	C516	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012	1
2203-000260	C705	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012	1
2203-000444	C507	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012	1
2203-000444	C508	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012	1
2203-000444	C515	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012	1
2203-000444	C711	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012	1
2203-000444	C715	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012	1
2203-000444	C901	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012	1
2203-000495	C707	C-CER,CHIP	2.2nF,10%,50V,X7R,2012	1
2203-006960	C502	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C504	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C517	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C518	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C530	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C532	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C708	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-007176	C503	C-CER,CHIP	10000nF,10%,16V,X5R,TP,2012,1.25T	1
2203-007176	C521	C-CER,CHIP	10000nF,10%,16V,X5R,TP,2012,1.25T	1
DB41-01219A	PCB MAIN	PCB MAIN	FR-1,1Layer,142*120,STD#2,142*240	1
DB91-01555A	IC04	ASSY MICOM	MB9AF007PMC, 64QFP, ROM 128KB	1
0903-001923	-	IC-MICROCONTROLLER	MB9AF007PMC,LQFP,64P,10x10mm	1
DB98-31449A	ASSY LABEL	ASSY-LABEL MICOM	QFP,64P,WHT,9*9	1

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18K HP

Parts Code	Design Loc	Parts Description	Spec.	Quant
2007-000827	R715	R-CHIP	39Kohm, 1%, 1/8W, TP, 2012	1
2007-000872	R205	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R207	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R208	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R510	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R511	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R512	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R707	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000924	R112	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1
2007-000924	R113	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1
2007-000924	R114	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1
2007-000938	R711	R-CHIP	47Kohm, 1%, 1/8W, TP, 2012	1
2007-000941	R902	R-CHIP	47Kohm, 5%, 1/8W, TP, 2012	1
2007-000947	R717	R-CHIP	47ohm, 5%, 1/8W, TP, 2012	1
2007-001011	R201	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R202	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R203	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R212	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R213	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R214	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001067	R401	R-CHIP	6.8Kohm, 1%, 1/8W, TP, 2012	1
2007-001067	R402	R-CHIP	6.8Kohm, 1%, 1/8W, TP, 2012	1
2007-001067	R403	R-CHIP	6.8Kohm, 1%, 1/8W, TP, 2012	1
2007-001071	R708	R-CHIP	6.8Kohm, 5%, 1/8W, TP, 2012	1
2007-001097	R714	R-CHIP	62Kohm, 5%, 1/8W, TP, 2012	1
2007-009922	R301	R-CHIP	300Kohm, 1%, 1/4W, TP, 3216	1
2007-009922	R302	R-CHIP	300Kohm, 1%, 1/4W, TP, 3216	1
2007-009922	R303	R-CHIP	300Kohm, 1%, 1/4W, TP, 3216	1
2203-000206	C201	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C401	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C402	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C403	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C501	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C505	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C506	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C509	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1

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Parts Code	Design Loc	Parts Description	Spec.	Quant
2007-000033	J1	R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1
2007-000033	J16	R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1
2007-000033	J6	R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1
2007-000290	R506	R-CHIP	100ohm, 5%, 1/8W, TP, 2012	1
2007-000290	R507	R-CHIP	100ohm, 5%, 1/8W, TP, 2012	1
2007-000290	R520	R-CHIP	100ohm, 5%, 1/8W, TP, 2012	1
2007-000300	R209	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R501	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R502	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R508	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R509	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R513	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R514	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R515	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R516	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R517	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R518	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R701	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R704	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R705	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R723	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R803	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R903	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R904	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000303	R702	R-CHIP	10Kohm, 5%, 1/4W, TP, 3216	1
2007-000385	R115	R-CHIP	14.3Kohm, 1%, 1/4W, TP, 3216	1
2007-000406	R713	R-CHIP	15Kohm, 1%, 1/8W, TP, 2012	1
2007-000454	R712	R-CHIP	18Kohm, 1%, 1/8W, TP, 2012	1
2007-000468	R204	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R210	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R504	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R505	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R703	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R706	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R802	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R901	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000474	R709	R-CHIP	1Mohm, 1%, 1/8W, TP, 2012	1
2007-000762	R206	R-CHIP	330ohm, 1%, 1/8W, TP, 2012	1
2007-000766	R404	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R405	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R406	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R410	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R601	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R602	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R716	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1

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Parts Code	Design Loc	Parts Description	Spec.	Quant
6042-000001	ECN71-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN71-5	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN72-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN73-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN74-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN75-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN75-3	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN78-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-2	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-3	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-4	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000002	EVA71-1	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1
6042-000002	EVA71-2	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1
DB94-04131A		ASSY PCB SMD	INDOOR,CO,30K,A3050,142*120	1
0401-001010	D704	DIODE-SWITCHING	1N4148W,75V,150mA,400mW,4nS,SO	1
0401-001010	D705	DIODE-SWITCHING	1N4148W,75V,150mA,400mW,4nS,SO	1
0402-001741	D201	DIODE-RECTIFIER	S1M,1000V,1A,SMA,TP	1
0402-001741	D202	DIODE-RECTIFIER	S1M,1000V,1A,SMA,TP	1
0402-001741	D701	DIODE-RECTIFIER	S1M,1000V,1A,SMA,TP	1
0501-000465	Q201	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30-300	1
0501-000465	Q705	TR-SMALL SIGNAL	MMBT3904,NPN,350mW,SOT-23,TP,30-300	1
0504-001080	Q601	TR-DIGITAL	KRC246S,NPN,200mW,2.2K/10Kohm,SOT-	1
0504-001080	Q802	TR-DIGITAL	KRC246S,NPN,200mW,2.2K/10Kohm,SOT-	1
0506-000175	IC05	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1
0506-000175	IC06	TR-ARRAY	2003,NPN,7,1W,SOP-16,ST,1000	1
1103-001431	IC03	IC-EEPROM	AT24C08BN,8Kbit,1Kx8,SOP,8P	1
1202-000104	IC11	IC-VOLTAGE COMP.	393,SOP,8P,150MIL,DUAL	1
1203-006245	IC08	IC-VOL. DETECTOR	KIA7033AT,TSM,3P	1
1203-007526	IC07	IC-POSI.FIXED REG.	7815,TO-252,3Z30	1
2007-000029	J21	R-CHIP	0ohm,5%,1/8W,TP,2012	1
2007-000029	J39	R-CHIP	0ohm,5%,1/8W,TP,2012	1
2007-000029	J49	R-CHIP	0ohm,5%,1/8W,TP,2012	1
2007-000029	J5	R-CHIP	0ohm,5%,1/8W,TP,2012	1
2007-000029	J9	R-CHIP	0ohm,5%,1/8W,TP,2012	1

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Parts Code	Design Loc	Parts Description	Spec.	Quant
3812-001283	J11	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J12	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J13	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J14	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J15	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J17	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J18	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J19	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J2	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J20	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J22	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J23	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J24	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J25	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J26	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J28	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J29	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J3	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J30	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J31	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J32	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J33	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J34	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J35	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J37	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J38	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J4	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J42	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J43	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J44	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J45	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J46	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J47	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J48	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J50	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J51	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J52	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J53	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J54	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J8	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1

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Parts Code	Design Loc	Parts Description	Spec.	Quant
0502-000245	Q701	TR-POWER	KSB1151-Y, PNP, 1300mW, TO-126, 160-320	1
0604-000117	PC01	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC02	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC03	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC04	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC05	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
1405-001239	VA71	VARISTOR	680V, 560Vdc, 6000A, 17x7.3mm, BK	1
2301-002032	XC71	C-FILM, LEAD-PPF	100nF, 10%, 275V, TP, 12.5X6X12.0	1
2301-002032	XC72	C-FILM, LEAD-PPF	100nF, 10%, 275V, TP, 12.5X6X12.0	1
3002-001139	BZ61	BUZZER-PIEZO	80dB, 9V, 2KHz, BK	1
3501-001154	RY74	RELAY-MINIATURE	12V, 200mW, 3000mA, 1FormA, 10ms, 10ms	1
3501-001272	RY75	RELAY-POWER	12VDC, -, 25000mA, 1FormA, 20mS, 10mS	1
3711-000024	CN76	HEADER-BOARD TO CABLE	BOX, 3P, 1R, 2.5MM, STRAIGHT, SN, WHT	1
3711-000203	CN75	HEADER-BOARD TO CABLE	1WALL, 2P/3P, 1R, 7.92mm, STRAIGHT, SN, WHT	1
3711-000260	CN71	HEADER-BOARD TO CABLE	1WALL, 3P, 1R, 7.92mm, STRAIGHT, SN, BLU	1
3711-000296	CN72	HEADER-BOARD TO CABLE	1WALL, 6P, 1R, 3.96MM, STRAIGHT, SN, WHT	1
3711-000941	CN81	HEADER-BOARD TO CABLE	BOX, 4P, 1R, 2.5mm, STRAIGHT, SN, YEL	1
3711-000998	CN77	CONNECTOR-HEADER	BOX, 5P, 1R, 2.5MM, STRAIGHT, SN, RED	1
3711-000999	CN61	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2.5mm, STRAIGHT, SN, WHT	1
3711-003845	CN91	HEADER-BOARD TO CABLE	BOX, 11P, 1R, 2mm, STRAIGHT, SN, WHT	1
3711-004236	CN43	HEADER-BOARD TO CABLE	BOX, 6P, 1R, 2mm, STRAIGHT, SN, WHT	1
3711-005096	CN63	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2MM, STRAIGHT, SN, BLK	1
3711-005097	CN62	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2MM, STRAIGHT, SN, BLU	1
3711-005504	CN51	HEADER-BOARD TO CABLE	BOX, 6P, 1R, 2mm, STRAIGHT, SN, RED	1
3712-001139	CN73	CONNECTOR-TERMINAL	TAB, MALE, 6.35x0.8mm	1
3712-001139	CN74	CONNECTOR-TERMINAL	TAB, MALE, 6.35x0.8mm	1
DB27-00017A	FT71	COIL CHOKE	15mH	1
DB67-00942A	VA71-1	CAP	VIVALDI-P/J, GREEN, SSEC	1
DB68-02809A	LABEL BAR CODE	LABEL BAR CODE	PET120, 45, 15, E-PASS	1
DB94-04130A		ASSY PCB AUTO	INDOOR, CO, 30K, A3050	1
0501-000362	Q801	TR-SMALL SIGNAL	KSC2328A-Y, NPN, 1000mW, TO-92L, TP, 160-320	1
2003-001093	R215	R-METAL OXIDE(S)	12Kohm, 5%, 2W, AF, TP, 3.9x10mm	1
2003-001093	R216	R-METAL OXIDE(S)	12Kohm, 5%, 2W, AF, TP, 3.9x10mm	1
2003-001093	R217	R-METAL OXIDE(S)	12Kohm, 5%, 2W, AF, TP, 3.9x10mm	1
2003-001093	R218	R-METAL OXIDE(S)	12Kohm, 5%, 2W, AF, TP, 3.9x10mm	1
2401-000287	C510	C-AL	100uF, 20%, 16V, WT, TP, 6.3x11, 5	1
2401-000303	C531	C-AL	100uF, 20%, 25V, WT, TP, 6.3x11mm, 5mm	1
2401-000480	C706	C-AL	10uF, 20%, 50V, GP, TP, 5x11, 5	1
2401-002300	C701	C-AL	47uF, 20%, 50V, GP, TP, 6.3x11, 5mm	1
2401-002300	C703	C-AL	47uF, 20%, 50V, GP, TP, 6.3x11, 5mm	1
2802-001164	X501	RESONATOR-CERAMIC	8.000MHZ, ±0.5%, TP, 8.0X5.5X3.0MM	1
3601-001765	F701	FUSE-ETC	250V, 3.15A, Thermoplastic, 8.5x8mm	1
3812-001283	J10	WIRE-NO SHEATH CU	FE+CU+SN, 300V, 52mm(TAPING), 1/0.6mm	1

INDOOR MAIN PBA(DB92-02871B) 24K HC

Parts Code	Design Loc	Parts Description	Spec.	Quantity
2203-006960	C504	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C517	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C518	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C530	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C532	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C708	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-007176	C503	C-CER,CHIP	10000nF,10%,16V,X5R,TP,2012,1.25T	1
2203-007176	C521	C-CER,CHIP	10000nF,10%,16V,X5R,TP,2012,1.25T	1
DB41-01219A	PCB MAIN	PCB MAIN	FR-1,1Layer,142*120,STD#2	1
DB91-01555A	IC04	ASSY MICOM	STM-1324-0A	1
0903-001923	-	IC-MICROCONTROLLER	MB9AF007PMC,LQFP,64P,10x10mm,20MHz	1
DB98-31449A	ASSY LABEL MICOM	ASSY-LABEL MICOM	QFP,64P,WHT,9*9	1

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Parts Code	Design Loc	Parts Description	Spec.	Quantity
2007-009922	R301	R-CHIP	300Kohm, 1%, 1/4W, TP, 3216	1
2007-009922	R302	R-CHIP	300Kohm, 1%, 1/4W, TP, 3216	1
2007-009922	R303	R-CHIP	300Kohm, 1%, 1/4W, TP, 3216	1
2203-000206	C201	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C401	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C402	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C403	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C501	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C505	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C506	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C509	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C511	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C513	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C514	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C702	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C704	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C710	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C712	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C713	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000260	C512	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 2012	1
2203-000260	C705	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 2012	1
2203-000444	C507	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 2012	1
2203-000444	C508	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 2012	1
2203-000444	C515	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 2012	1
2203-000444	C711	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 2012	1
2203-000444	C715	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 2012	1
2203-000444	C901	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 2012	1
2203-000495	C707	C-CER, CHIP	2.2nF, 10%, 50V, X7R, 2012	1
2203-006960	C502	C-CER, CHIP	1000nF, 10%, 50V, X7R, TP, 2012	1

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Parts Code	Design Loc	Parts Description	Spec.	Quantity
2007-000385	R115	R-CHIP	14.3Kohm, 1%, 1/4W, TP, 3216	1
2007-000406	R713	R-CHIP	15Kohm, 1%, 1/8W, TP, 2012	1
2007-000454	R712	R-CHIP	18Kohm, 1%, 1/8W, TP, 2012	1
2007-000468	R204	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R210	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R504	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R505	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R703	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R706	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R802	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R901	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000474	R709	R-CHIP	1Mohm, 1%, 1/8W, TP, 2012	1
2007-000766	R404	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R405	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R406	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R410	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R601	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R602	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R716	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000827	R715	R-CHIP	39Kohm, 1%, 1/8W, TP, 2012	1
2007-000872	R205	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R208	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R510	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R511	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R512	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R707	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000924	R112	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1
2007-000924	R113	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1
2007-000924	R114	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1
2007-000938	R711	R-CHIP	47Kohm, 1%, 1/8W, TP, 2012	1
2007-000941	R902	R-CHIP	47Kohm, 5%, 1/8W, TP, 2012	1
2007-000947	R717	R-CHIP	47ohm, 5%, 1/8W, TP, 2012	1
2007-001011	R201	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R202	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R203	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R212	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R213	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R214	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001067	R401	R-CHIP	6.8Kohm, 1%, 1/8W, TP, 2012	1
2007-001067	R402	R-CHIP	6.8Kohm, 1%, 1/8W, TP, 2012	1
2007-001067	R403	R-CHIP	6.8Kohm, 1%, 1/8W, TP, 2012	1
2007-001071	R708	R-CHIP	6.8Kohm, 5%, 1/8W, TP, 2012	1
2007-001097	R714	R-CHIP	62Kohm, 5%, 1/8W, TP, 2012	1

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Parts Code	Design Loc	Parts Description	Spec.	Quantity
6042-000002	EVA71-1	EYELET	ID1.5, OD2, L2.8, NI+SN, BSP3-1/2H	1
6042-000002	EVA71-2	EYELET	ID1.5, OD2, L2.8, NI+SN, BSP3-1/2H	1
DB94-04127A		ASSY PCB SMD	INDOOR, CO, 24K, A3050, 142*120, 230, 310	1
0401-001010	D705	DIODE-SWITCHING	1N4148W, 75V, 150mA, 400mW, 4nS, SO	1
0402-001741	D201	DIODE-RECTIFIER	S1M, 1000V, 1A, SMA, TP	1
0402-001741	D701	DIODE-RECTIFIER	S1M, 1000V, 1A, SMA, TP	1
0501-000465	Q705	TR-SMALL SIGNAL	MMBT3904, NPN, 350mW, SOT-23, TP, 30-300	1
0504-001080	Q601	TR-DIGITAL	KRC246S, NPN, 200mW, 2.2K/10Kohm, SOT-23, TP	1
0504-001080	Q802	TR-DIGITAL	KRC246S, NPN, 200mW, 2.2K/10Kohm, SOT-23, TP	1
0506-000175	IC05	TR-ARRAY	2003, NPN, 7, 1W, SOP-16, ST, 1000	1
0506-000175	IC06	TR-ARRAY	2003, NPN, 7, 1W, SOP-16, ST, 1000	1
1103-001431	IC03	IC-EEPROM	AT24C08BN, 8Kbit, 1Kx8, SOP, 8P, 4.9x3.9mm	1
1202-000104	IC11	IC-VOLTAGE COMP.	393, SOP, 8P, 150MIL, DUAL, 36V, CMOS, PLASTIC	1
1203-006245	IC08	IC-VOL. DETECTOR	KIA7033AT, TSM, 3P, 2.9x1.6x0.7mm, PLASTIC	1
1203-007526	IC07	IC-POSI.FIXED REG.	7815, TO-252, 3Z30, 6.6*6.1mm	1
2007-000029	J21	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000029	J39	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000029	J49	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000029	J5	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000029	J9	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000033	J1	R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1
2007-000033	J16	R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1
2007-000033	J6	R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1
2007-000290	R506	R-CHIP	100ohm, 5%, 1/8W, TP, 2012	1
2007-000290	R507	R-CHIP	100ohm, 5%, 1/8W, TP, 2012	1
2007-000290	R520	R-CHIP	100ohm, 5%, 1/8W, TP, 2012	1
2007-000300	R501	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R502	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R508	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R509	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R513	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R514	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R515	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R516	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R517	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R518	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R701	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R704	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R705	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R723	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R803	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R903	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R904	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000303	R702	R-CHIP	10Kohm, 5%, 1/4W, TP, 3216	1

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Parts Code	Design Loc	Parts Description	Spec.	Quantity
3812-001283	J15	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J17	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J18	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J19	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J2	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J20	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J22	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J23	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J24	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J25	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J26	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J28	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J29	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J3	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J30	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J31	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J32	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J33	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J34	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J35	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J37	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J38	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J4	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J42	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J43	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J44	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J45	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J46	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J47	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J48	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J50	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J51	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J52	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J53	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J54	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J8	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	JPRY74	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
6042-000001	ECN71-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN71-5	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN72-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN73-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN74-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN75-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN75-3	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN78-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-2	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-3	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-4	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1

Parts Code	Design Loc	Parts Description	Spec.	Quantity
0502-000245	Q701	TR-POWER	KSB1151-Y, PNP, 1300mW, TO-126, 160-320	1
0604-000117	PC01	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC03	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC04	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC05	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
1405-001239	VA71	VARISTOR	680V, 560Vdc, 6000A, 17x7.3mm	1
2301-002032	XC71	C-FILM, LEAD-PPF	100nF, 10%, 275V, TP, 12.5X6X12.0	1
2301-002032	XC72	C-FILM, LEAD-PPF	100nF, 10%, 275V, TP, 12.5X6X12.0	1
3002-001139	BZ61	BUZZER-PIEZO	80dB, 9V, 2KHz, BK	1
3711-000024	CN76	HEADER-BOARD TO CABLE	BOX, 3P, 1R, 2.5MM, STRAIGHT, SN, WHT	1
3711-000177	CN79	HEADER-BOARD TO CABLE	1WALL, 2P, 1R, 3.96MM, STRAIGHT, SN, RED	1
3711-000203	CN75	HEADER-BOARD TO CABLE	1WALL, 2P/3P, 1R, 7.92mm, STRAIGHT, SN, WHT	1
3711-000260	CN71	HEADER-BOARD TO CABLE	1WALL, 3P, 1R, 7.92mm, STRAIGHT, SN, BLU	1
3711-000296	CN72	HEADER-BOARD TO CABLE	1WALL, 6P, 1R, 3.96MM, STRAIGHT, SN, WHT	1
3711-000941	CN81	HEADER-BOARD TO CABLE	BOX, 4P, 1R, 2.5mm, STRAIGHT, SN, YEL	1
3711-000998	CN77	CONNECTOR-HEADER	BOX, 5P, 1R, 2.5MM, STRAIGHT, SN, RED	1
3711-000999	CN61	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2.5mm, STRAIGHT, SN, WHT	1
3711-003845	CN91	HEADER-BOARD TO CABLE	BOX, 11P, 1R, 2mm, STRAIGHT, SN, WHT	1
3711-004236	CN43	HEADER-BOARD TO CABLE	BOX, 6P, 1R, 2mm, STRAIGHT, SN, WHT	1
3711-005096	CN63	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2MM, STRAIGHT, SN, BLK	1
3711-005097	CN62	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2MM, STRAIGHT, SN, BLU	1
3711-005504	CN51	HEADER-BOARD TO CABLE	BOX, 6P, 1R, 2mm, STRAIGHT, SN, RED	1
3712-001139	CN74	CONNECTOR-TERMINAL	TAB, MALE, 6.35x0.8mm	1
3712-001139	CN78	CONNECTOR-TERMINAL	TAB, MALE, 6.35x0.8mm	1
DB27-00017A	FT71	COIL CHOKE	15mH	1
DB67-00942A	VA71-1	CAP	SHP2, 1, 5.2, 11.5, 18.5, GREEN, SSEC	1
DB68-02809A	LABEL BAR CODE	LABEL BAR CODE	ART, 45, 15, E-PASS	1
DB94-04126A		ASSY PCB AUTO	INDOOR, CO, 24K, A3050, 142*120, 230, 310	1
0501-000362	Q801	TR-SMALL SIGNAL	KSC2328A-Y, NPN, 1000mW, TO-92L, TP, 160-320	1
2401-000287	C510	C-AL	100uF, 20%, 16V, WT, TP, 6.3x11, 5	1
2401-000303	C531	C-AL	100uF, 20%, 25V, WT, TP, 6.3x11mm, 5mm	1
2401-000480	C706	C-AL	10uF, 20%, 50V, GP, TP, 5x11, 5	1
2401-002300	C701	C-AL	47uF, 20%, 50V, GP, TP, 6.3x11, 5mm	1
2401-002300	C703	C-AL	47uF, 20%, 50V, GP, TP, 6.3x11, 5mm	1
2802-001164	X501	RESONATOR-CERAMIC	8.000MHZ, ±0.5%, TP, 8.0X5.5X3.0MM	1
3601-001765	F701	FUSE-ETC	250V, 3.15A, TIME-LAG, Thermoplastic	1
3812-001283	J10	WIRE-NO SHEATH CU	FE+CU+SN, 300V, 52mm(TAPING), 1/0.6mm	1
3812-001283	J11	WIRE-NO SHEATH CU	FE+CU+SN, 300V, 52mm(TAPING), 1/0.6mm	1
3812-001283	J12	WIRE-NO SHEATH CU	FE+CU+SN, 300V, 52mm(TAPING), 1/0.6mm	1
3812-001283	J13	WIRE-NO SHEATH CU	FE+CU+SN, 300V, 52mm(TAPING), 1/0.6mm	1
3812-001283	J14	WIRE-NO SHEATH CU	FE+CU+SN, 300V, 52mm(TAPING), 1/0.6mm	1

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Parts Code	Design Loc	Parts Description	Spec.	Quantity
2203-006960	C504	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C517	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C518	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C530	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C532	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-006960	C708	C-CER,CHIP	1000nF,10%,50V,X7R,TP,2012	1
2203-007176	C503	C-CER,CHIP	10000nF,10%,16V,X5R,TP,2012,1.25T	1
2203-007176	C521	C-CER,CHIP	10000nF,10%,16V,X5R,TP,2012,1.25T	1
DB41-01219A	PCB MAIN	PCB MAIN	FR-1,1Layer,142*120,STD#2	1
DB91-01555A	IC04	ASSY MICOM	STM-1324-0A	1
0903-001923	-	IC-MICROCONTROLLER	MB9AF007PMC,LQFP,64P,10x10mm,20MHz	1
DB98-31449A	ASSY LABEL MICOM	ASSY-LABEL MICOM	QFP,64P,WHT,9*9	1

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Parts Code	Design Loc	Parts Description	Spec.	Quantity
2007-009922	R301	R-CHIP	300Kohm, 1%, 1/4W, TP, 3216	1
2007-009922	R302	R-CHIP	300Kohm, 1%, 1/4W, TP, 3216	1
2007-009922	R303	R-CHIP	300Kohm, 1%, 1/4W, TP, 3216	1
2203-000206	C201	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C401	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C402	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C403	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C501	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C505	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C506	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C509	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C511	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C513	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C514	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C702	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C704	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C710	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C712	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000206	C713	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000260	C512	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 2012	1
2203-000260	C705	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 2012	1
2203-000444	C507	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 2012	1
2203-000444	C508	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 2012	1
2203-000444	C515	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 2012	1
2203-000444	C711	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 2012	1
2203-000444	C715	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 2012	1
2203-000444	C901	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 2012	1
2203-000495	C707	C-CER, CHIP	2.2nF, 10%, 50V, X7R, 2012	1
2203-006960	C502	C-CER, CHIP	1000nF, 10%, 50V, X7R, TP, 2012	1

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Parts Code	Design Loc	Parts Description	Spec.	Quantity
2007-000385	R115	R-CHIP	14.3Kohm, 1%, 1/4W, TP, 3216	1
2007-000406	R713	R-CHIP	15Kohm, 1%, 1/8W, TP, 2012	1
2007-000454	R712	R-CHIP	18Kohm, 1%, 1/8W, TP, 2012	1
2007-000468	R204	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R210	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R504	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R505	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R703	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R706	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R802	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R901	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000474	R709	R-CHIP	1Mohm, 1%, 1/8W, TP, 2012	1
2007-000766	R404	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R405	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R406	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R410	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R601	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R602	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000766	R716	R-CHIP	330ohm, 5%, 1/8W, TP, 2012	1
2007-000827	R715	R-CHIP	39Kohm, 1%, 1/8W, TP, 2012	1
2007-000872	R205	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R208	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R510	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R511	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R512	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R707	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2007-000924	R112	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1
2007-000924	R113	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1
2007-000924	R114	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1
2007-000938	R711	R-CHIP	47Kohm, 1%, 1/8W, TP, 2012	1
2007-000941	R902	R-CHIP	47Kohm, 5%, 1/8W, TP, 2012	1
2007-000947	R717	R-CHIP	47ohm, 5%, 1/8W, TP, 2012	1
2007-001011	R201	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R202	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R203	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R212	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R213	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001011	R214	R-CHIP	51Kohm, 5%, 1/4W, TP, 3216	1
2007-001067	R401	R-CHIP	6.8Kohm, 1%, 1/8W, TP, 2012	1
2007-001067	R402	R-CHIP	6.8Kohm, 1%, 1/8W, TP, 2012	1
2007-001067	R403	R-CHIP	6.8Kohm, 1%, 1/8W, TP, 2012	1
2007-001071	R708	R-CHIP	6.8Kohm, 5%, 1/8W, TP, 2012	1
2007-001097	R714	R-CHIP	62Kohm, 5%, 1/8W, TP, 2012	1

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Parts Code	Design Loc	Parts Description	Spec.	Quantity
6042-000002	EVA71-1	EYELET	ID1.5, OD2, L2.8, NI+SN, BSP3-1/2H	1
6042-000002	EVA71-2	EYELET	ID1.5, OD2, L2.8, NI+SN, BSP3-1/2H	1
DB94-04127A		ASSY PCB SMD	INDOOR, CO, 24K, A3050, 142*120, 230, 310	1
0401-001010	D705	DIODE-SWITCHING	1N4148W, 75V, 150mA, 400mW, 4nS, SO	1
0402-001741	D201	DIODE-RECTIFIER	S1M, 1000V, 1A, SMA, TP	1
0402-001741	D701	DIODE-RECTIFIER	S1M, 1000V, 1A, SMA, TP	1
0501-000465	Q705	TR-SMALL SIGNAL	MMBT3904, NPN, 350mW, SOT-23, TP, 30-300	1
0504-001080	Q601	TR-DIGITAL	KRC246S, NPN, 200mW, 2.2K/10Kohm, SOT-23, TP	1
0504-001080	Q802	TR-DIGITAL	KRC246S, NPN, 200mW, 2.2K/10Kohm, SOT-23, TP	1
0506-000175	IC05	TR-ARRAY	2003, NPN, 7, 1W, SOP-16, ST, 1000	1
0506-000175	IC06	TR-ARRAY	2003, NPN, 7, 1W, SOP-16, ST, 1000	1
1103-001431	IC03	IC-EEPROM	AT24C08BN, 8Kbit, 1Kx8, SOP, 8P, 4.9x3.9mm	1
1202-000104	IC11	IC-VOLTAGE COMP.	393, SOP, 8P, 150MIL, DUAL, 36V, CMOS, PLASTIC	1
1203-006245	IC08	IC-VOL. DETECTOR	KIA7033AT, TSM, 3P, 2.9x1.6x0.7mm, PLASTIC	1
1203-007526	IC07	IC-POSI.FIXED REG.	7815, TO-252, 3Z30, 6.6*6.1mm	1
2007-000029	J21	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000029	J39	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000029	J49	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000029	J5	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000029	J9	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000033	J1	R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1
2007-000033	J16	R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1
2007-000033	J6	R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1
2007-000290	R506	R-CHIP	100ohm, 5%, 1/8W, TP, 2012	1
2007-000290	R507	R-CHIP	100ohm, 5%, 1/8W, TP, 2012	1
2007-000290	R520	R-CHIP	100ohm, 5%, 1/8W, TP, 2012	1
2007-000300	R501	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R502	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R508	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R509	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R513	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R514	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R515	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R516	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R517	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R518	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R701	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R704	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R705	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R723	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R803	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R903	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000300	R904	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000303	R702	R-CHIP	10Kohm, 5%, 1/4W, TP, 3216	1

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Parts Code	Design Loc	Parts Description	Spec.	Quantity
3812-001283	J15	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J17	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J18	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J19	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J2	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J20	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J22	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J23	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J24	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J25	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J26	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J28	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J29	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J3	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J30	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J31	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J32	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J33	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J34	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J35	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J37	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J38	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J4	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J42	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J43	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J44	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J45	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J46	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J47	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J48	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J50	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J51	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J52	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J53	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J54	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	J8	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
3812-001283	JPRY74	WIRE-NO SHEATH CU	FE+CU+SN,300V,52mm(TAPING),1/0.6mm	1
6042-000001	ECN71-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN71-5	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN72-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN73-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN74-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN75-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN75-3	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ECN78-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-1	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-2	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-3	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1
6042-000001	ERY75-4	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1

Parts Code	Design Loc	Parts Description	Spec.	Quantity
0502-000245	Q701	TR-POWER	KSB1151-Y, PNP, 1300mW, TO-126, 160-320	1
0604-000117	PC01	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC03	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC04	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
0604-000117	PC05	PHOTO-COUPLER	TR, 130-260%, 200mW, DIP-4, ST	1
1405-001239	VA71	VARISTOR	680V, 560Vdc, 6000A, 17x7.3mm	1
2301-002032	XC71	C-FILM, LEAD-PPF	100nF, 10%, 275V, TP, 12.5X6X12.0	1
2301-002032	XC72	C-FILM, LEAD-PPF	100nF, 10%, 275V, TP, 12.5X6X12.0	1
3002-001139	BZ61	BUZZER-PIEZO	80dB, 9V, 2KHz, BK	1
3711-000024	CN76	HEADER-BOARD TO CABLE	BOX, 3P, 1R, 2.5MM, STRAIGHT, SN, WHT	1
3711-000177	CN79	HEADER-BOARD TO CABLE	1WALL, 2P, 1R, 3.96MM, STRAIGHT, SN, RED	1
3711-000203	CN75	HEADER-BOARD TO CABLE	1WALL, 2P/3P, 1R, 7.92mm, STRAIGHT, SN, WHT	1
3711-000260	CN71	HEADER-BOARD TO CABLE	1WALL, 3P, 1R, 7.92mm, STRAIGHT, SN, BLU	1
3711-000296	CN72	HEADER-BOARD TO CABLE	1WALL, 6P, 1R, 3.96MM, STRAIGHT, SN, WHT	1
3711-000941	CN81	HEADER-BOARD TO CABLE	BOX, 4P, 1R, 2.5mm, STRAIGHT, SN, YEL	1
3711-000998	CN77	CONNECTOR-HEADER	BOX, 5P, 1R, 2.5MM, STRAIGHT, SN, RED	1
3711-000999	CN61	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2.5mm, STRAIGHT, SN, WHT	1
3711-003845	CN91	HEADER-BOARD TO CABLE	BOX, 11P, 1R, 2mm, STRAIGHT, SN, WHT	1
3711-004236	CN43	HEADER-BOARD TO CABLE	BOX, 6P, 1R, 2mm, STRAIGHT, SN, WHT	1
3711-005096	CN63	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2MM, STRAIGHT, SN, BLK	1
3711-005097	CN62	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2MM, STRAIGHT, SN, BLU	1
3711-005504	CN51	HEADER-BOARD TO CABLE	BOX, 6P, 1R, 2mm, STRAIGHT, SN, RED	1
3712-001139	CN74	CONNECTOR-TERMINAL	TAB, MALE, 6.35x0.8mm	1
3712-001139	CN78	CONNECTOR-TERMINAL	TAB, MALE, 6.35x0.8mm	1
DB27-00017A	FT71	COIL CHOKE	15mH	1
DB67-00942A	VA71-1	CAP	SHP2, 1, 5.2, 11.5, 18.5, GREEN, SSEC	1
DB68-02809A	LABEL BAR CODE	LABEL BAR CODE	ART, 45, 15, E-PASS	1
DB94-04126A		ASSY PCB AUTO	INDOOR, CO, 24K, A3050, 142*120, 230, 310	1
0501-000362	Q801	TR-SMALL SIGNAL	KSC2328A-Y, NPN, 1000mW, TO-92L, TP, 160-320	1
2401-000287	C510	C-AL	100uF, 20%, 16V, WT, TP, 6.3x11, 5	1
2401-000303	C531	C-AL	100uF, 20%, 25V, WT, TP, 6.3x11mm, 5mm	1
2401-000480	C706	C-AL	10uF, 20%, 50V, GP, TP, 5x11, 5	1
2401-002300	C701	C-AL	47uF, 20%, 50V, GP, TP, 6.3x11, 5mm	1
2401-002300	C703	C-AL	47uF, 20%, 50V, GP, TP, 6.3x11, 5mm	1
2802-001164	X501	RESONATOR-CERAMIC	8.000MHZ, ±0.5%, TP, 8.0X5.5X3.0MM	1
3601-001765	F701	FUSE-ETC	250V, 3.15A, TIME-LAG, Thermoplastic	1
3812-001283	J10	WIRE-NO SHEATH CU	FE+CU+SN, 300V, 52mm(TAPING), 1/0.6mm	1
3812-001283	J11	WIRE-NO SHEATH CU	FE+CU+SN, 300V, 52mm(TAPING), 1/0.6mm	1
3812-001283	J12	WIRE-NO SHEATH CU	FE+CU+SN, 300V, 52mm(TAPING), 1/0.6mm	1
3812-001283	J13	WIRE-NO SHEATH CU	FE+CU+SN, 300V, 52mm(TAPING), 1/0.6mm	1
3812-001283	J14	WIRE-NO SHEATH CU	FE+CU+SN, 300V, 52mm(TAPING), 1/0.6mm	1

6-2 INDOOR DISPLAY PBA(DB92-02876A) - 3-LED

Parts Code	Design Loc	Parts Description	Spec.	Quantity
3711-003848	CN01	HEADER-BOARD TO CABLE	BOX, 11P, 1R, 2mm, ANGLE, SN, WHT	1
3711-004379	CN02	HEADER-BOARD TO CABLE	BOX, 4P, 1R, 2mm, STRAIGHT, SN, WHT	1
3711-005096	CN04	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2MM, STRAIGHT, SN, BLK	1
DB94-04103A		ASSY PCB SMD	GOOD, A3050, 64*36, DB92-02876A	1
0504-001080	Q01	TR-DIGITAL	KRC246S, NPN, 200mW, 2.2K/10Kohm, SOT-	1
0504-001080	Q02	TR-DIGITAL	KRC246S, NPN, 200mW, 2.2K/10Kohm, SOT-	1
0504-001080	Q03	TR-DIGITAL	KRC246S, NPN, 200mW, 2.2K/10Kohm, SOT-	1
2007-000029	J1	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000029	J2	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000029	J3	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000029	J5	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000029	J6	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000300	R10	R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R04	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R05	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R6	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R7	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R8	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000468	R9	R-CHIP	1Kohm, 5%, 1/8W, TP, 2012	1
2007-000872	R11	R-CHIP	4.7Kohm, 5%, 1/8W, TP, 2012	1
2203-000206	C1	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
DB94-04102A		ASSY PCB AUTO	GOOD, A3050, 64*36, DB92-02876A	1
0601-003285	LED1	LED	ROUND, BLUE, 3.1mm, 3.9x5.4mm	1
0601-003285	LED2	LED	ROUND, BLUE, 3.1mm, 3.9x5.4mm	1
0601-003285	LED3	LED	ROUND, BLUE, 3.1mm, 3.9x5.4mm	1
DB41-01224A	PCB DISPLAY	PCB DISPLAY	FR-1, 1Layer, 64*36, GOOD, 1Oz, 165*192	1

6-3 INDOOR DISPLAY PBA(DB92-02877A) - 7-SEG

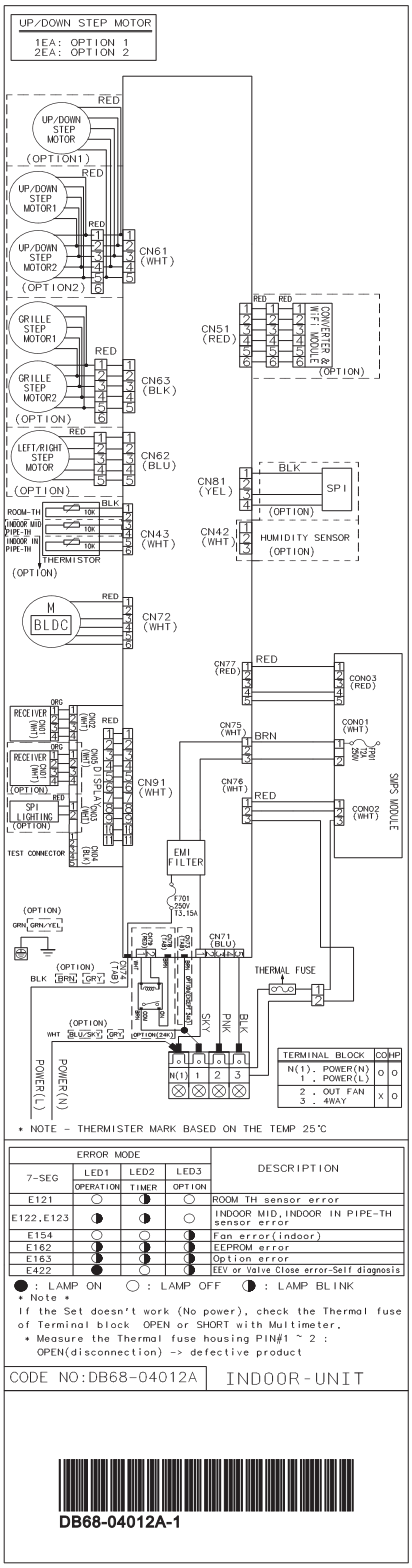
Parts Code	Design Loc	Quantity	Parts Description	Spec.
3711-003848	CN01	1	HEADER-BOARD TO CABLE	BOX, 11P, 1R, 2mm, ANGLE, SN, WHT
3711-003942	CN03	1	HEADER-BOARD TO CABLE	BOX, 2P, 1R, 2mm, STRAIGHT, SN, WHT
3711-004379	CN02	1	HEADER-BOARD TO CABLE	BOX, 4P, 1R, 2mm, STRAIGHT, SN, WHT
3711-004379	CN05	1	HEADER-BOARD TO CABLE	BOX, 4P, 1R, 2mm, STRAIGHT, SN, WHT
3711-005096	CN04	1	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2MM, STRAIGHT, SN, BLK
DB07-00188A	IC02	1	LED DISPLAY	WHITE, TRAY, 390x360, 29.0x23.0x13.5, TRAY, 390x360, 29.0x23.0x13.5
DB94-04104A		1	ASSY PCB AUTO	BETTER, BEST, A3050, 64*36, DB92-02877A
0601-003285	LED1	1	LED	ROUND, BLUE, 3.1mm, 3.9x5.4mm
0601-003285	LED2	1	LED	ROUND, BLUE, 3.1mm, 3.9x5.4mm
DB94-04105A		1	ASSY PCB SMD	BETTER, BEST, A3050, 64*36, DB92-02877A
0403-000258	ZD01	1	DIODE-ZENER	BZX84C5V6, 5.2-6V, 225mW, SOT-23, TP
0504-001080	Q01	1	TR-DIGITAL	KRC246S, NPN, 200mW, 2.2K/10Kohm, SOT-23, TP
1003-002078	IC01	1	IC-LED DRIVER	STLED316S, SO24, 24P, 7.55x15.48mm, -, 320mA, TP, PLASTIC, 5V, -45+85, 1200 mW, 0.4, IC LED DRIVER
2007-000070	R05	1	R-CHIP	0ohm, 5%, 1/10W, TP, 1608
2007-000078	R03	1	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608
2007-000084	R07	1	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608
2007-000090	R02	1	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608
2007-000090	R04	1	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608
2007-000090	R06	1	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608
2203-000027	C04	1	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608, -
2203-000440	C03	1	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608
2203-005249	C02	1	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608
2203-005249	C05	1	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608
2402-001368	C01	1	C-AL, SMD	47uF, 20%, 25V, TP, 6.3x4.9mm
DB41-01225A	PCB DISPLAY	1	PCB DISPLAY	FR-4, 2Layer, 64*36, BETTER, BEST, 1Oz, 165*192

6-4 INDOOR RECEIVE PBA (DB92-02874A)

Parts Code	Design Loc	Parts Description	Spec.	Quantity
0609-001377	RM01	MODULE REMOCON	VERTICAL, 5.85mm, BK	1
3711-004067	CN01	HEADER-BOARD TO CABLE	BOX, 4P, 1R, 2mm, ANGLE, SN, WHT	1
DB63-03547A	COVER-SENSOR	COVER-SENSOR	A3050, PA66, T1.2, -, NATURAL, S834S1	1
DB94-04100A	-	ASSY PCB SMD	RECEIVER, A3050, 24*40, DB92-02874A	1
0406-001005	CD01	DIODE-TVS	SM05, 6/-/-V, 300W, SOT-23	1
2007-000029	J1	R-CHIP	0ohm, 5%, 1/8W, TP, 2012	1
2007-000290	R01	R-CHIP	100ohm, 5%, 1/8W, TP, 2012	1
2203-000206	C03	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 2012	1
2203-000444	C02	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 2012	1
DB94-04099A	-	ASSY PCB AUTO	RECEIVER, A3050, 24*40, DB92-02874A	1
2401-003107	C01	C-AL	47uF, 20%, 16V, GP, TP, 5x7, 5	1
3404-001220	SW01	SWITCH-TACT	12V, 50mA, 160gf, 6x6x5, SPST	1
DB41-01222A	PCB SUB	PCB SUB	FR-1, 1Layer, 24*40, RECEIVER, 1Oz, 142*125	1

7. Wiring Diagram

7-1 Indoor Unit



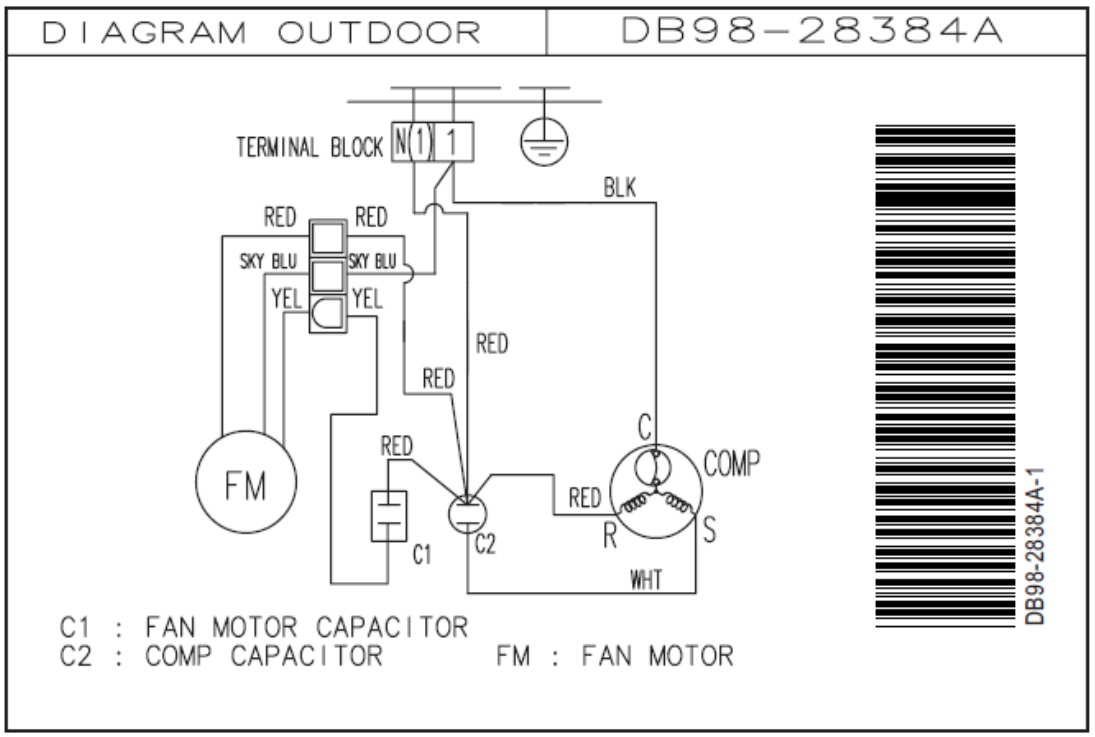


DIAGRAM OUTDOOR
DB98-28384A
TERMINAL BLOCK
N(1) 1
BLK
RED
RED
SKY BLU
SKY BLU
YEL
YEL
RED
RED
RED
C
COMP
FM
RED
R
S
C1
C2
WHT
C1 : FAN MOTOR CAPACITOR
C2 : COMP CAPACITOR
FM : FAN MOTOR
DB98-28384A-1

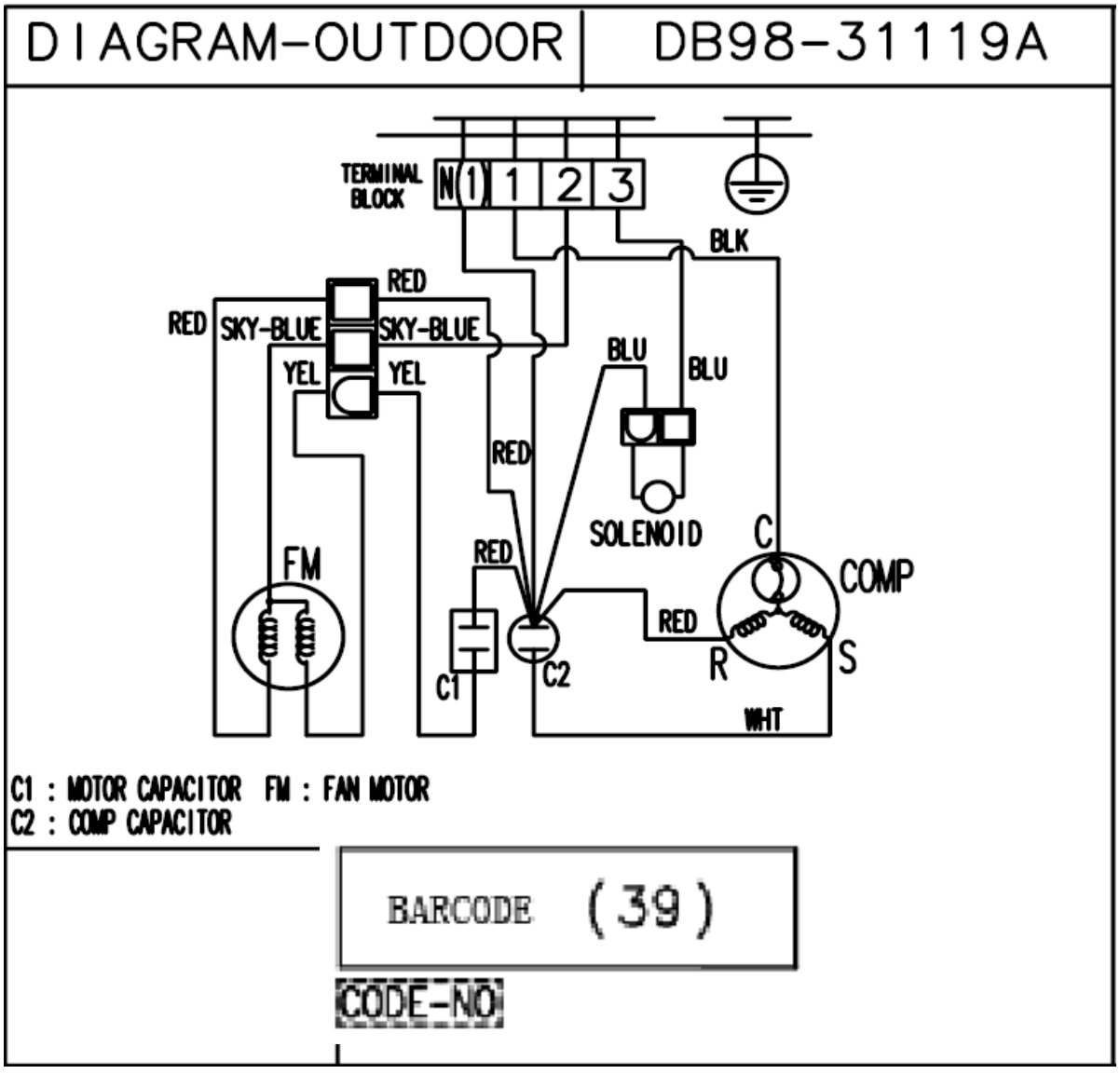


DIAGRAM-OUTDOOR
DB98-31119A
TERMINAL BLOCK
N(1) 1 2 3
BLK
RED
RED
SKY-BLUE
SKY-BLUE
YEL
YEL
BLU
BLU
RED
SOLENOID
C
COMP
RED
FM
RED
C1
C2
R
S
WHT
C1 : MOTOR CAPACITOR FM : FAN MOTOR
C2 : COMP CAPACITOR
BARCODE (39)
CODE-NO

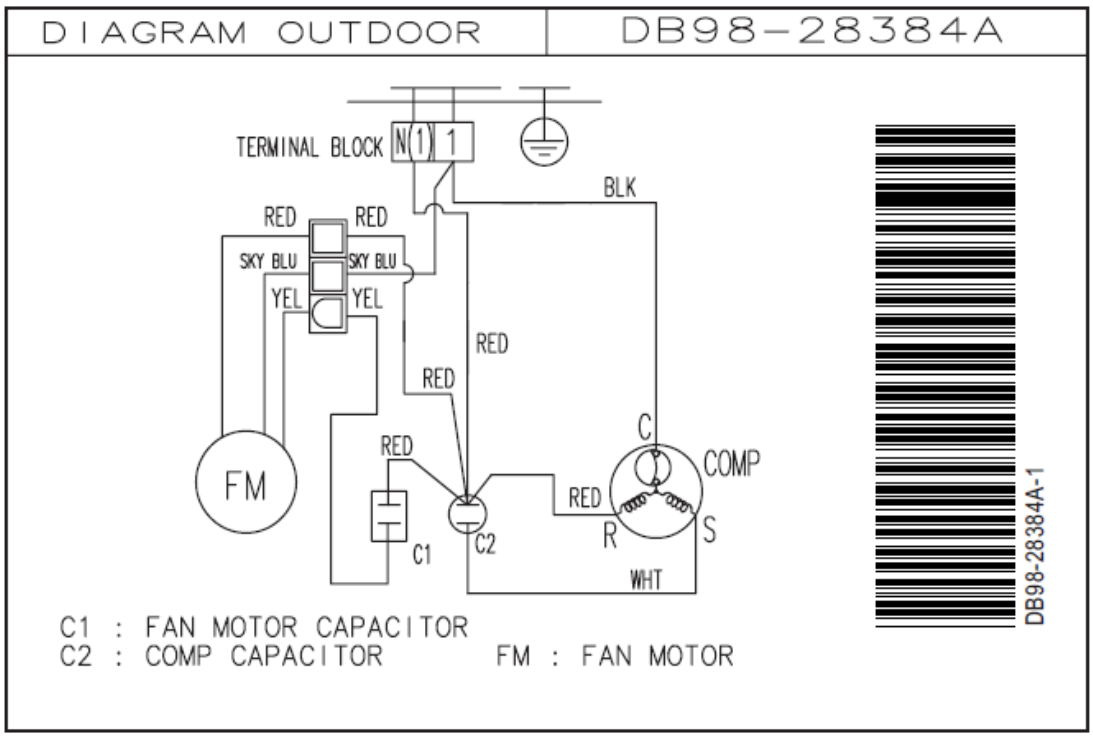


DIAGRAM OUTDOOR
DB98-28384A
TERMINAL BLOCK
N(1) 1
BLK
RED
RED
SKY BLU
SKY BLU
YEL
YEL
RED
RED
RED
C
COMP
FM
RED
C1
C2
R
S
WHT
C1 : FAN MOTOR CAPACITOR
C2 : COMP CAPACITOR
FM : FAN MOTOR
DB98-28384A-1

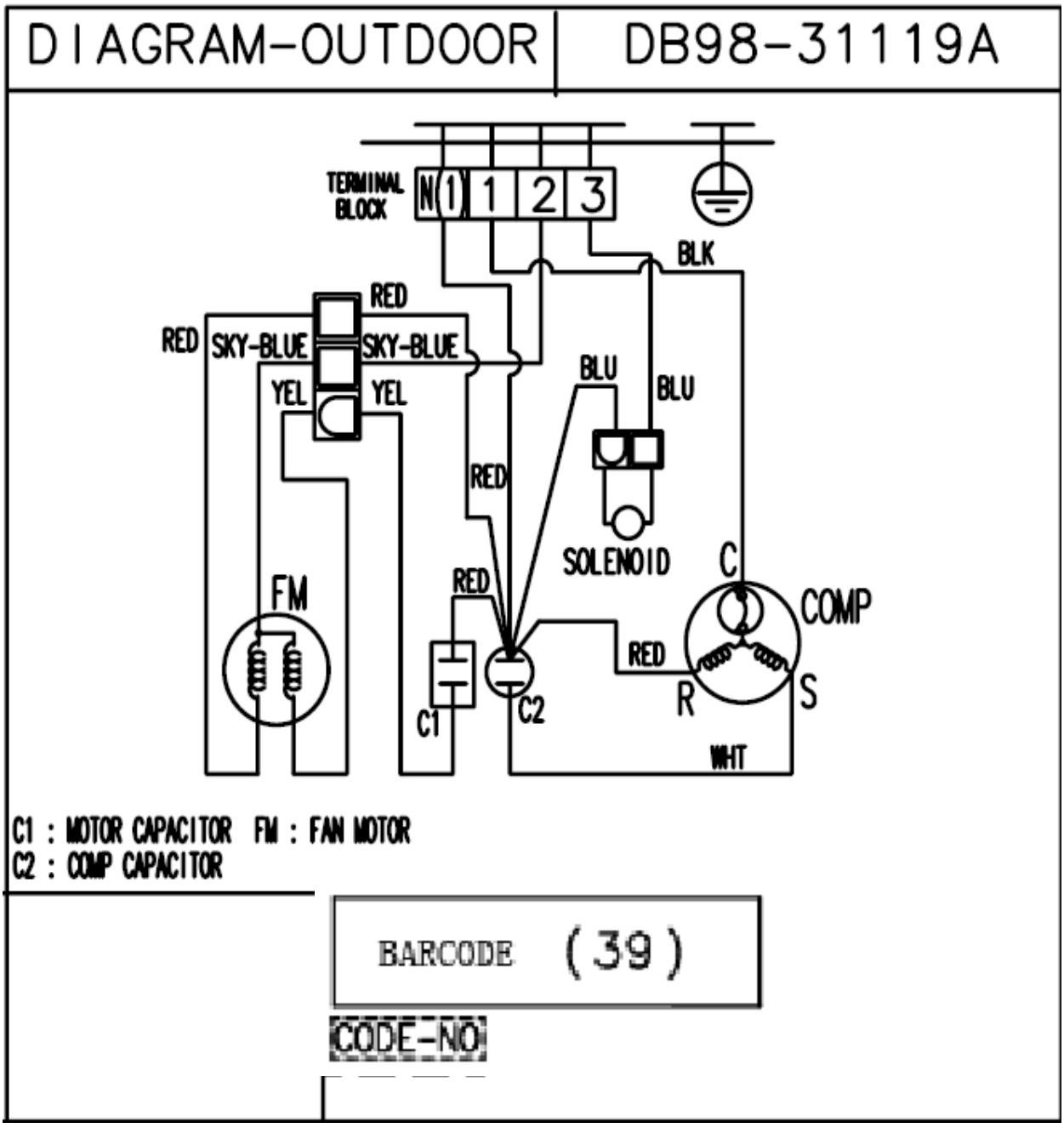
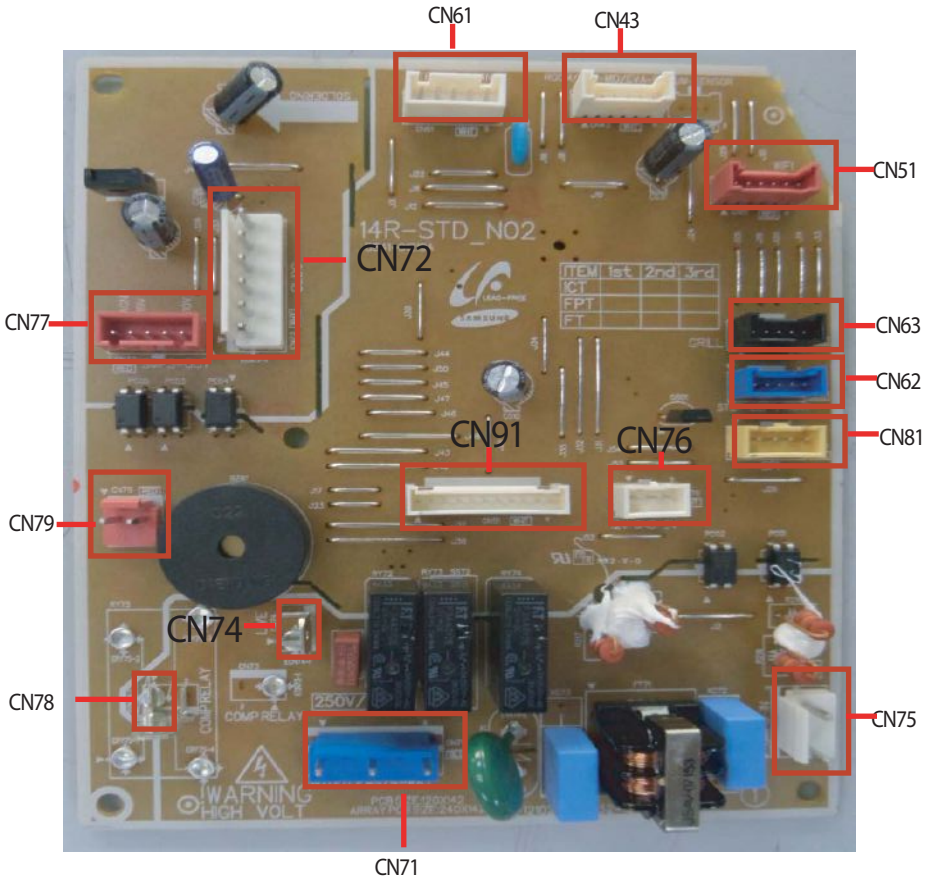


DIAGRAM-OUTDOOR
DB98-31119A
TERMINAL BLOCK
N
1
1
2
3
BLK
RED
RED
SKY-BLUE
SKY-BLUE
YEL
YEL
BLU
BLU
RED
SOLENOID
C
COMP
FM
RED
RED
C1
C2
R
S
WHT
C1 : MOTOR CAPACITOR FM : FAN MOTOR
C2 : COMP CAPACITOR
BARCODE (39)
CODE-NO

8. PCB Diagram

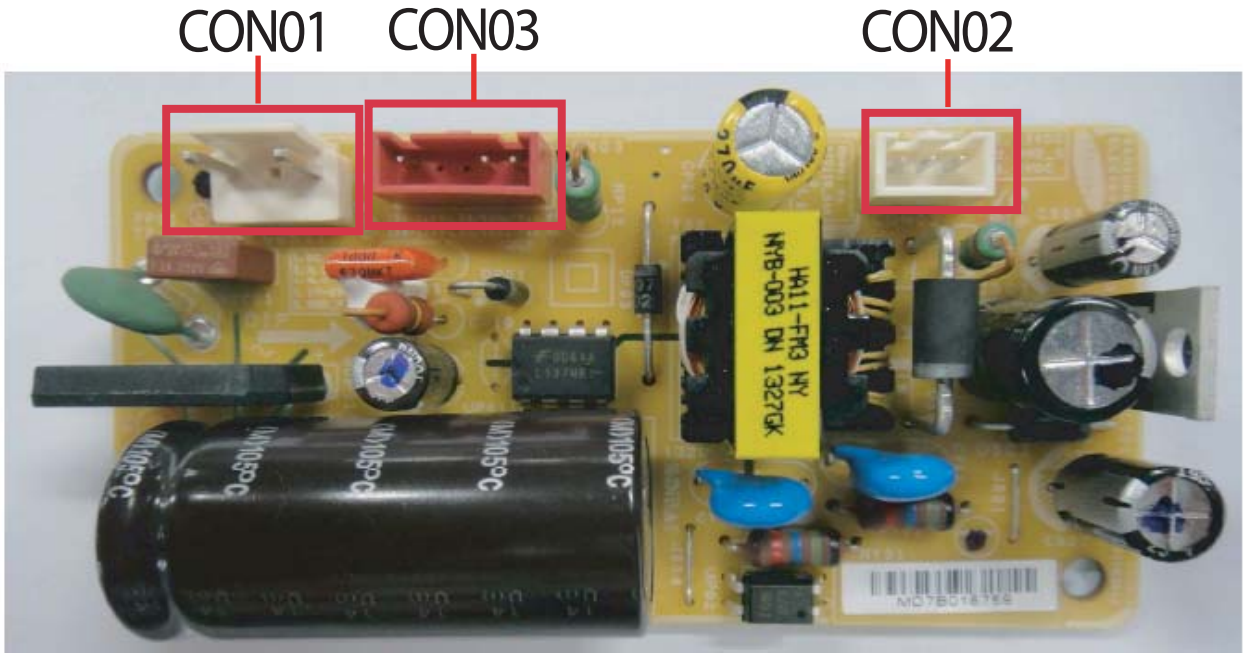
8-1 Indoor Main PCB--DB92-02871 SERIES



CN61/CN62/CN63 - STEP MOTOR #1: DC 12V #2~#5 :STEP MOTOR SIGNAL	**CN71 - -N/OUTFAN/4-WAY** #1 : POWER-N #3 : OUTFAN RELAY signal #5 : 4-WAY RELAY signal	**CN81 - SPI** #1: SPI SIGNAL #3 : DC 12V	**CN51 - WI-FI MODULE** #1 : WIFI UART SIGNAL1 #2 : WIFI UART SIGNAL2 #3 : WIFI RESET SIGNAL #4 : GND #5 : DC 12V #6 : N.C
CN91 - DISPLAY #1- #4 : DIO ; CLK ; STB ; IRQ #5: GND #6-#7 : DC 5V ; DC 12V #8 : PWM_LED #9- #10 : TEST_RX : TEST_TX #11 : MODE0	**CN43 - TEMPERATURE SENSOR** #1,#2 : ROOM SENSOR #3,#4 : EVA MID SENSOR #5,#6 : EVA IN SENSOR	**CN77 - SMPS DC OUT** #1 : DC 310V #3 : DC 19V #5 : AGND	**CN72 - MOTOR_BLDC** #1 : DC 12V #2-5 : Motor driving sigmal output
CN78 - COMP RELAY #1: COMP RELAY	**CN74 - POWER_L** #1: POWER_L	**CN76 - SMPS DC OUT (12V/GND/5V)** #1 : DC 12V #2 : GND #3 : DC 5V	**CN75 -SMPS-IN** #1 : POWER_N #2 : N.C #3 : POWER_L
CN79 -RELAY control #1 -2: Relay control sgnal			

8. PCB Diagram

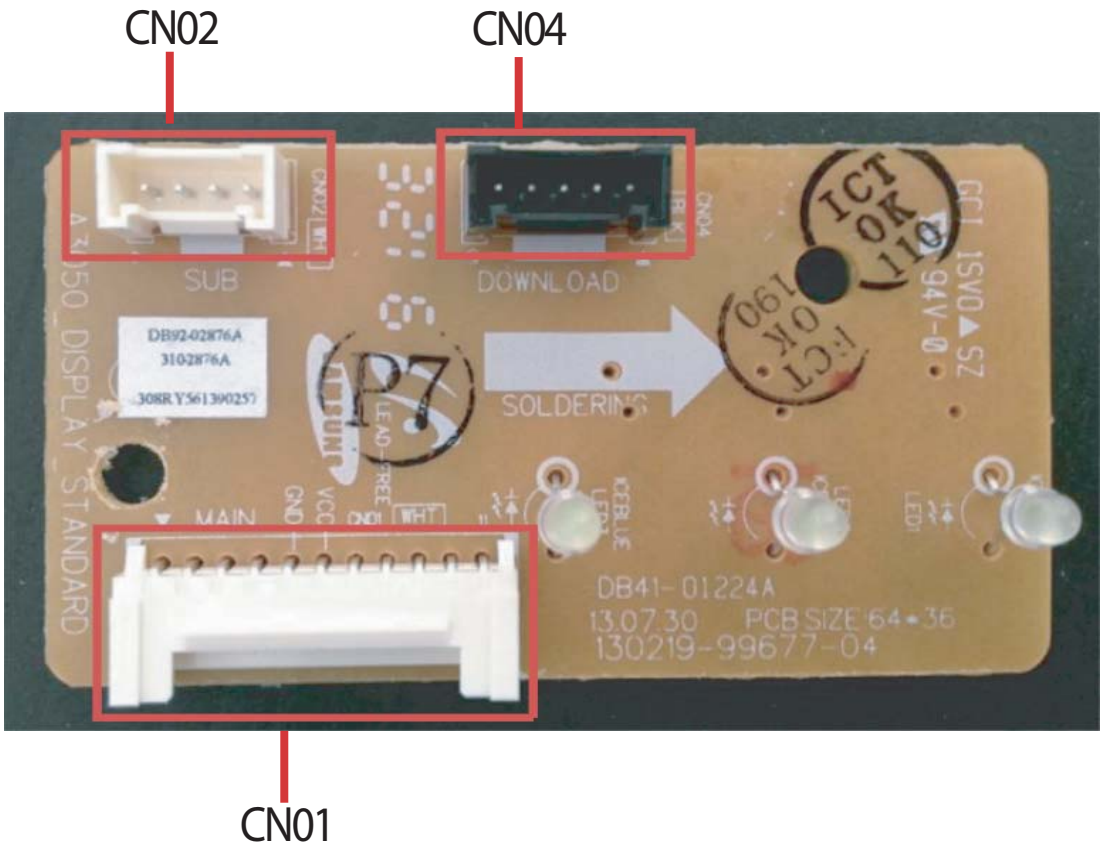
8-1 POWER PCB--DB92-02861A



CON01- AC INPUT	CON02 - SMPS DC OUTPUT	CON03 - SMPS OUTPUT	
#1 : POWER L #2 : POWER N	#1: DC 12V #2: GND #3: DC 5V	#1: DC_LINK #4: 17-27 VDC #5: GND_P	

8. PCB Diagram

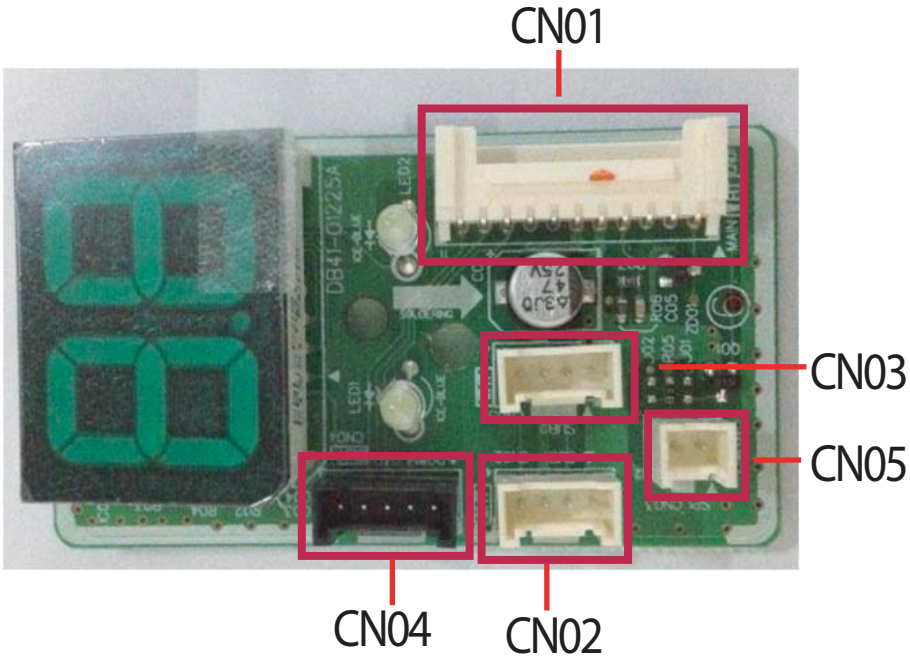
8-4 DISPLAY PCB--3 LED



CN04 - DOWNLOAD	CN02 - POWER IN	CN91 - DISPLAY	
#1 : 5V #2 : TEST_RX #3 : TEST_TX #4 : MODE 0 #5 : GND	#1 : GND #2 : Vout #3 : DC 5V #4 : S/W	#1-#4 : DIO ; CLK ; STB ; IRQ #5 : GND #6-#7 : DC 5V ; Vout #8 : PWM_LED #9-#10 : TEST_RX ; TEST_TX #11 : MODE 0	

8. PCB Diagram

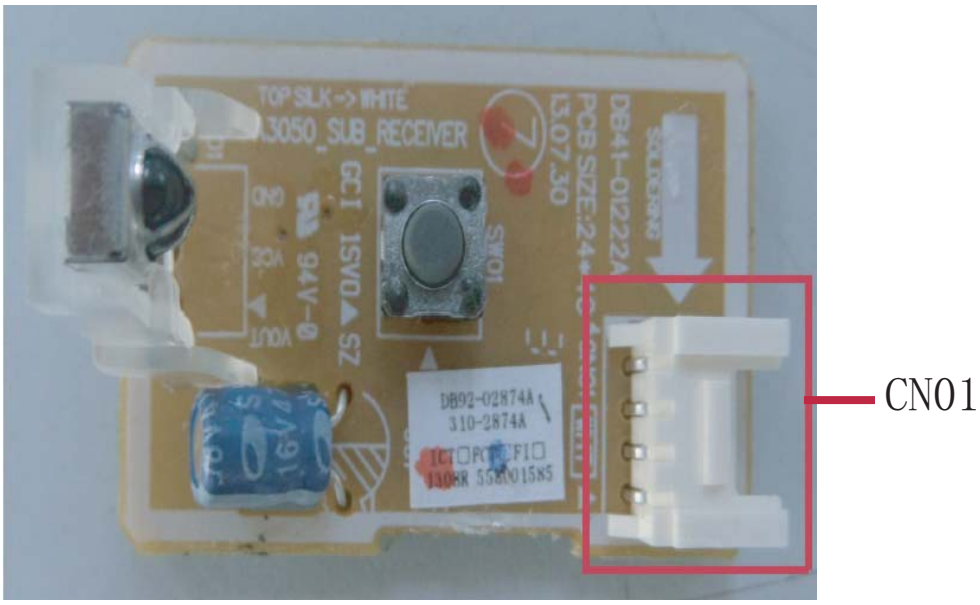
8-5 DISPLAY PCB- 7-SEG



CN04 - DOWNLOAD	CN05 - SPI LAMP	CN05/CN02 - RECEIVE	CN01 - DISPLAY
#1 : DC 12V #2 : TEST_RX #3 : TEST_TX #4 : MODE 0 #5 : GND	#1 : DIG 4 #2 : SEG 8	#1 : GND #2 : Vout #3 : DC_5V #4 : S/W	#1 -#4 : DIO ; CLK ; STB ; IRQ #5 : GND #6 -#7 : DC 5V: Vout #8 : pwm_led #9-#10 : TEST_RX ; TEST_TX #11 : MODE0

8. PCB Diagram

8-6 SUB PCB--RECEIVE



CN01 - RECEIVE #1 : GND #2 : Vout #3 : Vcc #4 : S/W			

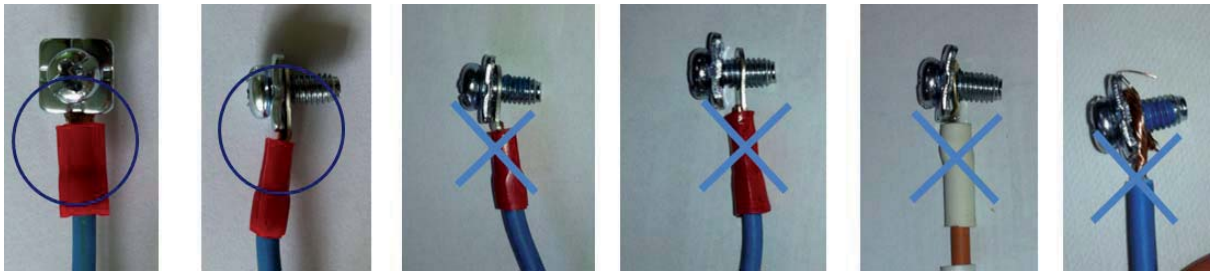
8-7 Wire connecting the indoor unit terminal blocks

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

Is inverted

Terminalhasbeencut.

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

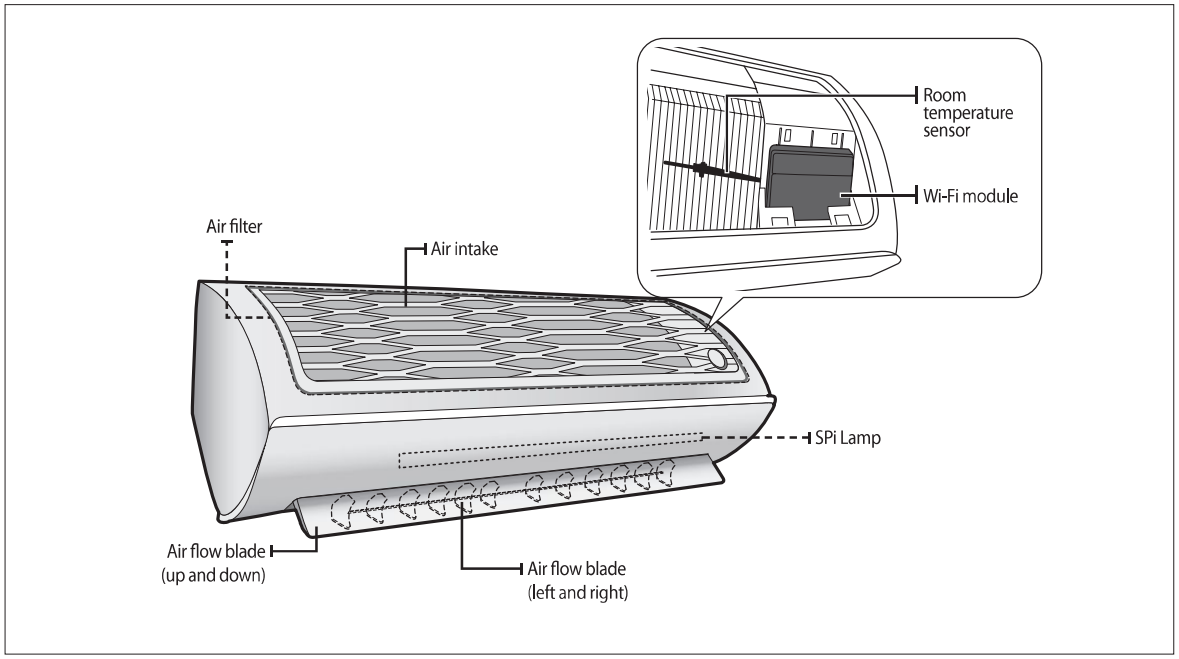
9. Operating Instructions

9-1 Name of Each Part

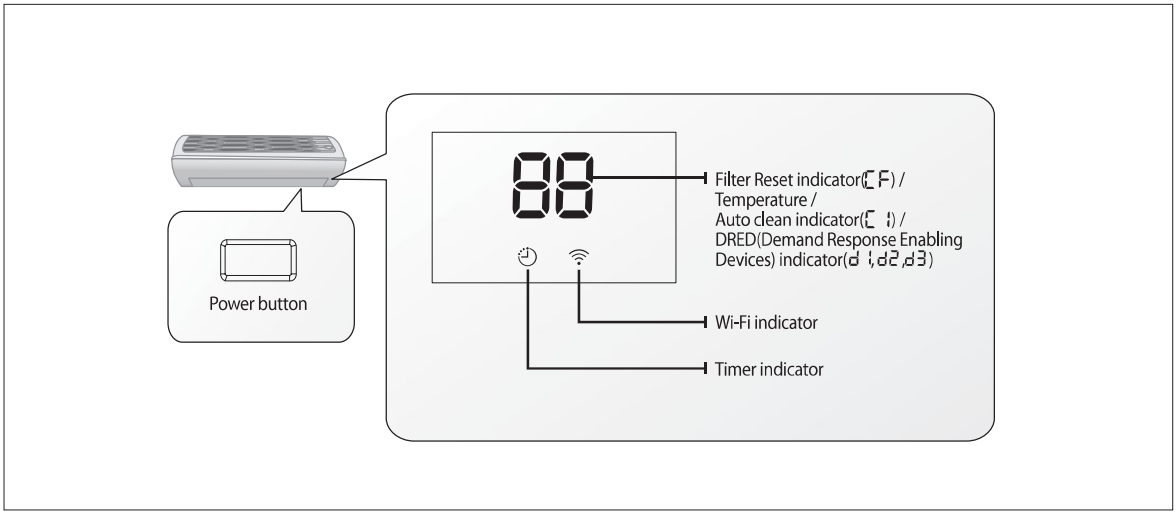
9-1-1 Indoor Unit

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

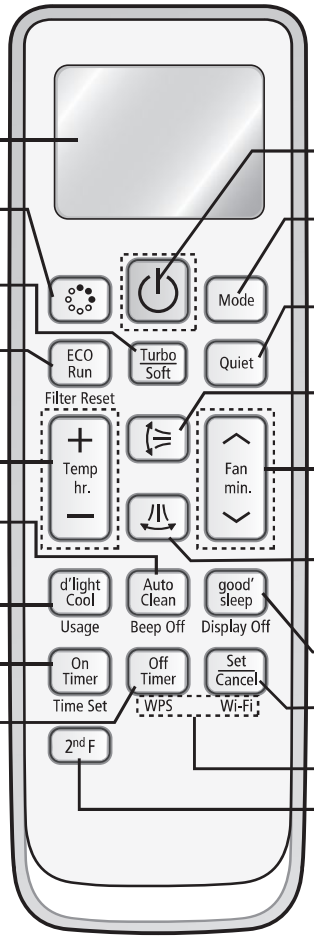
■ Main Parts



■ Display



9-2 Wireless Remote Control-Buttons and Display



Remote controller display

SPi
Set the **SPi** function on/off.

Turbo / Soft
Select Ultra turbo function or Soft function

ECO Run
Turn on/off the ECO Run function which reduces energy usage while operating in cool/heat mode.

Temp + -
Increase/Decrease the temperature by 1 ˚C.

Auto Clean
Auto clean function – Dry inside of the indoor unit to get rid of odor.

d'light Cool
Set the d'light Cool function on/off.

On Timer
Set the On Timer on.

Off Timer
Set the Off Timer on.

Power
Turn on/off the air conditioner.

Mode
Set one of the 5 operating modes (see pages 15~16 for instructions).

Quiet
Reduce noise generated from an indoor unit during operation.

Vertical air swing
Activate/Deactivate air flow blade movement automatically up and down.

Fan
Adjust how much air flows through the air conditioner with the 5 different fan speeds such as Auto/Low/Medium/High/Turbo.

Horizontal air swing
Activate/Deactivate air flow blade movement automatically left and right.

good'sleep
Set the **good'sleep** mode on.

Set/Cancel
Set/Cancel the timer/**good'sleep** mode.

SMART Air conditioner Network.

2ndF
Switch the function of the button on the remote controller.

Filter Reset
Reset the Filter Clean reminder

Usage
Display the amount of power consumption for few seconds on the indoor unit display:

Beep off
To silence the beep sound when pressing the button.

Display off
To turn off the display light

Time set
Set the current time

10. Troubleshooting

10-1 Items to be checked first

1. The input voltage should be rating voltage ±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. **[In case of heat pump model]** In a HEAT operation mode, the compressor does not operate at a room temperature lower than the setting temperature that indoor fan should operate.	In happens after a delay of 3 minutes when the compressor is reoperated. The same phenomenon occurs when a power is on. As a phenomenon that the compressor is reoperated after a delay of 3 minutes, the indoor fan is adjusted automatically with reference to a temperature of the air blew.
3	Fan speed setting is not allowed in DRY mode.	The speed of the indoor fan is set to LL in DRY mode. Fan speed is selected automatically in AUTO mode.
4	Compressor stops operation intermittently in Dry mode.	Compressor operation is controlled automatically in DRY mode depending on the room temperature and humidity.
5	Timer LED(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	**[In case of heat pump model]** Compressor of the outdoor unit is operating although it is turned off in a HEAT mode.	When the unit is turned off while de-ice is activated, the compressor continus operation for up to 9 minutes(maximum) until the deice is completed.
8	**[In case of heat pump model]** The compressor and indoor fan stop intermittenly in HEAT mode.	The compressor and indoor fan stop intermittently if room temperature exceeds a setting temperature in order to protect the compressor from overheated air in a HEAT mode.
9	**[In case of heat pump model]** Indoor fan and outdoor fan stop operation intermittently in a HEAT mode.	The compressor operates in a reverse cycle to remove exterior ice in a HEAT mode, and indoor fan and outdoor fan do not operate intermittently for within 20% of the total heater operation.

10-2-1 Indoor temperature sensor Error

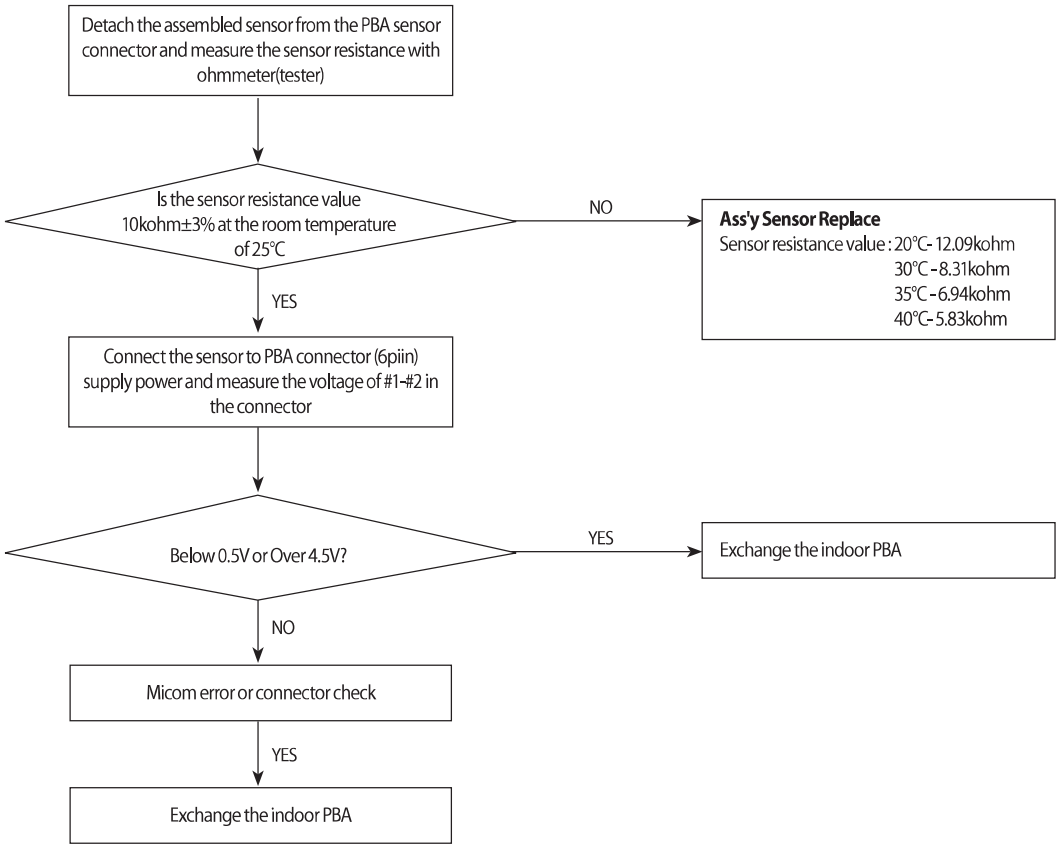
Indoor display

3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	E121	Indoor room temp sensor error
○	◎	○		

? LED ON ◎ LED BLINKING ○ LED OFF

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



10-2-2 Indoor Eva-in temperature sensor error

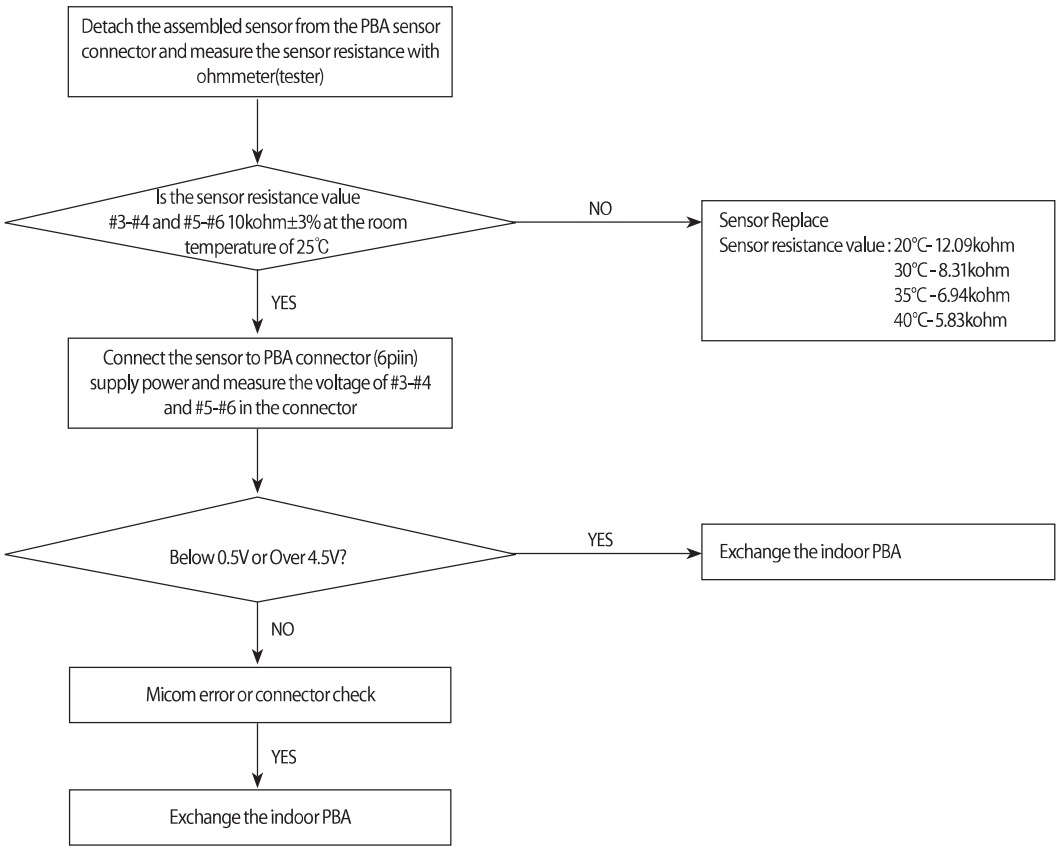
Indoor display

3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	E122,E123	Indoor MID, Indoor IN PIPE-TH sensor error
◎	◎	○		

? LED ON ◎ LED BLINKING ○ LED OFF

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?

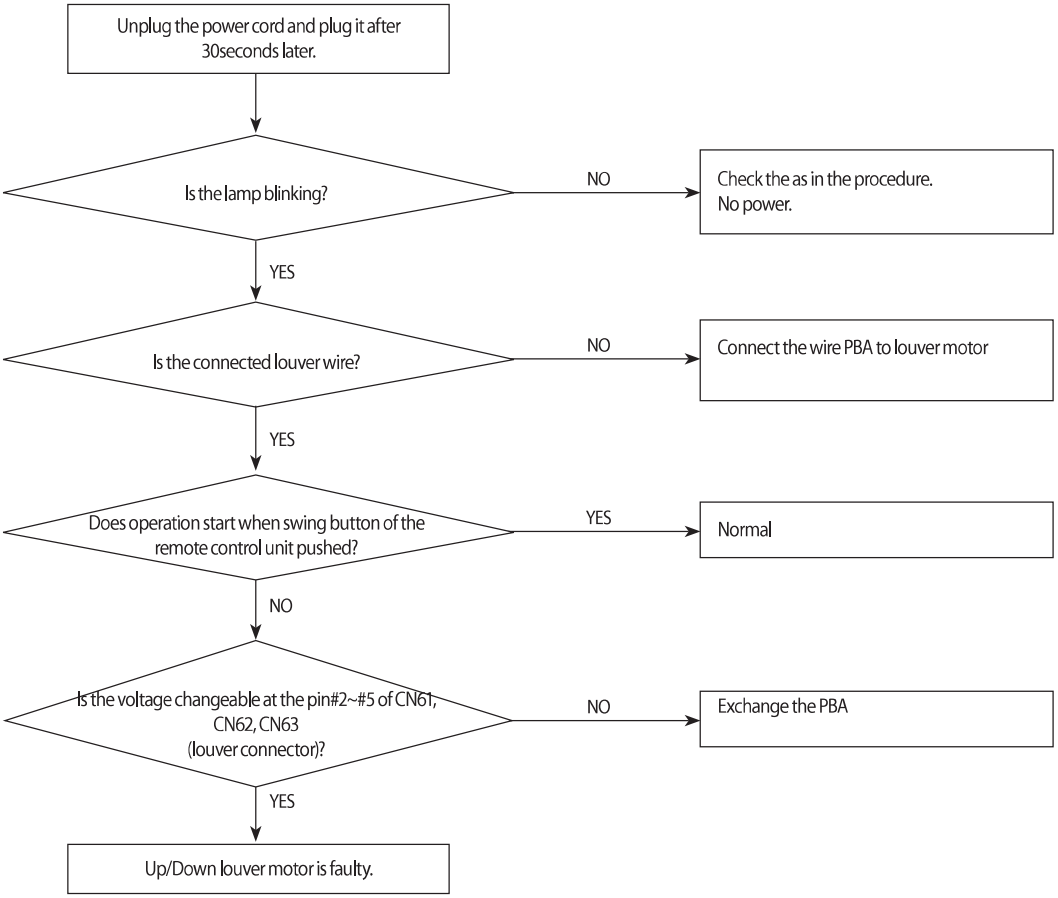
2. Troubleshooting procedure



10-2-3 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)

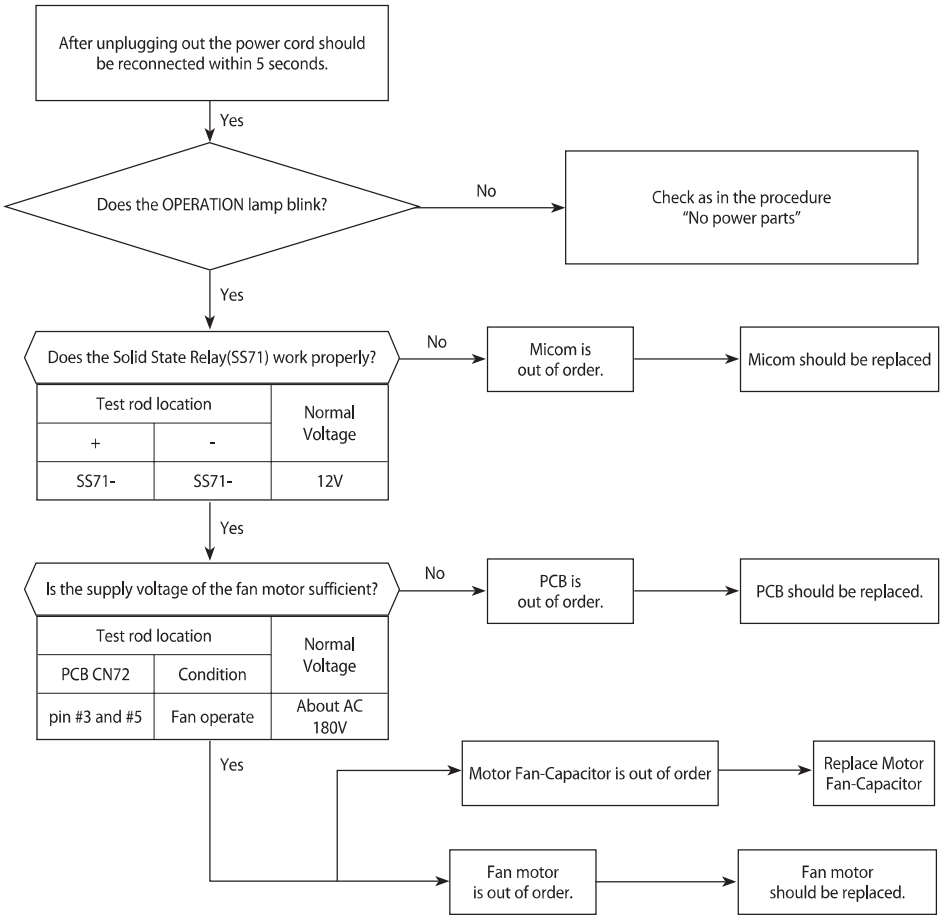
2. Troubleshooting procedure



10-2-4 Indoor Fan Motor Speed Detecting Error↔When E 154 is diplayed

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

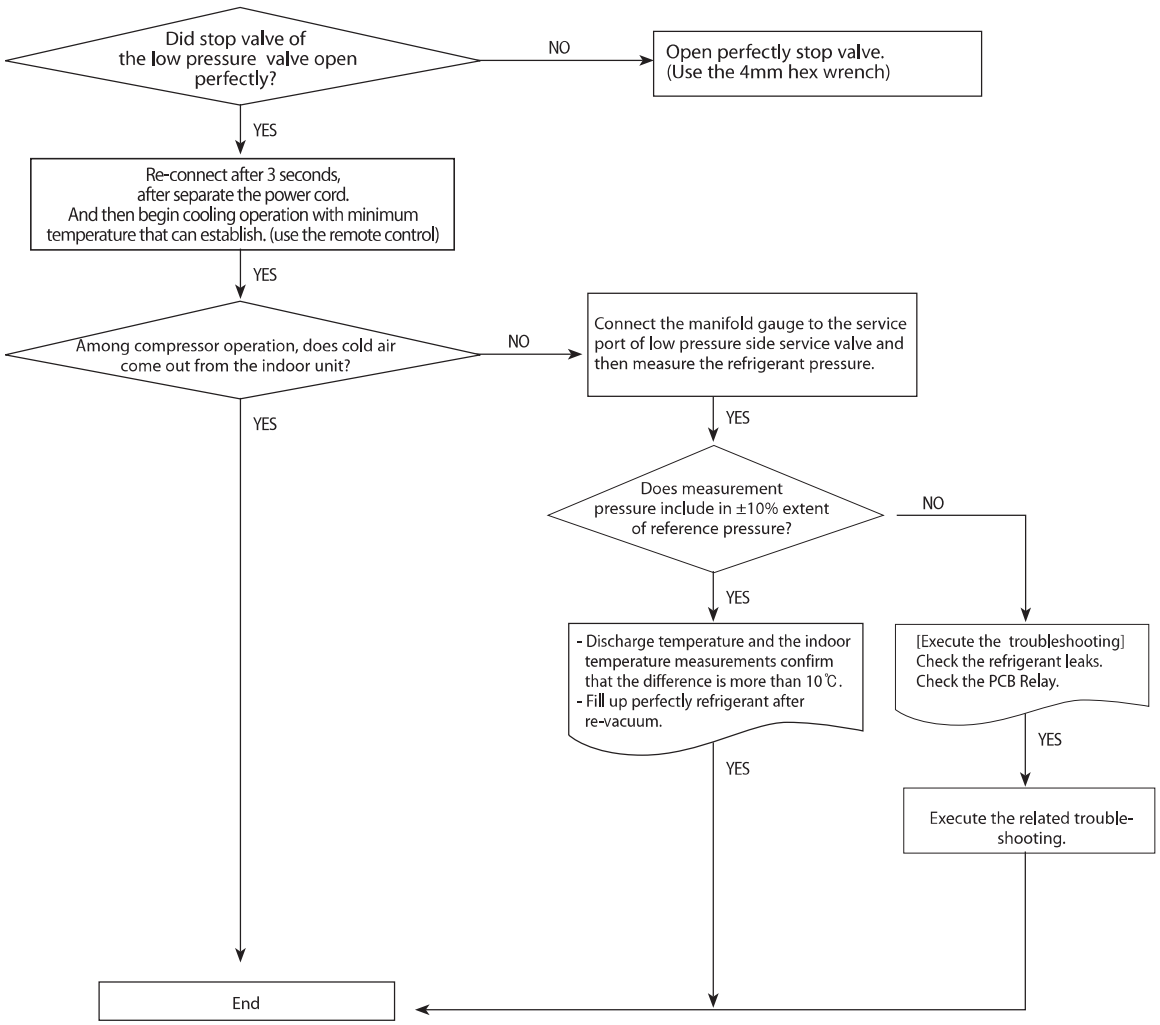
2. Troubleshooting procedure



10-2-30 10-3-18 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. Troubleshooting procedure



10-3 PCB Inspection Method

10-3-1 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.

10-3-2 Inspection procedure

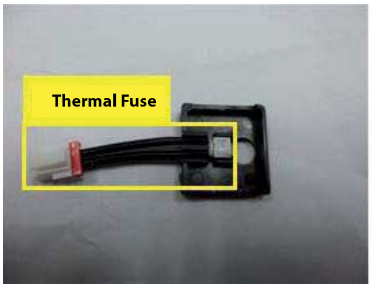
1. Check connector connection and peeling of PCB or bronze coating pattern when you think the PCB is broken.
2. The PCB is composed of 3 parts.
   . Indoor Main part : MICOM and surrounding circuit, relay, fan motor sensing and driving circuit, temperature sensing circuit power circuit of SMPS, buzzer 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)

10-3-3 Indoor detailed inspection procedure

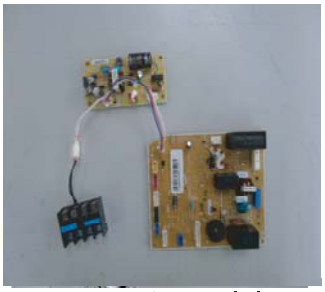
No	procedure	Inspection Method	Cause
1	Plug out and pull the PCB out of the control box Check the PCB fuse.	1) Is 1st fuse disconnected? 2) Is 2nd fuse disconnected?	. Over current. . Indoor Fan motor short. . AC part and pattern short of Indoor PBA.
2	Supply power If the operating lamp twinkles at this 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 C111(+)-(-) 12Vdc?	. Switching Trans of Power circuit is faulty.
		3) Is the voltage between both terminal of C118(+)-(-) 5Vdc?	. Power circuit is faulty, Load short.
3	Press the ON/OFF button. 1. Fan speed(high) 2. Continuous Operation	1) Is the voltage over DC 270V being imposed on terminal #1~#3 of fanmotor 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 #1-#3 of the connector(CN72) is 0V.	. PBA is faulty.

■ New Function [Indoor Terminal Block Safety Device]

1. Thermal Fuse is installed in Terminal Block as below.
(Thermal Fuse is used to prevent PL caused by a defective connection of indoor and outdoor units)

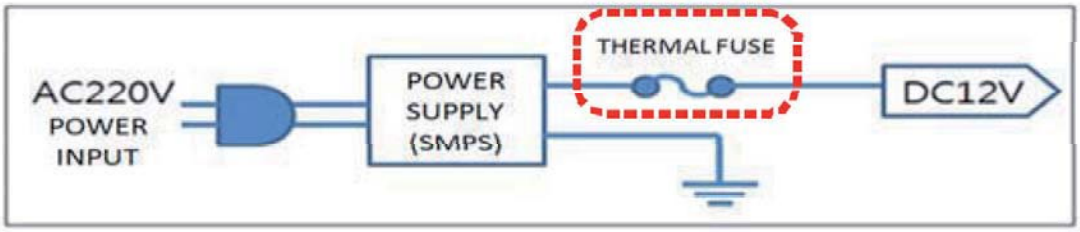


Terminal Block Internals


Connection of terminal block and Main PBA

2. Thermal Fuse is opened when internal temperature of Terminal Block goes to a certain point due to Tracking caused by a defective connection of indoor and outdoor units.

- When Thermal Fuse is opened, Main PBA (DC12V) is turned off and the indoor unit does not operate. (There is no problem with Main PBA in this case)
- In the above case, the change of all-in-one Terminal Block will make Main PBA operate again.



Circuit Block

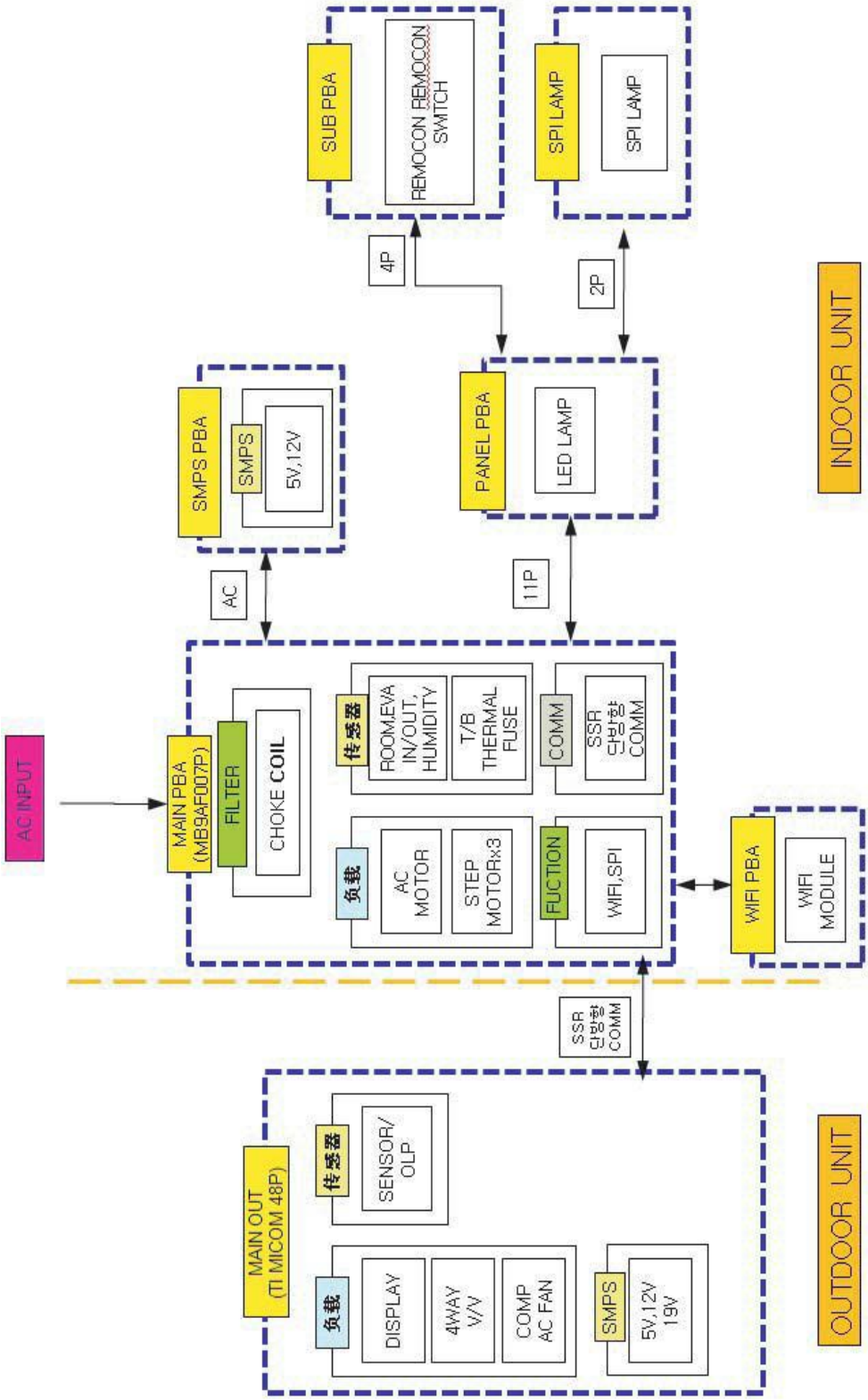
3. Measurement method of fair/defective thermal fuse

Fail

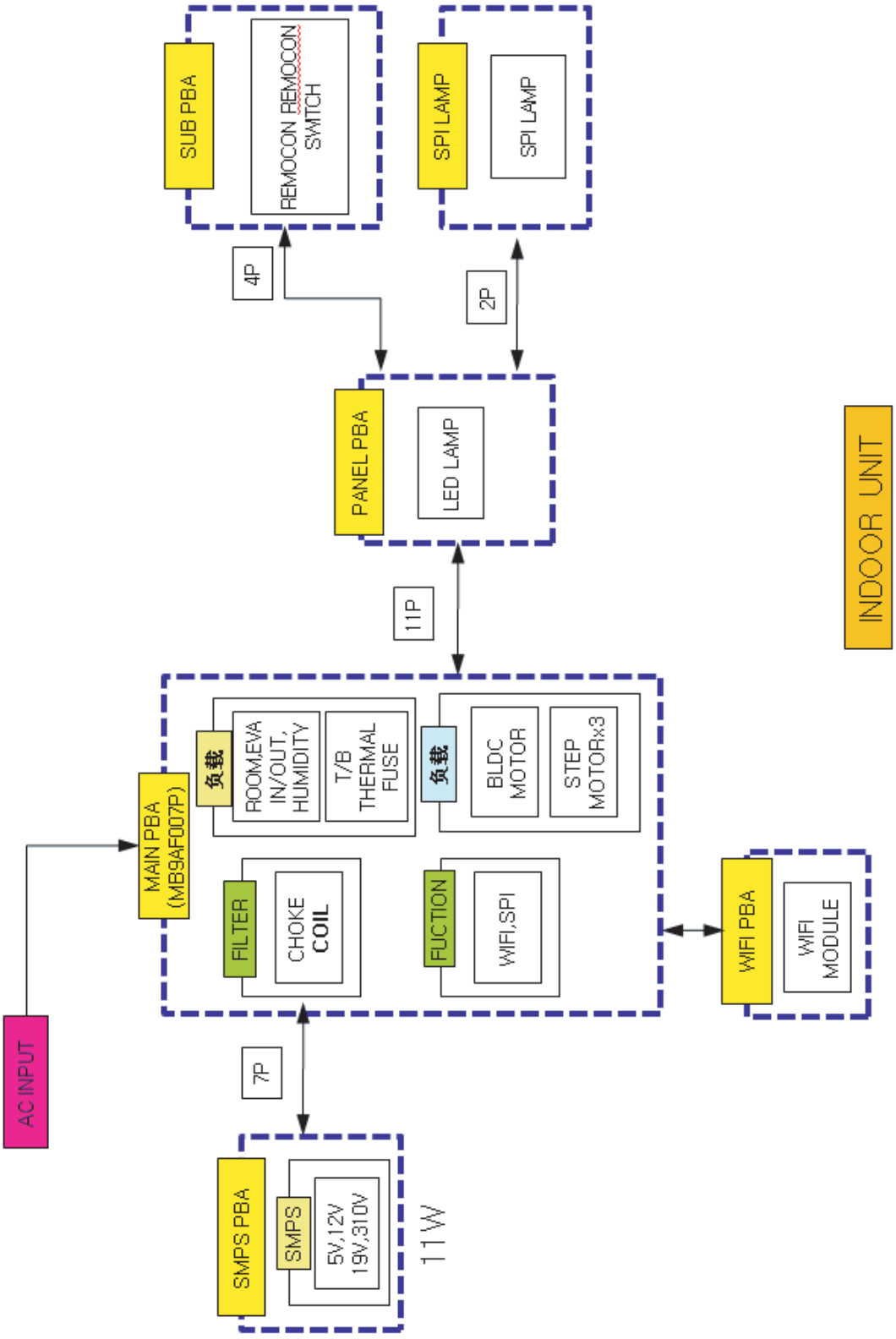
Defective

11. Block Diagram

11-1 Indoor and Outdoor unit 18K



Indoor and Outdoor unit 24K



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) Is the voltage between both terminal of IC02 pin #2-#3 5Vdc?	. Power circuit is faulty, Load short
3	Press the ON/OFF button 1. Fan speed(high) 2. Continuous Operation	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

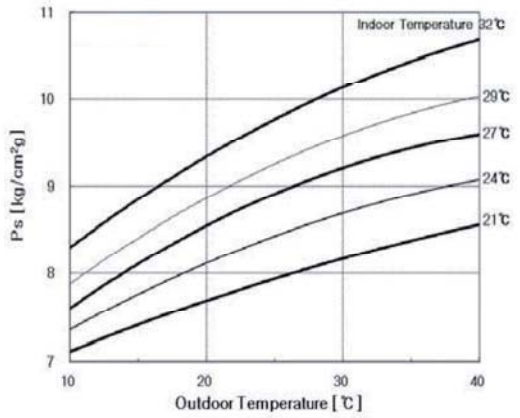
No	Procedure	Inspection Method	Cause
1	Plug out and pull the PCB out of the control box Check the PCB fuse (Wait 3 minutes after power off)	1) Is 1st fuse disconnected?	. Over current . AC part and pattern short of Outdoor PBA
2	Check the Wiring	1) Is the Compressor wire connected clock-wise? 2) Is the 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)
		2) 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 off : 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	3.9302×10^{-4}	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	**Whenever the air conditioner is turned on, it stinks.**
	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	**Whenever the air conditioner is turned on, it smells sour.**
	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	**Whenever the air conditioner is turned on, it smells musty.**
	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	**Whenever the air conditioner is turned on, it sends out bad smells such as stale smells.**
	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	**It sends out bad smells.**
	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	**It won't start.**
	A	There is a power failure or it is plugged out. Also, check if the power distribution panel is switched off.
	Q	**It goes off during operation.**
	A	When the hot air does not escape properly, it goes off during operation. it occurs when it does not ventilate properly because the outdoor unit is covered, the back of the outdoor unit is blocked by a cardboard or a plywood panel, and the front of the outdoor unit is blocked by the closed window or other obstacles. Clear the above obstacles from the outdoor unit.
	Q	**It generally works properly. But, when it's considerably hot, it goes off during operation.**
	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 turn-off and increase the cooling capacity cleaning the outdoor unit or spraying some water to the heat exchanger.
	Q	**The remote controller won't operate.**
	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 mot 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	**Who installs the air conditioner? (Relocation/Re-installation)**
	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	**Is it possible to install the outdoor unit outside?**
	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	**What can be done to install the outdoor unit facing the road because it is a commercial building?**
	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 bel installed higher than 2 m to prevent the exhaust air from blowing directly to passers-by 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	**What about installing a windscreen during installation not to blow hot air directly to passers-by?**
	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.

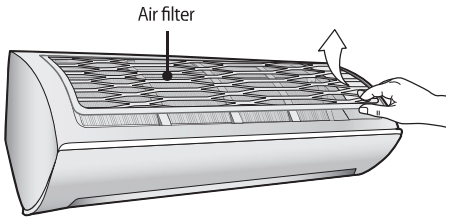
12-4 Cleaning /Filter Change

12-4-1 Cleaning your Air Conditioner

To get the best possible use out of your air conditioner, you must clean it regularly to remove the dust that accumulates on the air filter.

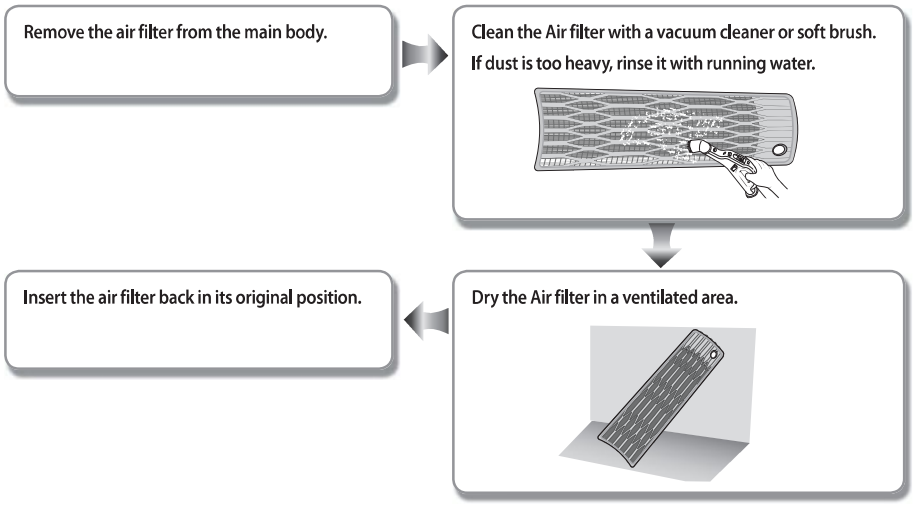
Removing the Air filter

There is a hole on the bottom right side of the filter. Put your finger in that hole to get a grip on the filter and slightly push it up to release the hooks from the bottom side. Then, pull it down to remove the filter from the main body.



Cleaning the air filter

Washable foam based air filter captures large particles from the air. The filter is cleaned with a vacuum or by hand washing.



NOTE

- Clean the Air filter every 2 weeks. Cleaning term may differ depending on the usage and environmental conditions. In dusty area, clean it once a week.
- If the Air filter dries in a confined (or humid) area, odors may generate. If it occurs, re-clean and dry it in a well-ventilated area.
- When the filter clean reminder is on, please press the 2nd F button and then press the ECO Run button on remote controller.

12-5 Installation

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**

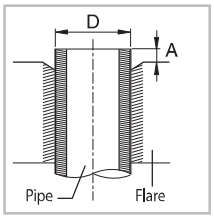
Fix the air conditioner indoor unit securely to the wall. Secure the outdoor unit in a suitable position.

■ **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.

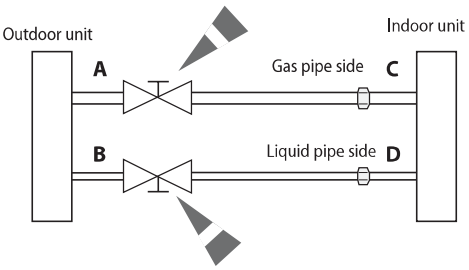
3) Open the valve of the low pressure side of manifold gauge counter-clockwise.

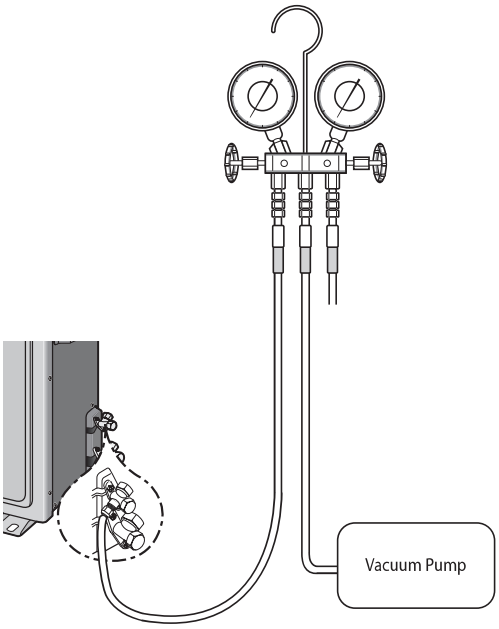
4) Purge the air from the system using vacuum pump for about 30 minutes.
- After that, please recheck that pressure is stabilized.
- Close the valve of the low pressure side of manifold gauge clockwise.
- Remove the hose of the low pressure side of manifold gauge.

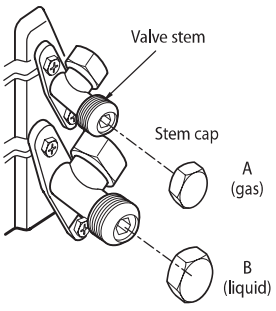
5) Set valve cork of both liquid side and gas side of packed valve to the open position.

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

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

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

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

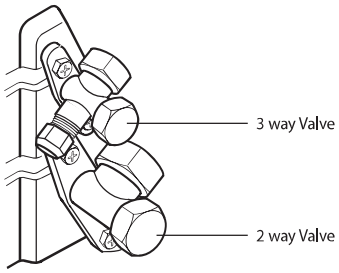
3) Set the unit to cool operation mode. (Check if the compressor is operating.)

4) Turn the 3 way valve clockwise to close.

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

6) Stop operation of the air conditioner.

7) Close the cap of each valve.



Remarks

Relocation of the air conditioner

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

12-7.Reference Sheet

Index for Model Name

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

Model Code

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	2	F	S	S	S	B	W	K	N/X	S	A

ITEM	1ST	2ND
RAC	A	R
FAC	A	F
WAC	A	W

Item	Reference	3TH	4TH
1	Export	0	9
2	Export	1	2
3	Export	1	8
4	Export	2	4
5	Export	3	0

Item	5TH
12Year	E
13Year	F
14Year	H
15Year	J
16Year	K

Item	6TH
INVERTER HP	S
INVERTER CO	V

Item1	Item2	7TH
Export	The virus doctor (The India / Latin America A / PAC K besides)	S
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 DIGIT		
Export	1st MODEL	A
Export	2nd	B
Export	3rd MODEL	C
Export	4th MODEL	D
Export	5th MODEL	E

Item 1	Item 2	Item 3	8TH	9TH
Export	RAC	FMC FLG (Best)	1ST MODEL	F
Export	RAC	FMC DLX (Better)	1ST MODEL	D
Export	RAC	FMC STD (Good1)	1ST MODEL	S
Export	RAC	FMC ENT (Good2)	1ST MODEL	N

Division	Series	Project	Color Name	Division component	Sinkeolreo code (10TH,11TH)	Remark
A3050	F	Best	Twilight	Grille	WK	
	F	Best	TBD	Grille	TBD	
	D	Better	Twilight	Grille	WK	
	D	Better	TBD	Grille	TBD	
	S	Good1	Twilight	Grille	WK	Deco : Transparency
	S	Good1	Midnight Blue	Deco	UR	Grille : Twilight
	N	Good2	Twilight	Grille	WK	
	N	Good2	TBD	Grille	TBD	Grille : Metalic Gray

Item1	Item2	12TH
Export	SET	/
Export	IN	N
Export	OUT	X

Item	The existing code	The sales area	CIS Desription	The integrated code (13TH,14TH)
1	XSA	AUSTRALIA	AUSTRALIA(XSA	SA

● Except the RAC Export Models for China.

Code No. AC-00045K_1