

# **SPLIT-TYPE AIR CONDITIONER**

INDOOR UNIT OUTDOOR UNIT

Model Code: AR09KSWSJWKNCVAR09KSWSJWKXCV

AR12KSWSJWKNCVAR12KSWSJWKXCV AR18KSWSJWKNCVAR18KSWSJWKXCV AR24KSWSJWKNCVAR24KSWSJWKXCV

Basic Code: AR09HSFSJWKNCV AR09HSFSJWKXCV

AR12HSFSJWKNCV AR12HSFSJWKXCV AR18HSFSJWKNCV AR18HSFSJWKXCV AR24HSFSJWKNCV AR24HSFSJWKXCV

# SERVICE Manual

#### **AIR CONDITIONER**



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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 e
   \( \sigma \) cept window-type air conditioner in U.S.A and Canada.
- If you don It 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.
   (e\( \times \) cept 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 ⊠ualified 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 au⊠iliary circuit breaker
  - An all pole disconnection form the power supply must be incorporated in the fi\infty ed wiring with a contact opening of>3mm.
- Do not e⊠tend an electric cord to the air conditioner.
- The air conditioner must be plugged in after you complete the installation.

#### 1-3 During operation

- $\bullet\hspace{0.4cm}$  Do not repair the air conditioner at your discretion.
  - It is recommended to contact a service center directly.
- Never spill any kind of li\u00eduid 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 conse⊠uent 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 li\u00eduid 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 was the remote control for a long time. (If applicable)
- Use the remote control within 7 meters from the indoor unit. (If applicable)



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## 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.
- Ma⊠ current is measured according to IEC standard for safety.
- Current is measured according to ISO standard for energy efficiency.



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## 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 Wi-Fi
  - Control air conditioner anytime and anywhere
- Smart Installation
  - Get the confidence that it's perfectly installed
- 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

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#### 2-2 Product Specifications

			Model	AR09KSW	/SJWK/CV	AR12KSV	VSJWK/CV	AR18KS	WSJWK/CV	AR24KS\	NSJWK/CV	
ITEM				INDOOR	OUTDOOR	INDOOR	OUTDOOR	INDOOR	OUTDOOR	INDOOR	OUTDOOR	
	Ту	ре		Wall-r	mounted	Wall-	mounted	Wall-	mounted	Wall-	mounted	
	Capacity	Cool ing	KW	0.9 9	/2.64/3.20	0.9 9	/3.52/4.00	1.6/5.2	275/7.00	2.60/6.448/9 .30		
	Capacity	Heating	(Low/Std /Max	0.9 9	/3.52/5.20	0.9 9	/3.9 9 /6.00	1.2/6.0	04/8.00	2.2/7.9 13/12.00		
	Running Freq uency	Cool ing	Hz	15/3	8/45	15/5	3/67	15/4	47/73	15/4	11/69	
	Running Freq dency	Heating	(Low/Std /Max	15/5	5/82	15/6	3/103	15/5	54/72	15/4	16/75	
Perf ormance	Noise	Cool ing	d B	45.	/44	47	/45	4	46	50	/49	
	Noise	Heating	(H/L)	5	1	5	i3		57	(	60	
	Energ y Efficiency	Cool ing	W/W	4	.4	4	.3	3.	.88	3.	58	
	Ratio	Heating	(Std )		4	4	.5	3	3.7	3.	14	
	Pow er		ph -V-Hz	1ph ase, 208	3-230V~,60H	1ph ase,	208-230V~, 60I	z 1ph ase, 20	8-230V~, 60Hz	1ph ase, 20	8-230V~, 60Hz	
	Pow er Consumtion	Cool ing	W	220/6	00/700	220/88	80/1150	380/13	60/2200	600/18	00/3150	
	row er consumitor	Heating	(Low/Std /Max)	19 0/8	80/1400	19 0/1	060/1800	300/16	30/2100	480/25	20/4200	
Pow	Operating Current	Cool ing	A	1.5/2	.9 /3.2	1.5/4	.1/5.3	1.8/6	6.2/9 .7	3.2/8	3/14.0	
-OW	Operating Current	Heating	(Low/Std /Max)	1.3/4	.1/6.5	1.3/4	.9 /8.3	1.5/7.	.3/10.5	2.6/11	.5/19 .0	
	Pow er Factor	Cool ing	%	8	5	8	15	9 0		9 0		
	Pow er Factor	Heating	(Std )	85		85		9 0		9 0		
	Outer Dimension	Wid th *Heig *Depth	ht mm	9 56*317*335	9 26*640*384	956*317*335	926*640*384	123*354*384	1023*911*413	1123*354*384	1051*1045*417	
	Weig h t(Net)		k g	11	37	11	37	14	53	14	71.5	
	lı lı	Liq uid	mm	6.35		6.35		6.35		6.35		
	Ref rig erant Pipe	Gas	mm	9 .52		9 .52		9 .52		9 .52		
	Drain Hose		L*D	550	)*20	550*20		550*20		550*20		
Siz e		Ту ре		UG9 T115FUAEQ SS		UG9 T115FUAEQ SS		UG4T200	FUAE4SS	UG8T300FUBJUSS		
	Compressor	Motor	Ty pe	-		-			-	-		
		IVIOLOI	Rated Output(W)		-		-		-		-	
	Oil Ty pe				-		-		-		-	
		Ту ре		Cross-f I ow	Propel I er	Cross-f I ow	Propel I e	Cross-f I	ow Propell	ler Cross-t	low Prop	
	Bl ow er	motor	Ty pe	Resin/steel /AC	Resin/steel/A	C Resin/steel/A	C Resin/steel //	C Resin/steel /	AC Resin/steel	AC Resin/steel	AC Resin/ste	
		TIDIOI	Rated Output(W)	-	-	-	-	-	-	-	-	
Heat Exch ano	g er			2Row 14Step 1Row 10Step	2Row 24Step	2Row 14Step 1Row 10Step	2Row 24Step	2Row 16Step 1Row 12Step	2Row 36Step	2Row 16Step 1Row 12Step	2Row 42Step	
Ref rig erant (	Control Unit			E	₹V	Е	€V	E	ĒV	E	EV	
reez er Oil C	Capacity		cc		-		-		-	-		
Ref rig erant t	o Ch ang e(R410A)		g	12	50	1250		20	000	2300		
Proterction Dev	vice(OLP)			None		No	None		one	None		
		C	cool ing	-10~	46℃	-10~	46℃	-10~	- 46℃	-10~ 46℃		
Operation condition rangle		Н	leating	-15~	24℃	-15-	24℃	-15-	- 24℃	-15-	- 24℃	

#### 2-3 The Comparative Specifications of Product

	MODEL	Devel op Mod el									
ITEM		AR09 KSWSJWK/CV	AR12KSWSJWK/CV	AR18KSWSJWK/CV	AR24KSWSJWK/CV						
	Ind oor Unit										
Desig n	Outd oor Unit			NAMES.	POLARIZA.						
Nat Wais b t	Ind oor Unit	11	11	14	14						
Net Weig h t	Outd oor Unit	37	37	53	71.5						
Outer Dimension	Ind oor Unit	9 56*317*335	9 56*317*335	1123*354*384	1123*354*384						
Outer Dilligion	Outd oor Unit	9 26*640*384	9 26*640*384	1023*9 11*413	1051*1045*417						
Noise	Ind oor Unit	45	47	46	50						
Noise	Outd oor Unit	51	53	57	60						
Air Purif y ing Sy ste		FULL HDFILTER	FULL HDFILTER	FULL HDFILTER	FULL HDFILTER						

# **2-4 Accessory and Option Specifications**

Item	Descriptions	Code-No.	⊠ <b>⊠</b> Y	Remark
	Installation Plate **09/12* (04 frame)	DB90-07732A	1	
	Installation Plate *18/24/30* (05 frame)	DB90-07731A	1	
888 888 888 888	Remote controller	DB93-14195G	1	
	Batteries for Remote controller	4301-000121	2	
	User's & Installation Manual	DB68-04405A	1	Indoor unit case
	Wi-Fi Manual	DB68-04419A	1	
	Remote Control Holder	_	_	
<i>√ummu</i> }	M4x10 Tapped Screws	DB97-23032A	2	
<i>€mmm</i> }	M4 x 16 Tapped Screws	DB97-11984A	2	
	Drain Plug	DB67-20011A	1	Outdoor unit case
	Rubber Leg	DB73-20134A	4	Outdoor unit case

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## 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



• 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.

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

ERROR M ODE	D ESCR IP T IO N
E101 / E102	Communication Error (Indo <del>or</del> Outdoor)
E121	ROOM TH sensor error
E122	INDOOR MID, INDOOR IN PIPE-TH sensor error
E154	Fan Error (Indoor)
E162	EEPROM Error (Indoor)
E163	Option Error
E203	Time out Comm. (Inv Micom ↔ Main Micom)
E221	OUT-TH(Outdoor Temperature) Sensor Error
E231	CON-TH(Cond Temperature) Sensor Error
E251	DIS-TH(Discharge Temperature) Sensor Error
E416	DIS-TH(Discharge Temperature) Over Error
E422	EEV or Valve Close error-Self diagnosis
E440	Prohibit Operation Condition Error (Heating)
E441	Prohibit Operation Condition Error (Cooling)
E458	Fan Error(Outdoor)
E461	Comp Starting Error
E462	AC Input I_Limit Trip Error
E464	IPM Over Current(0.C) Error
E465	Comp V_1imit/I_1imit Error
E466	DC-Link Voltage Under/Over Error
E467	Comp Wire Missing Error
E468	Current Sensor Error
E469	DC-Link Voltage Sensor Error
E470	EEPROM Data Error (no data)
E471	EEPROM Data Error (Main Micom↔Inv Micom)
E474	Heatsink Sensor Error
E483	Over Voltage Protection Error
E484	PFC Over Load Error
E485	Input Current Sensor Error
E488	AC Input Voltage Sensor Error
E500	Heatsink Over Temperature Error
E554	Gas Leak Error

	ERROR M	ODE		
	ERROR M	ODE		
7-SEG	LED1	LED2	LED3	DESCRIPTION
	OPERATION	TIMER	OPTION	
E101,E102	0	•	•	Communication error (indoor <-> outdoor)
E121	0	•	0	ROOM TH sensor error
E122,E123	•	•	0	INDOOR MID, INDOOR IN PIPE-TH sensor error
E154	0	0	•	Fan error(indoor)
E162	•	•	•	EEPROM error
E163	•	•	•	Option error
FROM E200		0	•	Outdoor error display
E422		0		EEV or Valve Close error-Self diagnosis

- If the Set doesn't work (No power), check the Thermal fuse of Terminal block OPEN or SHORT with Multimeter.
  - \* Measure the Thermal fuse housing PIN#1  $^{\sim}$  2 : OPEN(disconnection) -> defective product

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## Outdoor LED Display Error and Check Method (9K/12K)

	LED PATTERN	1	DESCRIPTION
YEL	GRN	RED	DESCRIPTION
0	0	0	Power off/VDD NG
•	•	•	Power ON reset(1sec)
0	•	•	Normal Operation
0	0	•	Abnormal Communication (Indoor↔Outdoor)
0	•	•	Abhornial Communication (indoor Voucdoor)
0	0	•	IPM Over Current(O.C) Error
0	•	0	Comp Starting Error
0	•	0	EEPROM Data Error (no data)
			DC-Link Voltage Under/Over Error
0	•	•	PFC Over Load Error
			Over Voltage Protection Error
•	0	•	OUT-TH(Outdoor Temperature) Sensor Error
•	0	•	DIS-TH(Discharge Temperature) Over Error
•	•	0	DIS-TH(Discharge Temperature) Sensor Error
	•	•	Current Sensor Error
•			Heatsink Sensor Error
			Input Current Sensor Error
			Comp V_limit/I_limit Error
•			Heatsink Over Temperature Error
•	•	•	CON-TH(Cond Temperature) Sensor Error
•	•	•	Time out Comm. (Inv Micom↔Main Micom)
•	0	0	Fan Error(Outdoor)
•	0	•	EEPROM Data Error (Main Micom↔Inv Micom)
•	0	•	Comp Wire Missing Error
	•		Prohibit Operation Condition Error (Heating)
	•		Prohibit Operation Condition Error (Cooling)
	0		DC-Link Voltage Sensor Error
	•	•	AC Input Voltage Sensor Error
•	•	•	AC Input I_Limit Trip Error
			Gas Leak Error
•	•		EEV or Valve Close error-Self diagnosis
0	•	•	Test Operation at Cooling Mode
•	•	•	Test Operation at Heating Mode

● LED ON, ○ LED OFF, • LED BLINKING

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## Outdoor LED Display Error and Check Method (18K/24K/30K)

	LED PATTERN		
YEL	GRN	RED	DESCRIPTION
0	0	0	Power off/VDD NG
0	0	•	IPM OVER CURRENT (O.C)
0	0	•	ABNORMAL SERIAL COMMUNICATION
0	•	•	(DISPLAY BOARD : INDOOR ↔ OUTDOOR)
0	•	•	NORMAL OPERATION
0	•	0	COMP STARTING ERROR
0		•	DC-LINK VOLTAGE UNDER/OVER ERROR
			PFC OVERLOAD/H/W/ DC LINK OVER
•	0	•	OUT-TH(OUTDOOR TEMPERATURE) SENSOR ERROR
•	0	•	DIS-TH(DISCHARGE TEMPERATURE) OVER ERROR
•	•	0	DIS-TH(DISCHARGE TEMPERATURE)SENSOR ERROR
			CURRENT SENSOR ERROR
•	•		HEAT SINK SENSOR/INPUT CURRENT SENSOR ERROR
			COMP V LIMIT ERROR
•		0	HEAT SINK OVER HEAT
•	•	•	COIL TEMP SENSOR SENSOR ERROR (DUAL/SINGLE)
•	•	•	1 MIN TIME OUT COMM (MAIN MICOM INV MICOM)
0	•	0	EEPROM DATA ERROR
•	0	0	FAN ERROR
•	0	•	OTP ERROR
•	0	•	COMP ROTATION ERROR
•	•	0	OPERATION CONDITION SECESSION (DUAL ONLY)
•	•	•	DC-LINK VOLTAGE SENSOR ERROR/ INPUT VOLTAGE SENSOR ERROR
•	•	•	I-TRIP ERROR/PFC OVER CURRENT
•	•	0	GAS LEAK/EEV OR VALVE ERROR-SELF DIAGNOSIS/HIGH PRESSION BLOCK
•	•	•	AC LINE ZERO CROSS SIGNAL OUT
•	•	•	POWER ON RESET (1SEC)
•	0	0	CAPACITY MISS MATCH
0	•	•	TEST OPERATION COOLING MODE
•	•	•	TEST OPERATION HEATIN G MODE

● LED ON, ○ LED OFF, ⊙ LED BLINKING

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### 3-3 Setting Option Setup Method

#### e⊠) 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 02 60 83 10 00 00 00 00 00 00 00 00 00 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	ij	[	5	6	[	5	8	3	1	0	0	3	0	0	0	0	0
SEG25	SEG26	SEG27	SEG28	SEG29	SEG30	SEG31	SEG32	SEG33	SEG34	SEG35	SEG36	SEG37	SEG38	SEG39	SEG40	SEG41	SEG42	SEG43	SEG44	SEG45	SEG46	SEG47	SEG48
0	5	0	0	0	0	- {	0	0	0	0	0	5	0	0	0	0	- 1	3	0	0	0	0	0

#### Step 1

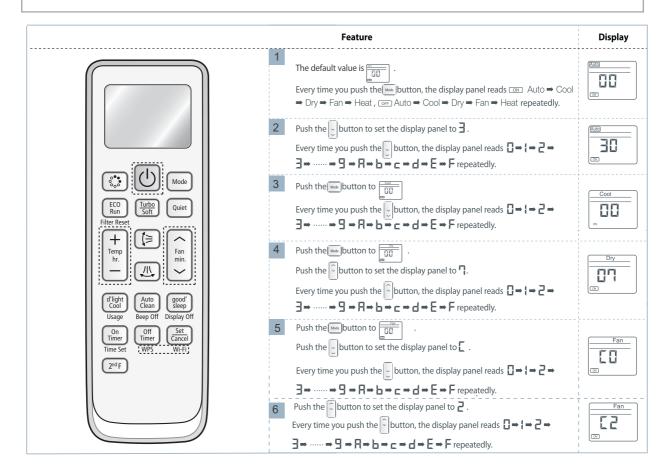
#### Enter the Option Setup mode.

- 1. Tack out the batteries of remote control.
- 2. Press the temperature button simultaneously and insert the battery again.
- 3. Make sure the remote control display shown as

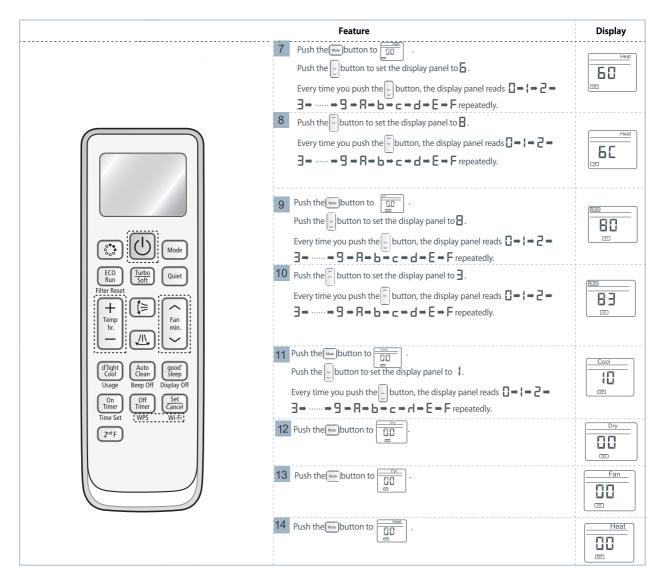


#### Step 2

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



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## 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( $\approx$ ) 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.)

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

	Feature	Display
	Step 1 (Enter the Option Setup mode) is executed.  (Seg25 ~ 48 for setting remote control Setup)	
	Push the Mode button to set the display panel to 2.  Every time you push the button, the display panel reads $\mathcal{D} \rightarrow \mathcal{I} \rightarrow \mathcal{E}$ $\rightarrow \mathcal{B} \rightarrow \mathcal{B} \rightarrow \mathcal{B} \rightarrow \mathcal{C} \rightarrow \mathcal{C} \rightarrow \mathcal{E} \rightarrow \mathcal{F} \text{ repeatedly.}$	
	Push the button to UT	Cool
	4 Push the Mode button to TID	Dry R
ECO Turbo Quiet Filter Reset	Push the button to U	Fan
Temp hr. Fan min. VII. VIII. Good' Clean Sleep	6 Push the button to Till to the button to Till to the button to Till to the button to	Heat
Usage Beep Off Display Off  On Timer Time Set WFS Wi-Fi	Push the button to :	(Auto
2nd F	8 Push the button to .	Cool
	9 Push the button to $\overline{\square}$	Dry Dry See See See See See See See See See Se
	Push the Mode button to set the display paner to 1.  Every time you push the button, the display panel reads $0 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow \cdots \rightarrow 3 \rightarrow 3$	Dry CET
	Push the button to D	Fan
	Push the button to	Heat

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#### Step 6

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

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

→ The display part shows like below when each time you press Mode button.

Auto Control of the C

Cool

Dry

Fan

Heat

(Auto

Cool

Dry Ser

Fan

Heat

#### 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 'ring" and the OPERATION ICON( $\equiv$ ) 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.)

#### Step8

#### 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, the correct option code is set up for its model.

#### □Option Items

Model	SEG 1-6	SEG 7-12	SEG 13-18	SEG 19-24	SEG 25-30	SEG 31-36	SEG 37-42	SEG 43-48	SEG 49-54	SEG 55-60	SEG 61-66	SEG 67-72
AR09KSWSJWK/CV	010025	176A89	271920	370534	020000	100000	200001	300000	033F38	102637	200000	300001
AR12KSWSJWK/CV	010025	166ABA	272328	370634	020000	100000	200001	300000	03463A	10353F	200000	300001
AR18KSWSJWK/CV	010025	176A38	273230	371634	020000	100000	200001	300000	034044	113036	200000	300001
AR24KSWS.JWK/CV	010025	156ABD	273D50	370734	020000	100000	200001	300000	034046	112B3A	200000	300001

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#### Step 6

Uporc ompletion of the selection, checky ou maderight selection s.

Press the Mode  $^{\text{Mode}}$  Selection key to s et the display part and check the display part.  $\rightarrow$  The display partshows like below when each time you press Mode button.

## Step 7 Pressing the ON/OFF butt or (1).

When resising the operation ON/CFF key with the direction of remote control for unit, the sound ' 'Diding' or and the OPERTIONIC ONE) lamp of the displayisf lickering at the same time, then the input of option is completed. (If the deriving sound is n'the adaptive again pressing the ON/OFF button.)

#### Step 8

#### Unit operation t est-run.

Firs t Renove the battery fr om the remote control.

**Second**: Re -inse rt the battery in to the r emote c ontrol.

 $\textbf{Third} : \text{Pr} \quad \text{ess} \quad \text{ON/OFF} \, \text{key} \, \text{ with } \, \text{the } \, \text{direction} \quad \text{of } r \, \text{em} \, \text{dec} \, \text{c} \, \text{ ontrol } f \, \text{ or } \, \text{set} \, .$ 

#### ■ Error mod

- 1. If all la mps of i ndoor u nit are flick ering, Plug out, plug in power plug again and press ON/OFF key to retry.
- 2. If the unit is not work ing properly or all lamps are continuously flickering after setting rethe continuously set up for its model.

#### ☐ Option It ens

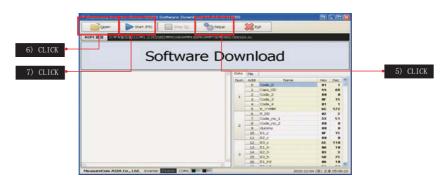
Model	SEG 1-6	SEG 7-12	SEG 13-18	SEG 19-24	SEG 25-30	SEG 31-36	SEG 37-42	SEG 43-48	SEG 49-54	SEG 55-60	SEG 61-66	SEG 67-72
AR09HSFSJWK/CV	010025	176A69	271920	372534	020000	100000	200001	300000	033F38	102637	200000	300000
AR12HSFSJWK/CV	010025	166A7A	272328	374634	020000	100000	200001	300000	03453A	10353F	200000	300000
AR18HSFSJWK/CV	010025	176A38	27323C	371634	020000	100000	200001	300000	033B44	112F36	200000	300001
AR24HSFSJWK/CV	010025	156A7D	274650	372734	020000	100000	200001	300000	033942	11292E	200000	300000

3-8 Samsung Ele ctr onic s

## 3-4 EEPROM Download (485 communication model)

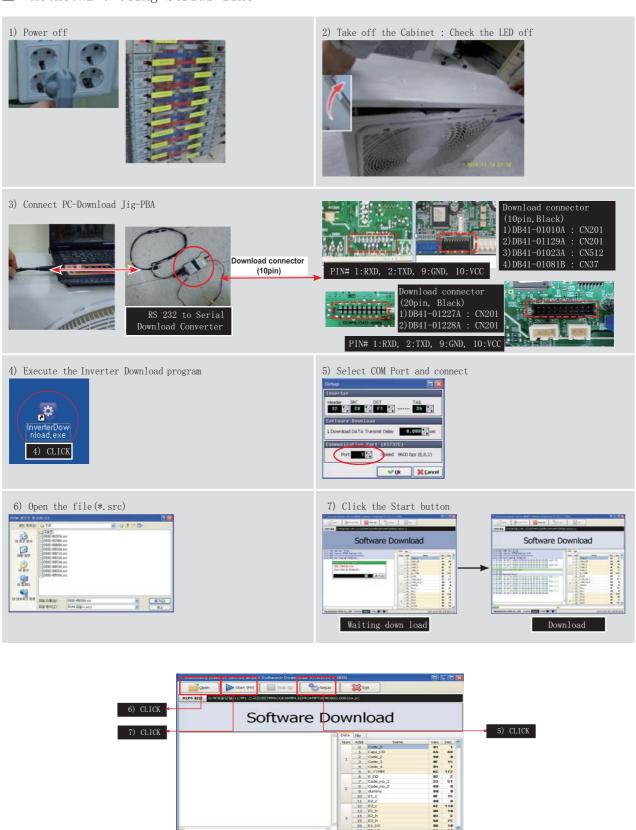
## ■ Method#1 : Using Communication line





Samsung Electronics 3-9

#### ■ Method#2 : Using Serial line



3-10 Samsung Electronics

# 4. Disassembly and Reassembly

## ■ Necessary Tools

Item	Remark
+SCREW DRIVER	
MONKEY SPANNER	
- SCREW DRIVER	SOTHER STATE OF THE STATE OF TH

Samsung Electronics 4-1

## 4-1. Indoor Unit

No	Parts	Procedure	Remark
1	PANEL-FRONT	Stop the driving of air conditioner and shut off main power supply.	EDECOS!
		2) Detach FILTER PRE from the PANEL FRONT.	None of the second seco
		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.	

4-2 Samsung Electronics



Samsung Electronics 4-3



4-4 Samsung Electronics

No	Parts	Procedure	Remark
		7) To detach the PANEL-FRONT from the main frame, unfasten 2 screws at the bottom. (use + Screw Driver)	
			or set of the set of t
		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)	

Samsung Electronics 4-5

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)	

4-6 Samsung Electronics

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.  A 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.	

Samsung Electronics 4-7

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

4-8 Samsung Electronics

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.  4) To detach Evaporator from the main frame, pull the bottom of the Evaporator towards you.	

Samsung Electronics 4-9

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.	

4-10 Samsung Electronics

Assy SPI Lamp  1) Remove the Assy SPI Lamp from the Back Body as shown on the right side.  A 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)

Samsung Electronics 4-11

## 4-2 Outdoor Unit

No	Parts	Procedure	Remark
1	Common Work	Loosen 1 fixing screw(CCW) of the Cover-Side.     (Use +Screw Driver.)	
		2) Loosen each 5 screws(CCW) on both right and left Cabinet Side edges and a fixing screw on the Cabinet Front lower to detach the Cabinet Front. (Use +Screw Driver.)  Output  Description:	
		3) Detach the Cabinet Upper like the picture.	2010:11.16.21t(2)
		4) Loosen 2 screw(CCW) fixed to assemble Plate Control Out with Cabinet-Side RH. (Use +Screw Driver.)	rato na banasa

4–2–1 Samsung Electronics

No	Parts	Procedure	Remark
1	Common Work	5) Loosen 2 screw(CCW) on the right side of Cabinet Front. (Use □Screw Driver)	
		6) Loosen 2 screw(CCW) on the left side of Cabinet Front. (Use Screw Driver)	
		7) Loosen 3 screw(CCW) on the front side of Cabinet Front. (Use □Screw Driver)	

4-2-2 Samsung Electronics

No	Parts	Procedure	Remark
		8) Loosen 3 fixing screws(CCW) on the rear side of Cabinet-Side RH. (Use +Screw Driver.)	
		9) Loosen 3 screws(CCW) fixed to assemble Bracket Valve with Cabinet-Side RH. (Use +Screw Driver.)	

Samsung Electronics 4–2–3

No	Parts	Procedure	Remark
2	Ass'y Control Out	Detach the Motor Wire from the PCB of Ass'y Control Out.	2010-11-15-37-41
		Detach several connectors from the PCB of Ass'y Control Out.	
		3) Detach 2 Connect Wires from Reactor.	
		4) Loosen 1 screw(CCW) fixed to assemble Ass'y Control Out with Partition. (Use +Screw Driver.)	ZU10_11.10_17722

4-2-4 Samsung Electronics

No	Parts	Procedure	Remark
3	Fan & Motor	<ol> <li>Release Nut at Fan Boss</li> <li>Release 3 screws st Motor Brac et.</li> <li>Detach Motor Wire from the Assy Control Out.</li> </ol>	20 A A A A A A A A A A A A A A A A A A A
4	Heat Exchanger	<ol> <li>Loosen 1 fixing screws(CCW) on both sides.         (Use +Screw Driver.)     </li> <li>Disassemble the pipes in both inlet and outlet with welding torch.</li> <li>Detach the Heat Exchanger.</li> </ol> Before you disassemble the pipes and Condenser, be sure that there should be no refrigerant remained in the unit.	
5	Ass'y Valve 4-Way & Ass'y Valve EEV	<ol> <li>Loosen 4 bolts(CCW) fixed to assemble Valve Service with Bracket Valve like the picture on the right side. (Use Monkey Spanner.)</li> <li>Disassemble the pipes assembled the suction and discharge sides of the Compressor with welding torch.</li> </ol>	
6	Compressor	<ol> <li>Loosen the Nut(CCW) of Terminal Cover. (Use Monkey Spanner.)</li> <li>Detach the Terminal Cover and detach the Connect Comp Wire from Compressor.</li> <li>Disassemble the Felt Comp Sound.</li> <li>Loosen the 3 bolts(CCW) at the bottom of Compressor like the picture on the right side. (Use Monkey Spanner.)</li> </ol>	

Samsung Electronics 4-2-5

## Outdoor Unit(18K)

No	Parts	Procedure	Remark
1	Common Work	Loosen each screws and detach the Cabi     Top Cover.	SAMSUNG
		2) Loosen screws of the Cabi Front and detach it.	
			AC BASS

No	Parts	Procedure	Remark
		3) Loosen the 4 screws and detach the condbar.	
		4) Loosen fixing screws from the Cabi Front Lh and detach it.	
		5) Loosen fixing screws from the Cabi Side Rh and detach it.	

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

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

No	Parts	Procedure	Remark
5	Compressor	Loosen the fixing nut and detach the Compressor Lead Wire. (Use Monkey Spanner.)	
		Loosen the bolts at the bottom of Compressor like the picture on the right side.     (Use Monkey Spanner.)	

#### AR24HSFSHWKXCV

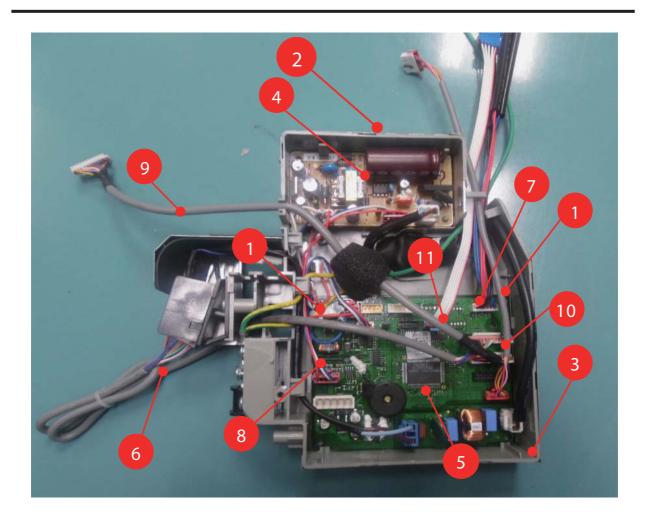
No	Parts	Procedure	Remark
1	Common Work	1) Loosen 2 fixingcrewsofthe Cabi FrontRh and detach the Cabi FrontRh.	
		2) Loosen each 8 fixingcrewsand detachthe CabiTop Cover.	
		3) Loosen 17 fixingcrewsfrom the Cabi FrontRh.	
		4) Loosen 4 fixin <b>g</b> crewsfrom cond-bar.	

No	Parts	Procedure	Remark
		5) Loosen the 4 screws and detach the condbar(Right).	
		6) Loosen the fixing screws and detach the Cabi Back Lf.	
		7) Loosen 13 fixing screws of the Cabi Front Lf and detach it.	

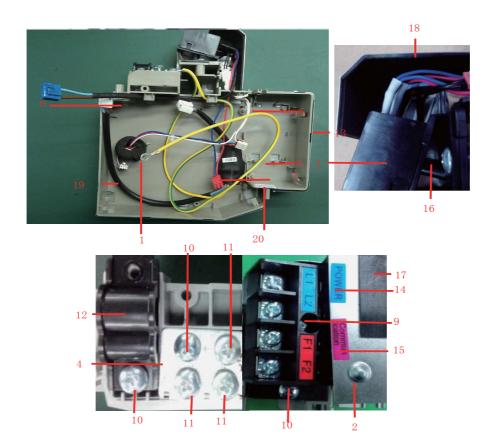
No	Parts	Procedure	Remark
2	Fan & Motor	Detach the Nut Flange like the picture on the right side.(Turn clockwise because the screw is left-handed.) (Use Monkey Spanner.)	
		2) Detach the Fan Propeller. 3) Loosen 4 fixing screws to detach the Motor.(Use Monkey Spanner.)	
		4) Disconnect the wire between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

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

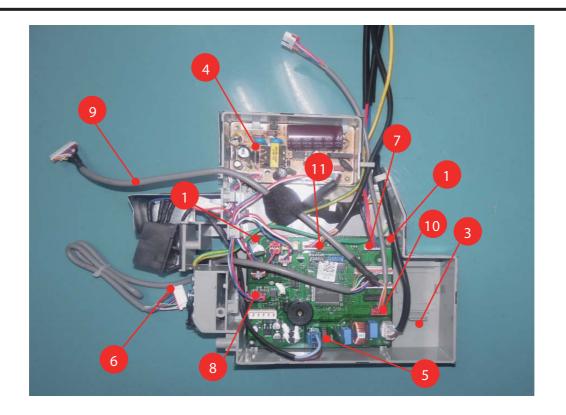
No	Parts	Procedure	Remark
5	Compressor	1)Loosen the fixing nut and detach the Compressor Lead Wire. (Use Monkey Spanner.)	
		3) Loosen the 3 bolts at the bottom of Compressor like the picture on the right side.(Use Monkey Spanner.)	



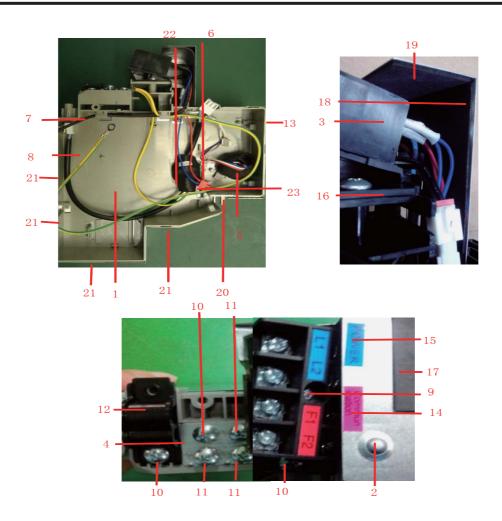
No	CODE	Q'TY	DESCRIPTION
1	6002-000630	2	SCREW
2	DB68-02809A	1	ASSY LABEL
3	DB90-08173K	1	ASSY CASE CONTROL IN
4	DB92-02861A	1	POWER PBA
5	DB92-02873E	1	MAIN PBA
6	DB93-14221A	1	FJM CONNECTOR WIRE
7	DB95-05163A	1	SENSOR
8	DB93-14208A	1	CONNECTOR WIRE
9	DB93-14209B	1	CONNECTOR WIRE-DISPLAY
10	DB93-15445A	1	CONNECTOR WIRE-WIFI
11	DB93-14205A	0	CONNECTOR WIRE-L/R MOTOR



No	DESCRIPTION	CODE	Q'ty	unit
1	CASE CONTROL-IN	DB61-05826B	1	EA
2	PLATE CONTROL-LEFT	DB61-05957A	1	EA
3	TERMINAL BLOCK	DB65-00326D	1	EA
4	PLATE CONTROL-SUB	DB61-05812A	1	EA
5	ASSY CONNECTOR WIRE	DB93-14207A	1	EA
6	ASSY CONNECTOR WIRE	DB93-14203A	1	EA
7	ASSY CONNECTOR WIRE	DB93-14237A	1	EA
8	ASSY CONNECTOR WIRE	DB93-14245A	1	EA
9	ASSY-SCREW TAPPING	DB91-00309A	1	EA
10	ASSY-SCREW TAPPING	6002-000231	3	EA
11	ASSY-SCREW TAPPING	6009-001001	3	EA
12	HOLDER-WIRE	DB61-05871A	1	EA
13	LABEL BAR CODE	DB68-02809A	1	EA
14	ASSY-LABEL CAUTION	DB98-33292A	1	EA
15	ASSY-LABEL CAUTION	DB98-33293A	1	EA
16	SUPPORT-CONTROL	DB61-05963A	1	EA
17	SEAL	DB62-11793A	0	EA
18	SEAL CONTROL	DB62-11655A	1	EA
19	ASSY CONNECTOR WIRE	DB93-06677A	1	EA
20	SHEET CONTROL	DB63-03553D	1	EA

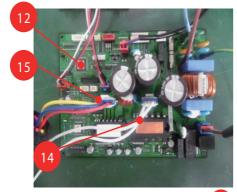


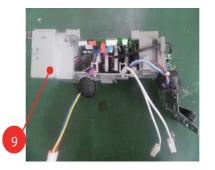
No	CODE	Q'TY	DESCRIPTION
1	6002-000630	2	SCREW
2	DB68-02809A	1	LABEL
3	DB90-08174F	1	ASSY CASE CONTROL IN
4	DB92-02861A	1	POWER PBA
5	DB92-02873E	1	MAIN PBA
6	DB93-14221A	1	CONNECTOR WIRE-FJM
7	DB95-05163A	1	SENSOR
8	DB93-14208A	1	CONNECTOR WIRE
9	DB93-14209B	1	CONNECTOR WIRE-DISPLAY
10	DB93-15445A	1	CONNECTOR WIRE-WIFI
11	DB93-14218A	1	CONNECTOR WIRE-U/D MOTOR

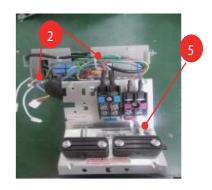


No	NAME	CODE	Q'ty	unit
1	CASE CONTROL-IN	DB61-05891B	1	EA
2	PLATE CONTROL-LEFT	DB61-05961A	1	EA
3	TERMINAL BLOCK	DB65-00326D	1	EA
4	PLATE CONTROL-SUB	DB61-05812A	1	EA
5	ASSY CONNECTOR WIRE	DB93-14207A	1	EA
6	ASSY CONNECTOR WIRE	DB93-14237A	1	EA
7	ASSY CONNECTOR WIRE	DB93-14203A	1	EA
8	ASSY CONNECTOR WIRE	DB93-14245A	1	EA
9	ASSY-SCREW TAPPING	DB91-00309A	1	EA
10	ASSY-SCREW TAPPING	6002-000231	3	EA
11	ASSY-SCREW TAPPING	6009-001001	3	EA
12	HOLDER-WIRE	DB61-05871A	1	EA
13	LABEL BAR CODE	DB68-02809A	1	EA
14	ASSY-LABEL CAUTION	DB98-33292A	1	EA
15	ASSY-LABEL CAUTION	DB98-33293A	1	EA
16	SUPPORT-CONTROL	DB61-05963A	1	EA
17	SEAL	DB62-11795A	0	EA
18	SHEET CONTROL	DB62-11670A	1	EA
19	SHEET CONTROL	DB62-11656C	1	EA
20	SHEET CONTROL	DB63-03553D	1	EA
21	SHEET CONTROL	DB63-03553C	4	EA
22	ASSY CONNECTOR WIRE	DB93-06677A	1	EA

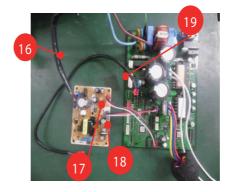
# 5-3 Assy Control Out







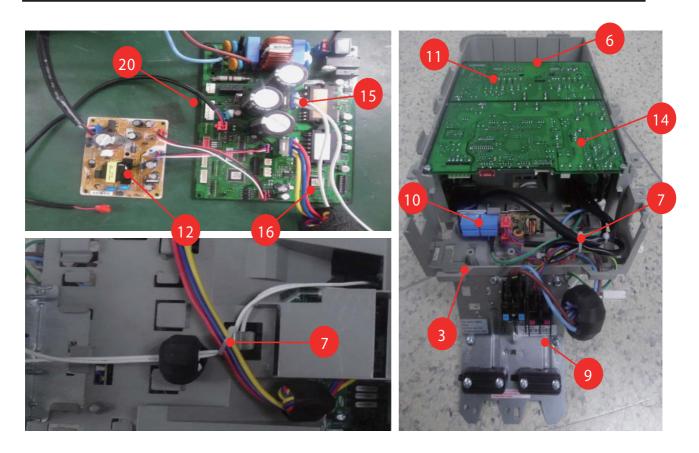






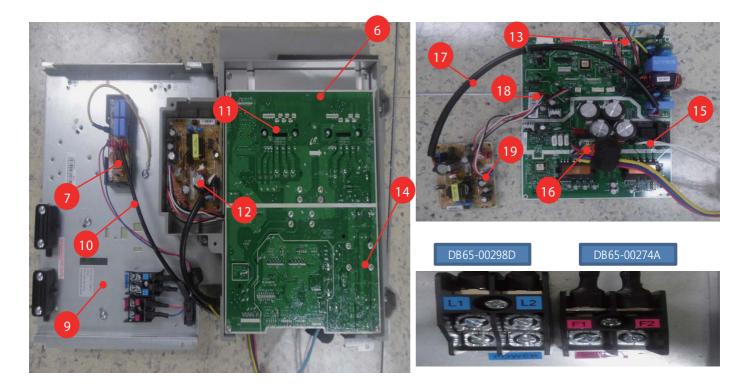
NO	CODE NO	QTY	NAME	NO	CODE NO	QTY	NAME
1	6002-000527	1	SCREW-TAPPING	11	DB92-02862A	1	ASSY MODULE
2	DB65-10088B	2	CABLE TIE	12	DB92-02866J	1	ASSY PCB MAIN
3	DB68-02809A	1	LABEL BAR CODE	13	DB92-03724A	1	ASSY PCB SUB
4	DB90-07729A	1	ASSY COVER CONTROL-UP	14	DB93-09493F	1	ASSY CONNECTOR WIRE
5	DB90-08330C	1	ASSY CASE CONTROL	15	DB93-09497E	1	ASSY CONNECTOR WIRE
6	0205-000178	0.002KG	GREASE-SILICON	16	DB93-14275A	1	ASSY CONNECTOR WIRE-POWER
7	6002-000536	2	SCREW-TAPPING	17	DB93-14276A	1	ASSY CONNECTOR WIRE-DC SIGNAL
8	DB62-11646A	1	HEAT SINK	18	DB93-14277B	1	ASSY CONNECTOR WIRE-DC SIGNAL
9	DB90-07833A	1	ASSY CASE CONTROL	19	DB93-15742A	1	ASSY CONNECTOR WIRE-COMM
10	DB91-00933A	4	ASSY-SCREW MACHINE				

# 5-3 Assy Control Out



NO	CODE NO	QTY	NAME	NO	CODE NO	QTY	NAME
1	0205-000178	0.003KG	GREASE-SILICON	11	DB91-00933A	6	ASSY-SCREW MACHINE
2	6002-000536	4	SCREW-TAPPING	12	DB92-02862A	1	ASSY MODULE
3	DB61-05917A	1	CASE CONTROL	13	DB93-10821C	1	ASSY CONNECTOR WIRE-4WAY CONNECT
4	DB61-04910A	1	CASE CONTROL-UPPER	14	DB92-02867N	1	ASSY PCB MAIN
5	DB61-05790A	1	SUPPORT-HEAT SINK	15	DB93-10987A	1	ASSY CONNECTOR WIRE
6	DB62-10653A	1	HEAT SINK	16	DB93-10988E	1	ASSY CONNECTOR WIRE
7	DB65-10088B	2	CABLE TIE	17	DB93-14275A	1	ASSY CONNECTOR WIRE-POWER
8	DB68-02809A	1	LABEL BAR CODE	18	DB93-14276A	1	ASSY CONNECTOR WIRE-DC SIGNAL
9	DB90-06309U	1	ASSY CASE CONTROL	19	DB93-14277B	1	ASSY CONNECTOR WIRE-DC SIGNAL
10	DB92-03724A	1	ASSY PCB SUB	20	DB93-15742A	1	ASSY CONNECTOR WIRE-COMM

# 5-3 Assy Control Out



NO	CODE NO	QTY	NAME	NO	CODE NO	QTY	NAME
1	0205-000178	0.003KG	GREASE-SILICON	11	DB91-00933A	6	ASSY-SCREW MACHINE
2	6002-000536	8	SCREW-TAPPING	12	DB92-02862A	1	ASSY MODULE
3	6002-000527	3	SCREW-TAPPING	13	DB93-10821C	1	ASSY CONNECTOR WIRE-4WAY CONNECT
4	DB63-03592A	1	COVER CONTROL-OUT	14	DB92-02867N	1	ASSY PCB MAIN
5	DB61-05790A	1	SUPPORT-HEAT SINK	15	DB93-10987A	1	ASSY CONNECTOR WIRE
6	DB62-10653A	1	HEAT SINK	16	DB93-10988E	1	ASSY CONNECTOR WIRE
7	DB92-03724A	1	ASSY PCB SUB	17	DB93-14275A	1	ASSY CONNECTOR WIRE-POWER
8	DB68-02809A	1	LABEL BAR CODE	18	DB93-14276A	1	ASSY CONNECTOR WIRE-DC SIGNAL
9	DB90-09047A	1	ASSY CASE CONTROL	19	DB93-14277B	1	ASSY CONNECTOR WIRE-DC SIGNAL
10	DB93-15742A	1	ASSY CONNECTOR WIRE-COMM	20			

# 6. Electrical Parts List

## 6-1 INDOOR MAIN PCB (DB92-02873E)

0202-001608 5 0204-004665 1 0502-000245 6 1405-001239	Design Loc  SOLDER WIRE SOLDER-WIRE FLUX	Parts Description ADHESIVE-SIL	Quantity
0202-001463 \$ 0202-001608 \$ 0204-004665 1 0502-000245 0 1405-001239			0.0
0202-001463 \$ 0202-001608 \$ 0204-004665 1 0502-000245 0 1405-001239			
0202-001608 5 0204-004665 1 0502-000245 0 1405-001239		SOLDER-WIRE	0.8 1.8
0204-004665   0502-000245   1405-001239	SOLDER-WIKE FLUX	SOLDER-WIRE FLUX	0. 2
0502-000245 1405-001239	ELIIV	FLUX	2
1405-001239	FLUX		
	Q701	TR-POWER	1
L2301-002032 T	VA71	VARISTOR	1
	XC71	C-FILM, LEAD-PPF	1
2301-002032	XC72	C-FILM, LEAD-PPF	1
3002-001139 I	BZ61	BUZZER-PIEZO	1
3711-000024	CN76	HEADER-BOARD TO CABLE	1
3711-000177	CN21	HEADER-BOARD TO CABLE	1
3711-000203	CN75	HEADER-BOARD TO CABLE	1
	CN72	HEADER-BOARD TO CABLE	1
	CN81	HEADER-BOARD TO CABLE	1
	CN77	CONNECTOR-HEADER	1
	CN61	HEADER-BOARD TO CABLE	1
	CN31	HEADER-BOARD TO CABLE	1
	CN71	HEADER-BOARD TO CABLE	1
	CN91	HEADER-BOARD TO CABLE	1
	CN32	HEADER-BOARD TO CABLE	1
	CN43	HEADER-BOARD TO CABLE	1
3711-005096	CN63	HEADER-BOARD TO CABLE	1
3711-005097	CN62	HEADER-BOARD TO CABLE	1
	CN51	HEADER-BOARD TO CABLE	1
	FT71	COIL CHOKE	1
	FT81	COIL CHOKE	1
	LABEL BAR CODE	LABEL BAR CODE	
	LADEL DAK CODE		1
DB94-05569A		ASSY PCB AUTO	1
	Q801	TR-SMALL SIGNAL	1
	PTC2	THERMISTOR-PTC	1
3601-001765	F701	FUSE-RADIAL LEAD	1
DB94-05571A -		ASSY PCB SMD	1
0202-001459	SOLDER CREAM	SOLDER-CREAM	1
	D701	DIODE-RECTIFIER	1
	CD81	DIODE-TVS	1
	CD82	DIODE-TVS	1
	CD83	DIODE-TVS	1
	Q702	TR-SMALL SIGNAL	$\frac{1}{1}$
	Q601	TR-DIGITAL	1
	Q802	TR-DIGITAL	1
	IC05	TR-ARRAY	1
	IC06	TR-ARRAY	1
0604-001002	PC03	PHOTO-COUPLER	1
0604-001002	PC04	PHOTO-COUPLER	1
	PC05	PHOTO-COUPLER	1
	IC08	IC-CMOS LOGIC	1
	1C07	IC-BUS TRANSCEIVER	1
	IC11	IC-VOLTAGE COMP.	$\frac{1}{1}$
	IC03	IC-VOL. DETECTOR	1
	IC02	IC-POSI. FIXED REG.	1
	R717	R-CHIP	1
	R601	R-CHIP	1
2007-000076	R602	R-CHIP	1
2007-000076	R716	R-CHIP	1
	R703	R-CHIP	1
	R706	R-CHIP	1
	R805	R-CHIP	1
2001 000010 I	R815	R-CHIP	$\frac{1}{1}$
2007- 000079			
	R707	R-CHIP	1
2007-000084		R-CHIP	1
2007-000084 J 2007-000087 J	R708	ID CHIED	1
2007-000084 I 2007-000087 I 2007-000090 I	R701	R-CHIP	
2007-000084 I 2007-000087 I 2007-000090 I		R-CHIP R-CHIP	
2007-000084   2007-000087   2007-000090   2007-000090	R701		1
2007-000084   2007-000087   2007-000090   2007-000090   2007-000090	R701 R704 R705	R-CHIP R-CHIP	1 1
2007-000084   2007-000087   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-0000000000000000000000000000000000	R701 R704 R705 R723	R-CHIP R-CHIP R-CHIP	1 1 1
2007-000084   2007-000087   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-0000000000000000000000000000000000	R701 R704 R705 R723 R801	R-CHIP R-CHIP R-CHIP R-CHIP	1 1 1 1
2007-000084   2007-000087   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-000090   2007-0000000000000000000000000000000000	R701 R704 R705 R723	R-CHIP R-CHIP R-CHIP	1 1 1 1 1 1 1

# 6. Electrical Parts List

### 6-1 INDOOR MAIN PCB (DB92-02873E)

2007-000090 2007-000116			
2007-000116	R816	R-CHIP	1
Boo. Goorie	R825	R-CHIP	1
2007-000130	R715	R-CHIP	1
2007-000138	R508	R-CHIP	1
2007-000138	R515	R-CHIP	1
2007-000138	R516	R-CHIP	1
2007-000138	R517	R-CHIP	1
2007-000138	R518	R-CHIP	1
2007-000138	R519	R-CHIP	1
2007-000138	R520	R-CHIP	1
2007-000138	R539	R-CHIP	1
2007-000138	R542	R-CHIP	1
2007-000138	R809	R-CHIP	1
2007-000140	R538	R-CHIP	1
2007-000140	R545	R-CHIP	1
2007-000140	R806	R-CHIP	1
2007-000140	R901	R-CHIP	1
2007-000143	R511	R-CHIP	1
2007-000143	R512	R-CHIP	1
2007-000143	R513	R-CHIP	1
2007-000148	R502	R-CHIP	1
2007-000148	R503	R-CHIP	1
2007-000148	R504	R-CHIP	1
2007-000148	R505	R-CHIP	1
2007-000148	R506	R-CHIP	1
2007-000148	R507	R-CHIP	1
2007-000148	R510		1
		R-CHIP	
2007-000148	R521	R-CHIP	1
2007-000148	R522	R-CHIP	1
2007-000148	R523	R-CHIP	1
2007-000148	R524	R-CHIP	1
2007-000148	R525	R-CHIP	1
2007-000148	R526	R-CHIP	1
2007-000148	R527	R-CHIP	1
2007-000148	R528	R-CHIP	1
2007-000148	R529	R-CHIP	1
2007-000148	R530	R-CHIP	1
2007-000148	R531	R-CHIP	1
	ROOT	K CIIII	
	DESS	D CHID	-
2007-000148	R532	R-CHIP	1
2007-000148 2007-000148	R533	R-CHIP	1
2007-000148			
2007-000148 2007-000148	R533	R-CHIP	1
2007-000148 2007-000148 2007-000148 2007-000148	R533 R534 R543	R-CHIP R-CHIP R-CHIP	1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148	R533 R534 R543 R544	R-CHIP R-CHIP R-CHIP R-CHIP	1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148	R533 R534 R543 R544 R807	R-CHIP R-CHIP R-CHIP R-CHIP R-CHIP	1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148	R533 R534 R543 R544 R807 R808	R-CHIP R-CHIP R-CHIP R-CHIP R-CHIP R-CHIP	1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148	R533 R534 R543 R544 R807 R808 R810	R-CHIP R-CHIP R-CHIP R-CHIP R-CHIP R-CHIP R-CHIP R-CHIP	1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148	R533 R534 R543 R544 R807 R808	R-CHIP R-CHIP R-CHIP R-CHIP R-CHIP R-CHIP	1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148	R533 R534 R543 R544 R807 R808 R810	R-CHIP R-CHIP R-CHIP R-CHIP R-CHIP R-CHIP R-CHIP R-CHIP	1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148	R533 R534 R543 R544 R807 R808 R810 R824	R-CHIP	1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148	R533 R534 R543 R544 R807 R808 R810 R824 R903	R-CHIP	1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148	R533 R534 R543 R544 R807 R808 R810 R824 R903	R-CHIP	1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000162	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000162	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000162 2007-000162 2007-000171 2007-000171	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000171 2007-000171 2007-000171	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R835	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R837 R839	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R835 R837 R839 R843	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R837 R839 R843 R702	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R835 R837 R839 R843	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R837 R839 R843 R702	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R837 R839 R843 R702 R115 R712	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R837 R838 R835 R837 R839 R843 R702 R115 R712 R709	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175 2007-000175	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R837 R838 R837 R839 R843 R702 R115 R712 R709 R714	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171	R533 R534 R544 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R837 R837 R839 R843 R702 R115 R712 R709 R714 R112	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R837 R839 R843 R702 R115 R712 R709 R714 R112 R113	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171	R533 R534 R544 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R837 R837 R839 R843 R702 R115 R712 R709 R714 R112	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171	R533 R534 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R837 R839 R843 R702 R115 R712 R709 R714 R112 R113	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171	R533 R534 R544 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R837 R839 R843 R702 R115 R712 R709 R714 R112 R113 R114 R711	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000162 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171	R533 R534 R544 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R837 R839 R843 R702 R115 R712 R709 R714 R112 R113 R114 R711 R713	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000148 2007-000157 2007-000162 2007-000162 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171 2007-000171	R533 R534 R544 R543 R544 R807 R808 R810 R824 R903 R904 R902 R820 R821 R831 R833 R835 R837 R839 R843 R702 R115 R712 R709 R714 R112 R113 R114 R711	R-CHIP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

# 6. Electrical Parts List

#### 6-1 INDOOR MAIN PCB (DB92-02873E)

	T		1
2007-001313	R406	R-CHIP	1
2007-001313	R410	R-CHIP	1
2007-001313	R811	R-CHIP	1
2007-001433	R618	R-CHIP	1
2007-007313	R401	R-CHIP	1
2007-007313	R402	R-CHIP	1
2007-007313	R403	R-CHIP	1
2007-009922	R301	R-CHIP	1
2007-009922	R302	R-CHIP	1
2007-009922	R303	R-CHIP	1
2203-000257	C705	C-CER, CHIP	1
2203-000257	C801	C-CER, CHIP	1
2203-000438	C508	C-CER, CHIP	1
2203-000438	C516	C-CER, CHIP	1
2203-000438	C520	C-CER, CHIP	1
2203-000438	C901	C-CER, CHIP	1
2203-000440	C715	C-CER, CHIP	1
2203-001071	C519	C-CER, CHIP	1
2203-001083	C711	C-CER, CHIP	1
2203-005249	C401	C-CER, CHIP	1
2203-005249	C402	C-CER, CHIP	1
2203-005249	C403	C-CER, CHIP	1
2203-005249	C511	C-CER, CHIP	1
2203-005249	C513	C-CER, CHIP	1
2203-005249	C514	C-CER, CHIP	1
2203-005249	C517	C-CER, CHIP	1
2203-005249	C522	C-CER, CHIP	1
2203-005249	C529	C-CER, CHIP	1
2203-005249	C530	C-CER, CHIP	1
2203-005249	C531	C-CER, CHIP	1
2203-005249	C533	C-CER, CHIP	1
2203-005249	C702	C-CER, CHIP	1
2203-005249	C704	C-CER, CHIP	1
2203-005249	C710	C-CER, CHIP	1
2203-005249	C712	C-CER, CHIP	1
2203-005249	C713	C-CER, CHIP	1
2203-005249	C802	C-CER, CHIP	1
2203-005249	C803	C-CER, CHIP	1
2203-005249	C805	C-CER, CHIP	1
2203-005249	C806	C-CER, CHIP	1
2203-005249	C807	C-CER, CHIP	1
2203 005249	C809	C-CER, CHIP	1
	C707	C-CER, CHIP	
	C707	C-CER, CHIP	$\frac{1}{1}$
2203-006960	C509	C-CER, CHIP	1
2203-007486	C512	C-CER, CHIP	1
2203-007486	C512 C515	· · · · · · · · · · · · · · · · · · ·	1
2203-007486	C515 C518	C-CER, CHIP C-CER, CHIP	1
	C518 C521		1
2203-007486 2203-007486	C521 C523	C-CER, CHIP C-CER, CHIP	1
		C-CER, CHIP	1
2203-007486	C526		1
2203-007486	C528	C-CER, CHIP	1
2203-007486	C551	C-CER, CHIP	
2203-007486	C552	C-CER, CHIP	1
2203-007486	C804	C-CER, CHIP	1
2203-007486	C808	C-CER, CHIP	1
2402-000120	C706	C-AL, SMD	1
2402-001145	C701	C-AL, SMD	1
	C703	C-AL, SMD	1
2802-001211	X501	RESONATOR-CERAMIC	1
DB41-01221A	PCB MAIN	PCB MAIN	1
DB91-01707A	ICO4	ASSY MICOM	1
0903-001864	_	IC-MICROCONTROLLER	1

### INDOOR DISPLAY PBA(DB92-02877) - 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	ICO2	1	LED DISPLAY	WHITE, TRAY, 390x360, 29. 0x23. 0x13. 5, TRAY, 39 0x360, 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, S024, 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, 10z, 165*192

Parts Code	Dogian Loo	Donta Decemintion	Spec.	Quantity	Uni+
	Design Loc SOLDER-BAR	Parts Description SOLDER-BAR	LeeD-free Solder BAR, W20L350H8, 99.3Sn/0.7Cu/0.01P	0. 47	
0202-001338		SOLDER-WIRE	LFC2-W3. 0, D3, 99. 79Sn/0. 2Cu/0. 01P	4. 27	
0204-004665		FLUX	KSP-70M-S, MIXTURE, NO, FLUX, 13%	0. 43	
0204-005794		SOLVENT	S-1000, (CH3) 2CH0H, 100%, 0. 79	1	G
1404-001498		THERMISTOR-PTC	40ohm, 25%, 290Vac, 7A, TR	1	PC
1405-000154		VARISTOR	560V, 460Vdc, 4500A, 17. 5x7. 5mm, BK, 920V, 600pF	1	PC
1405-000154		VARISTOR	560V, 460Vdc, 4500A, 17. 5x7. 5mm, BK, 920V, 600pF	1	PC
1405-001239		VARISTOR	680V, 560Vdc, 6000A, 17x7. 3mm, BK, 1120V, 350pF	1	PC
	VA401	VARISTOR	680V, 560Vdc, 6000A, 17x7. 3mm, BK, 1120V, 350pF	1	PC
	C425	C-CERAMIC, DISC	4. 7nF, 20%, 2000V, Y5U, 12x5mm, 10mm	1	PC
2201-002002	C004	C-CERAMIC, DISC	4. 7nF, 20%, 400V, Y5U, 16x6mm, 10mm	1	PC
2201-002002	C005	C-CERAMIC, DISC	4. 7nF, 20%, 400V, Y5U, 16x6mm, 10mm	1	PC
2201-002002	C012	C-CERAMIC, DISC	4. 7nF, 20%, 400V, Y5U, 16x6mm, 10mm	1	PC
2201-002002	C013	C-CERAMIC, DISC	4. 7nF, 20%, 400V, Y5U, 16x6mm, 10mm	1	PC
2301-001285	C001	C-FILM, LEAD-PPF	680nF, 10%, 275V, BK, 31x11x21mm	1	PC
2301-001285	C006	C-FILM, LEAD-PPF	680nF, 10%, 275V, BK, 31x11x21mm	1	PC
2306-000123	C412	C-FILM, LEAD-PPF	100nF, 5%, 630V, BK, 18x17x10mm	1	PC
2401-004874	CE101	C-AL	330uF, 20%, 400V, BK, 25. 4*50, 10mm	1	PC
2401-004874	CE102	C-AL	330uF, 20%, 400V, BK, 25. 4*50, 10mm	1	PC
2401-004874	CE103	C-AL	330uF, 20%, 400V, BK, 25. 4*50, 10mm	1	PC
3501-001154	RY022	RELAY-MINIATURE	12V, 200mW, 3000mA, 1FormA, 10ms, 10ms	1	PC
3501-001154	RY030	RELAY-MINIATURE	12V, 200mW, 3000mA, 1FormA, 10ms, 10ms	1	PC
3501-001279	RY021	RELAY-POWER	12V, 400mW, 16000mA, 1FormA, 15ms, 5ms	1	PC
3711-000177	CN301	HEADER-BOARD TO CABLE	1WALL, 2P, 1R, 3.96MM, STRAIGHT, SN, RED	1	PC
3711-000203	CN030	HEADER-BOARD TO CABLE	1WALL, 2P/3P, 1R, 7. 92mm, STRAIGHT, SN, WHT, 11. 82x8. 6x9. 4	1	PC
3711-000296	CN901	HEADER-BOARD TO CABLE	1WALL, 6P, 1R, 3. 96MM, STRAIGHT, SN, WHT	1	PC
3711-000760	CN551	HEADER-BOARD TO CABLE	BOX, 20P, 2R, 2MM, ANGLE, SN, BLK	1	PC
	CN201	HEADER-BOARD TO CABLE	BOX, 20P, 2R, 2. 0mm, STRAIGHT, SN, BLK, 5. 0X22. 0X6. 6mm	1	PC
	CN150	HEADER-BOARD TO CABLE	1WALL, 2P, 1R, 7. 92mm, STRAIGHT, SN, BLU	1	PC
3711-003843			BOX, 8P, 1R, 2mm, STRAIGHT, SN, WHT	1	PC
	CN402	HEADER-BOARD TO CABLE	BOX, 3, 1R, 6mm, STRAIGHT, WHT	1	PC
	CN401		BOX, 2, 1R, 7. 92mm, STRAIGHT, WHT	1	PC
	CN501	HEADER-BOARD TO BOARD	3WALL, 7P, 1R, 2mm, STRAIGHT, SN, WHT	1	PC
3712-001047		CONNECTOR-TERMINAL	TAB, MALE, N, 0. 5/4. 75mm	1	PC
	CN001	CONNECTOR TERMINAL	TAB, MALE, 6. 35x0. 8mm	1	PC
	CN002	CONNECTOR-TERMINAL	TAB, MALE, 6. 35x0. 8mm	1	PC
4719-002483		POWER MODULE	600V, 20A, DIP, FPAB20BH60B, 27, PFCM	1	PC
4719-002484		POWER MODULE	600V, 15A, DIP, FNA41560B2, 26, IPM	1	PC PC
DB27-00097A DB61-05296A	FT001	COIL CHOKE SUPPORT-IC	3. 5mH, 37. 5*40*26		PC PC
DB61-05296A DB61-05916A		SUPPORT-PCB	AFX-HD233A, PA66, FR50, BLACK XS01_V2MD, PA66+GF30%, KN333G30, BLACK		PC PC
DB68-05458A	_	LABEL BAR CODE	AM9000H, ART, W17. 5, L15, PCB PARTS		PC
DB94-05906A	_	ASSY PCB AUTO	OUTDOOR, A3050, 197*142, PF#2, DB92-02866J		PC
0504-001044	0151	TR-DIGITAL	KRA226M, PNP, 400MW, 2. 2K/10K, TO-92M, TP		PC PC
	C901	C-CERAMIC, DISC	2. 2nF, 10%, 2000V, Y5P, TP, 12. 5x5mm, 7. 5mm		PC
	CE162	C-AL	100uF, 20%, 25V, WT, TP, 6. 3x11mm, 5mm		PC
	CE163	C-AL	100uF, 20%, 25V, WT, TP, 6. 3x11mm, 5mm	1	PC
	CE151	C-AL	470uF, 20%, 25V, WT, TP, 10x16, 5mm	1	PC
	CE902	C-AL	47uF, 20%, 50V, WT, TP, 6. 3x11, 5mm	1	PC
2401-003224		C-AL	470uF, 20%, 16V, WT, TP, 8X11. 5, 5mm	1	PC
2401-003585		C-AL	220uF, 20%, 35V, WT, TP, 8x11. 5mm, 5	1	PC
	F001	FUSE-AXIAL LEAD	250V, 15A, TIME-LAG, CERAMIC, 6. 35x31. 8mm	1	PC
3711-000015	CN203	HEADER-BOARD TO CABLE	BOX, 2P, 1R, 2.5mm, STRAIGHT, SN, WHT, 5.8X7.4X7.0mm	1	PC
	CN202	HEADER-BOARD TO CABLE	BOX, 3P, 1R, 2. 5MM, STRAIGHT, SN, WHT	1	PC
3711-000879	CN152	HEADER-BOARD TO CABLE	BOX, 3P, 1R, 2.5mm, STRAIGHT, SN, BLU	1	PC
	CN151	HEADER-BOARD TO CABLE	BOX, 3P, 1R, 2.5MM, STRAIGHT, SN, RED	1	PC
3711-000998	CN701	CONNECTOR-HEADER	BOX, 5P, 1R, 2. 5MM, STRAIGHT, SN, RED	1	PC
3711-000999	CN204	HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2.5mm, STRAIGHT, SN, WHT	1	PC
4715-001093	DSA001	SURGE ABSORBER	3600V, 20%, 2000A, -, AXIAL	1	PC
DB94-05907A		ASSY PCB SMD	OUTDOOR, A3050, 197*142, PF#2, DB92-02866J	1	PC
0202-001933	SOLDER-CREAM	SOLDER-CREAM	LFM-48W TM-HP, D20~38um, 96.5Sn/3Ag/0.5Cu, FLUX 12%	1	G
0401-001099	D020	DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1	PC

1901 001099   1902		1	1		
1940-101099   D152			DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
1910   101999   10153					
1901-010989   1954					
9401-010099   15001   10008-SHITCHING					
9401-01099   D601   D100E-SYLICHING   NA 1489S, 76Y, 150m, S00-233, TP   PC   PO					
0401-01099   0502					
9401-01099   9503					
1901-01099   1904					
9401-001099   0505	0401-001099	D503	DIODE-SWITCHING		
0.001-0.01099   0.003	0401-001099	D504	DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	
0401-001099   03698	0401-001099	D505	DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	
19401-001099   20905   DODE-SWITCHING   IN4148NS, 76Y, 150mA, SOD-223, TP	0401-001099	D507	DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
DOI-10.01999   DOI-10.02   DOI-10.02   RETITION   DOI-10.01765	0401-001099	D508	DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	
DOIST-PRICE	0401-001099	D904		1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
9033-001499   20400   DIOBE_ZENER   MMSZ5225R, 22.875.27, SDOM, SOD-123, TP   1 PC   00404-001020   9491   DIOBE_SCHOTTKY   BAT54C, 30V, 2006h, SOT-23, TP   1 PC   00404-001020   9491   DIOBE_SCHOTTKY   BAT54C, 30V, 2006h, SOT-23, TP   1 PC   04065-001204   DI301   DIOBE_SCHOTTKY   BAT54C, 30V, 2006h, SOT-23, TP   1 PC   04065-001204   DI302   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   04065-001204   DI302   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   04065-001204   DI302   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   04065-001204   DI303   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   04065-001204   DI303   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   04065-001204   DI303   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   04065-001204   DI303   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   04065-001204   DI303   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00108   DIOBE_TYS   SMB_IS_COC, 6.47-77, 25V, 8000, SMB   1 PC   0501-00175   DIOBE_TYS   SMB_IS_COC, 6.47-70, SMB_IS_COC, 6.47-70, SMB_IS_COC, 6.47-70, SMB_IS_COC, 6.4	0401-001099	D905	DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
0.003-0.01499   ZD-120	0402-001795	D903	DIODE-RECTIFIER	US1M, 1000V, 1A, SMA, TP	1 PC
0.045   0.01020   0.0491   0.100E SCRIPTIKY	0403-001499	ZD401	DIODE-ZENER	MMSZ5252B, 22. 8/25. 2V, 500mW, SOD-123, TP	1 PC
0404-010120   0402	0403-001499	ZD420	DIODE-ZENER	MMSZ5252B, 22. 8/25. 2V, 500mW, SOD-123, TP	1 PC
1906-001204   10301	0404-001020	D491	DIODE-SCHOTTKY	BAT54C, 30V, 200mA, SOT-23, TP	1 PC
0406-001204   T0302	0404-001020	D492	DIODE-SCHOTTKY	BAT54C, 30V, 200mA, SOT-23, TP	1 PC
0.005-001204   TD303	0406-001204	TD301	DIODE-TVS	SMBJ5. OCA, 6. 4/-/7. 25V, 600W, SMB	1 PC
0.006-001204   T0303	0406-001204	TD302	DIODE-TVS	SMBJ5. OCA, 6. 4/-/7. 25V, 600W, SMB	1 PC
10001-000465   G551			DIODE-TVS		1 PC
December	0501-000465	Q551			1 PC
10504-001008   Q352	0504-001008	0351			1 PC
December					1 PC
DEGN-101008   G903   TR-DIGITAL   RN2427, PNP. 200mW, 2. 2K/10Kohm, SOT-23, TP   1 PC					
DEGED-001050   G902   TR-DIGITAL   RC246S, NPN, 200mW, 2.2K/10Kchm, 50T-23, TP					
December					
1   C		,			
SOBG-000175   C702		•			
Debt		•			
Modern   March   Mar					
Modern   March   Mar					
Decided					
December					
December 2017   December 201					
December 2007-000074   R213   PHOTO-COUPLER   TR, 150-300, 200mW, SOP, TP   1 PC   R4FC86, OR GATE, SOP, 14P, 150MIL, QUAD, ST, -					
1   1   1   1   1   1   1   1   1   1					
1006-001325   1C301   1C-BUS TRANSCEIVER   2,0/6,0 y, 0,28V,-40to+85C, 180mW, 4,2V, 1uA,   1 PC	0604-001172	PC352	PHOTO-COUPLER		TPC
1006-001325   1C301	0801-000393	IC302	IC-CMOS LOGIC		1 PC
100-001325   1C301					
1201-002946   1C451   1C-0P AMP   1SSOP, TR, 14P, 5x4, 4x1, 2mm, 100, 5, 5v, -	1006-001325	IC301	IC-BUS TRANSCEIVER		1 PC
1203-002835   1C154   1C-POSI. FIXED REG.   7805, D-PAK/T0252, 3P, 6. 6x6, 1mm, PLASTIC, 4, 8V/5, 2V, 1, 3W, -, TP   PC   1203-002986   1C155   1C-POSI. FIXED REG.   7812, 3P, 6. 6x6, 1mm, PLASTIC, 11, 5/12, 5V, 1, 3, 150C, 1A, TP   1 PC   1203-004967   1C502   1C-VOL. DETECTOR   KIA7042AT, TSM, 3P, 2, 9x1, 6mm, PLASTIC, 4, 2V, 350mW, - 3010-75C, 20mA, -   PC   2007-000074   R424   R-CHIP   1Kohm, 1%, 1/10W, TP, 1608   1 PC   2007-000074   R52   R-CHIP   00hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R210   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R213   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R233   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R234   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R401   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R402   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R402   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R404   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R404   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R404   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R407   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R407   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R422   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R420   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R420   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R420   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R420   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R516   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R516   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-0000	1001 000046	TC4E1	IC OD AMB		1 DC
1203-002835   1C154   1C-POS1. FIAED REC.   PAK/T0252, 3P, 6, 6x6. 1mm, PLASTIC, 4, 8V/5, 2V, 1, 3W, -, TP   PC   1203-002986   1C155   IC-POS1. FIXED REG.   7812, 3P, 6, 6x6. 1mm, PLASTIC, 11. 5/12. 5V, 1. 3, 150C, 1A, TP   1 PC   1203-004967   IC502   IC-VOL. DETECTOR   SIA7042AT, TSM, 3P, 2. 9x1. 6mm, PLASTIC, 4. 2V, 350mW, -   305-004967   IC502   IC-VOL. DETECTOR   SIA7042AT, TSM, 3P, 2. 9x1. 6mm, PLASTIC, 4. 2V, 350mW, -   1 PC   2007-0000074   R244   R-CHIP   IKohm, 1%, 1/10W, TP, 1608   1 PC   2007-000074   R309   R-CHIP   Oohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R210   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R213   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R233   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R234   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R401   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R402   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R404   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R404   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R407   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R407   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R407   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R422   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R422   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R519   R-CHIP   1000hm, 5%, 1/10W, TP, 1608   1 PC	1201-002946	10451	IC-OP AMP		1 PC
1203-002986   1C155   1C-POSI, FIXED REG.   7812, 3P, 6. 68.6   1mm, PLASTIC, 11. 5/12.5V, 1. 3, 150C, 1A, TP   1 PC     1203-004967   1C502   1C-VOL. DETECTOR   KIA7042AT, TSM, 3P, 2. 9x1. 6mm, PLASTIC, 4. 2V, 350mW, - 30to+75C, 20mA,   1 PC     2007-000043   R424   R-CHIP   1Kohm, 1%, 1/10W, TP, 1608   1 PC     2007-000070   R309   R-CHIP   0ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R152   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R210   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R213   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R233   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R234   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R401   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R402   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R403   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R403   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R404   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R405   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R406   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R406   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R407   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R406   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R422   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R422   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R422   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R422   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R422   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R422   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R422   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R556   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     2007-000074   R556   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC     20	1203-002835	TC154	IC-POST FIXED REG		1 PC
1203-004967   1C502	1203 002833	10154	TC 1031. PIAED REG.		
1203-004967   1C302   1C-VOL. BELECTOR   30to+75C, 20mA, -, -     1 PC   2007-000074   R424   R-CHIP   1Kohm, 1%, 1/10W, TP, 1608   1 PC   2007-000074   R152   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R210   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R213   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R233   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R234   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R401   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R401   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R402   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R403   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R404   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R404   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R405   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R406   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R420   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R420   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R420   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R420   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R420   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R420   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R516   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R516   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R516   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R516   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R519   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R519   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R519   R-CHIP   100ohm, 5%, 1/10W, TP, 1608   1 PC   2007-000074   R519   R-CHIP	1203-002986	IC155	IC-POSI.FIXED REG.		1 PC
30to+75C, 20mA, -, -     30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+75C, 20mA, -, -   30to+7	1203-004967	IC502	IC-VOL. DETECTOR		1 PC
2007-000070       R309       R-CHIP       0ohm, 5%, 1/10W, TP, 1608       1       PC         2007-000074       R152       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1       PC         2007-000074       R210       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1       PC         2007-000074       R213       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1       PC         2007-000074       R233       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1       PC         2007-000074       R234       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1       PC         2007-000074       R401       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1       PC         2007-000074       R402       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1       PC         2007-000074       R403       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1       PC         2007-000074       R404       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1       PC         2007-000074       R406       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1       PC         2007-000074       R406       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1       PC         2007-000074 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
2007-000074         R152         R-CHIP         100ohm, 5%, 1/10W, TP, 1608         1 PC           2007-000074         R210         R-CHIP         100ohm, 5%, 1/10W, TP, 1608         1 PC           2007-000074         R213         R-CHIP         100ohm, 5%, 1/10W, TP, 1608         1 PC           2007-000074         R233         R-CHIP         100ohm, 5%, 1/10W, TP, 1608         1 PC           2007-000074         R234         R-CHIP         100ohm, 5%, 1/10W, TP, 1608         1 PC           2007-000074         R401         R-CHIP         100ohm, 5%, 1/10W, TP, 1608         1 PC           2007-000074         R402         R-CHIP         100ohm, 5%, 1/10W, TP, 1608         1 PC           2007-000074         R403         R-CHIP         100ohm, 5%, 1/10W, TP, 1608         1 PC           2007-000074         R404         R-CHIP         100ohm, 5%, 1/10W, TP, 1608         1 PC           2007-000074         R405         R-CHIP         100ohm, 5%, 1/10W, TP, 1608         1 PC           2007-000074         R406         R-CHIP         100ohm, 5%, 1/10W, TP, 1608         1 PC           2007-000074         R406         R-CHIP         100ohm, 5%, 1/10W, TP, 1608         1 PC           2007-000074         R420         R-CHIP         100ohm, 5%, 1/10					
2007-000074       R210       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R213       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R233       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R234       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R401       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R402       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R403       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R404       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R405       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R406       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R407       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R420       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R420       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R420       R-CHI					
2007-000074       R213       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R233       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R234       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R401       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R402       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R403       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R404       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R405       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R406       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R407       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R420       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R422       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R516       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHI					
2007-000074       R233       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R234       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R401       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R402       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R403       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R404       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R405       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R406       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R407       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R420       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R422       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R516       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHI					
2007-000074       R234       R-CHIP       1000hm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R401       R-CHIP       1000hm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R402       R-CHIP       1000hm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R403       R-CHIP       1000hm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R404       R-CHIP       1000hm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R405       R-CHIP       1000hm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R406       R-CHIP       1000hm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R407       R-CHIP       1000hm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R420       R-CHIP       1000hm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R422       R-CHIP       1000hm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R516       R-CHIP       1000hm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHIP       1000hm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHIP       1000hm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R562       R-CHI					
2007-000074       R401       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R402       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R403       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R404       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R405       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R406       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R407       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R420       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R422       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R516       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R562       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC					
2007-000074       R402       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R403       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R404       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R405       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R406       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R407       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R420       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R422       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R516       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R562       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC					
2007-000074       R403       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R404       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R405       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R406       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R407       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R420       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R422       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R516       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R562       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC					
2007-000074       R404       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R405       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R406       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R407       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R420       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R422       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R516       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R562       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC					
2007-000074       R405       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R406       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R407       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R420       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R422       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R516       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R562       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC					
2007-000074       R406       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R407       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R420       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R422       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R516       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R562       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC					
2007-000074       R407       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R420       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R422       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R516       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R562       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC					
2007-000074       R420       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R422       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R516       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R562       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC					
2007-000074       R422       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R516       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R562       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC	2007-000074	R407	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	
2007-000074       R516       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R519       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC         2007-000074       R562       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1 PC			R-CHIP		
2007-000074       R519       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1       PC         2007-000074       R562       R-CHIP       100ohm, 5%, 1/10W, TP, 1608       1       PC	2007-000074	R422	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	
2007-000074 R562 R-CHIP 100ohm, 5%, 1/10W, TP, 1608 1 PC	2007-000074	R516	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
		R519	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	
2007-000076 R153 R-CHIP 3300hm, 5%, 1/10W, TP, 1608 1 PC			R-CHIP	100ohm, 5%, 1/10W, TP, 1608	
	2007-000076	R153	R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC

2007-000076	R255	R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000076		R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000076			330ohm, 5%, 1/10W, TP, 1608	1 PC
		R-CHIP		
2007-000076	R258	R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000076	R352	R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000076	R353	R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000076		R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000076	R567	R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000076	R904	R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R303	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R307	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
	R308	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078		R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R354	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R503	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R504	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
	R505	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R508	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R509	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R515	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R529	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078		R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R556	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R557	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R558	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R560	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078		R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
				1 PC
2007-000080		R-CHIP	2Kohm, 5%, 1/10W, TP, 1608	
2007-000082	R421	R-CHIP	3. 3Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R211	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R212	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R214	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R215	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084		R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R217	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R218	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R219	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R220	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R408	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R501	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R506	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R507	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R510	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084		R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084		R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084		R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R520	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R521	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R523	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R524	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R525	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R526	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R527	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R534	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084		R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
			i	
2007-000084		R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R903	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000090	R301	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000090	R302	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
	R304	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
	R305	R-CHIP		1 PC
			10Kohm, 5%, 1/10W, TP, 1608	
	R528	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000090	R532	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000090	R533	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000090	R551	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
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2007 20000	DEEO	D. CHTD.	10V 1 50/ 1/10W FD 1000	1 5	
2007-000090		R-CHIP	10Kohn, 5%, 1/10W, TP, 1608	1 P	
2007-000090		R-CHIP	10Kohn, 5%, 1/10W, TP, 1608	1 P	
2007-000090		R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 P	
2007-000090		R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 P	
2007-000090		R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 P	
2007-000090		R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 P	
2007-000109		R-CHIP	1Mohm, 5%, 1/10W, TP, 1608	1 P	
2007-000116		R-CHIP	120ohm, 5%, 1/10W, TP, 1608	1 P	
2007-000124		R-CHIP	2. 2Kohm, 5%, 1/10W, TP, 1608	1 P	
2007-000140		R-CHIP	1Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000140		R-CHIP	1Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000143		R-CHIP	4.7Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000143	R232	R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000148		R-CHIP	10Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000148		R-CHIP	10Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000148		R-CHIP	10Kohm, 5%, 1/16W, TP, 1005	1 P	
2007-000170	R201	R-CHIP	1Mohm, 5%, 1/16W, TP, 1005	1 P	
2007-000239		R-CHIP	1.5Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000256	R455	R-CHIP	1. 6Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000256	R457	R-CHIP	1. 6Kohm, 1%, 1/10W, TP, 1608	1 P	PC
2007-000256	R468	R-CHIP	1. 6Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000300		R-CHIP	10Kohm, 5%, 1/8W, TP, 2012	1 P	
2007-000385		R-CHIP	14. 3Kohm, 1%, 1/4W, TP, 3216	1 P	
2007-000385		R-CHIP	14. 3Kohm, 1%, 1/4W, TP, 3216	1 P	
2007-000455		R-CHIP	18Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000455	R253	R-CHIP	18Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000491		R-CHIP	2. 2Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000536		R-CHIP	200ohm, 1%, 1/10W, TP, 1608	1 P	
2007-000537		R-CHIP	200ohm, 1%, 1/4W, TP, 3216	1 P	PC
2007-000537		R-CHIP	200ohm, 1%, 1/4W, TP, 3216	1 P	
2007-000537		R-CHIP	200ohm, 1%, 1/4W, TP, 3216	1 P	
2007-000537		R-CHIP	200ohm, 1%, 1/4W, TP, 3216	1 P	
2007-000537		R-CHIP	200ohm, 1%, 1/4W, TP, 3216	1 P	
2007-000614		R-CHIP	24Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000614		R-CHIP	24Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000614		R-CHIP	24Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000614		R-CHIP	24Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000614		R-CHIP	24Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000614		R-CHIP	24Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000614		R-CHIP	24Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000614	R474	R-CHIP	24Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000651		R-CHIP	27Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000683		R-CHIP	3. 3Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000683		R-CHIP	3. 3Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000683		R-CHIP	3. 3Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000763		R-CHIP	330ohm, 1%, 1/10W, TP, 1608	1 P	
2007-000763		R-CHIP	330ohm, 1%, 1/10W, TP, 1608	1 P	
2007-000872		R-CHIP	4. 7Kohm, 5%, 1/8W, TP, 2012	1 P	PC
2007-000872	R802	R-CHIP	4. 7Kohm, 5%, 1/8W, TP, 2012	1 P	PC
2007-000872		R-CHIP	4. 7Kohm, 5%, 1/8W, TP, 2012	1 P	
2007-000924	R102	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1 P	PC
2007-000924	R103	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1 P	PC
2007-000924	R104	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1 P	
2007-000924	R106	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1 P	PC

2007-000924 RIOTS	2007 000024	D107	D CHID	470V.hm 10/ 1/4W TD 2016	1 DC
2007-001979   8478			R-CHIP P-CHIP		
2007-010171   2002   S-CHIP					
2007-001175   2003   SCHIP   S. 2566m, 18, 1/100, TP, 1608   PC					
2007-001175   8227   R-CHIP   S. 2266m, 18, 1710m, 77, 1608   1 PC   2007-010125   8110   R-CHIP   0.016m, 18, 22, 17, 6432   1 PC   2007-101245   8111   R-CHIP   0.016m, 18, 22, 17, 6432   1 PC   2007-101245   8112   R-CHIP   0.016m, 18, 22, 17, 6432   1 PC   2007-101245   8112   R-CHIP   0.016m, 18, 22, 17, 6432   1 PC   2007-101245   8258   R-CHIP   0.016m, 18, 22, 17, 6432   1 PC   2007-101245   8258   R-CHIP   0.016m, 18, 22, 17, 6432   1 PC   2007-101245   8260   R-CHIP   0.016m, 18, 22, 17, 6432   1 PC   2007-101245   8260   R-CHIP   0.016m, 18, 22, 17, 6432   1 PC   2007-101245   8260   R-CHIP   0.016m, 18, 22, 17, 6432   1 PC   2007-101245   8260   R-CHIP   0.016m, 18, 22, 17, 6432   1 PC   2007-101245   8260   R-CHIP   0.016m, 18, 22, 17, 6432   1 PC   2007-101245   8260   R-CHIP   0.016m, 18, 22, 17, 6432   1 PC   2003-000257   7222   C-CHR, CHIP   0.017, 108, 50V, 78T, 17, 1608   1 PC   2003-000257   7223   C-CHR, CHIP   1067, 108, 50V, 78T, 17, 1608   1 PC   2003-000257   7224   C-CHR, CHIP   1067, 108, 50V, 78T, 17, 1608   1 PC   2003-000257   7225   C-CHR, CHIP   1067, 108, 50V, 78T, 17, 1608   1 PC   2003-000257   7252   C-CHR, CHIP   1067, 108, 50V, 78T, 17, 1608   1 PC   2003-000257   7222   C-CHR, CHIP   1067, 108, 50V, 78T, 17, 1608   1 PC   2003-000257   7222   C-CHR, CHIP   1067, 108, 50V, 78T, 17, 1608   1 PC   2003-000410   7252   C-CHR, CHIP   1067, 108, 50V, 78T, 17, 1608   1 PC   2003-000410   7252   C-CHR, CHIP   1067, 108, 50V, 78T, 17, 1608   1 PC   2003-000410   7252   C-CHR, CHIP   1067, 108, 50V, 78T, 17, 1608   1 PC   2003-000410   7252   C-CHR, CHIP   1067, 108, 50V, 78T, 17, 1608   1 PC   2003-000410   7252   C-CHR, CHIP   1067, 108, 50V, 78T, 17, 1608   1 PC   2003-000410   7252   C-CHR, CHIP   107, 108, 50V, 78T, 17, 1608   1 PC   2003-000410   7252   C-CHR, CHIP   107, 108, 50V, 78T, 17, 1608   1 PC   2003-000410   7252   C-CHR, CHIP   107, 108, 50V, 78T, 17, 1608   1 PC   2003-000410   7252   C-CHR, CHIP   107, 108, 50V, 78T, 17, 1608   1 PC   2003-000410   7250   C-CHR				, , , , ,	
2007-010245 R10				, , , , ,	_
2007-010245   M111   S-CHIP   0. 0.10				, , , , ,	_
2007-010245   8411					_
2007-010245 R425   R-CHP				, , , ,	_
2007-010245   4226   R-CILIP   0.   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0					1 PC
PC   PA	2007-010245	R425	R-CHIP	0.01ohm, 1%, 2W, TP, 6432	1 PC
2203-000257 (223	2007-010245	R426	R-CHIP	0.01ohm, 1%, 2W, TP, 6432	1 PC
2203-000957   C223	2203-000236	C421	C-CER, CHIP	0. 1nF, 5%, 50V, C0G, TP, 1608	1 PC
2203-000257 (225	2203-000257	C222	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 PC
2203-000257 (225   C-CER, CHIP   106F, 108, 50V, XTR, TP, 1608   1 PC	2203-000257	C223	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 PC
2203-000257 (23)	2203-000257	C224	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 PC
2203-000257 (2351	2203-000257	C225	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 PC
2203-000257 (352)   C-CER, CHIP   106F, 108, 50V, XTR, TP, 1608   1 PC	2203-000257	C301	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 PC
2203-000257   C122	2203-000257	C351	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 PC
2203-000400   C404   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   2203-000440   C406   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   2203-000440   C406   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   2203-000440   C406   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C406   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C409   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C409   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C410   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C411   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C501   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C501   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C505   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C505   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C505   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C505   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C506   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C506   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C506   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C508   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C508   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C502   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C502   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C502   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C502   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C502   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C502   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C502   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C502   C-CER, CHIP   InF, 108, 50V, X7R, TP, 1608   PC   C403-000440   C502   C-CER, CHIP   InF, 108, 50V, X7R, T		C352			
Dec   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1908   1	2203-000257	C422	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 PC
2023-000440		C423	C-CER, CHIP		_
2203-000440	2203-000440	C404	C-CER, CHIP	, , , , ,	_
2203-000440 C408			C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 PC
2203-000440	2203-000440	C406	C-CER, CHIP	, , , , , ,	1 PC
2203-000440			C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	
2203-000440   C411			· ·		_
2203-000440   C501   C-CER, CHIP   InF, 10%, 50V, XTR, TP, 1608   1 PC			·		
2203-000440   C504   C-CER, CHIP			, and the second		_
2203-000440			·		_
1 PC   2203-000440   C506   C-CER, CHIP   1nF, 10%, 50V, X7R, TP, 1608   1 PC   2203-000440   C507   C-CER, CHIP   1nF, 10%, 50V, X7R, TP, 1608   1 PC   2203-000440   C508   C-CER, CHIP   1nF, 10%, 50V, X7R, TP, 1608   1 PC   2203-000440   C510   C-CER, CHIP   1nF, 10%, 50V, X7R, TP, 1608   1 PC   2203-000440   C512   C-CER, CHIP   1nF, 10%, 50V, X7R, TP, 1608   1 PC   2203-000440   C522   C-CER, CHIP   1nF, 10%, 50V, X7R, TP, 1608   1 PC   2203-000440   C523   C-CER, CHIP   1nF, 10%, 50V, X7R, TP, 1608   1 PC   2203-000440   C523   C-CER, CHIP   1nF, 10%, 50V, X7R, TP, 1608   1 PC   2203-002002   C453   C-CER, CHIP   1nF, 10%, 50V, X7R, TP, 1608   1 PC   2203-002002   C454   C-CER, CHIP   0. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   2203-002002   C459   C-CER, CHIP   0. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   2203-002002   C515   C-CER, CHIP   0. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   2203-002002   C516   C-CER, CHIP   0. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   2203-002002   C516   C-CER, CHIP   0. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   2203-002002   C516   C-CER, CHIP   0. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   2203-002002   C517   C-CER, CHIP   0. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   2203-002002   C519   C-CER, CHIP   0. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   2203-002092   C519   C-CER, CHIP   0. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   2203-002094   C519   C-CER, CHIP   0. 033nF, 5%, 50V, X7R, TP, 1608   1 PC   2203-002094   C519   C-CER, CHIP   0. 033nF, 5%, 50V, X7R, TP, 1608   1 PC   2203-002094   C519   C-CER, CHIP   0. 033nF, 5%, 50V, X7R, TP, 1608   1 PC   2203-002094   C519   C-CER, CHIP   0. 0300F, 5%, 50V, X7R, TP, 1608   1 PC   2203-002094   C519   C-CER, CHIP   0. 0000F, 10%, 50V, X7R, TP, 1608   1 PC   2203-005249   C510   C-CER, CHIP   0. 0000F, 10%, 50V, X7R, TP, 1608   1 PC   2203-005249   C510   C-CER, CHIP   0. 0000F, 10%, 50V, X7R, TP, 1608   1 PC   2203-005249   C520   C-CER, CHIP   0. 0000F, 10%, 50V, X7R, TP, 1608   1 PC   2203-005249   C520   C-CER, CHIP   0. 0000F, 10%, 50V, X7R, TP, 160			, and the second	, , , , , ,	_
2203-000440   C507   C-CER, CHIP   InF, 10%, 50V, X7R, TP, 1608   1 PC   2203-000440   C508   C-CER, CHIP   InF, 10%, 50V, X7R, TP, 1608   1 PC   2203-000440   C512   C-CER, CHIP   InF, 10%, 50V, X7R, TP, 1608   1 PC   2203-000440   C512   C-CER, CHIP   InF, 10%, 50V, X7R, TP, 1608   1 PC   2203-000440   C512   C-CER, CHIP   InF, 10%, 50V, X7R, TP, 1608   1 PC   2203-000440   C523   C-CER, CHIP   InF, 10%, 50V, X7R, TP, 1608   1 PC   C203-000440   C904   C-CER, CHIP   InF, 10%, 50V, X7R, TP, 1608   1 PC   C203-002002   C453   C-CER, CHIP   O. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   C203-002002   C454   C-CER, CHIP   O. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   C203-002002   C455   C-CER, CHIP   O. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   C203-002002   C515   C-CER, CHIP   O. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   C203-002002   C516   C-CER, CHIP   O. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   C203-002002   C516   C-CER, CHIP   O. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   C203-002002   C516   C-CER, CHIP   O. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   C203-002002   C517   C-CER, CHIP   O. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   C203-002002   C518   C-CER, CHIP   O. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   C203-002002   C519   C-CER, CHIP   O. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   C203-002002   C519   C-CER, CHIP   O. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   C203-002049   C519   C-CER, CHIP   O. 033nF, 5%, 50V, NPO, TP, 1608   1 PC   C203-005249   C515   C-CER, CHIP   O. 053nF, 5%, 50V, NPO, TP, 1608   1 PC   C203-005249   C515   C-CER, CHIP   O. 073nF, 5W, 50V, XTR, TP, 1608   1 PC   C203-005249   C515   C-CER, CHIP   O. 073nF, 5W, 50V, XTR, TP, 1608   1 PC   C203-005249   C515   C-CER, CHIP   O. 073nF, 5W, 50V, XTR, TP, 1608   1 PC   C203-005249   C515   C-CER, CHIP   O. 073nF, 5W, 50V, XTR, TP, 1608   1 PC   C203-005249   C515   C-CER, CHIP   O. 073nF, 5W, 50V, XTR, TP, 1608   1 PC   C203-005249   C514   C-CER, CHIP   O. 073nF, 5W, 50V, XTR, TP, 1608   1 PC   C203-005249   C520   C-CER, CHIP   O. 073nF, 5W, 50V, XTR, TP, 1608			·		_
2203-000440         C508         C-CER, CHIP         InF, 10%, 50V, X7R, TP, 1608         1 PC           2203-000440         C510         C-CER, CHIP         InF, 10%, 50V, X7R, TP, 1608         1 PC           2203-000440         C512         C-CER, CHIP         InF, 10%, 50V, X7R, TP, 1608         1 PC           2203-000440         C523         C-CER, CHIP         InF, 10%, 50V, X7R, TP, 1608         1 PC           2203-002002         C453         C-CER, CHIP         InF, 10%, 50V, X7R, TP, 1608         1 PC           2203-002002         C453         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C454         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C459         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C515         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C516         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C517         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C518         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC <t< td=""><td></td><td></td><td></td><td></td><td>_</td></t<>					_
2203-000440         C510         C-CER, CHIP         1nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-000440         C512         C-CER, CHIP         1nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-000440         C523         C-CER, CHIP         1nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-000404         C904         C-CER, CHIP         1nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-002002         C453         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C459         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C515         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C516         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C516         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C516         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C518         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002020         C518         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC					_
2203-000440   C512					
2203-000440   C523					_
2203-000440         C904         C-CER, CHIP         1nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-002002         C453         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C454         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C459         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C515         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C516         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C516         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C518         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-00202         C518         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-00202         C519         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002398         C524         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-00249         C615         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC			·		
2203-002002         C453         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C454         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C459         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C515         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C516         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C517         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C518         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C519         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002398         C524         C-CER, CHIP         22nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C661         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C151         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C152         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC					_
2203-002002         C454         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C459         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C515         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C516         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C517         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C518         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C519         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002398         C524         C-CER, CHIP         22nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C661         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C151         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C152         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C153         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC			·		
2203-002002         C459         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C515         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C516         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C517         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C518         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C519         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002398         C524         C-CER, CHIP         22nF, 10%, 50V, XTR, TP, 1608         1 PC           2203-005249         C061         C-CER, CHIP         100nF, 10%, 50V, XTR, TP, 1608         1 PC           2203-005249         C151         C-CER, CHIP         100nF, 10%, 50V, XTR, TP, 1608         1 PC           2203-005249         C152         C-CER, CHIP         100nF, 10%, 50V, XTR, TP, 1608         1 PC           2203-005249         C153         C-CER, CHIP         100nF, 10%, 50V, XTR, TP, 1608         1 PC           2203-005249         C163         C-CER, CHIP         100nF, 10%, 50V, XTR, TP, 1608         1 PC			,	, , , , , ,	_
2203-002002         C515         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C516         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C517         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C518         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002002         C519         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-002398         C524         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1 PC           2203-005249         C661         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C151         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C152         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C152         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C153         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C162         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC			,	, , , , ,	
2203-00202         C516         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C517         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C518         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002002         C519         C-CER, CHIP         0.033nF, 5%, 50V, NPO, TP, 1608         1 PC           2203-002398         C524         C-CER, CHIP         22nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C661         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C151         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C152         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C152         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C153         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C162         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C163         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC				, , , , , ,	_
2203-00202         C517         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1         PC           2203-00202         C518         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1         PC           2203-00202         C519         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1         PC           2203-00238         C524         C-CER, CHIP         22nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C061         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C151         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C152         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C153         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C154         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C162         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C163         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC			o ozni, omi		
2203-002002         C518         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1         PC           2203-00202         C519         C-CER, CHIP         0.033nF, 5%, 50V, NP0, TP, 1608         1         PC           2203-002398         C524         C-CER, CHIP         22nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C061         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C151         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C152         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C153         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C154         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C162         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C163         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C220         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC <td></td> <td></td> <td></td> <td></td> <td></td>					
2203-00202         C519         C-CER, CHIP         0.033nr, 5%, 50V, NP0, TP, 1608         1         PC           2203-002398         C524         C-CER, CHIP         22nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C061         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C151         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C152         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C153         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C154         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C162         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C163         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C220         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC           2203-005249         C221         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1         PC			, ,	, , , , , ,	_
2203-002398       C524       C-CER, CHIP       22nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C061       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C151       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C152       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C153       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C154       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C162       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C163       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C163       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C220       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C221       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C251       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C252       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608 <td></td> <td></td> <td>,</td> <td></td> <td>_</td>			,		_
2203-005249       C061       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C151       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C152       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C153       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C154       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C162       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C163       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C220       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C220       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C251       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C252       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C252       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C253       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608 <td></td> <td></td> <td></td> <td></td> <td>_</td>					_
2203-005249       C151       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C152       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C153       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C154       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C162       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C163       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C220       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C221       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C251       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C252       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C252       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C253       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C254       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608 <td></td> <td></td> <td></td> <td></td> <td>_</td>					_
2203-005249       C152       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C153       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C154       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C162       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C163       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C220       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C221       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C251       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C251       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C252       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C253       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C254       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C302       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608 <td></td> <td></td> <td></td> <td>, , , , ,</td> <td>_</td>				, , , , ,	_
2203-005249         C153         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C154         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C162         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C163         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C220         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C221         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C251         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C252         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C253         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C254         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C302         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C303         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC			,		_
2203-005249       C154       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C162       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C163       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C220       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C221       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C251       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C252       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C253       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C254       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C302       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C303       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C304       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC			· ·	, , , , , ,	_
2203-005249       C162       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C163       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C220       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C221       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C251       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C252       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C253       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C254       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C302       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C303       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C303       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C304       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC			· ·	, , , , ,	_
2203-005249       C163       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C220       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C221       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C251       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C252       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C253       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C254       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C302       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C303       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C303       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C304       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC					_
2203-005249       C220       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C221       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C251       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C252       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C253       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C254       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C302       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C303       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C303       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C304       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC			, and the second	, , , , , ,	
2203-005249       C221       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C251       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C252       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C253       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C254       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C302       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C303       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C304       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC			·		_
2203-005249       C251       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C252       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C253       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C254       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C302       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C303       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C304       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC					1 PC
2203-005249         C253         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C254         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C302         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C303         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C303         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC           2203-005249         C304         C-CER, CHIP         100nF, 10%, 50V, X7R, TP, 1608         1 PC		C251	C-CER, CHIP		1 PC
2203-005249       C253       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C254       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C302       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C303       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C304       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC					1 PC
2203-005249       C302       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C303       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C304       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC	2203-005249	C253	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 PC
2203-005249       C303       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC         2203-005249       C304       C-CER, CHIP       100nF, 10%, 50V, X7R, TP, 1608       1 PC	2203-005249	C254	C-CER, CHIP		1 PC
2203-005249 C304 C-CER, CHIP 100nF, 10%, 50V, X7R, TP, 1608 1 PC	2203-005249	C302	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 PC
	2203-005249	C303	C-CER, CHIP	, , , , , ,	
2203-005249 C305 C-CER, CHIP 100nF, 10%, 50V, X7R, TP, 1608 1 PC		C304	C-CER, CHIP		_
	2203-005249	C305	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 PC

2203-005249	C306	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C307	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C401	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C402	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C403	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C407	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C420	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C424	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C460	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C503	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C509	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C511	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C514	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C520	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249	C525	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608		PC
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608		PC
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608		PC
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608		PC
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608		PC
2203-006158		C-CER, CHIP	100nF, 10%, 56V, X7R, TP, 1005, 0. 5T		PC
2203-006158		C-CER, CHIP	100nF, 10%, 16V, X7R, TP, 1005, 0. 5T		PC
2203-006158		C-CER, CHIP	100nF, 10%, 16V, X7R, TP, 1005, 0. 5T		PC
2203-006158		C-CER, CHIP	100nF, 10%, 16V, X7R, TP, 1005, 0. 5T		PC
2203-006158		C-CER, CHIP	100nF, 10%, 16V, X7R, TP, 1005, 0. 5T		PC
2203-006158		C-CER, CHIP	100nF, 10%, 16V, X7R, TP, 1005, 0. 5T		PC
2203-006158		C-CER, CHIP	100nF, 10%, 16V, X7R, TP, 1005, 0. 5T		PC
2203-006158		C-CER, CHIP	100nF, 10%, 16V, X7R, TP, 1005, 0. 5T		PC
2203-006158		C-CER, CHIP	100nF, 10%, 16V, X7R, TP, 1005, 0. 5T		PC
2203-006160		C-CER, CHIP	2200nF, 10%, 16V, X5R, TP, 1608, -		PC
2203-006960		C-CER, CHIP	1000nF, 10%, 50V, X7R, TP, 2012		PC
2203-000360		C-CER, CHIP	1000nF, 10%, 50V, X7R, TP, 1005 (1106), 0. 5T		PC
2203-007456		C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T		PC
2203-007456		C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T		PC
2203-007456		C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T		PC
2203-007456		C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T		PC
2203-007456		C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T		PC
2203-007456		C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T		PC
2203-007456		C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T		PC
2203-007456		C-CER, CHIP	1000nF, 10%, 25V, X5R, 11, 1005 (1100), 0. 5T		PC
2402-001183		·			PC
		C-AL, SMD C-AL, SMD	22UF, 20%, 16V, WT, TP, 5. 3X5. 3X6MM		PC PC
2402-001268		C-AL, SMD	100uF, 20%, 25V, WT, TP, 8x6. 3mm		PC PC
2402-001268			100uF, 20%, 25V, WT, TP, 8x6. 3mm		PC PC
2402-001268		C-AL, SMD	100uF, 20%, 25V, WT, TP, 8x6. 3mm		
2402-001368		C-AL, SMD	47uF, 20%, 25V, TP, 6. 3x4. 9mm		PC DC
2402-001368		C-AL, SMD	47uF, 20%, 25V, TP, 6. 3x4. 9mm		PC
2402-001368		C-AL, SMD	47uF, 20%, 25V, TP, 6. 3x4. 9mm		PC
2802-001165		RESONATOR-CERAMIC	4MHz, 0. 5%, TP, 4. 5x2. 0x1. 15mm		PC
	X501	RESONATOR-CERAMIC	8MHz, 0. 5%, TP, 3. 2x1. 3x0. 9 mm		PC
	PCB MAIN	PCB INVERTER	FR-4, 2Layer, T1. 6, 197*142, 1, PF#2, OUTDOOR, 20z, 197*142		PC
DB91-01726A	IC501	ASSY MICOM	16S_PF2_PF3, STM-1514-0A, HART-i910, 64LQFP, ROM 64KB	1	PC
0903-001843	_	IC-MICROCONTROLLER	HART-1910, LQFP, 64P, 12x12mm, 8MHz, 5V, 600mW, -	1	PC
DB98-31449A	_	ASSY-LABEL MICOM	40to+85C, 12KB, 64KB, Inverter SOC QFP, 64P, WHT, 9*9	1	PC
			15_RAC_A3050_HP_OUT, STM-1525-OA, S3FM02G, 128TQFP, ROM		
DB91-01736A	IC201	ASSY MICOM	384KB	1	PC
DB09-00596A	_	IC MICOM	S3FM02G, 128P, DC3V, TQFP, -40~+85, 384K	1	PC
DB98-31449A	001	ASSY-LABEL MICOM	QFP, 64P, WHT, 9*9		PC
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Parts Code	Design Loc	Parts Description	Spec.	Quantity	Unit
	ADHESIVE-SIL	ADHESIVE-SIL	LDC2577D, Y/GRN, 175CPS, -	1. 612	
0202-001338		SOLDER-BAR	LeeD-free Solder BAR, W20L350H8, 99. 3Sn/0.7Cu/0.01P	0.879	
0202-001463		SOLDER-WIRE	LFC2-W3. 0, D3, 99. 79Sn/0. 2Cu/0. 01P	7. 98	
0204-004665		FLUX	KSP-70M-S, MIXTURE, NO, FLUX, 13%	0. 738	
0204-005794		SOLVENT	S-1000, (CH3) 2CH0H, 100%, 0. 79		G
1404-001498		THERMISTOR-PTC	40ohm, 25%, 290Vac, 7A, TR		PC
1405-000154		VARISTOR	560V, 460Vdc, 4500A, 17. 5x7. 5mm, BK, 920V, 600pF		PC
1405-000154		VARISTOR	560V, 460Vdc, 4500A, 17. 5x7. 5mm, BK, 920V, 600pF		PC
1405-001239		VARISTOR	680V, 560Vdc, 6000A, 17x7. 3mm, BK, 1120V, 350pF		PC
1405-001239		VARISTOR	680V, 560Vdc, 6000A, 17x7. 3mm, BK, 1120V, 350pF		PC
2009-001145		R-METAL PLATE	0. 005ohm, 5%, 5W, AA, BK, 14. 5x5. 0x18. 0mm		PC
2009-001145		R-METAL PLATE	0. 005ohm, 5%, 5W, AA, BK, 14. 5x5. 0x18. 0mm		PC
2009-001145		R-METAL PLATE	0. 005ohm, 5%, 5W, AA, BK, 14. 5x5. 0x18. 0mm	1	PC
2201-000446	C001	C-CERAMIC, DISC	3. 3nF, 20%, 400V, Y5U, TP, 15x6mm, 10mm	1	PC
2201-000446	C002	C-CERAMIC, DISC	3. 3nF, 20%, 400V, Y5U, TP, 15x6mm, 10mm	1	PC
2201-000446	C005	C-CERAMIC, DISC	3. 3nF, 20%, 400V, Y5U, TP, 15x6mm, 10mm	1	PC
2201-000446	C006	C-CERAMIC, DISC	3. 3nF, 20%, 400V, Y5U, TP, 15x6mm, 10mm	1	PC
2201-000540	C056	C-CERAMIC, DISC	4.7nF, 20%, 2000V, Y5U, 12x5mm, 10mm	1	PC
2301-001285	C004	C-FILM, LEAD-PPF	680nF, 10%, 275V, BK, 31x11x21mm	1	PC
2301-001949	C003	C-FILM, LEAD	3300nF, 10%, 275V, BK, 31x21x31mm	1	PC
2306-000123	C055	C-FILM, LEAD-PPF	100nF, 5%, 630V, BK, 18x17x10mm	1	PC
2306-000123	C413	C-FILM, LEAD-PPF	100nF, 5%, 630V, BK, 18x17x10mm	1	PC
2401-004929	CE053	C-AL	390uF, 20%, 400V, BK, 10mm	1	PC
2401-004929	CE054	C-AL	390uF, 20%, 400V, BK, 10mm	1	PC
2401-004929	CE055	C-AL	390uF, 20%, 400V, BK, 10mm	1	PC
2401-004929	CE056	C-AL	390uF, 20%, 400V, BK, 10mm	1	PC
3501-001154	RY001	RELAY-MINIATURE	12V, 200mW, 3000mA, 1FormA, 10ms, 10ms	1	PC
3501-001154	RY030	RELAY-MINIATURE	12V, 200mW, 3000mA, 1FormA, 10ms, 10ms	1	PC
3501-001268	RY002	RELAY-POWER	12V, 0. 9W, 25000mA, 1FormA, 20ms, 10ms	1	PC
3601-001652	F001	FUSE-AXIAL LEAD	250V, 30A, TIME-LAG, CERAMIC, 6. 35x31.8mm	1	PC
3711-000177	CN301	HEADER-BOARD TO CABLE	1WALL, 2P, 1R, 3. 96MM, STRAIGHT, SN, RED	1	PC
3711-000203	CN030	HEADER-BOARD TO CABLE	1WALL, 2P/3P, 1R, 7. 92mm, STRAIGHT, SN, WHT, 11. 82x8. 6x9. 4	1	PC
3711-000760	CN551	HEADER-BOARD TO CABLE	BOX, 20P, 2R, 2MM, ANGLE, SN, BLK	1	PC
3711-002001	CN201	HEADER-BOARD TO CABLE	BOX, 20P, 2R, 2. 0mm, STRAIGHT, SN, BLK, 5. 0X22. 0X6. 6mm		PC
3711-003404		HEADER-BOARD TO CABLE	1WALL, 2P, 1R, 7. 92mm, STRAIGHT, SN, BLU		PC
3711-003846	CN251	HEADER-BOARD TO CABLE	BOX, 8P, 1R, 2mm, ANGLE, SN, WHT		PC
3711-004019		CONNECTOR-HEADER	1WALL, 6P, 1R, 3. 96mm, ANGLE, SN, WHT	•	PC
3711-006337		CONNECTOR-HEADER	BOX, 5P, 1R, 2. 5mm, ANGLE, SN, RED		PC
3711-007817		HEADER-BOARD TO BOARD	3WALL, 7P, 1R, 2mm, STRAIGHT, SN, WHT		PC
3712-001047		CONNECTOR-TERMINAL	TAB, MALE, N, 0. 5/4. 75mm		PC
3712-001139		CONNECTOR-TERMINAL	TAB, MALE, 6. 35x0. 8mm		PC
	CN002	CONNECTOR-TERMINAL	TAB, MALE, 6. 35x0. 8mm		PC
3712-001139		CONNECTOR-TERMINAL	TAB, MALE, 6. 35x0. 8mm		PC
3712-001139		CONNECTOR—TERMINAL	TAB, MALE, 6. 35x0. 8mm		PC
3712-001139		CONNECTOR-TERMINAL	TAB, MALE, 6. 35x0. 8mm	1	PC
3712-001139		CONNECTOR-TERMINAL	TAB, MALE, 6. 35x0. 8mm		PC
3712-001139		CONNECTOR-TERMINAL	TAB, MALE, 6. 35x0. 8mm		PC
4719-002485		POWER MODULE	600V, 30A, DIP, FSBB30CH60C, 27, IPM	•	PC
4719-002486		POWER MODULE	600V, 30A, DIP, FPAB30BH60B, 27, PFCM		PC
DB27-00078A		COIL CHOKE	12mH, 20A		PC
DB27-00090A		COIL CHOKE	31uH, 13*15		PC
DB61-05296A		SUPPORT IC	AFX-HD233A, PA66, FR50, BLACK		PC
		SUPPORT-IC	AFX-HD233A, PA66, FR50, BLACK		PC PC
DB67-00942A DB67-00942A		CAP CAP	VIVALDI-P/J, SHP2, 1, 5. 2, 11. 5, 18. 5, GREEN, SSEC VIVALDI-P/J, SHP2, 1, 5. 2, 11. 5, 18. 5, GREEN, SSEC		PC PC
		CAP			PC PC
DB67-00942A		CAP	VIVALDI-P/J, SHP2, 1, 5, 2, 11, 5, 18, 5, GREEN, SSEC		PC PC
DB67-00942A DB68-05458A		LABEL BAR CODE	VIVALDI-P/J, SHP2, 1, 5, 2, 11, 5, 18, 5, GREEN, SSEC		PC PC
			AM9000H, ART, W17. 5, L15, PCB PARTS		PC PC
DB94-04315A 1203-002560		ASSY HEAT SINK 1	A3050, 7805, DB92-02867A NTM7805 T0-220F 3P PLASTIC 5V 16W -30+o+150 14 - ST		PC PC
	SCREW_TADDING	IC-POSI. FIXED REG. SCREW-TAPPING	NJM7805, TO-220F, 3P, PLASTIC, 5V, 16W, -30to+150, 1A, -, ST		PC PC
			PH, +, NO, 2S, M3, L8, ZPC (WHT), SWRCH18A		PC PC
DB62-04148B		HEAT SINK	A6063, 11mm, 15mm, 20mm A3050, 7812, DB92-02867A		PC PC
DB94-04316A 1203-000242	- 10199	ASSY HEAT SINK 2 IC-POSI.FIXED REG.	7812, T0-220, 3P, -, PLASTIC, 11. 5/	•	PC PC
	SCREW_TADDING	SCREW-TAPPING	PH, +, NO, 2S, M3, L8, ZPC (WHT), SWRCH18A		PC
DB62-04148B		HEAT SINK	A6063, 11mm, 15mm, 20mm		PC
DB02-04148B DB94-05908A	TITUI SIM	ASSY PCB AUTO	OUTDOOR, A3050, 197*242, PF#3, DB92-02867N		PC
אַסטפּפט– <i>ד</i> פּמע		UOSI IOD MUIU	001D00K, A0000, 1317442, FF#3, DD34=04001N	1	110

0504-001044	0151	TR-DIGITAL	KRA226M, PNP, 400MW, 2. 2K/10K, TO-92M, TP	1 PC
2201-002427	-	C-CERAMIC, DISC	2. 2nF, 10%, 2000V, Y5P, TP, 12. 5x5mm, 7. 5mm	1 PC
2401-000303		C-AL	100uF, 20%, 25V, WT, TP, 6. 3x11mm, 5mm	1 PC
2401-000303	CE163	C-AL	100uF, 20%, 25V, WT, TP, 6. 3x11mm, 5mm	1 PC
2401-000481	CE431	C-AL	10uF, 20%, 50V, WT, TP, 5x11, 5	1 PC
2401-001838	CE151	C-AL	470uF, 20%, 25V, WT, TP, 10x16, 5mm	1 PC
2401-001838		C-AL	470uF, 20%, 25V, WT, TP, 10x16, 5mm	1 PC
2401-002438		C-AL	47uF, 20%, 50V, WT, TP, 6. 3x11, 5mm	1 PC
2401-003224		C-AL	470uF, 20%, 16V, WT, TP, 8X11.5, 5mm	1 PC
2401-003585		C-AL	220uF, 20%, 35V, WT, TP, 8x11. 5mm, 5	1 PC
3711-000015			BOX, 2P, 1R, 2. 5mm, STRAIGHT, SN, WHT, 5. 8X7. 4X7. 0mm	1 PC 1 PC
3711-000024 3711-000879			BOX, 3P, 1R, 2, 5MM, STRAIGHT, SN, WHT	1 PC
3711-000879		HEADER-BOARD TO CABLE	BOX, 3P, 1R, 2. 5mm, STRAIGHT, SN, BLU BOX, 3P, 1R, 2. 5MM, STRAIGHT, SN, RED	1 PC
3711-000880		HEADER-BOARD TO CABLE	BOX, 5P, 1R, 2. 5mm, STRAIGHT, SN, WHT	1 PC
4715-001093		SURGE ABSORBER	3600V, 20%, 2000A, -, AXIAL	1 PC
DB94-05909A	-	ASSY PCB SMD	OUTDOOR, A3050, 197*242, PF#3, DB92-02867N	1 PC
	SOLDER-CREAM	SOLDER-CREAM	LFM-48W TM-HP, D20~38um, 96. 5Sn/3Ag/0. 5Cu, FLUX 12%	1 G
0401-001099		DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
0401-001099	D002	DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
0401-001099	D030	DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
	D152	DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
0401-001099		DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
0401-001099		DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
0401-001099		DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
	D501	DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
0401-001099		DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
0401-001099 0401-001099		DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP 1N4148WS, 75V, 150mA, SOD-323, TP	1 PC 1 PC
	D504 D505	DIODE-SWITCHING DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, 1P 1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
	D505 D506	DIODE-SWITCHING DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP 1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
0401-001099		DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD-323, TP	1 PC
0401-001099		DIODE-SWITCHING	1N4148WS, 75V, 150mA, SOD 323, TP	1 PC
0402-001795		DIODE-RECTIFIER	US1M, 1000V, 1A, SMA, TP	1 PC
0403-001499		DIODE-ZENER	MMSZ5252B, 22. 8/25. 2V, 500mW, SOD-123, TP	1 PC
0403-001499		DIODE-ZENER	MMSZ5252B, 22. 8/25. 2V, 500mW, SOD-123, TP	1 PC
0404-001020		DIODE-SCHOTTKY	BAT54C, 30V, 200mA, SOT-23, TP	1 PC
0404-001020	D435	DIODE-SCHOTTKY	BAT54C, 30V, 200mA, SOT-23, TP	1 PC
0404-001020	D436	DIODE-SCHOTTKY	BAT54C, 30V, 200mA, SOT-23, TP	1 PC
0406-001204		DIODE-TVS	SMBJ5. 0CA, 6. 4/-/7. 25V, 600W, SMB	1 PC
0406-001204		DIODE-TVS	SMBJ5. OCA, 6. 4/-/7. 25V, 600W, SMB	1 PC
0406-001204		DIODE-TVS	SMBJ5. OCA, 6. 4/-/7. 25V, 600W, SMB	1 PC
0501-000465	_	TR-SMALL SIGNAL	MMBT3904, NPN, 350mW, SOT-23, TP, 30-300	1 PC
0504-001008		TR-DIGITAL	RN2427, PNP, 200mW, 2. 2K/10Kohm, SOT-23, TP	1 PC
0504-001008		TR-DIGITAL	RN2427, PNP, 200mW, 2. 2K/10Kohm, SOT-23, TP	1 PC
0504-001008 0504-001008	Q901	TR-DIGITAL TR-DIGITAL	RN2427, PNP, 200mW, 2. 2K/10Kohm, S0T-23, TP	1 PC 1 PC
0504-001008		TR-DIGITAL TR-DIGITAL	RN2427, PNP, 200mW, 2. 2K/10Kohm, SOT-23, TP KRC246S, NPN, 200mW, 2. 2K/10Kohm, SOT-23, TP	1 PC
0504-001080		TR-ARRAY	2003, NPN, 7, 1000mW, S0P-16, ST, 1000	1 PC
0506-000175		TR-ARRAY	2003, NPN, 7, 1000mW, S0P-16, ST, 1000	1 PC
0506-000175		TR-ARRAY	2003, NPN, 7, 1000mW, S0P-16, ST, 1000	1 PC
0601-002423		LED	SMD (REVERSE), RED, 3. 2x1. 6mm, 639nm, 3. 2x1. 6x1. 1mm	1 PC
0601-002955		LED	SMD(REVERSE), YEL, 1. 6x1. 5mm, 588nm, 3. 2x1. 6x1. 1mm	1 PC
0601-002956		LED	SMD(REVERSE), GRN, 1.6x1.5mm, 3.2x1.6x1.1mm	1 PC
0601-002956	LED802	LED	SMD(REVERSE), GRN, 1.6x1.5mm, 3.2x1.6x1.1mm	1 PC
0604-001172		PHOTO-COUPLER	TR, 150-300, 200mW, SOP, TP	1 PC
0604-001172	PC351	PHOTO-COUPLER	TR, 150-300, 200mW, SOP, TP	1 PC
0604-001172	PC352	PHOTO-COUPLER	TR, 150-300, 200mW, SOP, TP	1 PC
0801-000393	IC302	IC-CMOS LOGIC	74HC86, OR GATE, SOP, 14P, 150MIL, QUAD, ST, -	1 PC
			, 2. 0/6. 0V, 0. 26V, -40to+85C, 180mW, 4. 2V, 1uA, SO, 8P, 4. 9x3. 8 mm, SINGLE, ST, PLASTIC, 5V, -	<del>  </del>
1006-001325	IC301	IC-BUS TRANSCEIVER	40to+85C, 1, 1, 1. 5/5. 0V	1 PC
1201 002046	TC071	IC OD AMD	TSSOP, TR, 14P, 5x4. 4x1. 2mm, 100, 5. 5V, -	1 PC
1201-002946	10011	IC-OP AMP	40to+85C, 63dB, 1, 1nA, 1nA, 1.7mV	1 10
1201-002946	IC431	IC-OP AMP	TSSOP, TR, 14P, 5x4. 4x1. 2mm, 100, 5. 5V, -	1 PC
			40to+85C, 63dB, 1, 1nA, 1nA, 1. 7mV KIA7042AT, TSM, 3P, 2. 9x1. 6mm, PLASTIC, 4. 2V, 350mW, -	
1203-004967	IC502	IC-VOL. DETECTOR	30to+75C, 20mA, -, -	1 PC
1404-001544	NTC001	THERMISTOR-NTC	10K, 3435K, 3. 7mW/C	1 PC
2007-000033		R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1 PC
2007-000033	R161	R-CHIP	0ohm, 5%, 1/4W, TP, 3216	1 PC
2007-000033	R162	R-CHIP	Oohm, 5%, 1/4W, TP, 3216	1 PC
2007-000043		R-CHIP	1Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000070		R-CHIP	Oohm, 5%, 1/10W, TP, 1608	1 PC
2007-000070	R309	R-CHIP	Oohm, 5%, 1/10W, TP, 1608	1 PC

2007-000074	R052	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000074	R152	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000074	R210	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000074	R213	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
	R227	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
	R228	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
				1 PC
	R401	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	
	R402	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
	R403	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000074	R405	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000074	R406	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000074	R407	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000074	R447	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
	R516	R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000074		R-CHIP	100ohm, 5%, 1/10W, TP, 1608	1 PC
	R562		100ohm, 5%, 1/10W, TP, 1608	1 PC
		R-CHIP		
	R153	R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000076		R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000076	R256	R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000076	R257	R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000076	R258	R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000076	R352	R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000076		R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
		R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
		R-CHIP	330ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078		R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078		R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
		R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R351	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R354	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R503	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R504	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
	R505	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
	R508	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
	R509		1Kohm, 5%, 1/10W, TP, 1608	1 PC
		R-CHIP		
		R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
	R529	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R530	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R556	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R557	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000078	R558	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
	R560	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
	R563	R-CHIP	1Kohm, 5%, 1/10W, TP, 1608	1 PC
	R522	R-CHIP	2Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000082		R-CHIP	3. 3Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084		R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R211	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R212	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R214	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R215	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R216	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R217	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R218	R-CHIP	4. 7Kohm, 5%, 1/10%, 11, 1608	1 PC
2007-000084		R-CHIP		1 PC
			4. 7Kohm, 5%, 1/10W, TP, 1608	
2007-000084		R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R404	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R501	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R506	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R507	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R510	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R511	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084		R-CHIP	4. 7Kohm, 5%, 1/10%, 11, 1608	1 PC
	R518	R-CHIP		1 PC
			4. 7Kohm, 5%, 1/10W, TP, 1608	
2007-000084		R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R521	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R523	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R524	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084		R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R526	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R527	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
550001			,, -, 1, 1000	-1.0

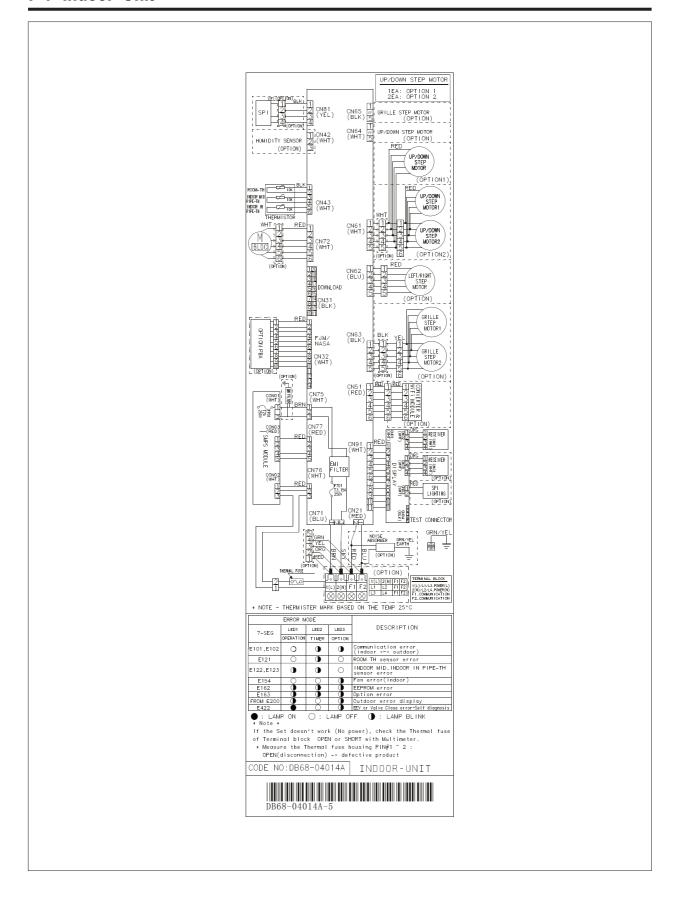
2007-000084	R534	R-CHIP	4.7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R535	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R536	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000084	R903	R-CHIP	4. 7Kohm, 5%, 1/10W, TP, 1608	1 PC
	R203	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
	R204	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
	R206	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
	R301			1 PC
		R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	
	R302	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
	R304	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
	R305	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
	R445	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
	R446	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000090	R528	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000090	R532	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000090	R533	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000090	R551	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000090	R552	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000090	R553	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000090	R554	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
2007-000090	R555	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
	R559	R-CHIP	10Kohm, 5%, 1/10W, TP, 1608	1 PC
				1 PC
	R565	R-CHIP	10Kohn, 5%, 1/10W, TP, 1608	
	R531	R-CHIP	1Mohm, 5%, 1/10W, TP, 1608	1 PC
2007-000116		R-CHIP	120ohm, 5%, 1/10W, TP, 1608	1 PC
2007-000124		R-CHIP	2. 2Kohm, 5%, 1/10W, TP, 1608	1 PC
	R202	R-CHIP	1Kohm, 5%, 1/16W, TP, 1005	1 PC
2007-000140	R205	R-CHIP	1Kohm, 5%, 1/16W, TP, 1005	1 PC
2007-000143	R221	R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 PC
2007-000143	R222	R-CHIP	4.7Kohm, 5%, 1/16W, TP, 1005	1 PC
2007-000143	R223	R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 PC
2007-000143	R224	R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 PC
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 PC
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 PC
2007-000143		R-CHIP	4. 7Kohm, 5%, 1/16W, TP, 1005	1 PC
	R201	R-CHIP	1Mohm, 5%, 1/16W, TP, 1005	1 PC
2007-000239		R-CHIP	1. 5Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000300		R-CHIP		1 PC
			10Kohn, 5%, 1/8W, TP, 2012	
2007-000385		R-CHIP	14. 3Kohm, 1%, 1/4W, TP, 3216	1 PC
	R105	R-CHIP	14. 3Kohm, 1%, 1/4W, TP, 3216	1 PC
	R073	R-CHIP	18Kohm, 1%, 1/10W, TP, 1608	1 PC
	R251	R-CHIP	18Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000455	R253	R-CHIP	18Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000491	R072	R-CHIP	2. 2Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000491	R074	R-CHIP	2. 2Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000491	R076	R-CHIP	2. 2Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000491	R561	R-CHIP	2. 2Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000536	R444	R-CHIP	200ohm, 1%, 1/10W, TP, 1608	1 PC
2007-000537		R-CHIP	200ohm, 1%, 1/4W, TP, 3216	1 PC
2007-000537		R-CHIP	200ohm, 1%, 1/4W, TP, 3216	1 PC
2007-000537		R-CHIP	200ohm, 1%, 1/4W, TP, 3216	1 PC
2007-000537		R-CHIP	200ohm, 1%, 1/4w, TP, 3216	1 PC
2007-000537		R-CHIP	200ohm, 1%, 1/4w, TP, 3216	1 PC
2007-000537		R-CHIP	24Kohm, 1%, 1/10W, TP, 1608	1 PC
				1 PC
2007-000614		R-CHIP	24Kohn, 1%, 1/10W, TP, 1608	
2007-000869		R-CHIP	4. 7Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000869		R-CHIP	4. 7Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000869		R-CHIP	4. 7Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000869		R-CHIP	4. 7Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000869		R-CHIP	4. 7Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000869		R-CHIP	4. 7Kohm, 1%, 1/10W, TP, 1608	1 PC
2007-000872	R801	R-CHIP	4. 7Kohm, 5%, 1/8W, TP, 2012	1 PC
2007-000872	R802	R-CHIP	4. 7Kohm, 5%, 1/8W, TP, 2012	1 PC
2007-000872	R803	R-CHIP	4. 7Kohm, 5%, 1/8W, TP, 2012	1 PC
2007-000924	R059	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1 PC
2007-000924		R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1 PC
2007-000924		R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1 PC
2007-000924		R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1 PC
	R107	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1 PC
	R107	R-CHIP	470Kohm, 1%, 1/4W, TP, 3216	1 PC
2001 000924	V100	IV CHITI	TIONOIIII, 1/0, 1/ TW, 11, 0210	11.0

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2007-000939		R-CHIP	47Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000939		R-CHIP	47Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000939	R431	R-CHIP	47Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-000939	R434	R-CHIP	47Kohm, 1%, 1/10W, TP, 1608	1 P	PC .
2007-000939	R435	R-CHIP	47Kohm, 1%, 1/10W, TP, 1608	1 P	PC
2007-000939	R438	R-CHIP	47Kohm, 1%, 1/10W, TP, 1608	1 P	PC
2007-000939	R439	R-CHIP	47Kohm, 1%, 1/10W, TP, 1608	1 P	PC O
2007-000939	R442	R-CHIP	47Kohm, 1%, 1/10W, TP, 1608	1 P	PC .
2007-001071	R902	R-CHIP	6. 8Kohm, 5%, 1/8W, TP, 2012	1 P	PC PC
2007-001175		R-CHIP	8. 2Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-001175		R-CHIP	8. 2Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-001175		R-CHIP	8. 2Kohm, 1%, 1/10W, TP, 1608	1 P	
2007-001173	R056	R-CHIP	150Kohm, 1%, 1/2W, TP, 5025	1 P	
2007-008261	R057	R-CHIP	150Kohm, 1%, 1/2W, TP, 5025	1 P	
2007-008261	R058	R-CHIP	150Kohm, 1%, 1/2W, TP, 5025	1 P	
2007-010245		R-CHIP	0. 01ohm, 1%, 2W, TP, 6432	1 P	
2007-010245		R-CHIP	0.01ohm, 1%, 2W, TP, 6432	1 P	
2007-010245	R065	R-CHIP	0.01ohm, 1%, 2W, TP, 6432	1 P	
2203-000236	C052	C-CER, CHIP	0. 1nF, 5%, 50V, C0G, TP, 1608	1 P	PC .
2203-000257	C222	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000257	C223	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 P	PC
2203-000257	C224	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 P	PC
2203-000257	C225	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 P	PC
	C301	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 P	
	C351	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000257	C352	C-CER, CHIP	10nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000440		C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000110		C-CER, CHIP		1 P	
			1nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000440		C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608		
2203-000440		C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000440		C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000440		C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000440		C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000440	C435	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000440	C501	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000440	C504	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000440	C505	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	PC
2203-000440	C506	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	C
2203-000440	C507	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	PC .
	C508	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	PC PC
	C510	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000440		C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	
	C523	C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-000110		C-CER, CHIP	1nF, 10%, 50V, X7R, TP, 1608	1 P	
			33nF, 10%, 50V, X7R, TP, 1608	1 P	
		C-CER, CHIP			
2203-002002		C-CER, CHIP	0. 033nF, 5%, 50V, NPO, TP, 1608	1 P	
2203-002002		C-CER, CHIP	0. 033nF, 5%, 50V, NP0, TP, 1608	1 P	
2203-002002		C-CER, CHIP	0. 033nF, 5%, 50V, NPO, TP, 1608	1 P	
2203-002002		C-CER, CHIP	0. 033nF, 5%, 50V, NP0, TP, 1608	1 P	
	C516	C-CER, CHIP	0. 033nF, 5%, 50V, NP0, TP, 1608	1 P	
2203-002002		C-CER, CHIP	0. 033nF, 5%, 50V, NP0, TP, 1608	1 P	
2203-002002	C518	C-CER, CHIP	0. 033nF, 5%, 50V, NP0, TP, 1608	1 P	PC
2203-002002	C519	C-CER, CHIP	0. 033nF, 5%, 50V, NP0, TP, 1608	1 P	PC
2203-002180	C902	C-CER, CHIP	1000nF, 10%, 50V, X7R, TP, 3216	1 P	PC
2203-002398	C524	C-CER, CHIP	22nF, 10%, 50V, X7R, TP, 1608	1 P	PC
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 P	PC .
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, 1F, 1608	1 P	
				1 P	
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608		
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-005249	C221	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-005249		C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 P	PC
2203-005249	C252	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 P	
2203-005249	C253	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1 P	PC

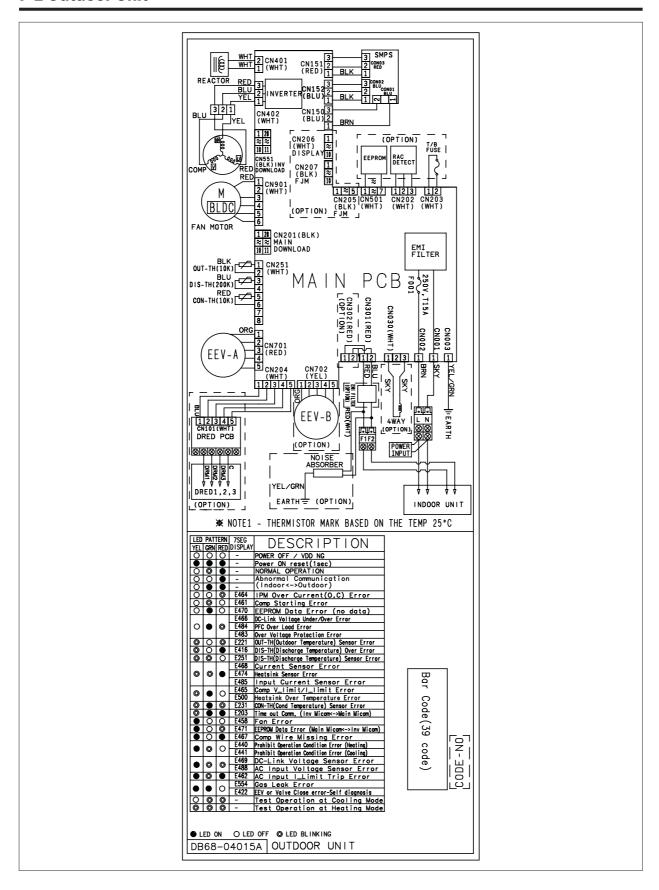
2923 - 09239   CSP   CSP		00=1	a ann aurn	100 P 100 P00 V=P mp 1000		la o
2003-005249   C3004	2203-005249	C254	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	_
2233 - 005249   C305   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005249   C305   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005249   C307   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005249   C307   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005249   C407   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005249   C407   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005249   C409   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005249   C409   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005249   C409   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005249   C403   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005249   C403   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005249   C403   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C301   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C301   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C301   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C301   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C302   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C302   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C305   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C305   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C705   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C705   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C705   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C705   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C705   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C705   C-CER, CHIP   0.06, F.108, S.07, X.R. PT, 1608   1 PC 2203 - 005240   C705   C-CER, CHIP   0.06, F	2203-005249	C302	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249   C304	2203-005249	C303	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2003-000249   (2006   C-CER, CHIP   1006, F.108, 50W, X7R, FP, 1608   1 PC					1	
2203-005249   COOR					1	-
2203-005249   COT					1	_
2003-005249   6011	2203-005249	C306	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2003-005249   6011	2203-005249	C307	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2023 -002249   C005					1	
2033 005219   COS   COPE, CHIP					1	
2003-005249   0.109	2203-005249	C407	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2003-005249   6331	2203-005249	C408	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2003-005249   6331	2203-005249	C409	C-CER CHIP	100nF 10% 50V X7R TP 1608	1	PC.
PC					1	_
PC					1	
2003-005249   0514	2203-005249	C503	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
PC	2203-005249	C509	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2003-005249   C520   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C526   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C526   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C527   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C527   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C527   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C701   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C702   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C703   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C704   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C705   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C705   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C705   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C705   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C705   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C705   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C705   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-005249   C705   C-CER, CHIP   100nF, 10s, 50V, XTR, TP, 1608   PC   2203-006158   C201   C-CER, CHIP   100nF, 10s, 10s, XTR, TP, 1608   PC   2203-006158   C201   C-CER, CHIP   100nF, 10s, 10s, XTR, TP, 1608, 0.5T   PC   2203-006158   C203   C-CER, CHIP   100nF, 10s, 10s, XTR, TP, 1005, 0.5T   PC   2203-006158   C206   C-CER, CHIP   100nF, 10s, 10s, XTR, TP, 1005, 0.5T   PC   2203-006158   C207   C-CER, CHIP   100nF, 10s, 10s, XTR, TP, 1005, 0.5T   PC   2203-006158   C208   C-CER, CHIP   100nF, 10s, 10s, XTR, TP, 1005, 0.5T   PC   2203-006158   C208   C-CER, CHIP   100nF, 10s, 10s, XTR, TP, 1005, 0.5T   PC   2203-006158   C209   C-CER, CHIP   100nF, 10s, 10s, XTR, TP, 1005, 0.5T   PC   2203-006158   C209   C-CER, CHIP   100nF, 10s, 10s, XTR, TP, 1005, 0.5T   PC   2203-006158   C209   C-CE	2203-005249	C511			1	PC
2203-005249   5250   C-CER, CHIP   100nF, 10%, 50V, XTR, TP, 1608   PC					1	
PC   2003-005249   C526			C-CER, CHIP	100nF, 10%, 50V, X7R, 1P, 1608	1	_
2203-005249   C526	2203-005249	C520	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249   C526	2203-005249	C525	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-005249   C527					1	_
2203-005249   C541					1	
2203-005249   C701	2203-005249	C527	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	
2203-005249   C701	2203-005249	C541	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
PC			<i>'</i>		1	1
PC   2203-005249   C703		•				-
PC					1	_
PC	2203-005249	C703	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
PC	2203-005249	C704	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
PC   2023-005249   C706					1	-
PC   2203-006158   C201   C-CER, CHIP   100nF, 108, 50V, XTR, TP, 1608   TP   C2203-006158   C201   C-CER, CHIP   100nF, 108, 16V, XTR, TP, 1005, 0. 5T   TP   C2203-006158   C204   C-CER, CHIP   100nF, 108, 16V, XTR, TP, 1005, 0. 5T   TP   C2203-006158   C204   C-CER, CHIP   100nF, 108, 16V, XTR, TP, 1005, 0. 5T   TP   C2203-006158   C206   C-CER, CHIP   100nF, 108, 16V, XTR, TP, 1005, 0. 5T   TP   C2203-006158   C207   C-CER, CHIP   100nF, 108, 16V, XTR, TP, 1005, 0. 5T   TP   C2203-006158   C208   C-CER, CHIP   100nF, 108, 16V, XTR, TP, 1005, 0. 5T   TP   C2203-006158   C210   C-CER, CHIP   100nF, 108, 16V, XTR, TP, 1005, 0. 5T   TP   C2203-006158   C211   C-CER, CHIP   100nF, 108, 16V, XTR, TP, 1005, 0. 5T   TP   C2203-006158   C212   C-CER, CHIP   100nF, 108, 16V, XTR, TP, 1005, 0. 5T   TP   C2203-006158   C212   C-CER, CHIP   100nF, 108, 16V, XTR, TP, 1005, 0. 5T   TP   C2203-006158   C212   C-CER, CHIP   100nF, 108, 16V, XTR, TP, 1005, 0. 5T   TP   C2203-006158   C212   C-CER, CHIP   100nF, 108, 16V, XTR, TP, 1005, 0. 5T   TP   C2203-006168   C212   C-CER, CHIP   100nF, 108, 25V, X5R, TP, 1608, 0. 8T   TP   C2203-006348   C022   C-CER, CHIP   100nF, 108, 25V, X5R, TP, 1608, 0. 8T   TP   C2203-00648   C322   C-CER, CHIP   100nF, 108, 25V, X5R, TP, 1608, 0. 8T   TP   C2203-007456   C222   C-CER, CHIP   100nF, 108, 25V, X5R, TP, 1005   C106, 0. 5T   TP   C2203-007456   C225   C-CER, CHIP   100nF, 108, 25V, X5R, TP, 1005   C106, 0. 5T   TP   C2203-007456   C226   C-CER, CHIP   100nF, 108, 25V, X5R, TP, 1005   C106, 0. 5T   TP   C2203-007456   C226   C-CER, CHIP   100nF, 108, 25V, X5R, TP, 1005   C106, 0. 5T   TP   C2203-007456   C226   C-CER, CHIP   100nF, 108, 25V, X5R, TP, 1005   C106, 0. 5T   TP   C2203-007456   C226   C-CER, CHIP   100nF, 108, 25V, X5R, TP, 1005   C106, 0. 5T   TP   C2203-007456   C226   C-CER, CHIP   100nF, 108, 25V, X5R, TP, 1005   C106, 0. 5T   TP   C2203-007456   C226   C-CER, CHIP   100nF, 108, 25V, X5R, TP, 1005   C106, 0. 5T   TP   C2203-007456   C226   C-CER, CHIP   100nF, 108,					1	
2203-006158   2201	2203-005249	C706	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-006158   2201   C-CER, CHIP   100nF, 108, 16V, X7R, TP, 1005, 0.5T   1 PC   2203-006158   C204   C-CER, CHIP   100nF, 108, 16V, X7R, TP, 1005, 0.5T   1 PC   2203-006158   C206   C-CER, CHIP   100nF, 108, 16V, X7R, TP, 1005, 0.5T   1 PC   2203-006158   C206   C-CER, CHIP   100nF, 108, 16V, X7R, TP, 1005, 0.5T   1 PC   C2203-006158   C206   C-CER, CHIP   100nF, 108, 16V, X7R, TP, 1005, 0.5T   1 PC   C2203-006158   C208   C-CER, CHIP   100nF, 108, 16V, X7R, TP, 1005, 0.5T   1 PC   C2203-006158   C210   C-CER, CHIP   100nF, 108, 16V, X7R, TP, 1005, 0.5T   1 PC   C2203-006158   C210   C-CER, CHIP   100nF, 108, 16V, X7R, TP, 1005, 0.5T   1 PC   C2203-006158   C211   C-CER, CHIP   100nF, 108, 16V, X7R, TP, 1005, 0.5T   1 PC   C2203-006158   C212   C-CER, CHIP   100nF, 108, 16V, X7R, TP, 1005, 0.5T   1 PC   C2203-006158   C212   C-CER, CHIP   100nF, 108, 16V, X7R, TP, 1005, 0.5T   1 PC   C2203-006158   C212   C-CER, CHIP   100nF, 108, 16V, X7R, TP, 1005, 0.5T   1 PC   C2203-006348   C002   C-CER, CHIP   100nF, 108, 16V, X7R, TP, 1005, 0.5T   1 PC   C2203-006348   C002   C-CER, CHIP   1000nF, 108, 25V, X5R, TP, 1608, 0.8T   1 PC   C2203-006466   C522   C-CER, CHIP   1000nF, 108, 25V, X5R, TP, 1608, 0.8T   1 PC   C2203-007456   C202   C-CER, CHIP   1000nF, 108, 25V, X5R, TP, 1605, 0.5T   1 PC   C2203-007456   C205   C-CER, CHIP   1000nF, 108, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   C2203-007456   C205   C-CER, CHIP   1000nF, 108, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   C2203-007456   C204   C-CER, CHIP   1000nF, 108, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   C2203-007456   C214   C-CER, CHIP   1000nF, 108, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   C2203-007456   C214   C-CER, CHIP   1000nF, 108, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   C2203-007456   C226   C-CER, CHIP   1000nF, 108, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   C2203-007456   C226   C-CER, CHIP   1000nF, 108, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   C2203-007456   C226   C-CER, CHIP   1000nF, 108, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   C2203-007456	2203-005249	C903	C-CER, CHIP	100nF, 10%, 50V, X7R, TP, 1608	1	PC
2203-006158   2203					1	PC
2203-006158   C204   C-CER, CHIP			,		1	_
PC   2203-006158   C206			C-CER, CHIP	100nF, 10%, 16V, X7R, TP, 1005, 0. 5T	1	-
2203-006158   C207   C-CER, CHIP   100nF, 10%, 16V, X7R, TP, 1005, 0. 5T   1 PC   2203-006158   C208   C-CER, CHIP   100nF, 10%, 16V, X7R, TP, 1005, 0. 5T   1 PC   2203-006158   C210   C-CER, CHIP   100nF, 10%, 16V, X7R, TP, 1005, 0. 5T   1 PC   2203-006158   C211   C-CER, CHIP   100nF, 10%, 16V, X7R, TP, 1005, 0. 5T   1 PC   2203-006158   C212   C-CER, CHIP   100nF, 10%, 16V, X7R, TP, 1005, 0. 5T   1 PC   C203-006158   C212   C-CER, CHIP   100nF, 10%, 16V, X7R, TP, 1005, 0. 5T   1 PC   C203-006348   C051   C-CER, CHIP   100nF, 10%, 25V, X5R, TP, 1608, 0. 8T   1 PC   C203-006348   C402   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1608, 0. 8T   1 PC   C203-006348   C402   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1608, 0. 8T   1 PC   C203-006468   C322   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1608, 0. 8T   1 PC   C203-007456   C202   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC   C203-007456   C205   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC   C203-007456   C205   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC   C2203-007456   C204   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC   C2203-007456   C214   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC   C2203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC   C2203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC   C2203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC   C2203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC   C2203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC   C2203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC   C203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC   C203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC   C203-007456   C226   C-CER, CHIP   1000nF,	2203-006158	C204	C-CER, CHIP	100nF, 10%, 16V, X7R, TP, 1005, 0. 5T	1	PC
PC	2203-006158	C206	C-CER, CHIP	100nF, 10%, 16V, X7R, TP, 1005, 0, 5T	1	PC
2203-006158   C208					1	
PC					1	_
2203-006158   C212			C-CER, CHIP	100nF, 10%, 16V, X7R, TP, 1005, 0. 5T	1	PC
2203-006158   C212   C-CER, CHIP   100nF, 10%, 16V, X7R, TP, 1005, 0.5T   1 PC   2203-006348   C402   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1608, 0.8T   1 PC   2203-006460   C522   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1608, 0.8T   1 PC   2203-006460   C522   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1608, 0.8T   1 PC   2203-007456   C202   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C202   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C209   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C213   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C213   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C214   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C227   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C227   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C228   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2402-001144   C403   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5, 8mm   1 PC   2402-001144   C404   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5, 8mm   1 PC   2402-001144   C404   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5, 8mm   1 PC   2402-001144   C404   C-AL, SMD   68uF, 20%, 25V, WT, TP, 86.3mm   1 PC   2402-001268   C6051   C-AL, SMD   100uF, 20%, 25V, WT, TP, 86.3mm   1 PC   2402-001268   C6051   C-AL, SMD   100uF, 20%, 25V, WT, TP, 86.3mm   1 PC   2402-001268   C6051   C-AL, SMD   100uF, 20%, 25V, WT, TP, 86.3mm   1 PC   2402-001268   C6051   C-AL, SMD   100uF, 20%, 25V, WT, TP, 86.3mm   1 PC   2402-001268   C6051   C-AL, SMD   100uF, 20%,	2203-006158	C210	C-CER, CHIP	100nF, 10%, 16V, X7R, TP, 1005, 0. 5T	1	PC
2203-006158   C212   C-CER, CHIP   100nF, 10%, 16V, X7R, TP, 1005, 0.5T   1 PC   2203-006348   C402   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1608, 0.8T   1 PC   2203-006460   C522   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1608, 0.8T   1 PC   2203-006460   C522   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1608, 0.8T   1 PC   2203-007456   C202   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C202   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C209   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C213   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C213   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C214   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C227   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C227   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C228   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2402-001144   C403   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5, 8mm   1 PC   2402-001144   C404   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5, 8mm   1 PC   2402-001144   C404   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5, 8mm   1 PC   2402-001144   C404   C-AL, SMD   68uF, 20%, 25V, WT, TP, 86.3mm   1 PC   2402-001268   C6051   C-AL, SMD   100uF, 20%, 25V, WT, TP, 86.3mm   1 PC   2402-001268   C6051   C-AL, SMD   100uF, 20%, 25V, WT, TP, 86.3mm   1 PC   2402-001268   C6051   C-AL, SMD   100uF, 20%, 25V, WT, TP, 86.3mm   1 PC   2402-001268   C6051   C-AL, SMD   100uF, 20%, 25V, WT, TP, 86.3mm   1 PC   2402-001268   C6051   C-AL, SMD   100uF, 20%,	2203-006158	C211	C-CER CHIP	100nF 10% 16V X7R TP 1005 0 5T	1	PC.
2203-006348   C051						
PC   2203-006480   C402			, , , , , , , , , , , , , , , , , , ,		1	_
2203-006460   C522	2203-006348	C051	C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1608, 0. 8T	1	PC
2203-006460   C522	2203-006348	C402	C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1608, 0, 8T	1	PC
2203-007456   C202   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC					1	_
2203-007456   C205   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   1 PC			· · · · · · · · · · · · · · · · · · ·		1	
2203-007456   C209   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C213   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C214   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C227   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C228   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C228   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   1 PC   2402-001144   CE403   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5.8mm   1 PC   2402-001144   CE404   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5.8mm   1 PC   2402-001144   CE405   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5.8mm   1 PC   2402-001144   CE405   C-AL, SMD   22UF, 20%, 16V, WT, TP, 5.3*5.8mm   1 PC   2402-001268   CE051   C-AL, SMD   22UF, 20%, 16V, WT, TP, 8x6.3mm   1 PC   2402-001268   CE051   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   1 PC   2402-001268   CE401   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   1 PC   2402-001268   CE401   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   1 PC   2402-001268   CE402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   1 PC   2402-001268   CE401   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   1 PC   2402-001268   CE401   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   1 PC   2402-001268   CE401   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   1 PC   2402-001268   CE402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   1 PC   2402-001268   CE401   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   1 PC   2402-001268   CE401   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   1 PC   2402-001268   CE401   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   1 PC   2402-001268   CE401   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   1 PC   2402-001268   CE401   C-AL, SMD   100	2203-007456	C202	C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T	1	PC
2203-007456   C209   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   2203-007456   C213   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   PC   2203-007456   C214   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C227   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C228   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C228   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007466   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007466   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T   PC   C203-007466   C204   C-AL, SMD   22UF, 20%, 16V, WT, TP, 6.3*5, Smm   1 PC   C2402-001268   C6051   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6. 3mm   1 PC   C2402-001268   C6402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6. 3mm   1 PC   C2402-001268   C2402-001268   C2402-001268   C2402-001268   C2402-001268   C2402-001268   C2402-001268   C2402-001268   C2402-001268	2203-007456	C205	C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T	1	PC
2203-007456   C213	2203-007456	C209	C-CFR CHIP		1	PC
2203-007456   C214   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   PC   2203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   PC   PC   2203-007456   C227   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   PC   PC   2203-007456   C228   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   PC   PC   2203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   PC   PC   2203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   PC   PC   2402-001144   C403   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5.8mm   PC   PC   2402-001144   C404   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5.8mm   PC   PC   2402-001143   C405   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5.8mm   PC   PC   2402-001183   C6071   C-AL, SMD   22UF, 20%, 16V, WT, TP, 5.3X5.3K6M   PC   PC   2402-001268   C6051   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C6052   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C401   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   PC   2402-00					1	-
2203-007456   C226   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   PC   2203-007456   C227   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   PC   2203-007456   C228   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   PC   2203-007456   C229   C-CER, CHIP   1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T   PC   2402-001144   C403   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5.8mm   PC   2402-001144   C404   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5.8mm   PC   2402-001144   C405   C-AL, SMD   68uF, 20%, 25V, LZ, TP, 6.3*5.8mm   PC   2402-001183   C6071   C-AL, SMD   22UF, 20%, 16V, WT, TP, 5.3X5.3X6MM   PC   2402-001268   C6051   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   2402-001268   C6052   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   2402-001268   C401   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   2402-001268   C402   C-AL, SMD   100uF, 20%, 25V, WT, TP, 8x6.3mm   PC   2802-001165   X201   RESONATOR-CERAMIC   4MHz, 0.5%, TP, 4.5x2.0x1.15mm   PC   2802-001211   X501   RESONATOR-CERAMIC   8MHz, 0.5%, TP, 3.2x1.3x0.9 mm   PC   2802-001211   X501   RESONATOR-CERAMIC   8MHz, 0.5%, TP, 3.2x1.3x0.9 mm   PC   2802-001240   C501   ASSY MICOM   16S PF2 PF3, STM-1514-0A, HART-i910, 64LQFP, ROM 64KB   PC   2803-001843   C-MAIN   PC   ASSY-LABEL MICOM   QFP, 64P, 12x12mm, 8MHz, 5V, 600mW,					1	
2203-007456         C227         C-CER, CHIP         1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T         1 PC           2203-007456         C228         C-CER, CHIP         1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T         1 PC           2203-007456         C229         C-CER, CHIP         1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T         1 PC           2402-001144         CE403         C-AL, SMD         68uF, 20%, 25V, LZ, TP, 6. 3*5. 8mm         1 PC           2402-001144         CE404         C-AL, SMD         68uF, 20%, 25V, LZ, TP, 6. 3*5. 8mm         1 PC           2402-001144         CE405         C-AL, SMD         68uF, 20%, 25V, LZ, TP, 6. 3*5. 8mm         1 PC           2402-001183         CE071         C-AL, SMD         2UF, 20%, 16V, WT, TP, 5. 3X5. 3X6MM         1 PC           2402-001268         CE051         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE052         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE401         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE401         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE401         C-AL, SMD         100uF, 20%, 25V	2203-007456	C214	C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T	1	PC
2203-007456         C227         C-CER, CHIP         1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T         1 PC           2203-007456         C228         C-CER, CHIP         1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T         1 PC           2203-007456         C229         C-CER, CHIP         1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T         1 PC           2402-001144         CE403         C-AL, SMD         68uF, 20%, 25V, LZ, TP, 6. 3*5. 8mm         1 PC           2402-001144         CE404         C-AL, SMD         68uF, 20%, 25V, LZ, TP, 6. 3*5. 8mm         1 PC           2402-001144         CE405         C-AL, SMD         68uF, 20%, 25V, LZ, TP, 6. 3*5. 8mm         1 PC           2402-001183         CE071         C-AL, SMD         2UF, 20%, 16V, WT, TP, 5. 3X5. 3X6MM         1 PC           2402-001268         CE051         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE052         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE401         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE401         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE401         C-AL, SMD         100uF, 20%, 25V	2203-007456	C226	C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T	1	PC
2203-007456         C228         C-CER, CHIP         1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T         1 PC           2203-007456         C229         C-CER, CHIP         1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T         1 PC           2402-001144         CE403         C-AL, SMD         68uF, 20%, 25V, LZ, TP, 6.3*5, 8mm         1 PC           2402-001144         CE404         C-AL, SMD         68uF, 20%, 25V, LZ, TP, 6.3*5, 8mm         1 PC           2402-001144         CE405         C-AL, SMD         68uF, 20%, 25V, LZ, TP, 6.3*5, 8mm         1 PC           2402-001183         CE071         C-AL, SMD         22UF, 20%, 16V, WT, TP, 5.3X5, 3X6MM         1 PC           2402-001268         CE051         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6, 3mm         1 PC           2402-001268         CE052         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6, 3mm         1 PC           2402-001268         CE401         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6, 3mm         1 PC           2402-001268         CE402         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6, 3mm         1 PC           2402-001268         CE401         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6, 3mm         1 PC           2402-001268         CE402         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6, 3mm					1	
2203-007456         C229         C-CER, CHIP         1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0.5T         1 PC           2402-001144         CE403         C-AL, SMD         68uF, 20%, 25V, LZ, TP, 6.3*5.8mm         1 PC           2402-001144         CE404         C-AL, SMD         68uF, 20%, 25V, LZ, TP, 6.3*5.8mm         1 PC           2402-001144         CE405         C-AL, SMD         68uF, 20%, 25V, LZ, TP, 6.3*5.8mm         1 PC           2402-001148         CE405         C-AL, SMD         68uF, 20%, 25V, LZ, TP, 6.3*5.8mm         1 PC           2402-001183         CE071         C-AL, SMD         22UF, 20%, 16V, WT, TP, 5.3X5.3X6MM         1 PC           2402-001268         CE051         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6.3mm         1 PC           2402-001268         CE052         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6.3mm         1 PC           2402-001268         CE401         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6.3mm         1 PC           2402-001268         CE402         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6.3mm         1 PC           2802-001265         CE402         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6.3mm         1 PC           2802-001268         CE402         C-AL, SMD         100uF, 20%, 25V, WT, TP, 8x6.3mm         1 PC			,		1	_
2402-001144         CE403         C-AL, SMD         68uf, 20%, 25V, LZ, TP, 6. 3*5. 8mm         1 PC           2402-001144         CE404         C-AL, SMD         68uf, 20%, 25V, LZ, TP, 6. 3*5. 8mm         1 PC           2402-001144         CE405         C-AL, SMD         68uf, 20%, 25V, LZ, TP, 6. 3*5. 8mm         1 PC           2402-001183         CE071         C-AL, SMD         22UF, 20%, 16V, WT, TP, 5. 3X5. 3X6MM         1 PC           2402-001268         CE051         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE052         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE401         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE402         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE402         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2802-001269         CE402         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2802-001211         X501         RESONATOR-CERAMIC         4MHz, 0.5%, TP, 4.5x2. 0x1. 15mm         1 PC           2802-001211         X501         RESONATOR-CERAMIC         8MHz, 0.5%, TP, 3.2x1. 3x0. 9 mm					1	_
2402-001144       CE404       C-AL, SMD       68ur, 20%, 25V, LZ, TP, 6. 3*5. 8mm       1 PC         2402-001144       CE405       C-AL, SMD       68ur, 20%, 25V, LZ, TP, 6. 3*5. 8mm       1 PC         2402-001183       CE071       C-AL, SMD       22UF, 20%, 16V, WT, TP, 5. 3X5. 3X5MM       1 PC         2402-001268       CE051       C-AL, SMD       100ur, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE052       C-AL, SMD       100ur, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE401       C-AL, SMD       100ur, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE402       C-AL, SMD       100ur, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE402       C-AL, SMD       100ur, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2802-001268       CE402       C-AL, SMD       100ur, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2802-001218       X201       RESONATOR-CERAMIC       4MHz, 0.5%, TP, 4.5x2. 0x1. 15mm       1 PC         2802-001211       X501       RESONATOR-CERAMIC       8MHz, 0.5%, TP, 3. 2x1. 3x0. 9 mm       1 PC         DB41-01228A       PCB MAIN       PCB INVERTER       FR-4, 2Layer, 197*242, PF#3, OUTDOOR, 20z, 197*242       1 PC         DB91-01726A       IC501	2203-007456	C229	C-CER, CHIP	1000nF, 10%, 25V, X5R, TP, 1005 (1106), 0. 5T	1	PC
2402-001144       CE404       C-AL, SMD       68ur, 20%, 25V, LZ, TP, 6. 3*5. 8mm       1 PC         2402-001144       CE405       C-AL, SMD       68ur, 20%, 25V, LZ, TP, 6. 3*5. 8mm       1 PC         2402-001183       CE071       C-AL, SMD       22UF, 20%, 16V, WT, TP, 5. 3X5. 3X5MM       1 PC         2402-001268       CE051       C-AL, SMD       100ur, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE052       C-AL, SMD       100ur, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE401       C-AL, SMD       100ur, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE402       C-AL, SMD       100ur, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE402       C-AL, SMD       100ur, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2802-001268       CE402       C-AL, SMD       100ur, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2802-001218       X201       RESONATOR-CERAMIC       4MHz, 0.5%, TP, 4.5x2. 0x1. 15mm       1 PC         2802-001211       X501       RESONATOR-CERAMIC       8MHz, 0.5%, TP, 3. 2x1. 3x0. 9 mm       1 PC         DB41-01228A       PCB MAIN       PCB INVERTER       FR-4, 2Layer, 197*242, PF#3, OUTDOOR, 20z, 197*242       1 PC         DB91-01726A       IC501	2402-001144	CE403	C-AL, SMD	68uF, 20%, 25V, LZ, TP, 6, 3*5, 8mm	1	PC
2402-001144       CE405       C-AL, SMD       68uf, 20%, 25V, LZ, TP, 6. 3*5. 8mm       1 PC         2402-001183       CE071       C-AL, SMD       22UF, 20%, 16V, WT, TP, 5. 3X5. 3X6MM       1 PC         2402-001268       CE051       C-AL, SMD       100uF, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE052       C-AL, SMD       100uF, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE401       C-AL, SMD       100uF, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE402       C-AL, SMD       100uF, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2802-001268       CE402       C-AL, SMD       100uF, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2802-001218       X201       RESONATOR-CERAMIC       4MHz, 0. 5%, TP, 4. 5x2. 0x1. 15mm       1 PC         2802-001211       X501       RESONATOR-CERAMIC       8MHz, 0. 5%, TP, 3. 2x1. 3x0. 9 mm       1 PC         DB41-01228A       PCB MAIN       PCB INVERTER       FR-4, 2Layer, 197*242, PF#3, OUTDOOR, 20z, 197*242       1 PC         DB91-01726A       IC501       ASSY MICOM       16S PF2 PF3, STM-1514-0A, HART-1910, 64LQFP, ROM 64KB       1 PC         DB98-31449A       IC-MICROCONTROLLER       40to+85C, 12KB, 64KB, Inverter SOC       1 PC         DB99-00596A       I					1	-
2402-001183       CE071       C-AL, SMD       22UF, 20%, 16V, WT, TP, 5. 3X5. 3X6MM       1 PC         2402-001268       CE051       C-AL, SMD       100uF, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE052       C-AL, SMD       100uF, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE401       C-AL, SMD       100uF, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE402       C-AL, SMD       100uF, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2802-001218       X201       RESONATOR-CERAMIC       4MHz, 0. 5%, TP, 4. 5x2. 0x1. 15mm       1 PC         2802-001211       X501       RESONATOR-CERAMIC       8MHz, 0. 5%, TP, 3. 2x1. 3x0. 9 mm       1 PC         D841-01228A       PCB MAIN       PCB INVERTER       FR-4, 2Layer, 197*242, PF#3, OUTDOOR, 20z, 197*242       1 PC         D891-01726A       IC501       ASSY MICOM       16S, PF2, PF3, STM-1514-OA, HART-i910, 64LQFP, ROM 64KB       1 PC         D898-31449A       -       ASSY-LABEL MICOM       QFP, 64P, WHT, 9*9       1 PC         DB91-01736A       IC201       ASSY MICOM       15_RAC_A3050_HP_OUT, STM-1525-OA, S3FM02G, 128TQFP, ROM       1 PC         DB90-00596A       -       IC MICOM       S3FM02G, 128P, DC3V, TQFP, -40^+85, 384K       1 PC					1	
2402-001268       CE051       C-AL, SMD       100uf, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE052       C-AL, SMD       100uf, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE401       C-AL, SMD       100uf, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2402-001268       CE402       C-AL, SMD       100uf, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2802-001268       CE402       C-AL, SMD       100uf, 20%, 25V, WT, TP, 8x6. 3mm       1 PC         2802-001215       X201       RESONATOR-CERAMIC       4MHz, 0. 5%, TP, 4. 5x2. 0x1. 15mm       1 PC         2802-001211       X501       RESONATOR-CERAMIC       8MHz, 0. 5%, TP, 3. 2x1. 3x0. 9 mm       1 PC         DB41-01228A       PCB MAIN       PCB INVERTER       FR-4, 2Layer, 197*242, PF#3, OUTDOOR, 20z, 197*242       1 PC         DB91-01726A       IC501       ASSY MICOM       16S, PF2, PF3, STM-1514-OA, HART-i910, 64LQFP, ROM 64KB       1 PC         DB93-001843       -       IC-MICROCONTROLLER       HART-I910, LQFP, 64P, 12x12mm, 8MHz, 5V, 600mW, - 40to+85C, 12KB, 64KB, Inverter SOC       1 PC         DB94-01736A       IC201       ASSY MICOM       15_RAC_A3050_HP_OUT, STM-1525-OA, S3FM02G, 128TQFP, ROM 384KB       1 PC         DB90-00596A       IC MICOM       S3FM02G, 128P, DC3V, TQFP, -40^+85, 384K					1	
2402-001268         CE051         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE052         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE401         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE402         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2802-001268         X201         RESONATOR-CERAMIC         4MHz, 0. 5%, TP, 4. 5x2. 0x1. 15mm         1 PC           2802-001211         X501         RESONATOR-CERAMIC         8MHz, 0. 5%, TP, 3. 2x1. 3x0. 9 mm         1 PC           D841-01228A         PCB MAIN         PCB INVERTER         FR-4, 2Layer, 197*242, PF#3, 0UTD0OR, 20z, 197*242         1 PC           D891-01726A         IC501         ASSY MICOM         16S, PF2, PF3, STM-1514-0A, HART-1910, 64LQFP, ROM 64KB         1 PC           D898-31449A         -         ASSY-LABEL MICOM         QFP, 64P, WHT, 9*9         1 PC           D891-01736A         IC201         ASSY MICOM         15_RAC_A3050_HP_OUT, STM-1525-OA, S3FM02G, 128TQFP, ROM         1 PC           D899-00596A         -         IC MICOM         S3FM02G, 128P, DC3V, TQFP, -40~+85, 384K         1 PC	2402-001183	CE071	C-AL, SMD	22UF, 20%, 16V, WT, TP, <u>5</u> . 3X5. 3X6MM	1	PC
2402-001268         CE052         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE401         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2402-001268         CE402         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1 PC           2802-001216         X201         RESONATOR-CERAMIC         4MHz, 0.5%, TP, 4.5x2. 0x1. 15mm         1 PC           2802-001211         X501         RESONATOR-CERAMIC         8MHz, 0.5%, TP, 3. 2x1. 3x0. 9 mm         1 PC           DB41-01228A         PCB MAIN         PCB INVERTER         FR-4, 2Layer, 197*242, PF#3, OUTDOOR, 20z, 197*242         1 PC           DB91-01726A         IC501         ASSY MICOM         16S, PF2, PF3, STM-1514-OA, HART-i910, 64LQFP, ROM 64KB         1 PC           0903-001843         -         IC-MICROCONTROLLER         HART-I910, LQFP, 64P, 12x12mm, 8MHz, 5V, 600mW, - 40to+85C, 12KB, 64KB, Inverter SOC         1 PC           DB98-31449A         -         ASSY-LABEL MICOM         QFP, 64P, WHT, 9*9         1 PC           DB91-01736A         IC201         ASSY MICOM         15_RAC_A3050_HP_OUT, STM-1525-OA, S3FM02G, 128TQFP, ROM 384KB         1 PC           DB90-00596A         -         IC MICOM         S3FM02G, 128P, DC3V, TQFP, -40^+85, 384K         1 PC					1	PC
2402-001268         CE401         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1         PC           2402-001268         CE402         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6. 3mm         1         PC           2802-001165         X201         RESONATOR-CERAMIC         4MHz, 0. 5%, TP, 4. 5x2. 0x1. 15mm         1         PC           2802-001211         X501         RESONATOR-CERAMIC         8MHz, 0. 5%, TP, 3. 2x1. 3x0. 9 mm         1         PC           DB41-01228A         PCB MAIN         PCB INVERTER         FR-4, 2Layer, 197*242, PF#3, 0UTD0OR, 20z, 197*242         1         PC           DB91-01726A         IC501         ASSY MICOM         16S_PF2_PF3, STM-1514-0A, HART-i910, 64LQFP, ROM 64KB         1         PC           0903-001843         -         IC-MICROCONTROLLER         HART-I910, LQFP, 64P, 12x12mm, 8MHz, 5V, 600mW, - 40to+85C, 12KB, 64KB, Inverter_SOC         1         PC           DB98-31449A         -         ASSY-LABEL MICOM         QFP, 64P, WHT, 9*9         1         PC           DB91-01736A         IC201         ASSY MICOM         15_RAC_A3050_HP_OUT, STM-1525-OA, S3FM02G, 128TQFP, ROM 384KB         1         PC           DB99-00596A         -         IC MICOM         S3FM02G, 128P, DC3V, TQFP, -40^+85, 384K         1         PC					1	
2402-001268         CE402         C-AL, SMD         100uf, 20%, 25V, WT, TP, 8x6.3mm         1 PC           2802-001165         X201         RESONATOR-CERAMIC         4MHz, 0.5%, TP, 4.5x2.0x1.15mm         1 PC           2802-001211         X501         RESONATOR-CERAMIC         8MHz, 0.5%, TP, 3.2x1.3x0.9 mm         1 PC           DB41-01228A         PCB MAIN         PCB INVERTER         FR-4, 2Layer, 197*242, PF#3, OUTDOOR, 20z, 197*242         1 PC           DB91-01726A         IC501         ASSY MICOM         16S, PF2, PF3, STM-1514-OA, HART-i910, 64LQFP, ROM 64KB         1 PC           0903-001843         -         IC-MICROCONTROLLER         HART-I910, LQFP, 64P, 12x12mm, 8MHz, 5V, 600mW, - 40to+85C, 12KB, 64KB, Inverter SOC         1 PC           DB98-31449A         -         ASSY-LABEL MICOM         QFP, 64P, WHT, 9*9         1 PC           DB91-01736A         IC201         ASSY MICOM         15_RAC_A3050_HP_OUT, STM-1525-OA, S3FM02G, 128TQFP, ROM 384KB         1 PC           DB09-00596A         -         IC MICOM         S3FM02G, 128P, DC3V, TQFP, -40^+85, 384K         1 PC					I	_
2802-001165         X201         RESONATOR-CERAMIC         4MHz, 0. 5%, TP, 4. 5x2. 0x1. 15mm         1 PC           2802-001211         X501         RESONATOR-CERAMIC         8MHz, 0. 5%, TP, 3. 2x1. 3x0. 9 mm         1 PC           DB41-01228A         PCB MAIN         PCB INVERTER         FR-4, 2Layer, 197*242, PF#3, OUTDOOR, 20z, 197*242         1 PC           DB91-01726A         IC501         ASSY MICOM         16S, PF2, PF3, STM-1514-0A, HART-i910, 64LQFP, ROM 64KB         1 PC           0903-001843         -         IC-MICROCONTROLLER         HART-I910, LQFP, 64P, 12x12mm, 8MHz, 5V, 600mW, - 40to+85C, 12KB, 64KB, Inverter SOC         1 PC           DB98-31449A         -         ASSY-LABEL MICOM         QFP, 64P, WHT, 9*9         1 PC           DB91-01736A         IC201         ASSY MICOM         15_RAC_A3050_HP_OUT, STM-1525-0A, S3FM02G, 128TQFP, ROM 384KB         1 PC           DB09-00596A         -         IC MICOM         S3FM02G, 128P, DC3V, TQFP, -40^+85, 384K         1 PC					1	
2802-001165       X201       RESONATOR-CERAMIC       4MHz, 0. 5%, TP, 4. 5x2. 0x1. 15mm       1 PC         2802-001211       X501       RESONATOR-CERAMIC       8MHz, 0. 5%, TP, 3. 2x1. 3x0. 9 mm       1 PC         DB41-01228A       PCB MAIN       PCB INVERTER       FR-4, 2Layer, 197*242, PF#3, 0UTD00R, 20z, 197*242       1 PC         DB91-01726A       IC501       ASSY MICOM       16S_PF2_PF3, STM-1514-0A, HART-i910, 64LQFP, ROM 64KB       1 PC         0903-001843       -       IC-MICROCONTROLLER       HART-I910, LQFP, 64P, 12x12mm, 8MHz, 5V, 600mW, - 40to+85C, 12KB, 64KB, Inverter SOC       1 PC         DB98-31449A       -       ASSY-LABEL MICOM       QFP, 64P, WHT, 9*9       1 PC         DB91-01736A       IC201       ASSY MICOM       15_RAC_A3050_HP_OUT, STM-1525-0A, S3FM02G, 128TQFP, ROM 384KB       1 PC         DB09-00596A       -       IC MICOM       S3FM02G, 128P, DC3V, TQFP, -40^+85, 384K       1 PC	2402-001268	CE402	C-AL, SMD	100uF, 20%, 25V, WT, TP, 8x6. 3mm	1	PC
2802-001211       X501       RESONATOR-CERAMIC       8MHz, 0. 5%, TP, 3. 2x1. 3x0. 9 mm       1 PC         DB41-01228A       PCB MAIN       PCB INVERTER       FR-4, 2Layer, 197*242, PF#3, 0UTD00R, 20z, 197*242       1 PC         DB91-01726A       IC501       ASSY MICOM       16S_PF2_PF3, STM-1514-0A, HART-i910, 64LQFP, ROM_64KB       1 PC         0903-001843       -       IC-MICROCONTROLLER       HART-I910, LQFP, 64P, 12x12mm, 8MHz, 5V, 600mW, - 40to+85C, 12KB, 64KB, Inverter_SOC       1 PC         DB98-31449A       -       ASSY-LABEL_MICOM       QFP, 64P, WHT, 9*9       1 PC         DB91-01736A       IC201       ASSY_MICOM       15_RAC_A3050_HP_OUT, STM-1525-0A, S3FM02G, 128TQFP, ROM_384KB       1 PC         DB09-00596A       -       IC_MICOM       S3FM02G, 128P, DC3V, TQFP, -40^+85, 384K       1 PC	2802-001165	X201		4MHz. 0. 5%, TP. 4. 5x2. 0x1 15mm	1	PC:
DB41-01228A         PCB MAIN         PCB INVERTER         FR-4, 2Layer, 197*242, PF#3, OUTDOOR, 20z, 197*242         1 PC           DB91-01726A         IC501         ASSY MICOM         16S_PF2_PF3, STM-1514-0A, HART-i910, 64LQFP, ROM 64KB         1 PC           0903-001843         -         IC-MICROCONTROLLER         HART-I910, LQFP, 64P, 12x12mm, 8MHz, 5V, 600mW, - 40to+85C, 12KB, 64KB, Inverter SOC         1 PC           DB98-31449A         -         ASSY-LABEL MICOM         QFP, 64P, WHT, 9*9         1 PC           DB91-01736A         IC201         ASSY MICOM         15_RAC_A3050_HP_OUT, STM-1525-0A, S3FM02G, 128TQFP, ROM 384KB         1 PC           DB09-00596A         -         IC MICOM         S3FM02G, 128P, DC3V, TQFP, -40~+85, 384K         1 PC					1	_
DB91-01726A         IC501         ASSY MICOM         16S_PF2_PF3, STM-1514-OA, HART-i910, 64LQFP, ROM 64KB         1 PC           0903-001843         -         IC-MICROCONTROLLER         HART-I910, LQFP, 64P, 12x12mm, 8MHz, 5V, 600mW, - 40to+85C, 12KB, 64KB, Inverter SOC         1 PC           DB98-31449A         -         ASSY-LABEL MICOM         QFP, 64P, WHT, 9*9         1 PC           DB91-01736A         IC201         ASSY MICOM         15_RAC_A3050_HP_OUT, STM-1525-OA, S3FM02G, 128TQFP, ROM 384KB         1 PC           DB09-00596A         -         IC MICOM         S3FM02G, 128P, DC3V, TQFP, -40~+85, 384K         1 PC					1	
0903-001843         -         IC-MICROCONTROLLER         HART-I910, LQFP, 64P, 12x12mm, 8MHz, 5V, 600mW, - 40to+85C, 12KB, 64KB, Inverter SOC         1         PC           DB98-31449A         -         ASSY-LABEL MICOM         QFP, 64P, WHT, 9*9         1         PC           DB91-01736A         IC201         ASSY MICOM         15_RAC_A3050_HP_OUT, STM-1525-OA, S3FM02G, 128TQFP, ROM 384KB         1         PC           DB09-00596A         -         IC MICOM         S3FM02G, 128P, DC3V, TQFP, -40~+85, 384K         1         PC	DB41-01228A	PCB MAIN	PCB INVERTER	FR-4, 2Layer, 197*242, PF#3, OUTDOOR, 20z, 197*242	1	PC
0903-001843         -         IC-MICROCONTROLLER         HART-I910, LQFP, 64P, 12x12mm, 8MHz, 5V, 600mW, - 40to+85C, 12KB, 64KB, Inverter SOC         1         PC           DB98-31449A         -         ASSY-LABEL MICOM         QFP, 64P, WHT, 9*9         1         PC           DB91-01736A         IC201         ASSY MICOM         15_RAC_A3050_HP_OUT, STM-1525-OA, S3FM02G, 128TQFP, ROM 384KB         1         PC           DB09-00596A         -         IC MICOM         S3FM02G, 128P, DC3V, TQFP, -40~+85, 384K         1         PC	DB91-01726A	IC501	ASSY MICOM	16S PF2 PF3, STM-1514-0A, HART-i910, 64LOFP, ROM 64KB	1	PC
0903-001843         -         IC-MICROCONTROLLER         40to+85C, 12KB, 64KB, Inverter SOC         IPC           DB98-31449A         -         ASSY-LABEL MICOM         QFP, 64P, WHT, 9*9         I PC           DB91-01736A         IC201         ASSY MICOM         15_RAC_A3050_HP_OUT, STM-1525-0A, S3FM02G, 128TQFP, ROM 384KB         I PC           DB09-00596A         -         IC MICOM         S3FM02G, 128P, DC3V, TQFP, -40~+85, 384K         I PC						
DB98-31449A         -         ASSY-LABEL MICOM         QFP, 64P, WHT, 9*9         1         PC           DB91-01736A         IC201         ASSY MICOM         15_RAC_A3050_HP_OUT, STM-1525-0A, S3FM02G, 128TQFP, ROM 384KB         1         PC           DB09-00596A         -         IC MICOM         S3FM02G, 128P, DC3V, TQFP, -40~+85, 384K         1         PC	0903-001843	<b> </b> -	IC-MICROCONTROLLER		1	PC
DB91-01736A IC201 ASSY MICOM 15_RAC_A3050_HP_OUT, STM-1525-0A, S3FM02G, 128TQFP, ROM 1 PC DB09-00596A - IC MICOM S3FM02G, 128P, DC3V, TQFP, -40~+85, 384K 1 PC	DD00 014404		ACCV LADEL MICON		-	DC
DB09-00596A - IC MICOM S3FM02G, 128P, DC3V, TQFP, -40~+85, 384K 1 PC	DR98-31449A	-	A221-TARET MICOM		1	PU
DB09-00596A         -         IC MICOM         S3FM02G, 128P, DC3V, TQFP, -40~+85, 384K         1 PC	DRQ1=017364	TC201	ASSV MICOM	15_RAC_A3050_HP_OUT, STM-1525-OA, S3FM02G, 128TQFP, ROM	1	PC
DB09-00596A - IC MICOM S3FM02G, 128P, DC3V, TQFP, -40~+85, 384K 1 PC	701100A	10201	ASSI MICOM	384KB	1	10
	DB09-005964	_	IC MICOM		1	PC
PDD0 517430 PO1 NS517LADEL MILOM  QFF, O4F, WILL, 979		001			1	_
	אנייין און און און און	001	MOSI EADEL MICOM	VII, UTI, WIII, J™J	1	10

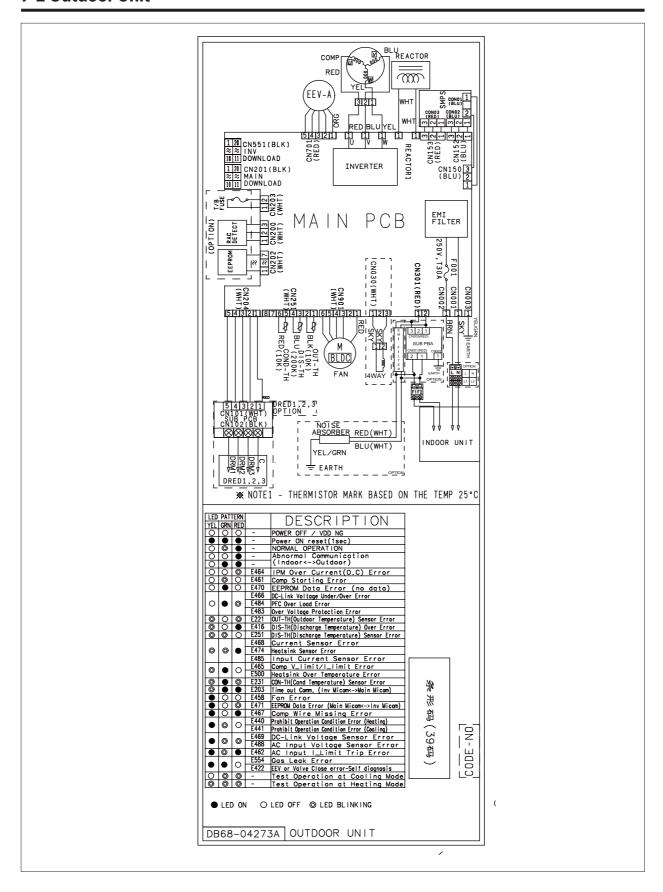
#### 7. Wiring Diagram

#### 7-1 Indoor Unit



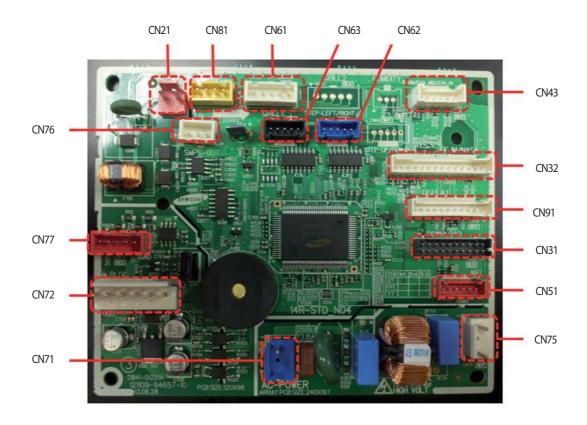
Samsung Ele ctr onic s 7-1



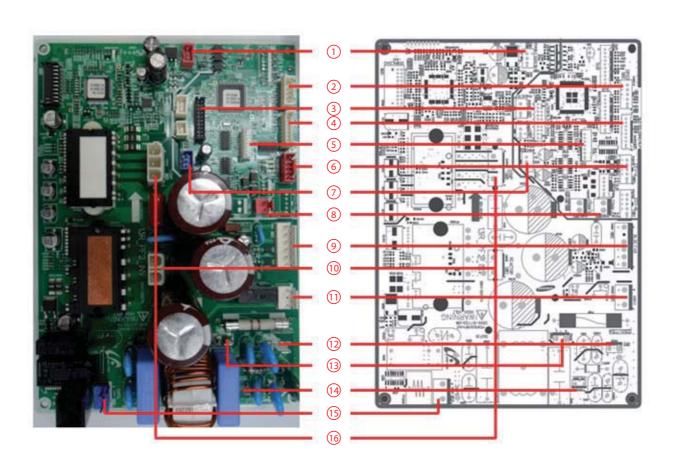


## 8. PCB Diagram

## 8-1 Indoor PCB

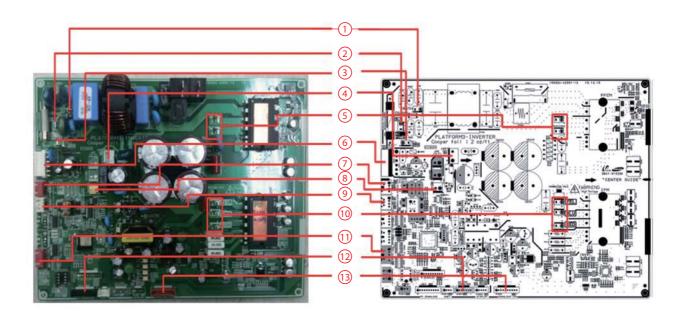


① CN61/CN62/CN63 - STEP MOTOR #1: DC 12V #2⊠#5:STEP MOTOR SIGNAL	② CN71 - POWER IN #1,#3: AC220⊠240V #2:N.C	③ CN81 - SPI #1: SPI SIGNAL #3: DC 12V	#1:WIFI UART SIGNAL1 #2:WIFI UART SIGNAL2 #3:WIFI RESET SIGNAL #4:GND #5:DC 12V #6:N.C
© CN51 - DISPLAY #1⊠#11,#14,#17⊠#20 : MICOM DOWN #12,#13,#15,#16 : N.C	(6) CN43 - TEMPERATURE SENSOR #1,#2: ROOM SENSOR #3,#4: EVA MID SENSOR #5,#6: EVA IN SENSOR	© CN21 - COMMUNICATION #1,#2:485 COMM SIGNAL	® CN72 - BLDC FAN MOTOR #1: DC 310⊠340V #2: N.C #3: AGND #4: DC 15V #5: FAN RPM #6: FAN FEEDBACK
<ul> <li>© CN32 - FJM/NASA</li> <li>#1⊠#7,#11⊠ #14: FMW/NASA SIGNAL</li> <li>#8: DC 5V</li> <li>#9: GND</li> <li>#10: DC 12V</li> </ul>	© CN75 - SMPS POWER IN #1,#3: AC220⊠240V #2:N.C	(12V/GND/5V)  #1:DC5V #2:GND #3:DC12V	© CN77 - SMPS DC OUT (19V/GND/310V) #1:DC310V⊠340V #2,#3:N.C #4:DC19V⊠27V #5:AGND
® CN31 - DOWNLOAD DOWNLOAD			



① CN151 - SMPS INV #1:15V #2:GND #3:ENABLE	© CN204 - DRED  #1 : DRED1  #2 : DRED2  #3 : DRED3  #4 : GND  #5 : 5V	③ CN201- DOWNLOAD-MAIN #1 ⊠ #20 : DOWNLAOD	(4) CN251 - SENSOR #1,#2:OUT SENSOR #3,#4: DISCHARGE SENSOR #5,#6: COND SENSOR
© CN501 - EEPROM #1 : GND #3 : 5V #4 : EEP CS #5 : EEP_SO/MICOM RX #6 : EEP_SI_MICOM_TX #7 : EEP CLK	© CN701 - EEV-A #1⊠#4 : EEV SIGNAL #5 : 12V	© CN152 - SMPS MAIN #1 :12V #2 :GND #3 :5V	® CN301 - COMMUNICATION #1 :F1 #2 :F2
<ul> <li>         © CN901 - FAN         #1 : DC 310⊠340V         #2 : N.C         #3 : AGND         #4 : DC 15V         #5 : FAN RPM         #6 : FAN FEEDBACK     </li> </ul>	© CN401- REACTOR #1 : REACTOR1 #2 : REACTOR2	① CN030 - 4WAY #1,#3 : AC220⊠240V	© CN001 - POWER-N #1 : N
(S) CN002 - POWER-L #1 :L	@ CN003-EARTH #1:EARTH	® CN150 - SMPS AC #1,#3 : AC220⊠240V	© CN402 - COMP #1 :W #2 :V #3 :U

8-2 Samsung Electronics



① EARTH - EARTH	② TB-N - POWER N	3 TB-L - POWER L	
#1:EARTH	#1:N	#1:L	
(5) REACTOR1/2 - REACTOR	© CN901 - FAN MOTOR #1: DC 310⊠340V #2: N.C #3: AGND #4: DC 15V #5: FAN RPM #6: FAN FEEDBACK	CN502 - TEMP SENSOR-OUT/DIS	® CN301 - COMMUNICATION
#1:REACTOR1		#1, #2 : OUT SENSOR	#1:F1
#1:REACTOR2		#3, #4 : DISCHARGE SENSOR	#2:F2
© CN501 - TEMP SENSOR-COND #1,#2:OLP SENSOR #3,#4:COND SENSOR	© U/V/W - COMP U:U V:V W:W	⊕ CN503 - EEV #1⊠#4 : EEV SIGNAL #5 : 12V	© CN512 - DOWNLOAD-MAIN #1⊠#10:DOWNLOAD
® CN201 - DOWNLOAD-INV #1⊠#10: DOWNLOAD			

## 8-3 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 : 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

8-8 Samsung Electronics

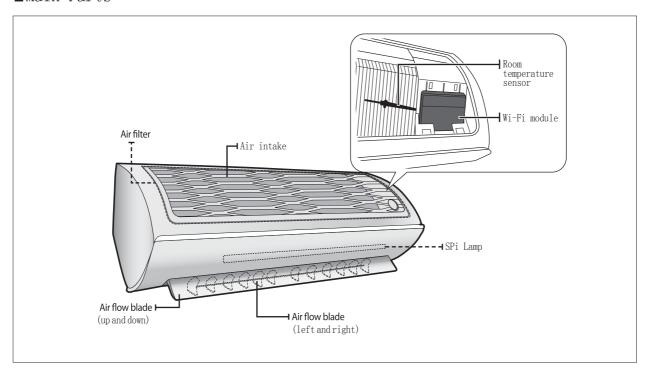
## 9. Operating Instructions

## 9-1 Name of Each Part

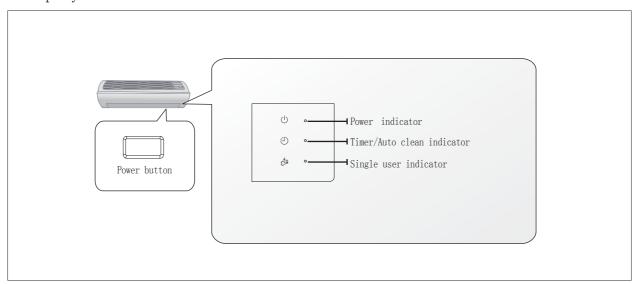
#### 9-1-1 Indoor Unit

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

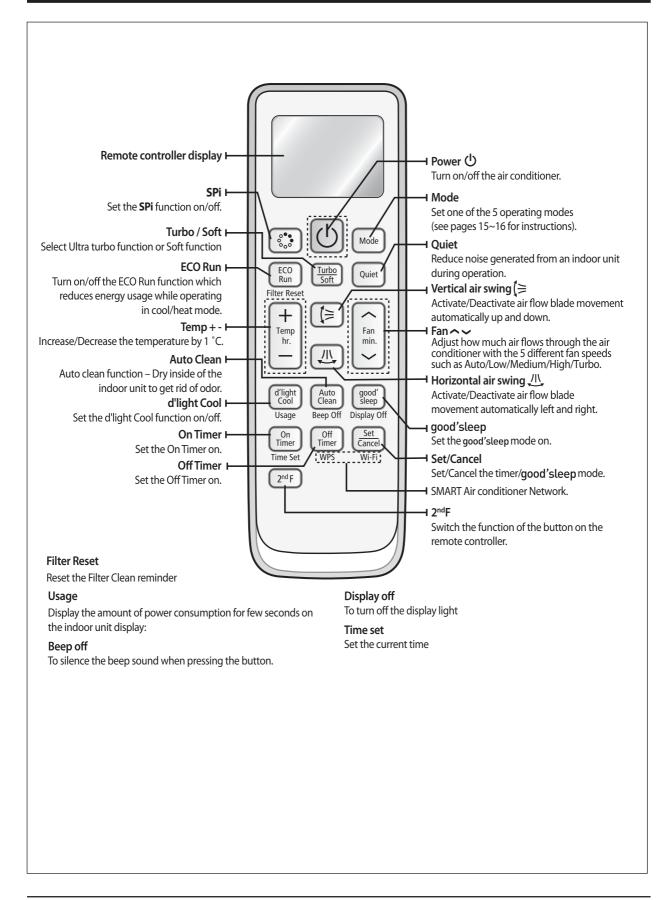
#### ■Main Parts



## ■ Display



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



9-2 Samsung Electronics

## 10. Troubleshooting

#### 10-1 Items to be checked first

- 1. The input voltage should be rating voltage  $\pm 10 \mbox{\ensuremath{\boxtimes}}\$  range. The air conditioner may not operate properly if the voltage is out of this range.
- 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	E⊠planation	
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	<ul> <li>[In case of heat pump model]</li> <li>Compressor of the outdoor unit is operating although it is turned off in a HEAT mode.</li> </ul>	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 Communication Error**

#### **Indoor display**

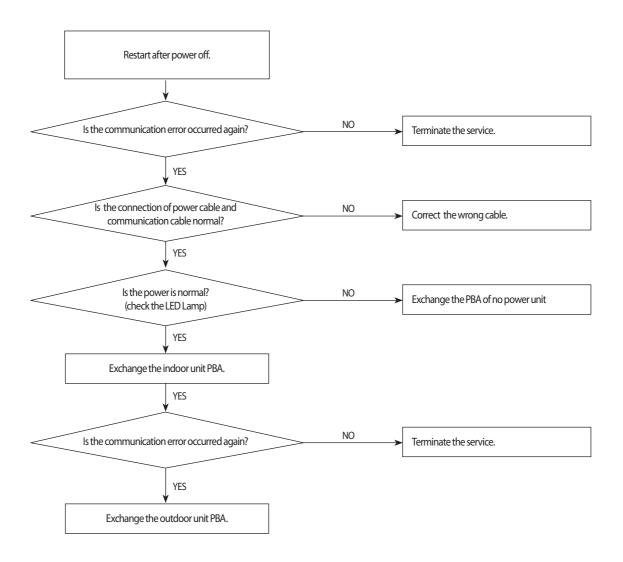
3-LED DISPLAY		7-SEG DISPLAY	DESCRIPTION	
LED1	LED2	LED3	F101/F102	
0	•	•	E101/E102	Communication error(Indoor<->outdoor)

#### **Outdoor display**

<b>O</b>	•	•	1min. Time out Comm.
0	0	•	Al-
0	•	•	Abnormal Communication

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

#### 2. Troubleshooting procedure



10-2 Samsung Electronics

#### 10-2-2 Indoor temperature sensor Error

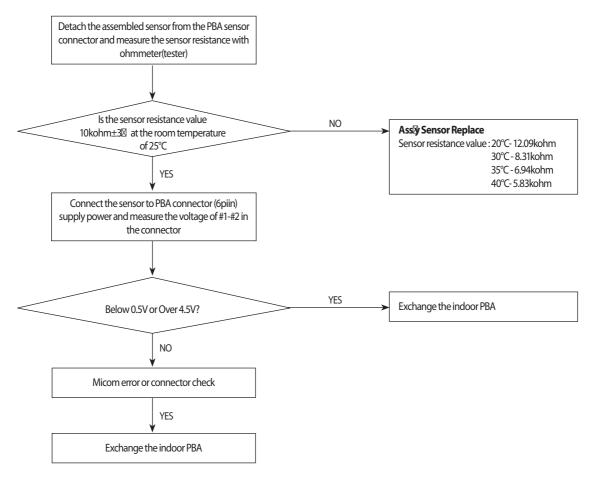
#### **Indoor display**

7-SEG DISPLAY	DESCRIPTION	
E121	Indoor room temp sensor error	

#### 1. Checklist:

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

#### 2. Troubleshooting procedure



#### 10-2-3 Indoor Eva-in temperature sensor error

#### **Indoor display**

3-LED DISPLAY		7-SEG DISPLAY	DESCRIPTION	
LED1	LED2	LED3	F122 F122	I I MID I I INDIDETH
0	0	0	E122,E123	Indoor MID, Indoor IN PIPE-TH sensor error

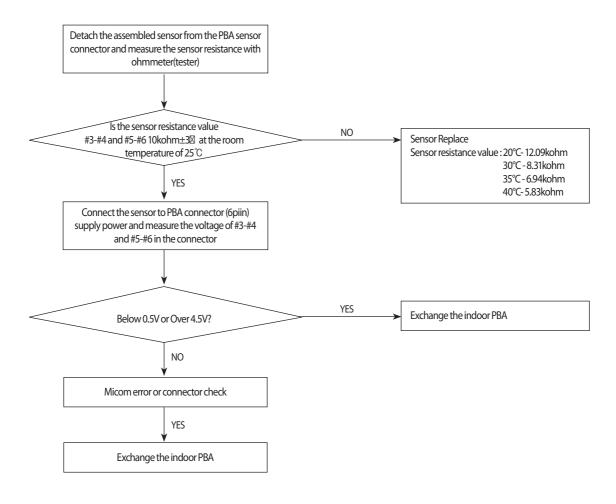
#### LED ON

□ 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



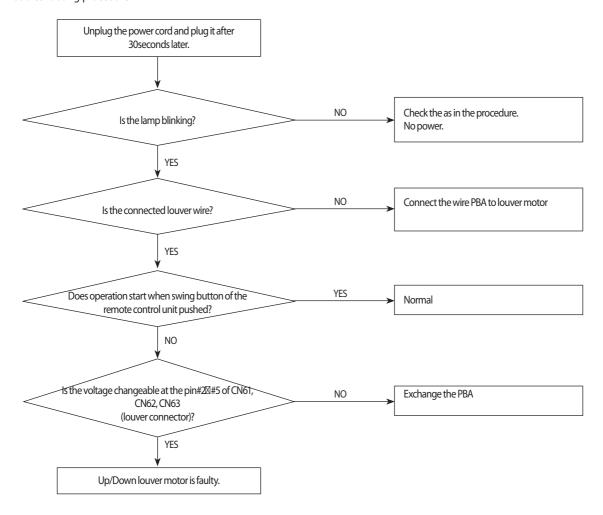
10-4 Samsung Electronics

## 10-2-4 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



#### 10-2-5 Indoor fan motor speed detecting error (BLDC fan)

#### **Indoor display**

3-LED DISPLAY		7-SEG DISPLAY	DESCRIPTION	
LED1	LED2	LED3	F1.F4	
0	0	0	E154	Indoor fan error

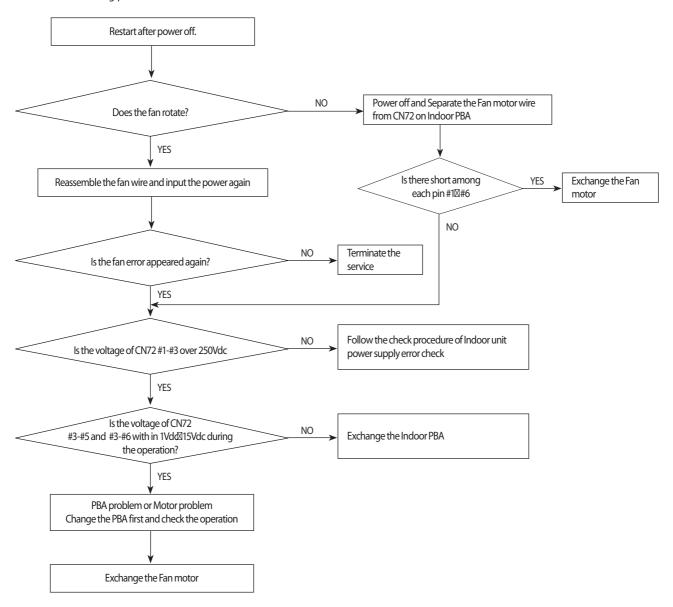
#### LED ON

□ LED BLINKING ○ LED OFF

#### 1. Checklist:

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

#### 2. Troubleshooting procedure



10-6 Samsung Electronics

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

#### **Indoor display**

3-LED DISPLAY		7-SEG DISPLAY	DESCRIPTION	
LED1	LED2	LED3	F221	0.44
0	0	0	E221	Outdoor temperature sensor error

#### **Outdoor display**

0	0	0	Outdoor temperature sensor error

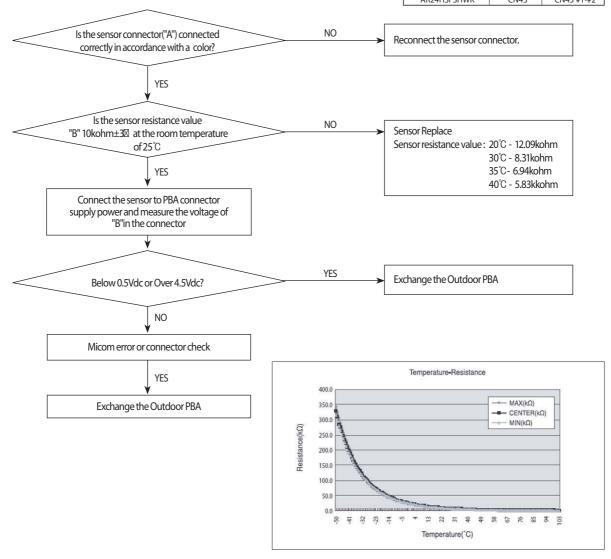
- LED ON
- □ LED BLINKING LED OFF

#### 1. Checklist:

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

#### 2. Troubleshooting procedure

MODEL	"A"	"B"
AR12(09)HSFSHWK	CN251	CN251 #1-#2
AR18HSFSHWK	CN502	CN502 #1-#2
V D3VHCECH/WK	CN13	CN/12 #1_#2



#### 10-2-7 Outdoor Coil temperature sensor error

#### **Indoor display**

3-LED DISPLAY		7-SEG DISPLAY	DESCRIPTION	
LED1	LED2	LED3	F221	
0	0	0	E231	Outdoor Cond temperature sensor error

#### **Outdoor display**

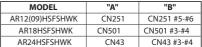
0	•	0	Outdoor Cond temperature sensor error

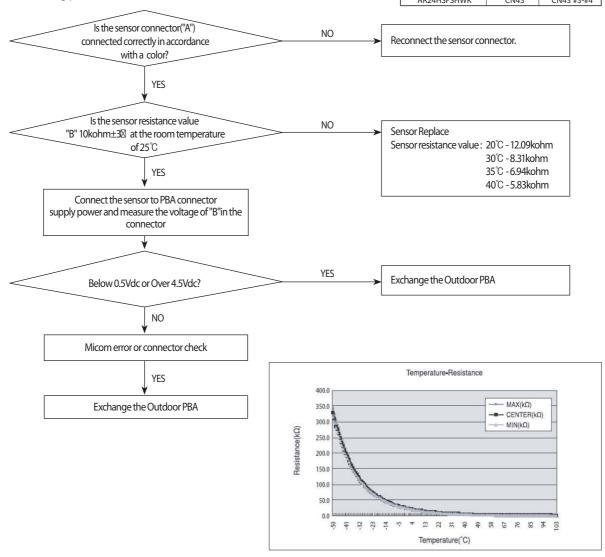
- LED ON

#### 1. Checklist:

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

#### 2. Troubleshooting procedure





10-8 Samsung Electronics

#### 10-2-8 Outdoor Discharge temperature sensor error

#### **Indoor display**

3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	E251	Outdoor Discharge temperature
0	0	0	E251	sensor error

#### **Outdoor display**

0	0	0	Outdoor Discharge temperature sensor error

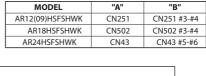
● LED ON ◎ LED BLINKING ○ LED OFF

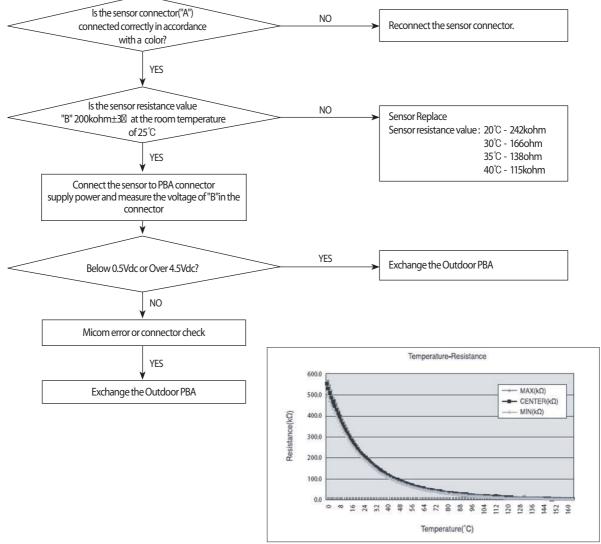
#### 1. Checklist:

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

4) Is the resistance value of sensor connection pull-up correct?

#### 2. Troubleshooting procedure





#### 10-2-9 Outdoor Discharge over temperature error

#### **Indoor display**

3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	E416	0 11 0 1
0	0	0	E416	Outdoor Discharge over temperature error

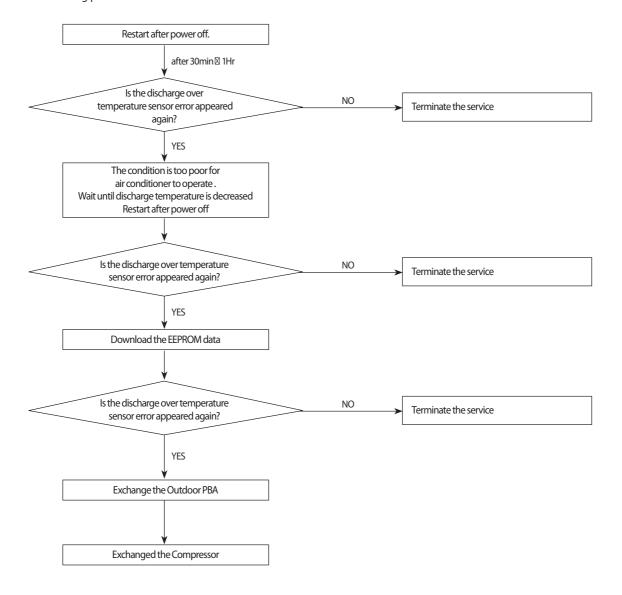
#### **Outdoor display**

0	0	•	Outdoor Discharge over temperature error

#### 1. Checklist:

- 1) Check the discharge temperature in the outdoor unit
- 2) Check the compressor locking or gas leak
- 3) Download the EEPROM data

#### 2. Troubleshooting procedure



10-10 Samsung Electronics

#### 10-2-10 Outdoor Fan motor error

#### **Indoor display**

	3-LED DISPLAY		7-SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	F4F0	Outless for some
0	0	0	E458	Outdoor fan error

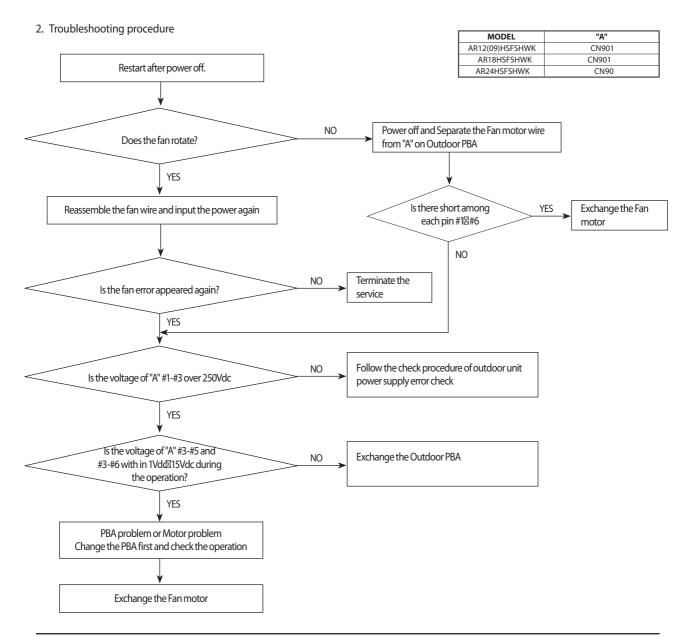
#### **Outdoor display**

	4		
•	0	0	Outdoor fan error

- LED ON
- O LED OFF

#### 1. Checklist:

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



## 10-2-11 Compressor starting error

#### **Indoor display**

	3-LED DISPLAY		7-SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	F461	Comments at the comments of th
0	0	0	E461	Comp starting error

#### **Outdoor display**

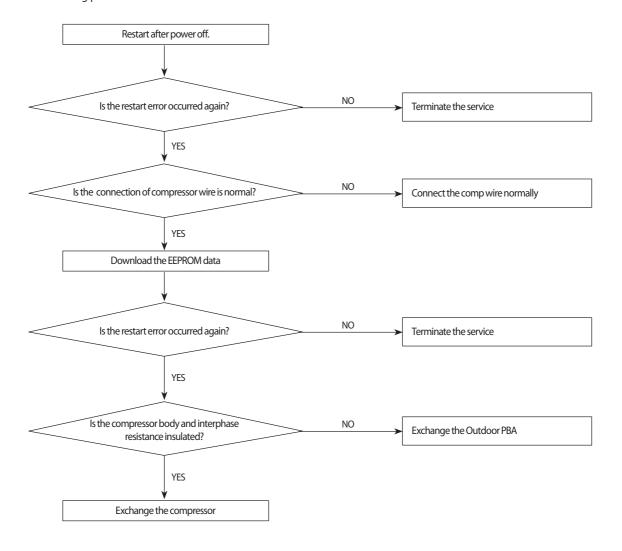
0	0	Comp starting error

● LED ON ◎ LED BLINKING ○ LED OFF

#### 1. Checklist:

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

#### 2. Troubleshooting procedure



10-12 Samsung Electronics

#### 10-2-12 Compressor wire missing error/rotation error

#### **Indoor display**

3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	F467	Compressor wire missing
0	0	0	E467	errorr/rotation error

#### **Outdoor display**

● Compressor wire missing error/rotation error				
	•	0	•	Compressor wire missing error/rotation error

● LED ON

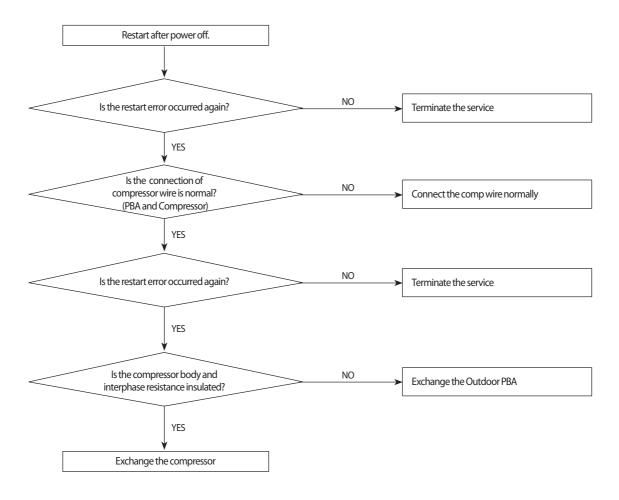
□ LED BLINKING

O LED OFF

#### 1. Checklist:

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

#### 2. Troubleshooting procedure



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

#### **Indoor display**

3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	F464	IDM 0
0	0	0	E464	IPM Over Current(O.C) Error

#### **Outdoor display**

0	0	0	IPM Over Current(O.C) Error

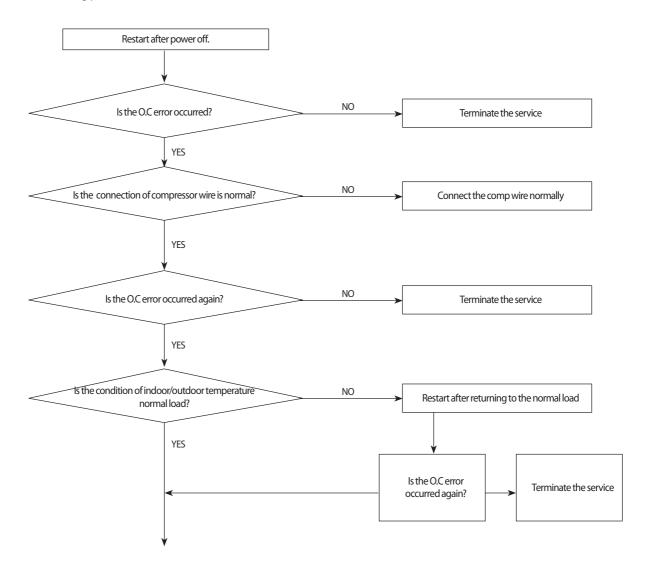
• LED ON

O LED OFF

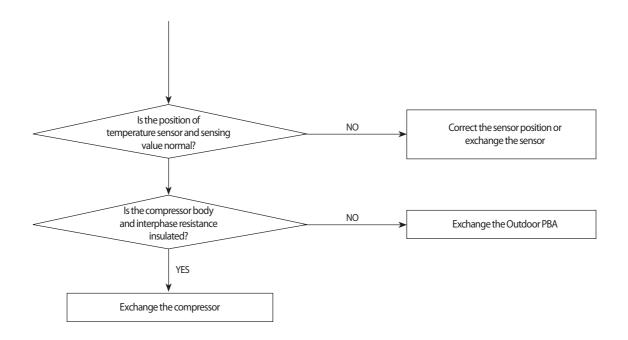
#### 1. Checklist:

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

#### 2. Troubleshooting procedure



10-14 Samsung Electronics



#### 10-2-14 DC\_link voltage sensor error

#### **Indoor display**

3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	F460	DC II I II
0	0	0	E469	DC_link voltage sensor error

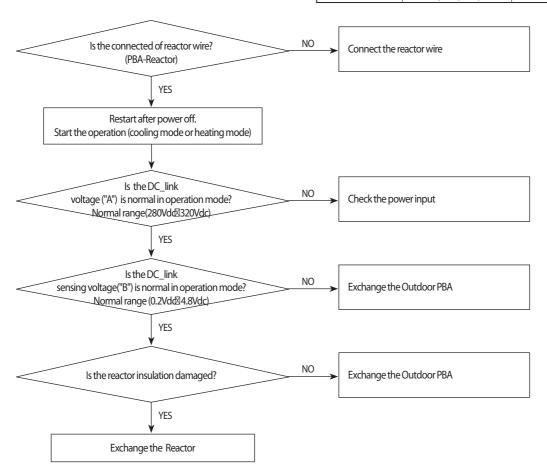
#### **Outdoor display**

•	0	0	DC_link voltage sensor error

#### 1. Checklist:

- 1) Is the input voltage of outdoor terminal block is normal?
- 2) Is the reactor wire connected?
- 3) Is the DC\_link capacitor("A") assembled in accordance the specification? (Outdoor PBA)
- 4) Is the DC\_link resistor("B") value is normal? (Outdoor PBA)





10-16 Samsung Electronics

## 10-2-15 DC\_link voltage sensor error

#### **Indoor display**

3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	F400	AC In and Valtage Course Fores
0	0	0	E488	AC Input Voltage Sensor Error

#### **Outdoor display**

•	0	0	AC Input Voltage Sensor Error

● LED ON ◎ L

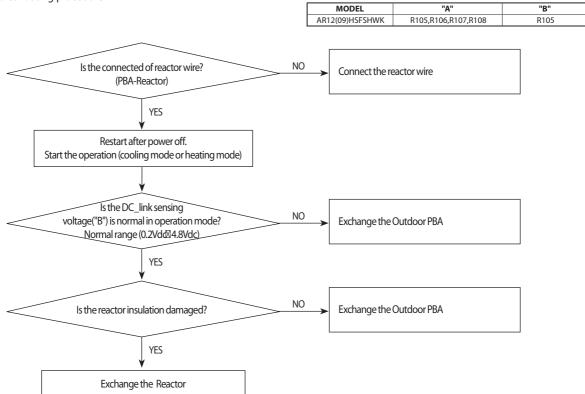
□ LED BLINKING

O LED OFF

#### 1. Checklist:

- 1) Is the input voltage of outdoor terminal block is normal?
- 2) Is the reactor wire connected?
- 3) Is the PFC resistor("A") value is normal? (Outdoor PBA)

#### 2. Troubleshooting procedure



#### 10-2-16 DC\_link voltage under/over error, H/W DC-link Over voltage protection error/PFC over load

#### **Indoor display**

3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	E466	DC-Link voltage under/over error
©			E483	Over Voltage Protection Error
			E484	PFC over load

#### **Outdoor display**

			DC-Link voltage under/over error
0	•	0	PFC over load
			Over Voltage Protection Erro

- LED ON
- □ LED BLINKING
- O LED OFF

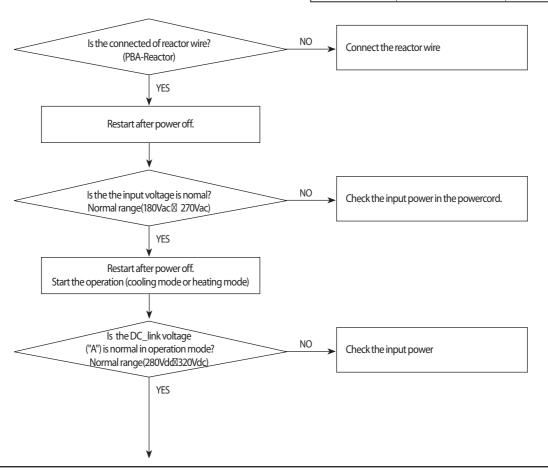
#### 1. Checklist:

- 1) Is the input voltage of outdoor terminal block is normal?
- 2) Is the input voltage is higher than 300Vac?
- 3) Is the reactor wire connected?
- 4) Is the DC\_link capacitor(A") assembled in accordance the specification? (Outdoor PBA)
- 5) Is the DC\_link resistor("B") value is normal? (Outdoor PBA)
- 6) Is the PFC resistor("C") value is normal? (Outdoor PBA)

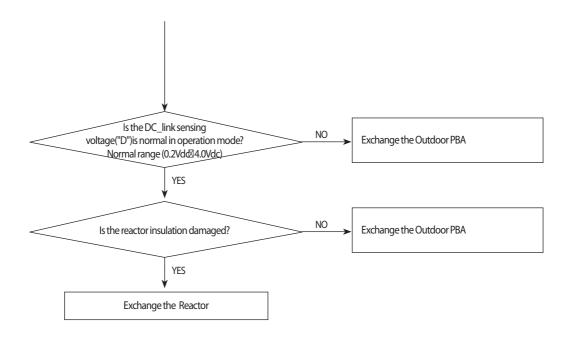
MODEL	"A"	"B"
AR12(09)HSFSHWK	CE101,CE102,CE103	R101,R102,R103,R104
AR18HSFSHWK	CE001,CE002,CE003,CE004	R004,R005,R006,R007
AR24HSFSHWK	C141,C142,C143,C144	R141-R147

# MODEL "C" "D" AR12(09)H5F5HWK R105,R106,R107,R108 R101,R105 AR18H5F5HWK "-" R004 AR24H5F5HWK "-" R146

#### 2. Troubleshooting procedure



10-18 Samsung Electronics



#### 10-2-17 I\_trip error, PFC over current

#### **Indoor display**

3-LED DISPLAY		7-SEG DISPLAY	DESCRIPTION	
LED1	LED2	LED3	F462	AC la se et la lisa it Tria Form
0	0	0	E462	AC Input I_Limit Trip Error

#### **Outdoor display**

O AC Input I_Limit Trip Error	
-------------------------------	--

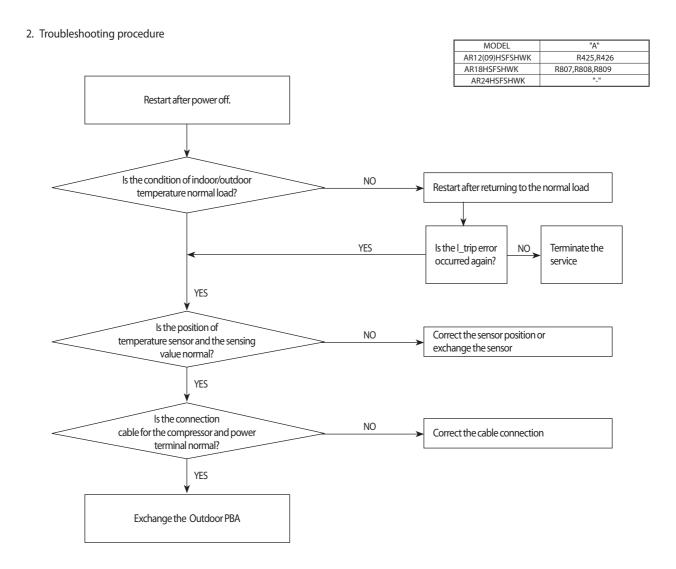
● LED ON ◎ LE

□ LED BLINKING

O LED OFF

#### 1. Checklist:

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



10-20 Samsung Electronics

#### 10-2-18 Current sensor error/Input current sensor error

#### **Indoor display**

3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	7-SEG DISPLAT	DESCRIPTION
0	0	0	E462	AC Input I_Limit Trip Error

#### **Outdoor display**

		Current sensor error
	•	Input current sensor error

LED ON

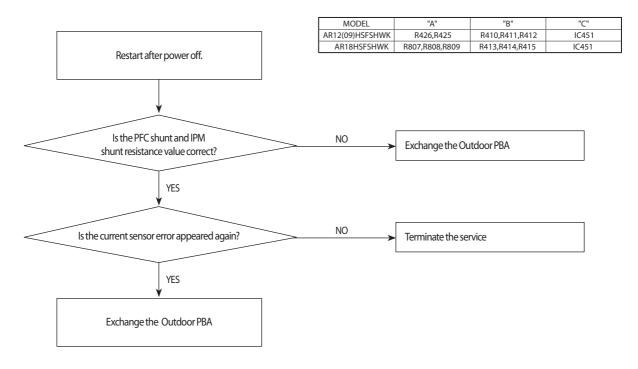
□ LED BLINKING

O LED OFF

#### 1. Checklist:

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

#### 2. Troubleshooting procedure



#### 10-2-19 Heatsink sensor error/Heatsink over heat

#### **Indoor display**

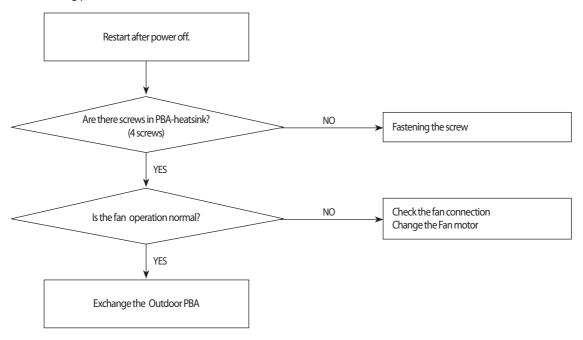
3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION
LED1	ED1 LED2 LED3		7-3EG DISPLAT	DESCRIPTION
	0	0 0 -	E474	Heatsink sensor error
0		0	E500	Heatsink Over Temperature Error

#### **Outdoor display**

0	0	•	Heatsink sensor error
0	•	0	Heatsink Over Temperature Error

- 1. Checklist:
  - 1) Are there screws assembly in PBA-heatsink?
  - 2) Is the gap PBA-heatsink
  - 3) Is the fan operation normal?
  - 4) Is the cover assembly in control-box normal?

#### 2. Troubleshooting procedure



10-22 Samsung Electronics

#### 10-2-20 Comp Vlimit error

#### **Indoor display**

3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION	
LED1	LED2	LED3	7-SEG DISPLAT	DESCRIPTION	
0	0	0	E465	Comp V_limit/I_limit Error	

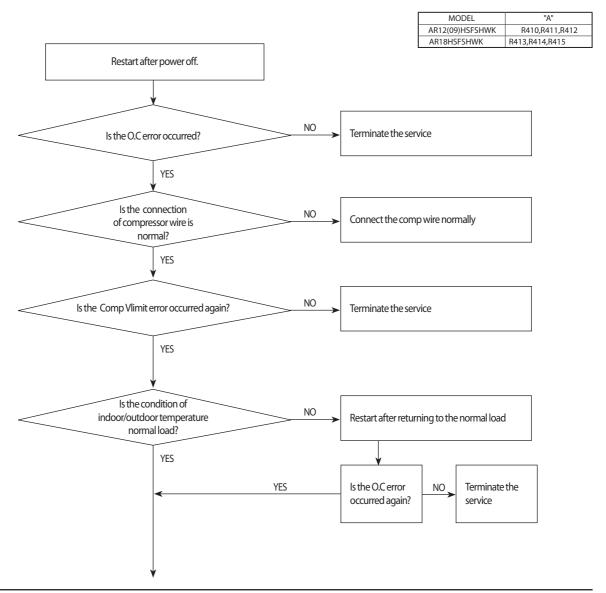
#### **Outdoor display**

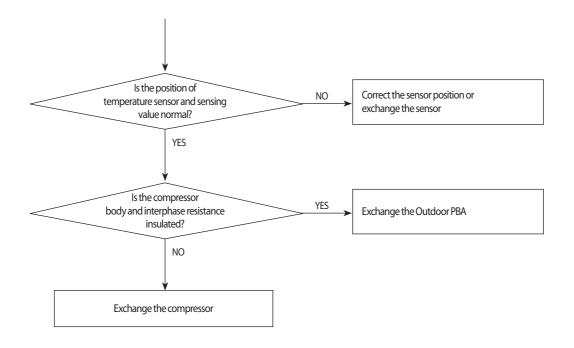
0	•	0	Comp V_limit/I_limit Error

#### 1. Checklist:

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

#### 2. Troubleshooting procedure





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#### 10-2-21 EEPROM error/OTP error

#### **Indoor display**

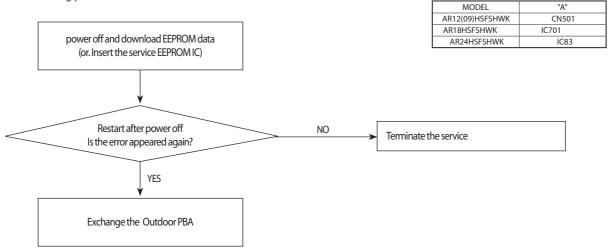
3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION
LED1	LED2	LED3	7-SEG DISPLAT	DESCRIPTION
			E470	EEPROM Data Error (no data)
0	0	0	E471	OTP errorEEPROM Data Error
			E47 I	(Main Micom↔Inv Micom)

#### **Outdoor display**

0	•	0	EEPROM Data Error (no data)
•	0	0	OTP errorEEPROM Data Error (Main Micom↔Inv Micom)

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

#### 2. Troubleshooting procedure



#### 10-2-22 Operation condition secession error

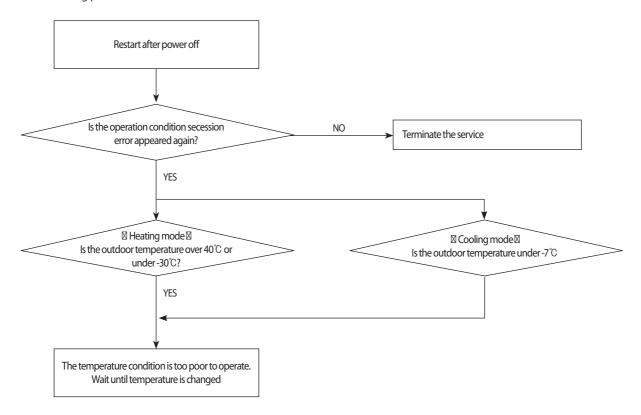
#### **Indoor display**

3-LED DISPLAY		7-SEG DISPLAY	DESCRIPTION		
LED1	ED1 LED2 LED3		7-SEG DISPLAT	DESCRIPTION	
		E440	E440	Prohibit Operation Condition Error (Heating)	
©		©	E441	Prohibit Operation Condition Error (Cooling)	

#### **Outdoor display**

•	0	0	Operation condition secession

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



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#### 10-2-23 Gas leak error

#### **Indoor display**

3-LED DISPLAY			7-SEG DISPLAY	DESCRIPTION	
LED1	LED2	LED3	7-SEG DISPLAT	DESCRIPTION	
0	0	0	E554	GAS Leak error	

#### **Outdoor display**

•	•	0	GAS Leak error

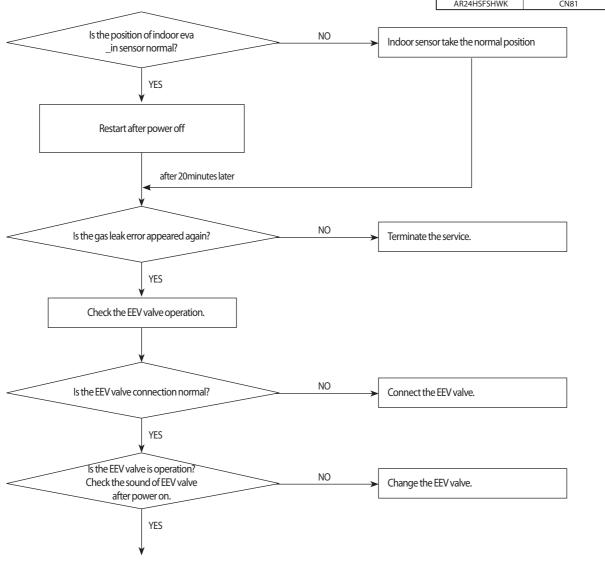
- LED ON
- O LED OFF

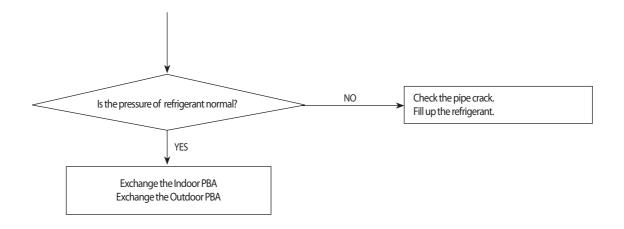
#### 1. Checklist:

- 1) Is the position of indoor Eva\_in sensor normal?
- 2) Check the pipe crack
- 3) Check the EEV valve connection("A") in Outdoor unit
- 4) Check the refrigerant was charged

#### 2. Troubleshooting procedure

MODEL	"A"
AR12(09HSFSHWK	CN701
AR18HSFSHWK	CN503
A DO ALICECLIMAN	CNO1





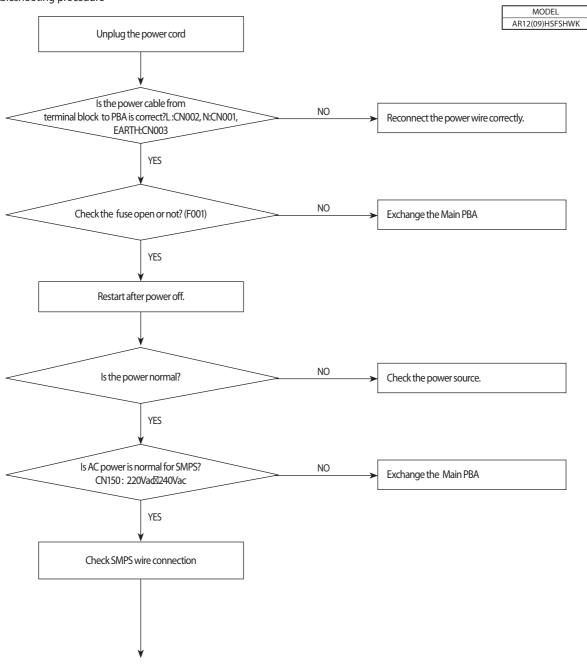
10-28 Samsung Electronics

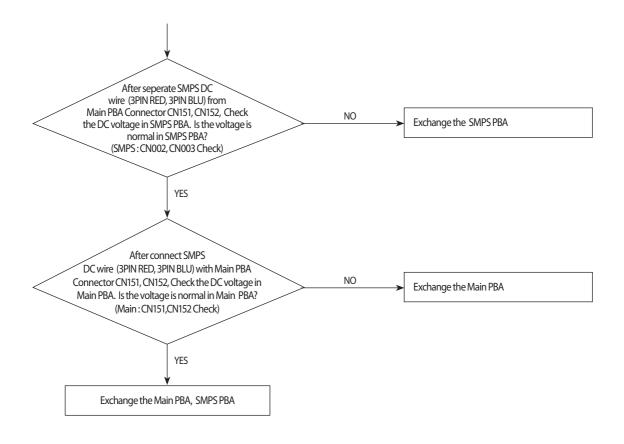
#### 102-24 No power outdoor (Initial Diagnosis) (Not displayed)

#### 1. Checklist:

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

#### 2. Troubleshooting procedure



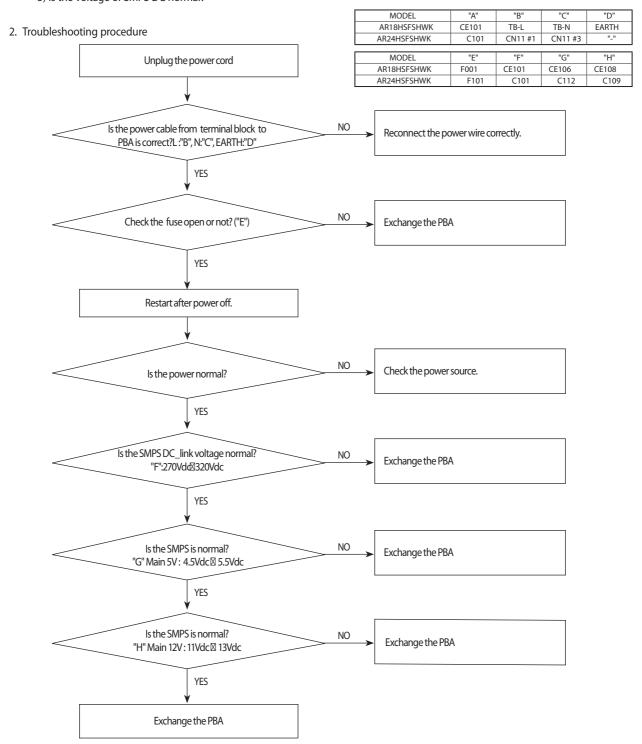


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# 10-2-25 No power outdoor (Initial Diagnosis) (Not displayed)

### 1. Checklist:

- 1) Is input power normal?
- 2) Is AC power linked correctly? (L,N,E)
- 3) Is mis-wiring between communication wire and Power wire?
- 4) Is input voltage of SMPS DC-link capacitor("A") normal?
- 5) Is the voltage of SMPS DC normal?



# 10-2-26 AC zero cross signal error

# **Indoor display**

	3-LED DISPLAY		7-SEG DISPLAY	DESCRIPTION	
LED1	LED2	LED3	7-SEG DISPLAT	DESCRIPTION	
© 0 ©		E472	AC zero cross signal error		

# **Outdoor display**

●
---

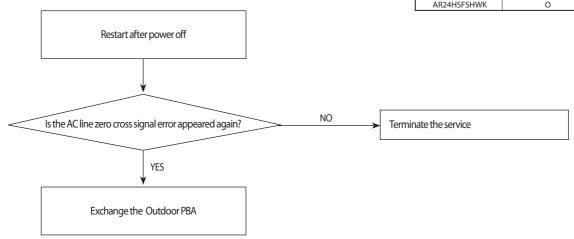
- LED ON
- □ LED BLINKING
- O LED OFF

## 1. Checklist:

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

# 2. Troubleshooting procedure





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# 10-2-27 AC zero cross signal error

# **Indoor display**

	3-LED DISPLAY		7-SEG DISPLAY	DESCRIPTION
LED1 LED2		LED3	7-SEG DISPLAY DESCRIPTION	DESCRIPTION
0	0	0	E556	Capacity miss match error

## **Outdoor display**

0	0	0	Capacity miss match error

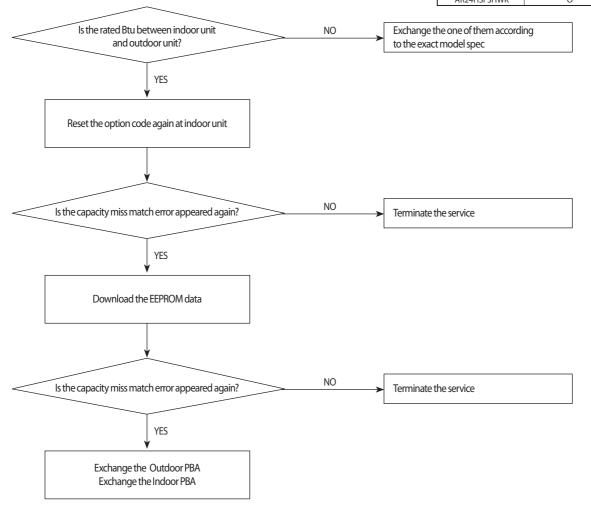
● LED ON ◎ LED BLINKING ○ LED OFF

### 1. Checklist:

- 1) Check the Btu between indoor and outdoor unit
- 2) Check the indoor unit option and outdoor unit EEPROM data

## 2. Troubleshooting procedure

MODEL	Error display
AR12(09)HSFSHWK	Х
AR18HSFSHWK	0
V D34HCECH/V/K	0



# 10-2-28 When the remote control is not receiving

## 1. Checklist:

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

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# 10-2-29 EEV or Valve Close error-Self diagnosis

# **Indoor display**

	3-LED DISPLAY		7-SEG DISPLAY	DESCRIPTION	
LED1	LED2	LED3	7-SEG DISPLAT	DESCRIPTION	
0	0 0		E422	EEV or Valve Close error-Self diagnosis	

## **Outdoor display**

	•		
•	•	0	EEV or Valve Close error-Self diagnosis

LED ON

□ LED BLINKING

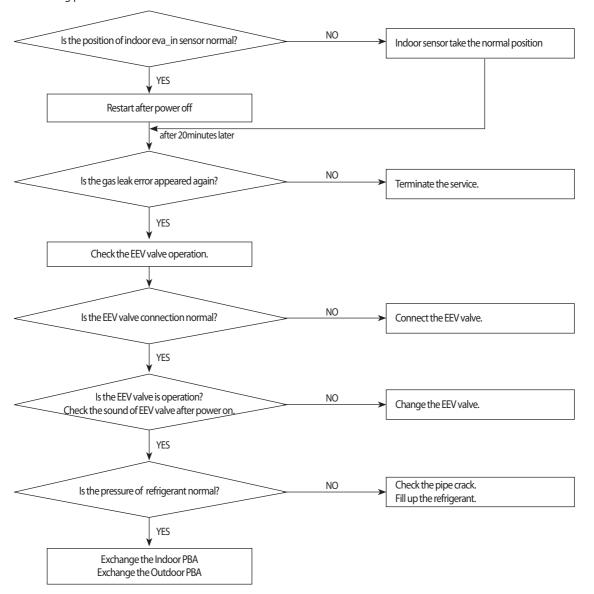
O LED OFF

### 1. Checklist:

- 1) Is the position of indoor Eva\_in sensor normal?
- 2) Check the pipe crack
- 3) Check the EEV valve connection("A") in Outdoor unit
- 4) Check the refrigerant was charged

MODEL	"A"
AR12(09)HSFSHWK	CN701
AR18HSFSHWK	CN503
AR24HSFSHWK	CN81

### 2. Troubleshooting procedure

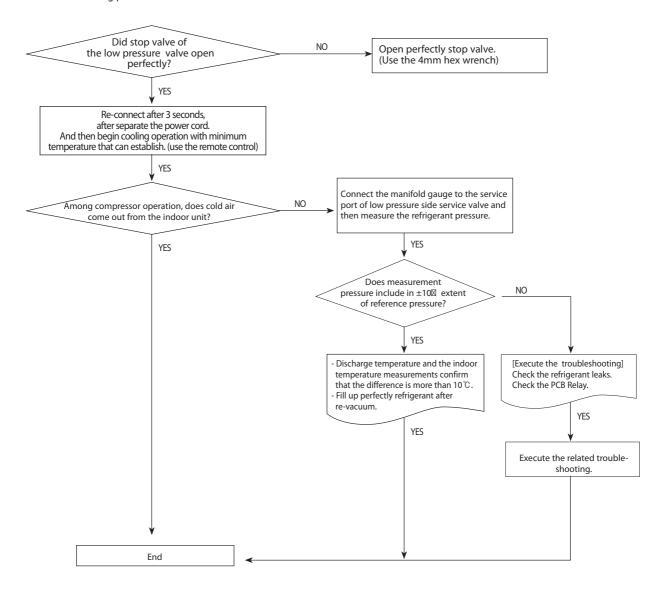


### 10-2-30 10-3-18 Smart Install error

#### 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



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# 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.	<ul><li>1) Is 1st fuse disconnected?</li><li>2) Is 2nd fuse disconnected?</li></ul>	. Over current Indoor Fan motor short AC part and pattern short of Indoor PBA.
		Check the power voltage	
	Supply power If the operating lamp	1) Is the BD71 input voltage 200Vac ⊠240Vac?	. Power cord is fault, Fuse open, Wrong Power cable Wiring, AC part is faulty.
2	twinkles at this time , the above 1)⊠3) have no relation.	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.
	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.
3		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)

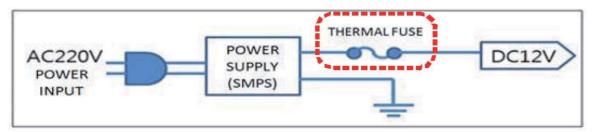


Terminal Block Internals



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

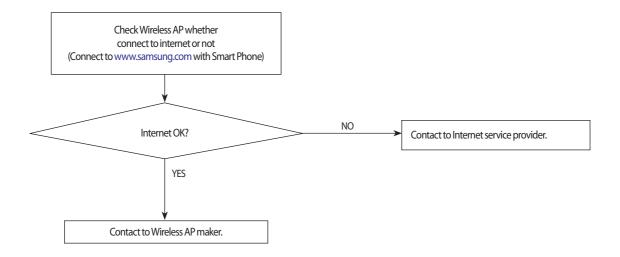


Defective

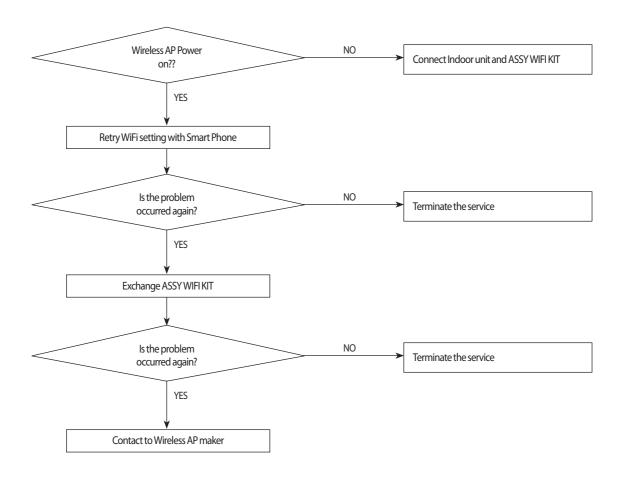
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# **10-4 ASSY WIFI KIT Inspection Method**

# 10-4-1 Status-LED Blinking with interval 0.5s



# 10-4-2 Status-LED Blinking with interval 3s

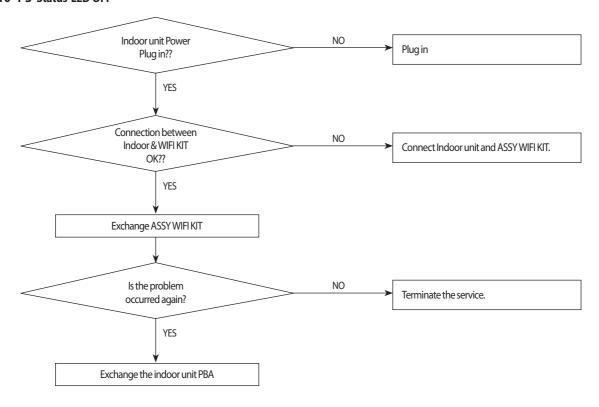


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### << Status LED Indication >>

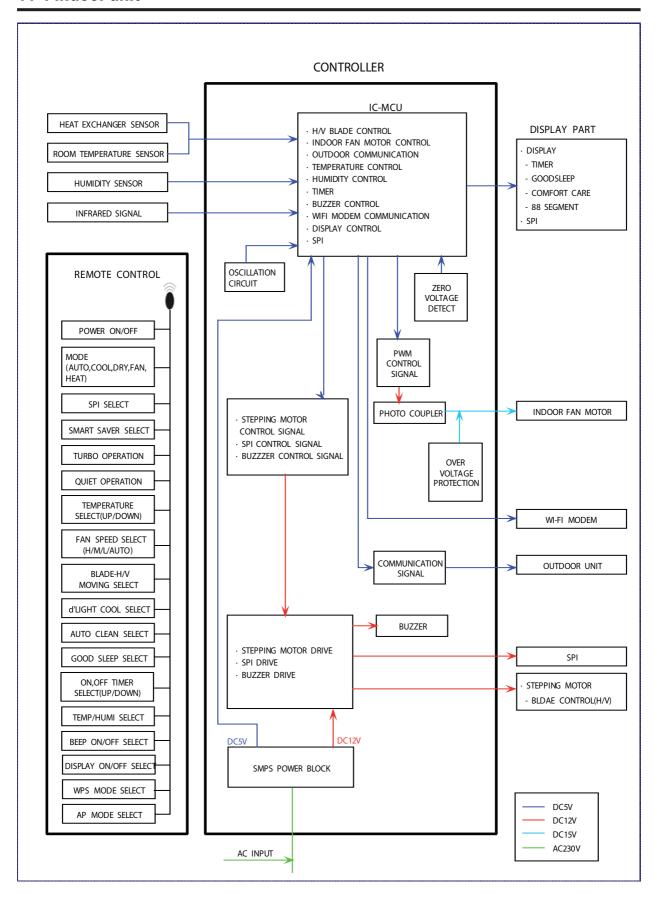
- 1. LED ON: Connected with AP & INTERNET
- 2. LED Blinking (Interval of 0.5s): Connected with AP but not connected with INTERNET
- 3. LED Blinking (Interval of 3s): Not connected with AP
- 4. LED OFF: Not connected with Air Conditioner

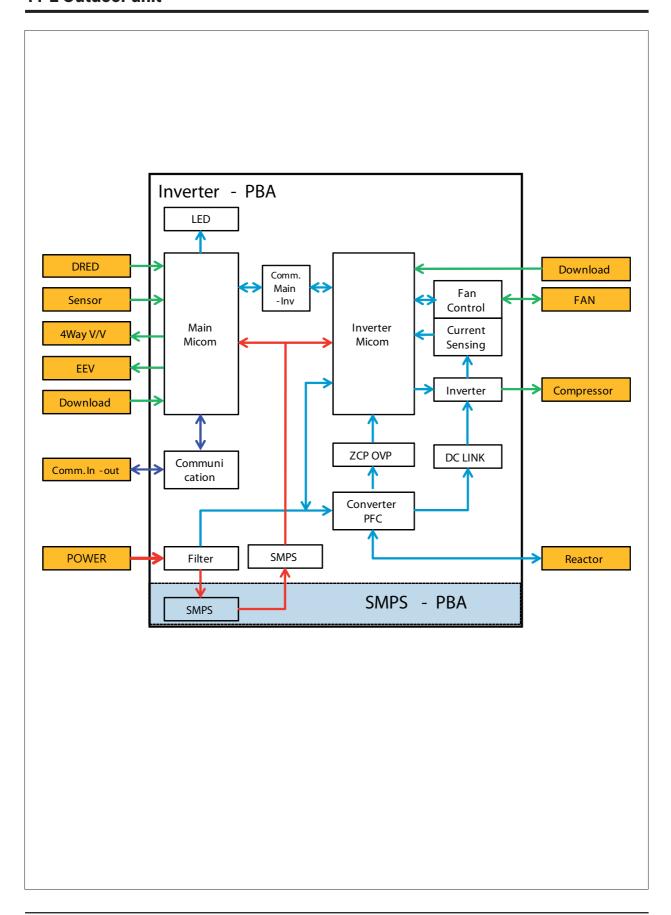
#### 10-4-3 Status-LED OFF



# 11. Block Diagram

## 11-1 Indoor unit





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# 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
		Check the power voltage	
	Supply power	1) is the BD/T input voltage 200Vac~240Vac? Wrong Power	. Power cord is fault, Fuse open, Wrong Power cable Wiring, AC part is faulty
2	If the operating lamp twinkles at this time, the above 1)~3) have no relation	2) Is the voltage between both ter- minal of IC02 pin #1-#2 12Vdc?	. Switching Trans of Power circuit is faulty
		3) Is the voltage between both ter- minal of IC02 pin #2-#3 5Vdc?	. Power circuit is faulty, Load short
		1) Is the voltage over AC 180V being imposed on terminal #3-#5 of fan motor connector (CN72)?	. Fan motor of the indoor is faulty
3	Press the ON/OFF button 1. Fan speed(high) 2. Continuous Operation	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			. Wrong assembly . Installation(service) condition is bad
		Check the power voltage	
		1) Is the voltage between Terminal block L-N 200Vac~240Vac?	. Power cord is faulty, Wrong Power cable Wiring
	"Supply power and operate the set (Use Remote-control, button in indoor set)"	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
3		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

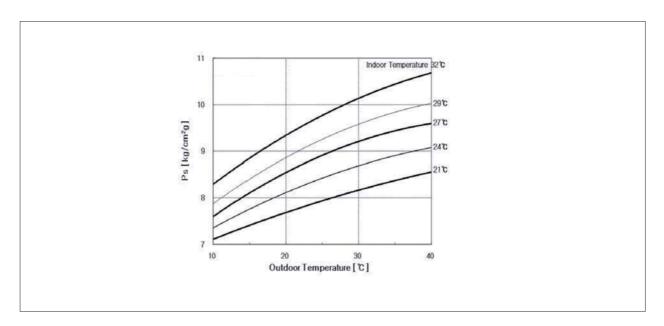
11-4 Samsung Electronics

# 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	НР	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	3.9302x10⁴	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			
	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.			
Cooling	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.			
Cooling	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	t fails to do cooling.			
	Α	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.			
	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.			
Leakage	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.			
	Q	Whenever the air conditioner is turned on, it irritates my eyes and gives me a headache.			
Smells	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.			

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Classification	Class	Description				
	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.				
Smells	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.				
Jillelis	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.				
	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 card-board 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.				
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 turnoff 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
	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?
Installation	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 passersby and the current facilities shall be corrected by MAY 31 st 2005." So, please install it higher than 2 m or not to blow the hot exhausting air directly to passers-by.
	Q	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.

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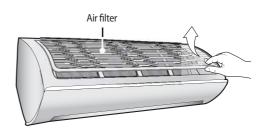
# 12-4 Cleaning /Filter Change

### 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.

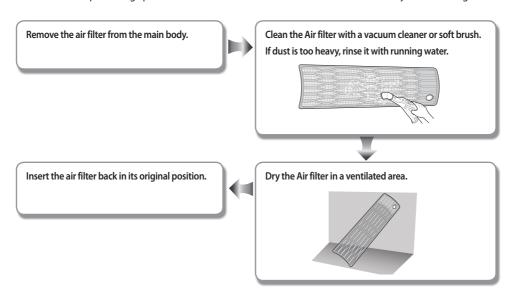
# Removing the Air filter

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.





- 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

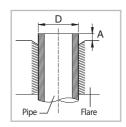
Fix the air conditioner indoor unit securely to the wall. Secure the outdoor unit in a suitable position.

#### ■ 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.

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# 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.



 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.



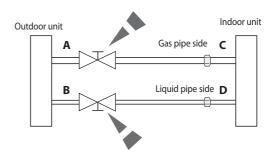
5) Set valve cork of both liquid side and gas side of packed valve to the open position.

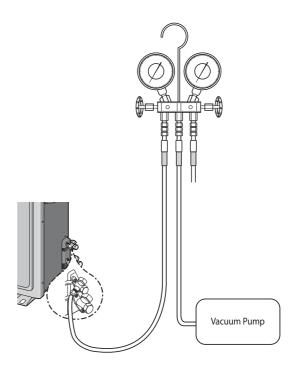


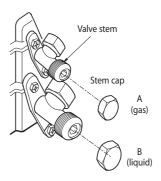
6) Mount the valve stem nuts to the 2 way and 3 way valve. And mount the service port cap to 3 way valve.



- 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.

3 way Valve

2 way Valve

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



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



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



4) Turn the 3 way valve clockwise to close.



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



6) Stop operation of the air conditioner.



7) Close the cap of each valve.



#### Relocation of the air conditioner

- Refer to this procedure when the unit is relocated.
- Carry out the pump down procedure (refer to the details of 'pump down').
- Remove the power cord.
- Disconnect the assembly cable from the indoor and outdoor units.
- Remove the flare nut connecting the indoor 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.

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# 12-7.Reference Sheet

# **Index for Model Name**

 $\ensuremath{\,\%\,}$  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
Pro.	ject	Capa	city	Sell	Fea	ture	Ser	ies	Co.	lor	Unit	Exp	ort
A	R	0	9	H	S	F	S	H	W	K	N/X	С	V
A	R	1	2	H	S	F	S	H	W	K	N/X	С	V
A	R	1	8	H	S	F	S	Н	W	K	N/X	С	V
Α	R	2	4	Н	S	F	S	Н	W	K	N/X	С	V

ITEM	1ST	2ND
RAC	Α	R
FAC	Α	F
WAC	Α	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	Е
13Year	F
14Year	Ι
15Year	J
16Year	K

ltem	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 AF	$\ensuremath{R}^{**}FSSSCUR/SA$ ,the 7TH $% \ensuremath{T}$ is "S", but there is no virus doctor in these models.		

9TH DIGIT				
Export	1st MODEL	Α		
Export	2nd	В		
Export	3rd MODEL	С		
Export	4th MODEL	D		
Export	5th MODEL	Е		

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

Division	Series	Project	Color Name	Division component	Sinkeolreo code (10TH,11TH)	Remark
	F	Best	Twilight	Grille	WK	
	F	Best	TBD	Grille	TBD	
	D	Better	Twilight	Grille	WK	
A 2050	D	Better	TBD	Grille	TBD	
A3050	S	Good1	Twilight	Grille	WK	Deco: Transparency
	S	Good1	Midnight Blue	Deco	UR	Grille: Twilight
	Ν	Good2	Twilight	Grille	WK	
	Ν	Good2	TBD	Grille	TBD	Grille : Metalic Gray

Item1	Item2	12TH
Export	SET	/
Export	IN	Ν
Export	OUT	Х

	Item	The existing code	The sales area	CIS Desription	The integrated code (13TH,14TH)
I	1	XCV	America	AMERICA (XCV	CV

• Except the RAC Export Models for China.

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