

# Contents

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# 1. SPECIFICATIONS

i DSB-070L

ITEM		MODEL	DSB-070L	
Function		Cooling		
Class		T		
Power		AC 220-240V / 50Hz		
Capacity		W	2,051	
		Btu/h	7,000	
Dehumidification		l/h	0.89	
Electrical Data	Running Current	A	2.9	
	Power Input	W	680	
	Starting Current	A	18	
Compressor	Type	Rotary		
	Model	QB 125PL 12B		
	Capacitor	25 $\mu$ F/370VAC		
Fan Motor			Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		1.0 $\mu$ F 400VAC	1.8 $\mu$ F 400VAC
	Motor Model Number		IC-8417DWKF5A	IC-9625DWLF 5A
Refrigerant (R-22)	Control	Capillary		
	Charge Q'ty	g	800	
Connection	Type	Flare		
	OD (Liquid/Suction)	in(mm)	1/4 (6.35)	1/2 (12.7)
Dimensions (W x H x D)		mm	750 x 245 x 174	654 x 549 x 256
Net Weight		kg	7.0	34

i DSB-091L

ITEM		MODEL	DSB-091L	
Function		Cooling		
Class		T		
Power		AC 220-240V / 50Hz		
Capacity		W	2,637	
		Btu/h	9,000	
Dehumidification		l/h	1.15	
Electrical Data	Running Current	A	4.2	
	Power Input	W	920	
	Starting Current	A	21	
Compressor	Type	Rotary		
	Model	RBB090A001	QK 164PN12F	
	Capacitor	25 $\mu$ F / 370VAC	30 $\mu$ F / 370VAC	
Fan Motor		Indoor Unit	Outdoor Unit	
	Type	Cross flow fan	Propeller fan	
	Capacitor	1.0 $\mu$ F 400VAC	1.8 $\mu$ F 400VAC	
	Motor Model Number	IC-8417DWKF5A	IC-9630DWLF5A	
Refrigerant (R-22)	Control	Capillary		
	Charge Q'ty	g	1,000	
Connection	Type	Flare		
	OD (Liquid/Suction)	in(mm)	1/4 (6.35)	1/2 (12.7)
Dimensions (W x H x D)		mm	750 x 245 x 174	654 x 549 x 256
Net Weight		kg	7.0	34

i DSB-121L

ITEM		MODEL	DSB-121L	
Function			Cooling	
Class			T	
Power			AC 220-240V / 50Hz	
Capacity		W	3,507	
		Btu/h	12,000	
Dehumidification		l/h	1.53	
Electrical Data	Running Current	A	5.7	
	Power Input	W	1,250	
	Starting Current	A	34	
Compressor	Type		Rotary	
	Model		RCB 120A001	
	Capacitor		25 $\mu$ F / 400VAC	
Fan Motor	Division		Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		1.0 $\mu$ F 400VAC	3.5 $\mu$ F 400VAC
	Motor Model Number		IC-8428DWKG7C	IC-9430DWLC5B
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	1,300	
Connection	Type		Flare	
	OD (Liquid/Suction)	in(mm)	1/4 (6.35)	1/2 (12.7)
Dimensions (W x H x D)		mm	925 x 285 x 194	666 x 552 x 264(Before)
				654 x 549 x 256(After)
Net Weight		kg	9.7	34

# 2. OUTLINE AND DIMENSIONS

## 1 INDOOR UNIT

i DSB-070L/DSB-091L

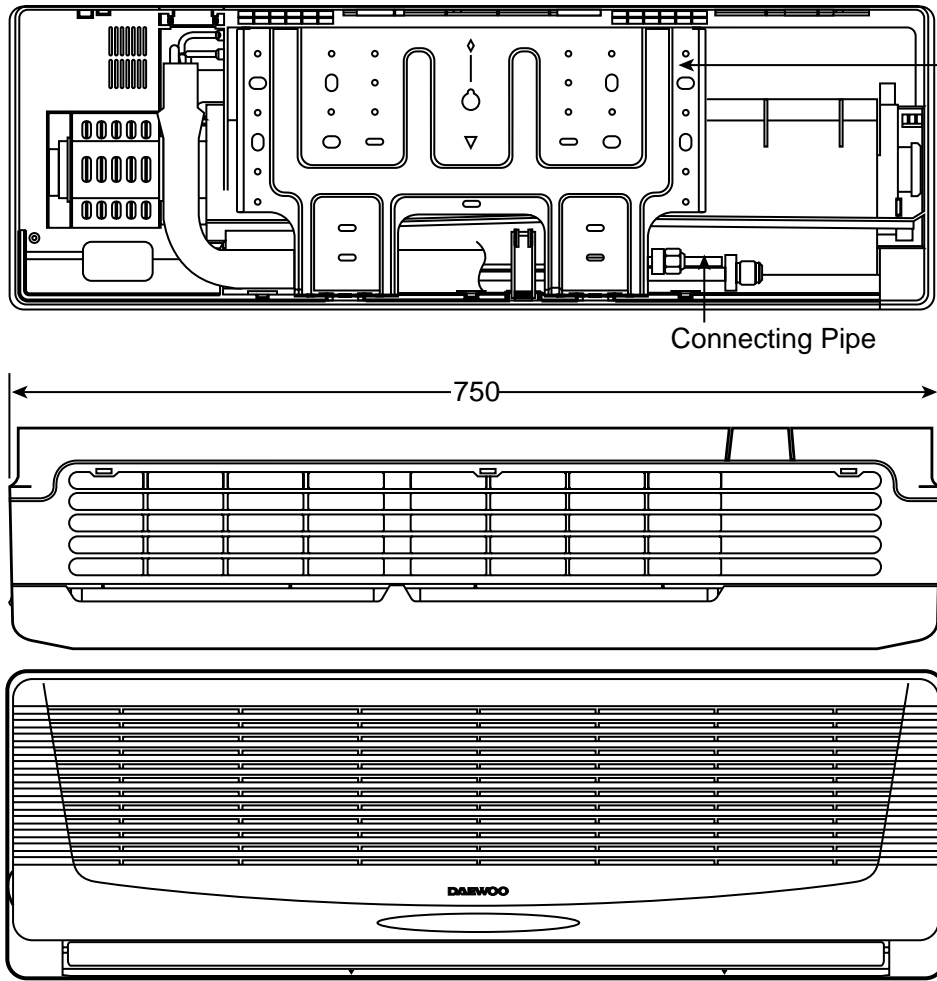


Plate Mounting



REMOCON

Grille Insert

Frame Grille

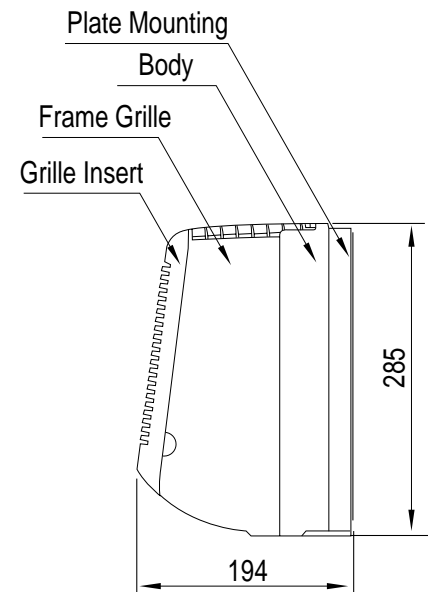
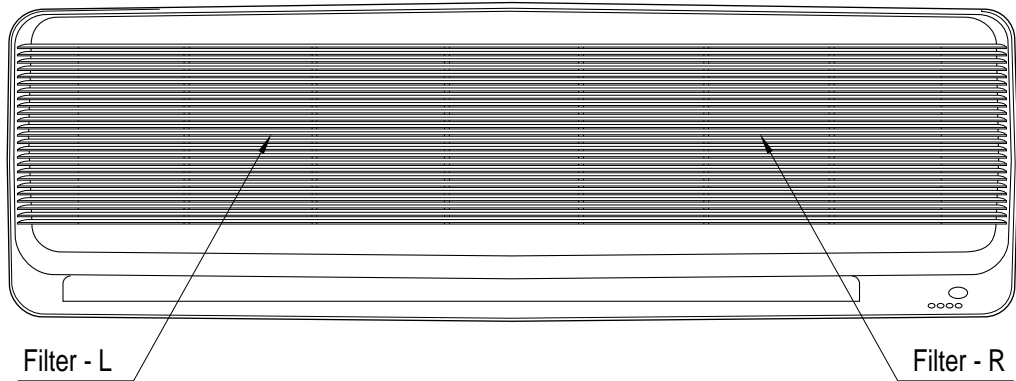
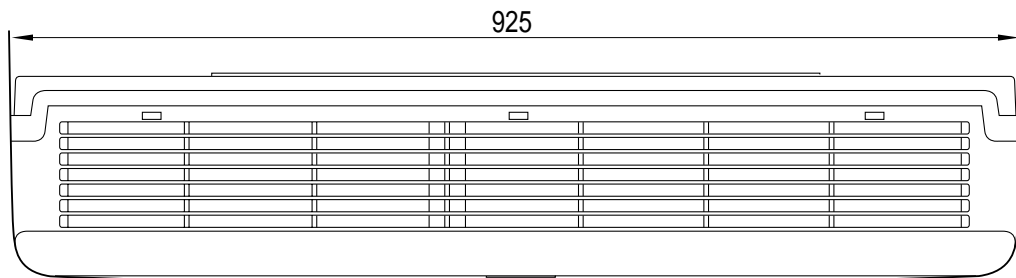
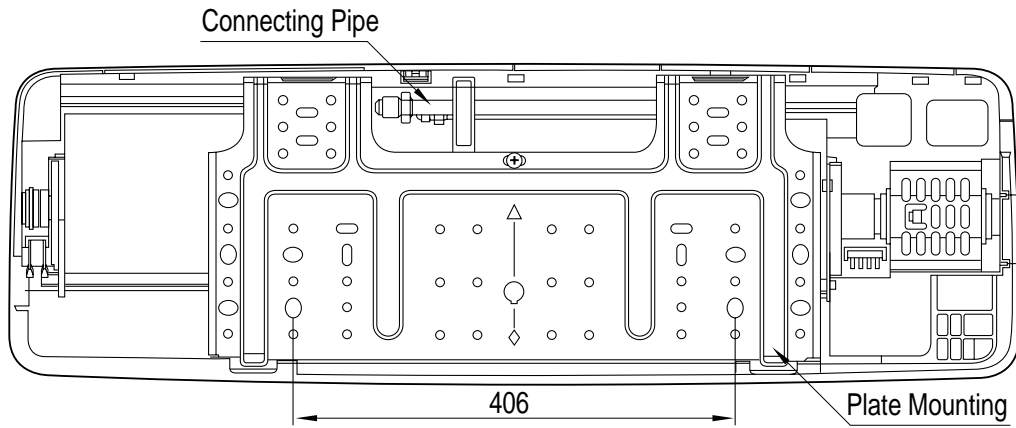
Body

Plate Mounting

245

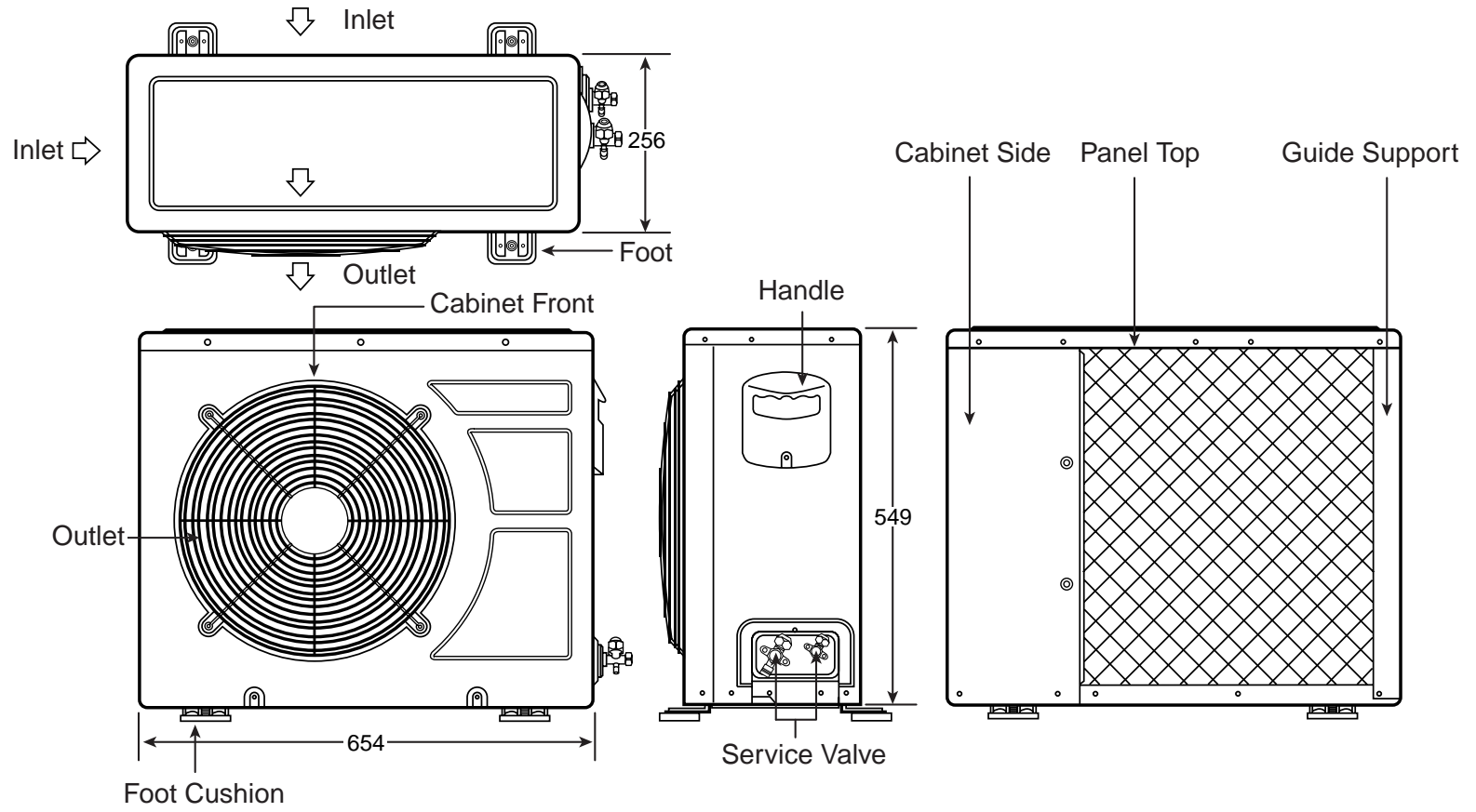
174

i DSB-121L

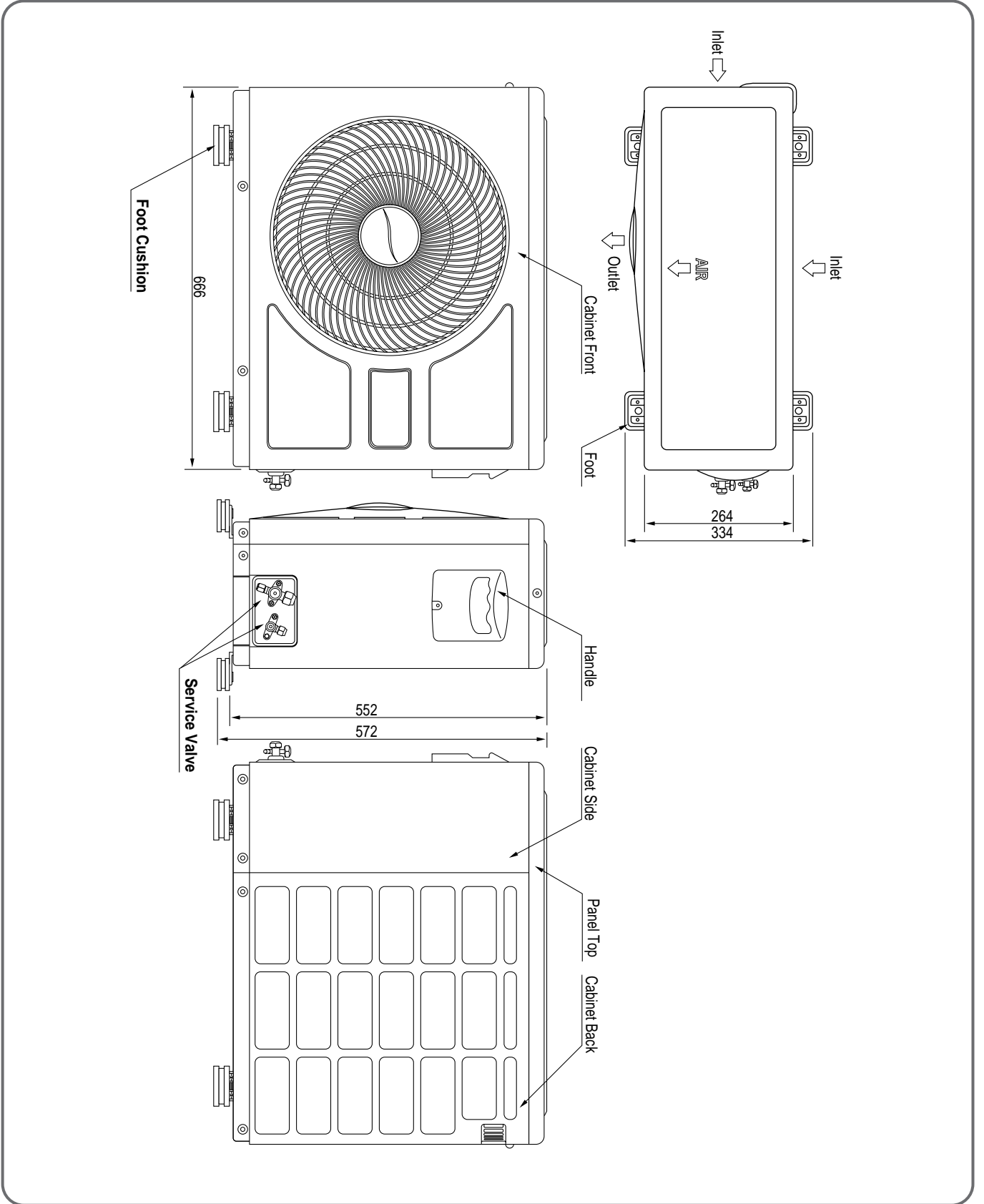


## 2 OUTDOOR UNIT

DSB-070L/DSB-091L/DSB-121L(After)



i DSB-121L(Before)

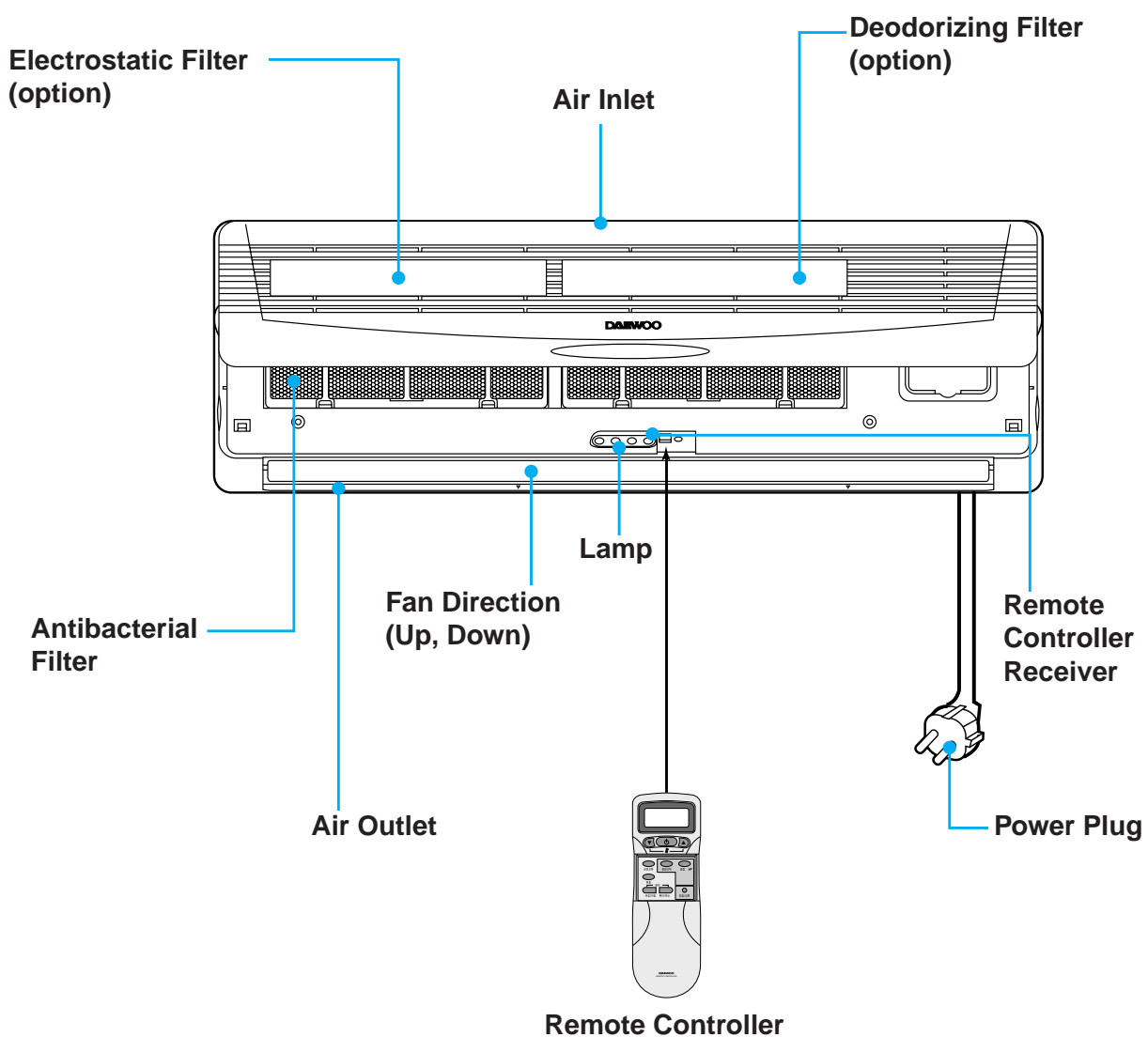


# 3. OPERATION

## 1 PARTS OF NAME AND FUNCTION

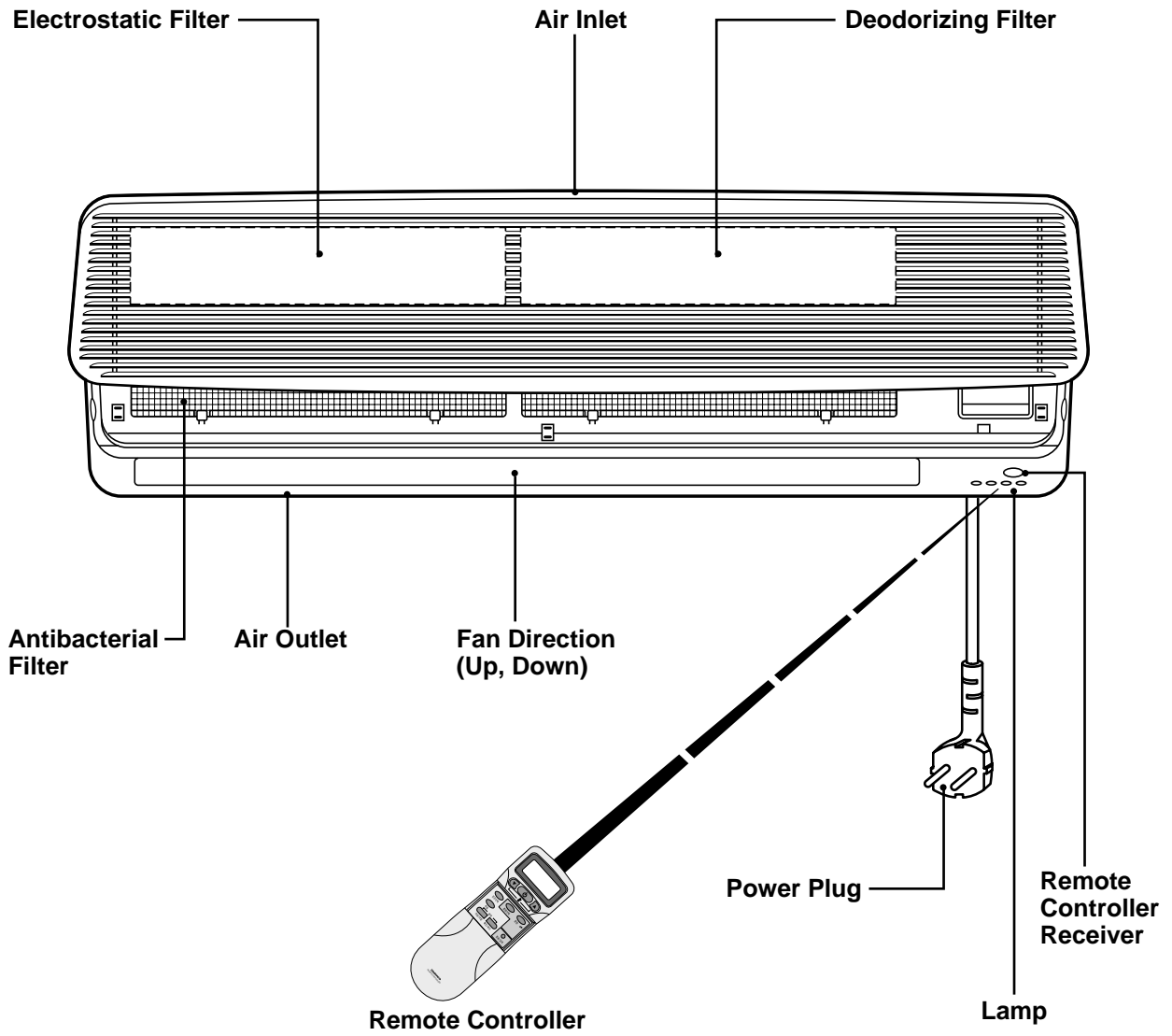
i DSB-070L/DSB-091L

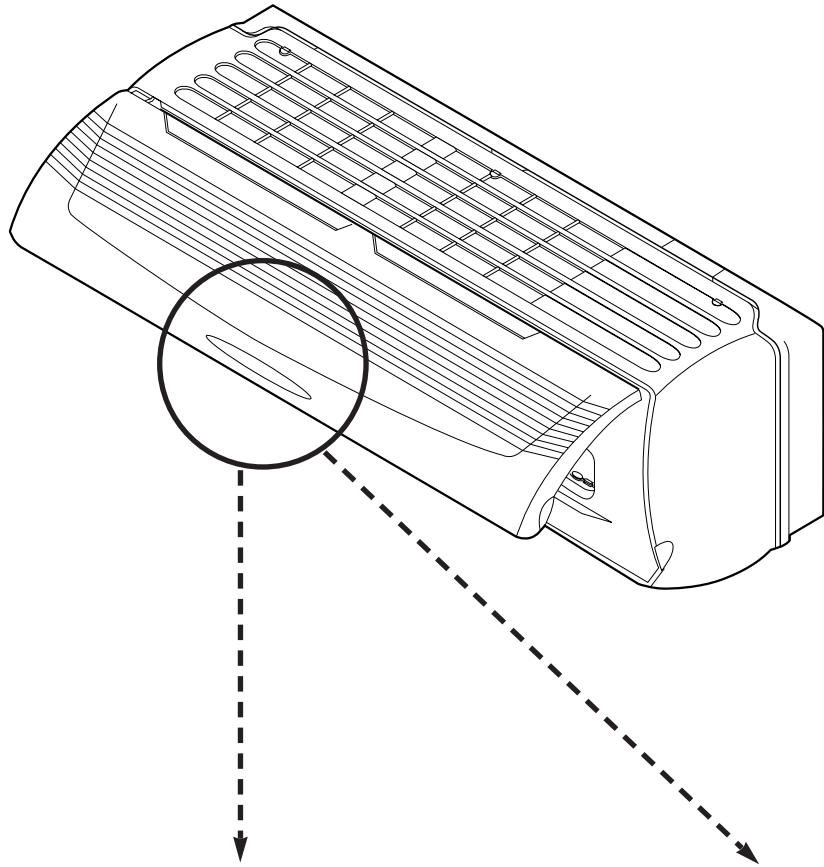
### Indoor Unit



i DSB-121L

# Indoor Unit





### Indoor Unit Display

#### ■ Remote Control Signal Receiver

This place is the part to receive the signal if it receive the signal, you can hear the signal “beep. beep.”



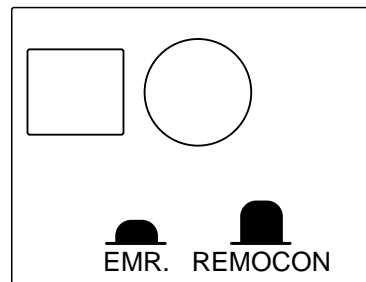
**ON (Red)**  
Lights when the operation is going on.

**Air clean (Green)**

**Timer (Yellow)**  
Lights during the time reservation mode.

**Quick (Red)**

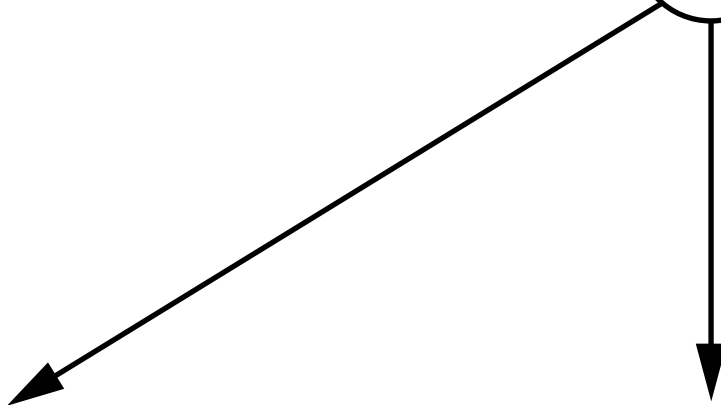
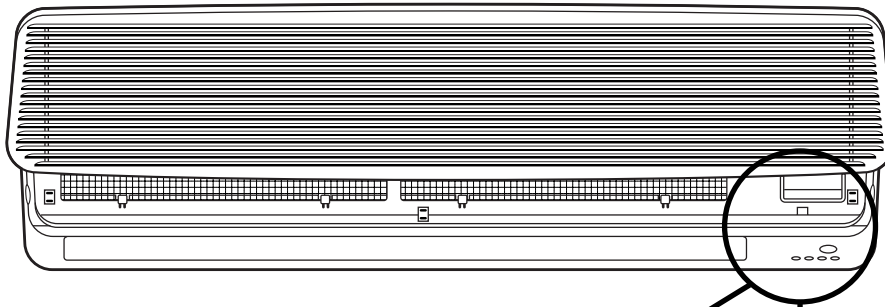
### Switch Panel



■ There is a switch panel at inside of Front Panel. At the time of operating, open the Front Panel.

Emergency switch can be used when the remote controller is lost or Testing.

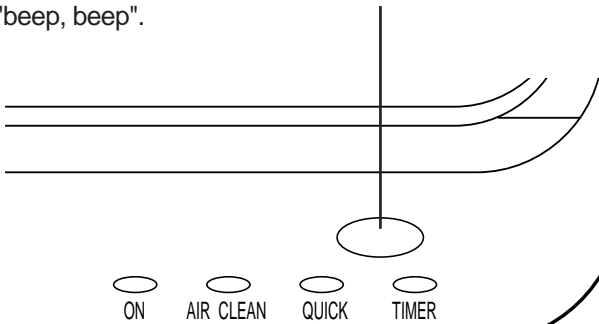
Remote switch is usually used by remote controller.



## Indoor Unit Display

### Remote Control Signal Receiver

This place is the part to receive the signal if it receive the signal, you can hear the signal "beep, beep".



#### ON (Red)

Lights when the operation is going on.

#### Air clean (Green)

#### Timer (Yellow)

Lights during the time reservation mode.

#### Quick (Red)

## Switch Panel



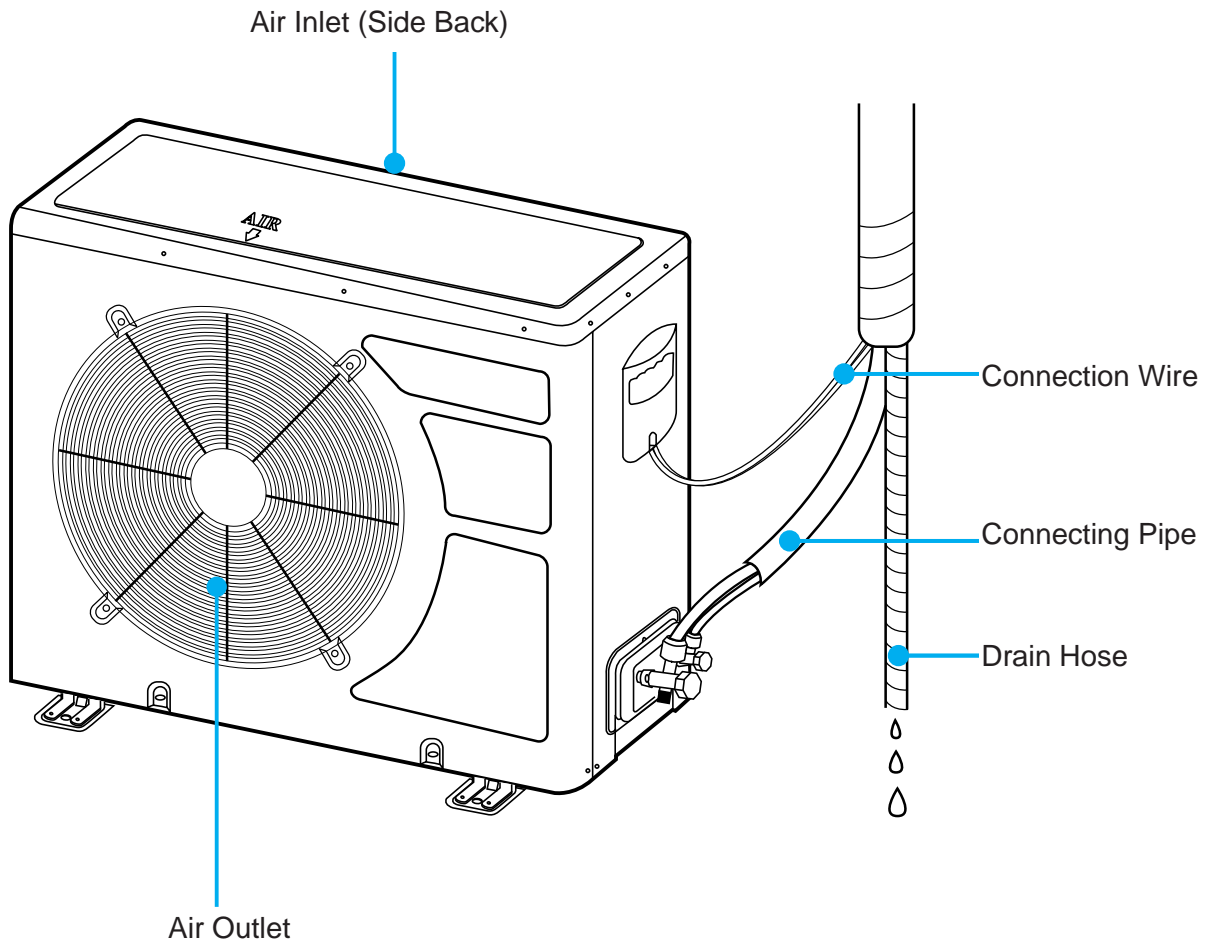
■ There is a switch panel at inside of Front Panel. At the time of operating, open the Front Panel.

Emergency switch can be used when the remote controller is lost or testing.

Remote switch is usually used by Remote Controller.

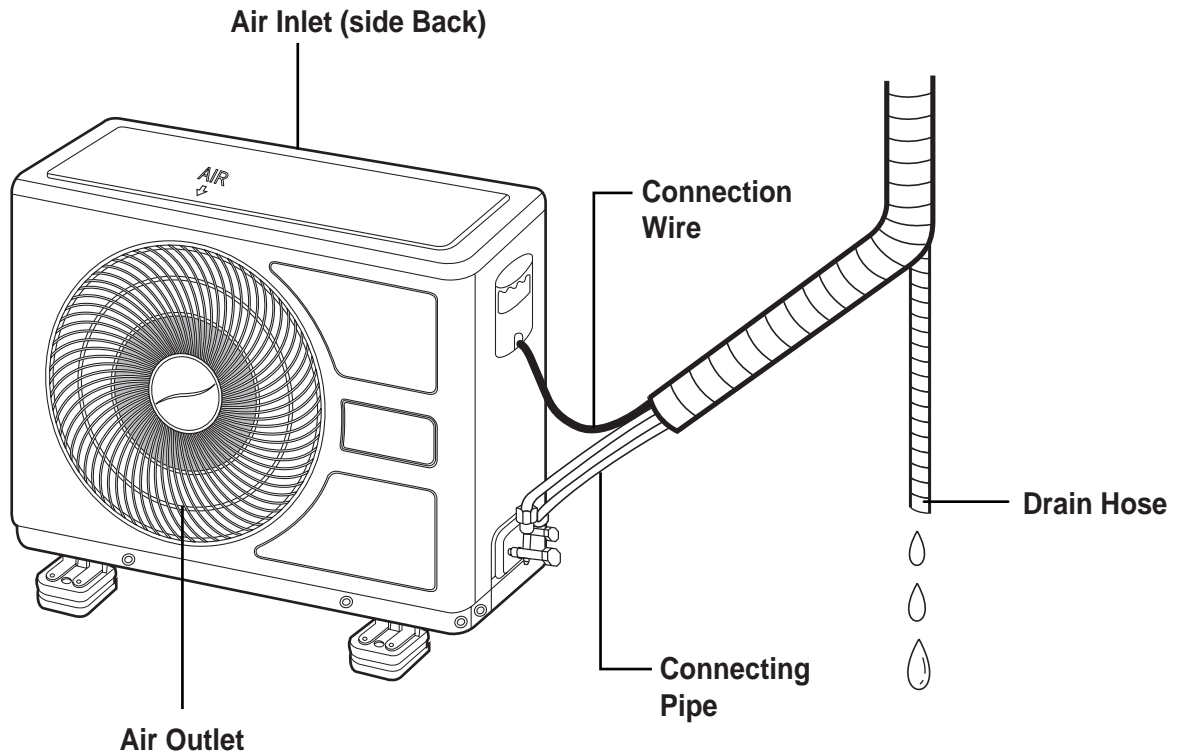
i DSB-070L/DSB-091L/DSB-121L(After)

## Outdoor Unit



i DSB-121L(Before)

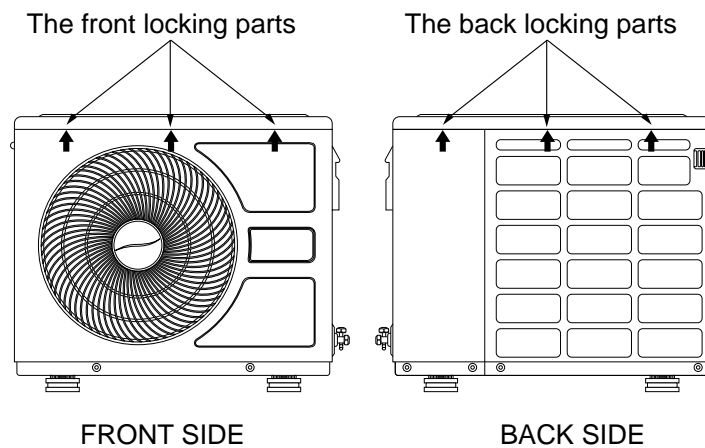
## Outdoor Unit



### NOTE:

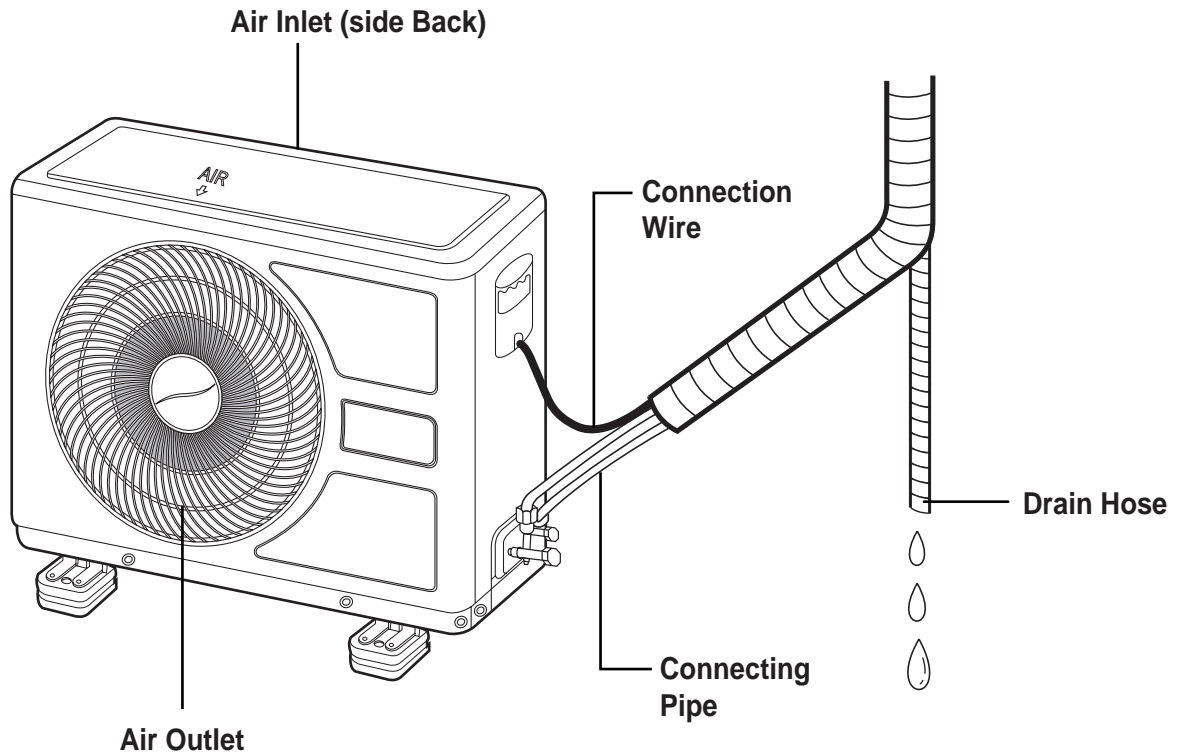
#### How to remove Top Panel

1. Loosen the screw at left and right side.
2. Push the three parts up Front and Back sides like figure orderly.
3. Unhook the locking parts of Top Panel.



i DSB-121L(Before)

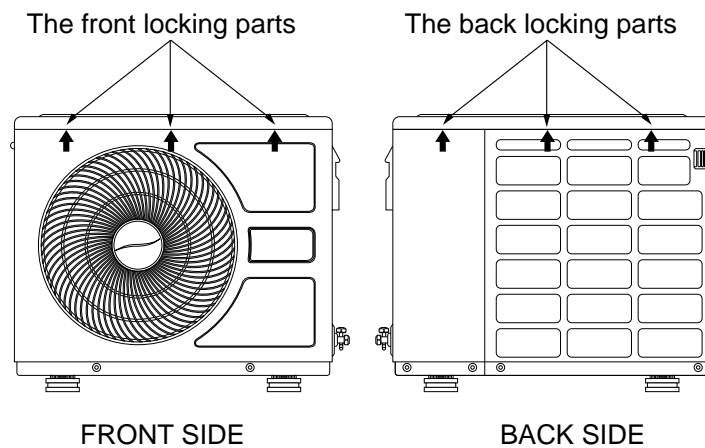
## Outdoor Unit



### NOTE:

#### How to remove Top Panel

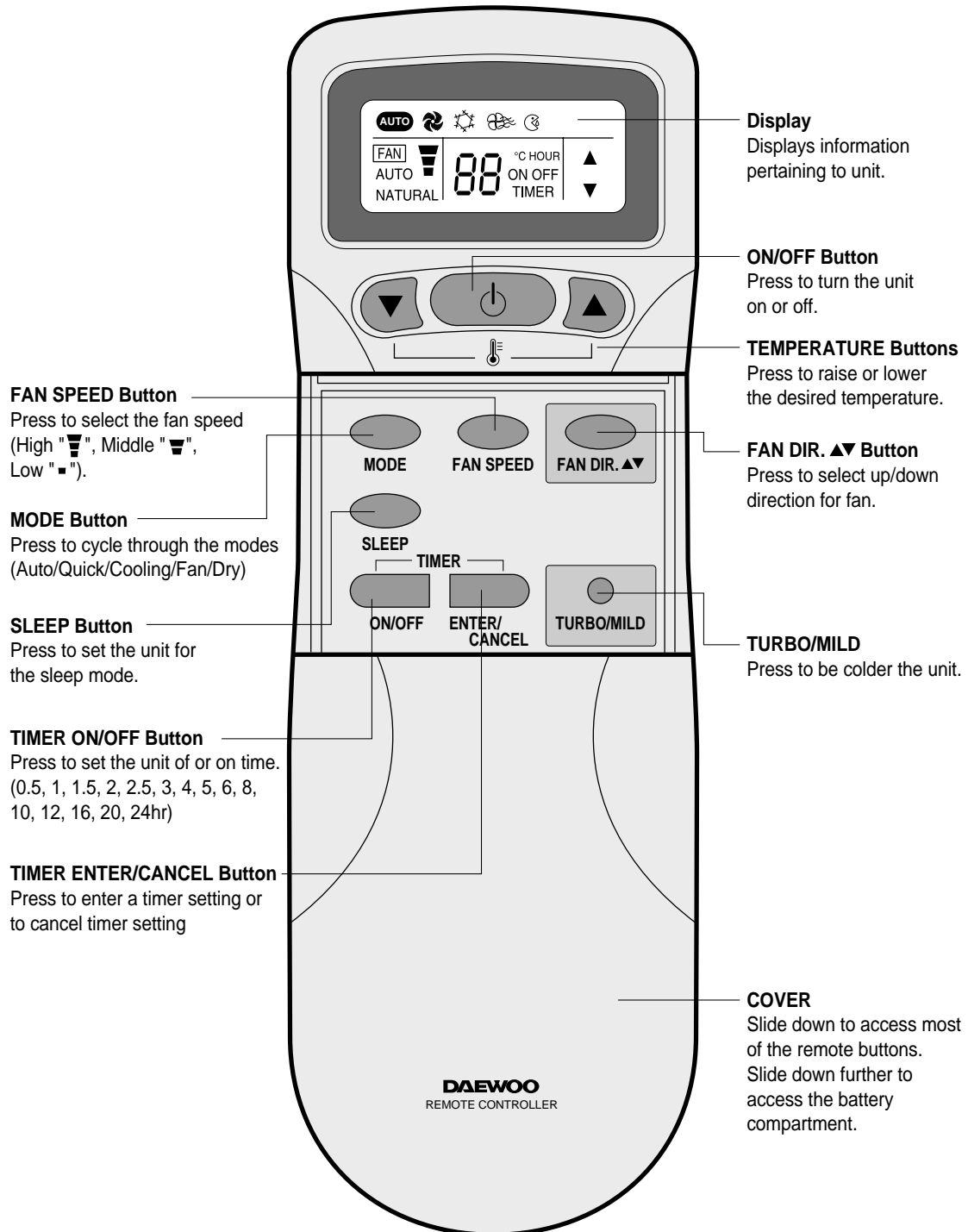
1. Loosen the screw at left and right side.
2. Push the three parts up Front and Back sides like figure orderly.
3. Unhook the locking parts of Top Panel.



## 2 REMOTE CONTROLLER

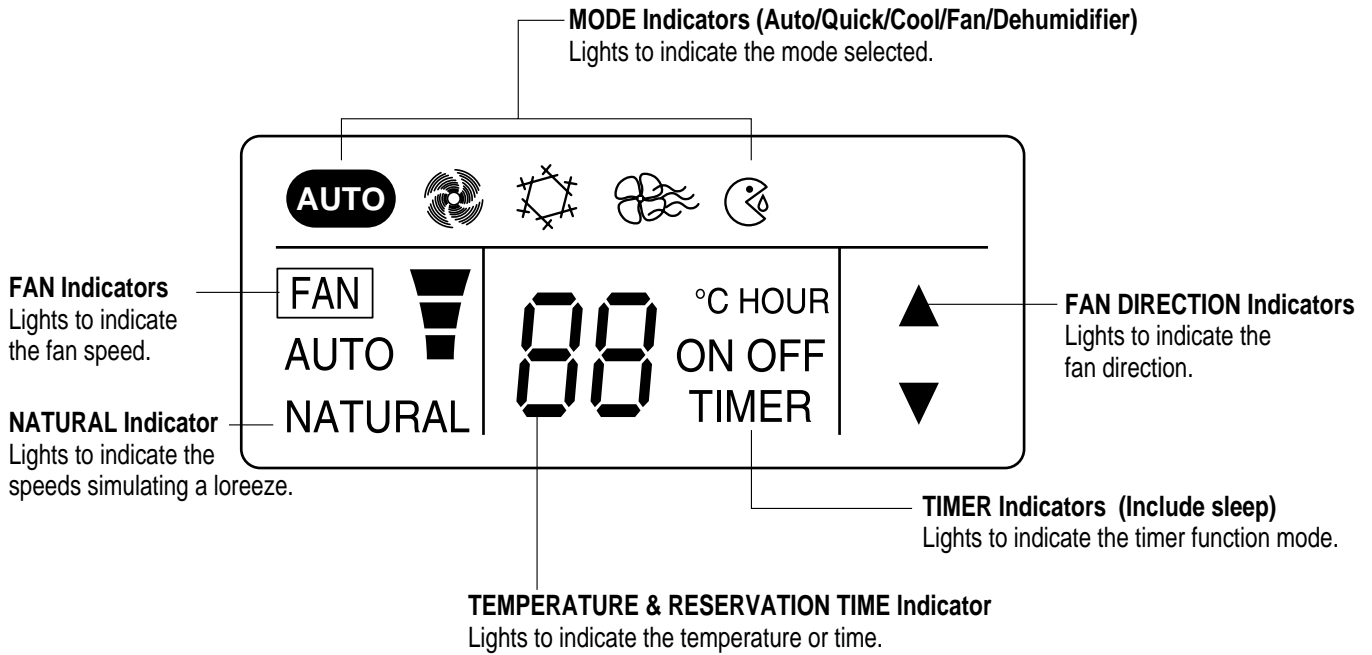
i DSB-070L/DSB-091L/DSB-121L

### Name of Each Button

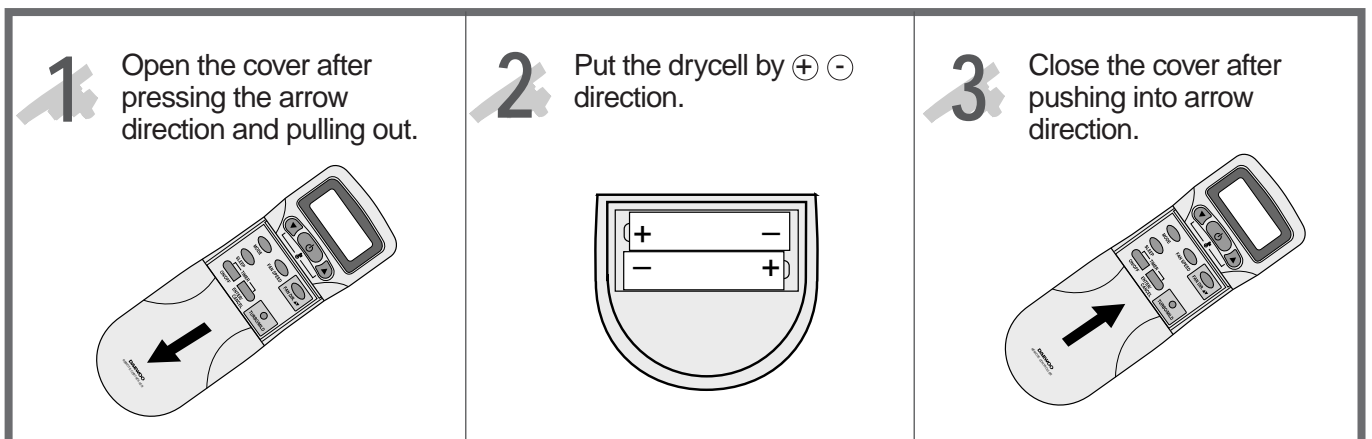


# 3 REMOTE CONTROLLER DISPLAY

i DSB-070L/DSB-091L/DSB-121L



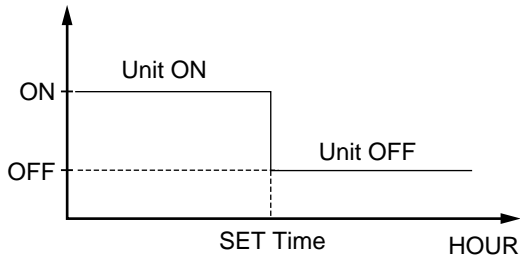
## Replacing Batteries



## 4 DESCRIPTION OF FUNCTIONS

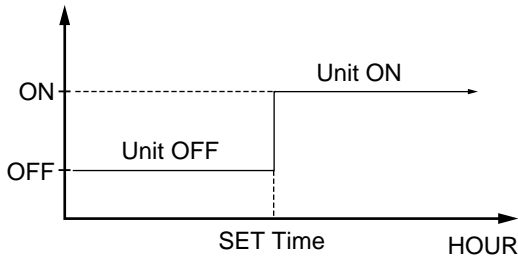
### OFF-Timer

If you set time in OFF-Timer Mode, the unit will stop at the set time.



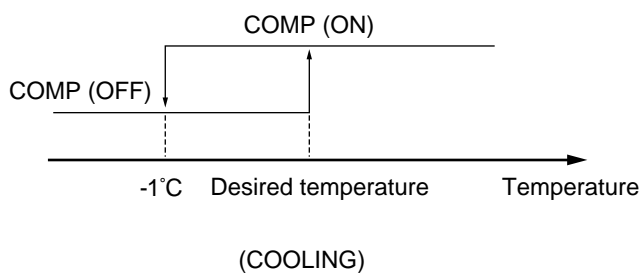
### ON-Timer

If you set time in ON-Timer Mode, the unit will run at the set time.



### Control of Room Temperature

- (1) Range of setting temperature: 18~32°C
- (2) Setting temperature: Operating temperature of compressor



- i ( Room temperature < setting temperature  
Compressor OFF
- ( Room temperature > setting temperature  
Compressor ON

### Buzzer

If the Indoor Unit Display receive the signal of Remote Controller, you can hear the signal "beep –" or "beep, beep".

- (1) In the case of receiving ON/OFF signal-"beep""beep"
- (2) And so on-"beep"

## Fan Speed (Indoor Unit)

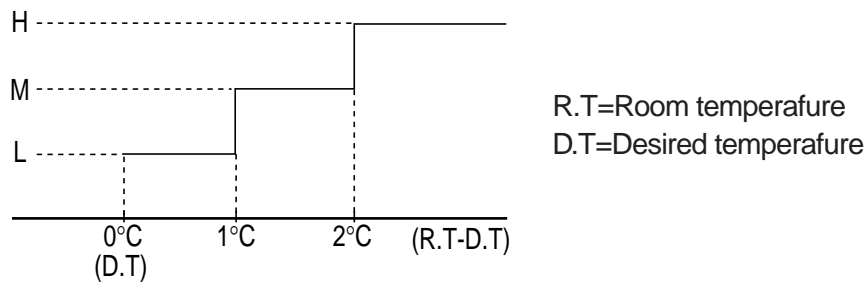
- (1) Motor speed (Super high speed, high speed, normal speed, low speed, ultra low speed).
- (2) Remote controller setting fan speed. (Auto, L, M, H, Natural)
- (3) Relation of operating mode between fan speed.

	FAN ONLY	COOL	DEHUMI-DIFICATION	AUTO	QUICK
H	H	H	L	H	H
M	M	M	L	M	H
L	L	L	L	L	H
Auto	Auto	Auto	L	Auto	H
Natural	Natural	Natural	L	Natural	H

### (4) Automatic Operation

If the unit is set in 'AUTO' mode, the unit operates automatically according to the room temperature to keep the room temperature comfortable.

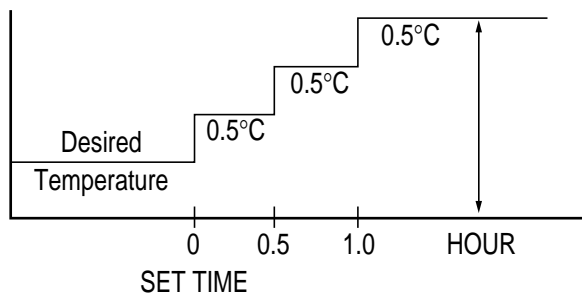
(COOLING)



## Sleep Mode

- (1) When you are going to sleep, select sleep switch and the unit controls the room to the desired temperature. (The unit will not operate after 4 hour)
- (2) For changing the temperature.

Difference  
desired temperature  
between room  
temperature (°C)



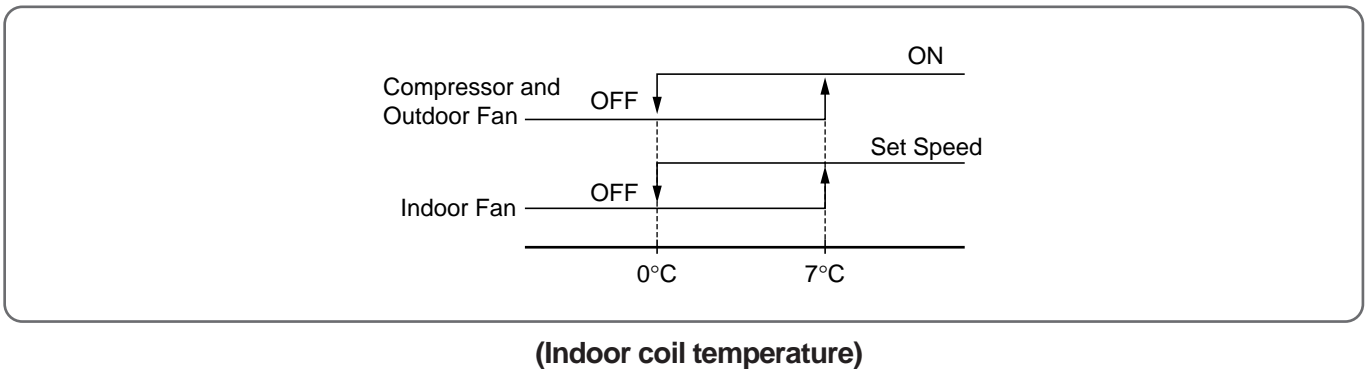
## Emergency Operation

- (1) When the remote controller is lost, damaged or the battery is discharged, the Emergency operation can be used to run the unit.
  - (2) The setting conditions of Emergency operation are as follows.
    - Operation mode: AUTO
    - Preset temperature: 26°C
    - Fan speed: LOW
- ; You cannot operate with remote controller.

## Frost Prevention of Indoor Unit

When the unit operates at low ambient temperature, frost may appear on the Evaporator. When the indoor coil temperature is lower than 0°C at the end of 10 minutes of continuous compressor operation from the start, the microcomputer of the unit stops the compressor to protect the unit from the frost. The control procedure for indoor coil freeze protection.

- 1) The compressor and outdoor fan turn off.
- 2) Indoor fan operates according to user set speed.
- 3) The normal operation returns when the indoor coil temperature is higher than 7°C or equal to 7°C.



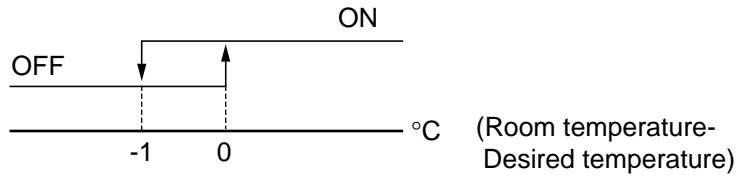
## 3 min. Time Delay of Compressor

In normal operation, there is a time delay of three minutes between turn off and turning back on including initial power up.

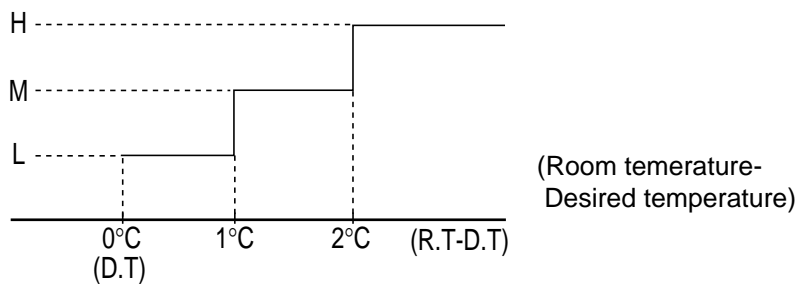
## Auto Mode I

(1) When the room temperature is higher than 28°C (Cooling Mode)

! Compressor and Indoor Fan



@ The fan will automatically operate as following Figure



## Dehumidification Mode

! Desired temperature < Room temperature

Outdoor Fan, Compressor : ON

Indoor Fan : Low speed

@ Desired temperature  $\geq$  Room temperature

Compressor : 3 min/ON, 5 min/OFF

Indoor Fan : 3 min 30 second/ON, 4 min 30 second/OFF

Fan Speed : low speed

# Room temperature  $\leq$  18°C

Compressor : OFF

Indoor Fan : 1 min/ON, 7 min/OFF

Fan speed : Low speed

## Air Discharge Direction(only remocon operation)

The air discharge direction procedure is below.



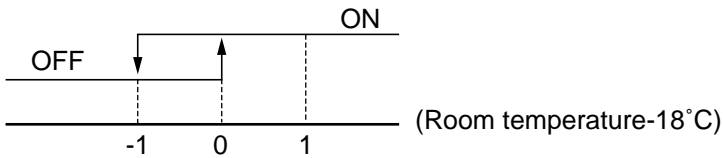
## Quick Mode(Powerful Cooling)

- ! Fan Speed: Super high speed
- @ Air discharge direction: Fixed
- # Set temperature: 18°C Fixed (Cooling)
- \$ Compressor and Outdoor Fan

The air discharge direction procedure is below



The option is LEFT/RIGHT direction.



## Self-Diagnostic Function

The control will contain diagnostic test to verify the integrity of the system.

- (1) Error Code Display Pattern
  - ! ON LAMP: ON (Red) LED ON/OFF
  - @ Error Code
  - # Only Emergency mode

ERROR CODE	DISPLAY PATTERN	ERROR CONTENTS
3	<p>The diagram shows a series of three pulses. The width of each pulse is labeled as '0.5 second'. The time between the start of one pulse and the start of the next is labeled as '8 seconds'.</p>	Compressor, Electrical parts of comp. Gas leak



# 1 MAIN ELECTRIC PARTS

## i DSB-070L

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor IDU	3108003800	IC-8417DWKF5A	1	
	Fan Motor Capacitor	3106900300	1.0 $\mu$ F 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Transformer	5EPV050120	230V 50Hz	1	
	Stepping Motor	3108003900	GSP-24SW-061	1	
	Terminal Block	3108912300	SN-DBW-03P	1	
	Compressor	3107101100	QB125PL12B	1	
Outdoor Unit	Fan Motor ODU	3108004000	IC-9625DWLF5A	1	
	Dual Capacitor	3109501201	1.8+25 $\mu$ F 400VAC	1	
	Terminal Block	3108901230	SN-DBW-03P	1	

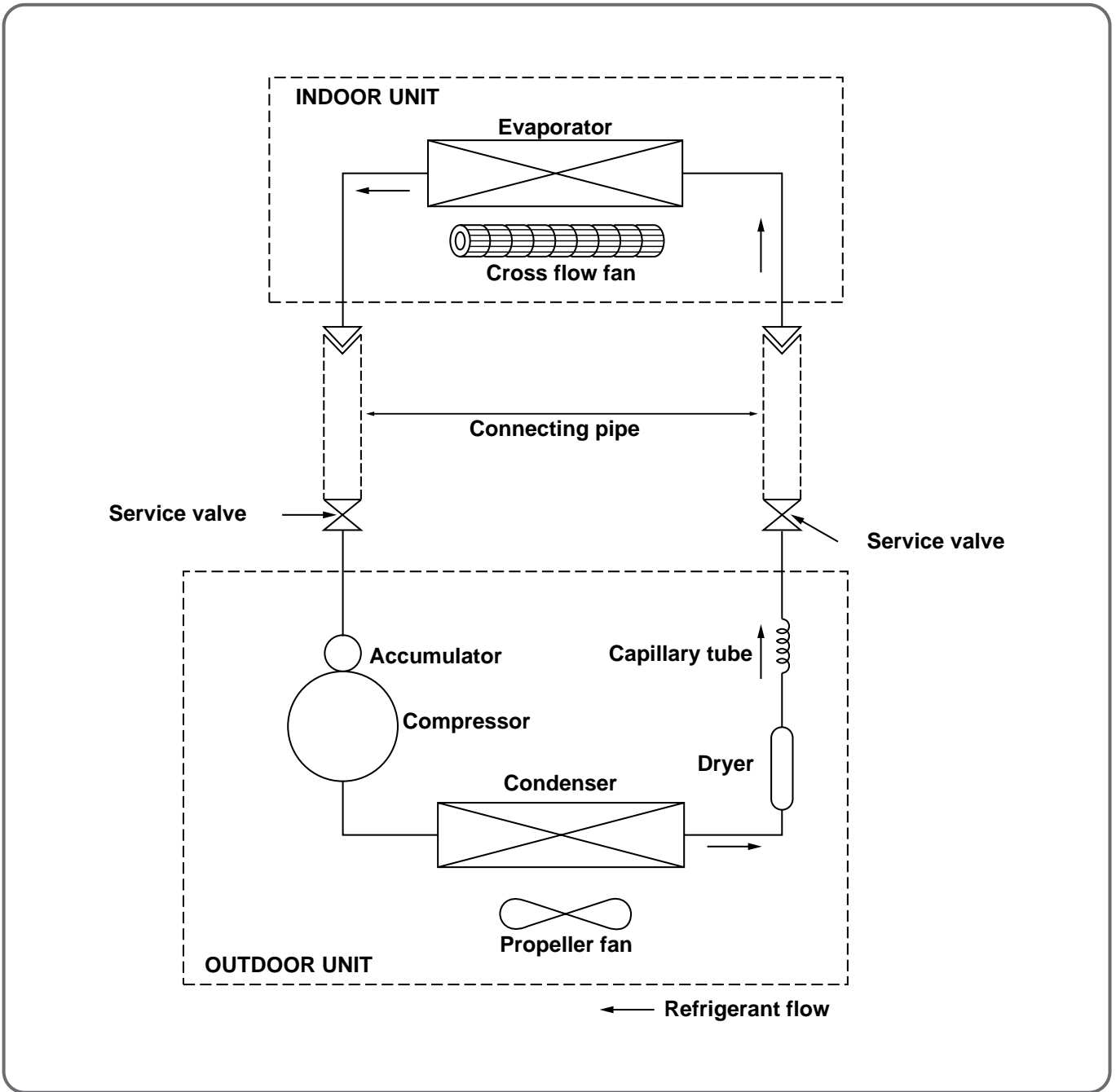
## i DSB-091L

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor IDU	3108003800	IC-8417DWKF5A	1	
	Fan Motor Capacitor	3106900300	1.0 $\mu$ F 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Transformer	5EPV050120	230V 50Hz	1	
	Stepping Motor	3108003900	GSP-24SW-061	1	
	Terminal Block	3108901230	SN-DBW-03P	1	
Outdoor Unit	Compressor	3RC0020JE0	RBB090A001	1	DAEWOO COMP.
		3107101800	QK164PN12F	1	L/G COMP.
	Fan Motor ODU	3108004100	IC-9630DWLF5A	1	
	Dual Capacitor	3109501201	1.8+25 $\mu$ F 400VAC	1	RBB 090A
		3109502010	1.8+30 $\mu$ F 400VAC	1	QK164PN
Terminal Block	3108901230	SN-DBW-03P	1		

## i DSB-121L

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor IDU	3108001220	IC-8428DWKG7C	1	
	Fan Motor Capacitor	3106900300	1.0 $\mu$ F 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Transformer	5EPV050100	220V/18V	1	
	Stepping Motor	3108000100	MP28GA (L=400mm)	1	
	Terminal Block	3108901230	SN-DBW-03P	1	
Outdoor Unit	Compressor	3100030CE0	RCB120A001	1	
	Fan Motor ODU	3108000810	IC-9430DWLC5B	1	
	Dual Capacitor	3109500700	3.5+25 $\mu$ F 400VAC	1	
	Terminal Block	3108901230	SN-DBW-03P	1	

# 5. REFRIGERANT CYCLE

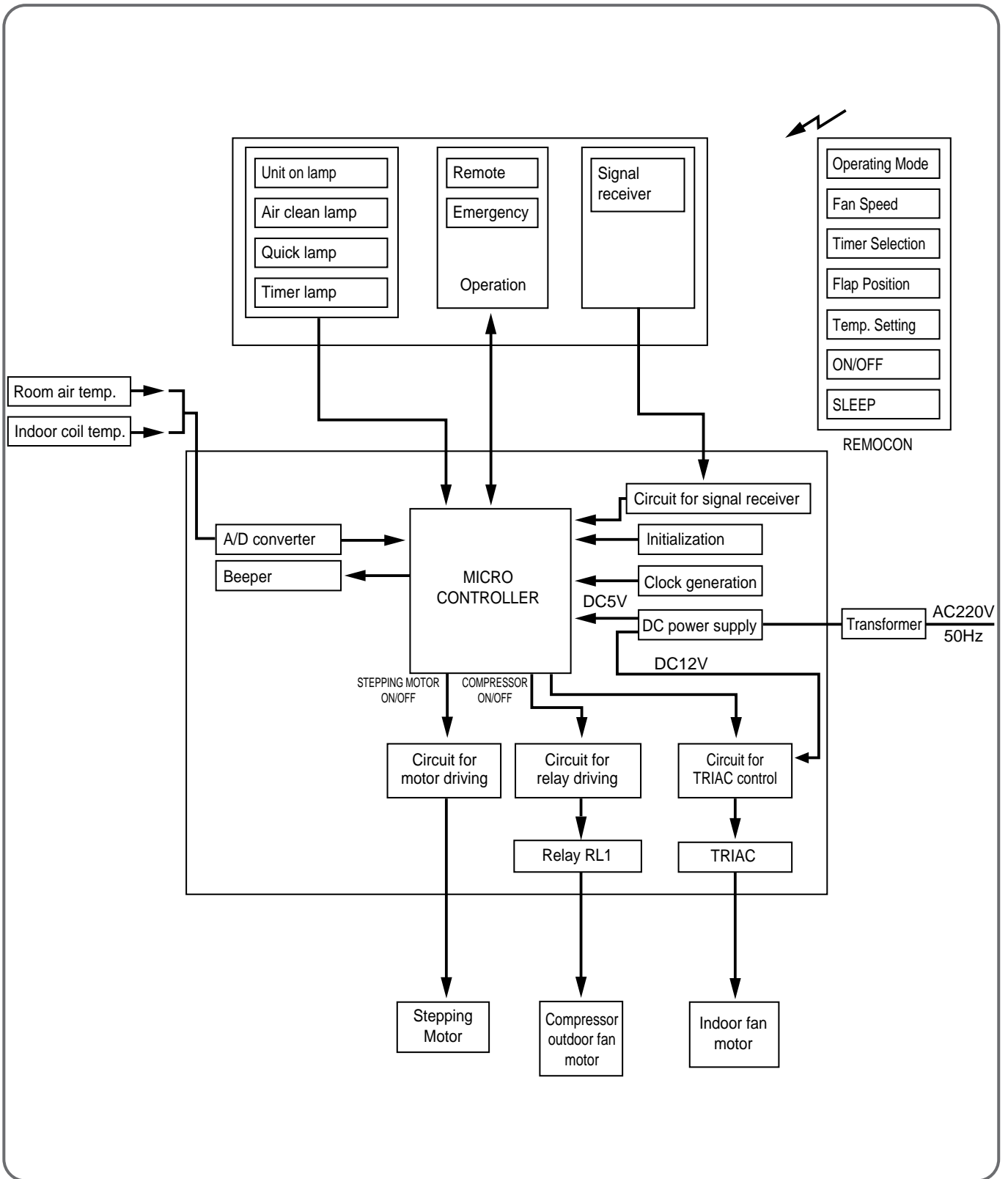


Note) If the pipe length exceeds the standard length, add 30g of refrigerant per extra meter.

Model Name	DSB-070L	DSB-091L	DSB-121L
Contents			
Capillary Tube	IDØ1.6 x ODØ3.2 x 600L	<ul style="list-style-type: none"> <li>• IDØ1.78 x ODØ3.2 x 1200L</li> <li>-QK164PN12F(LG COMP)</li> <li>• IDØ1.6 x ODØ3.2 x 600L</li> <li>-RBB090A001(DAEWOO COMP)</li> </ul>	IDØ1.6 x ODØ3.2 x 600L
Charge Quantity	800 g	1,000 g	1,300 g

# 6. CONTROL BLOCK DIAGRAM

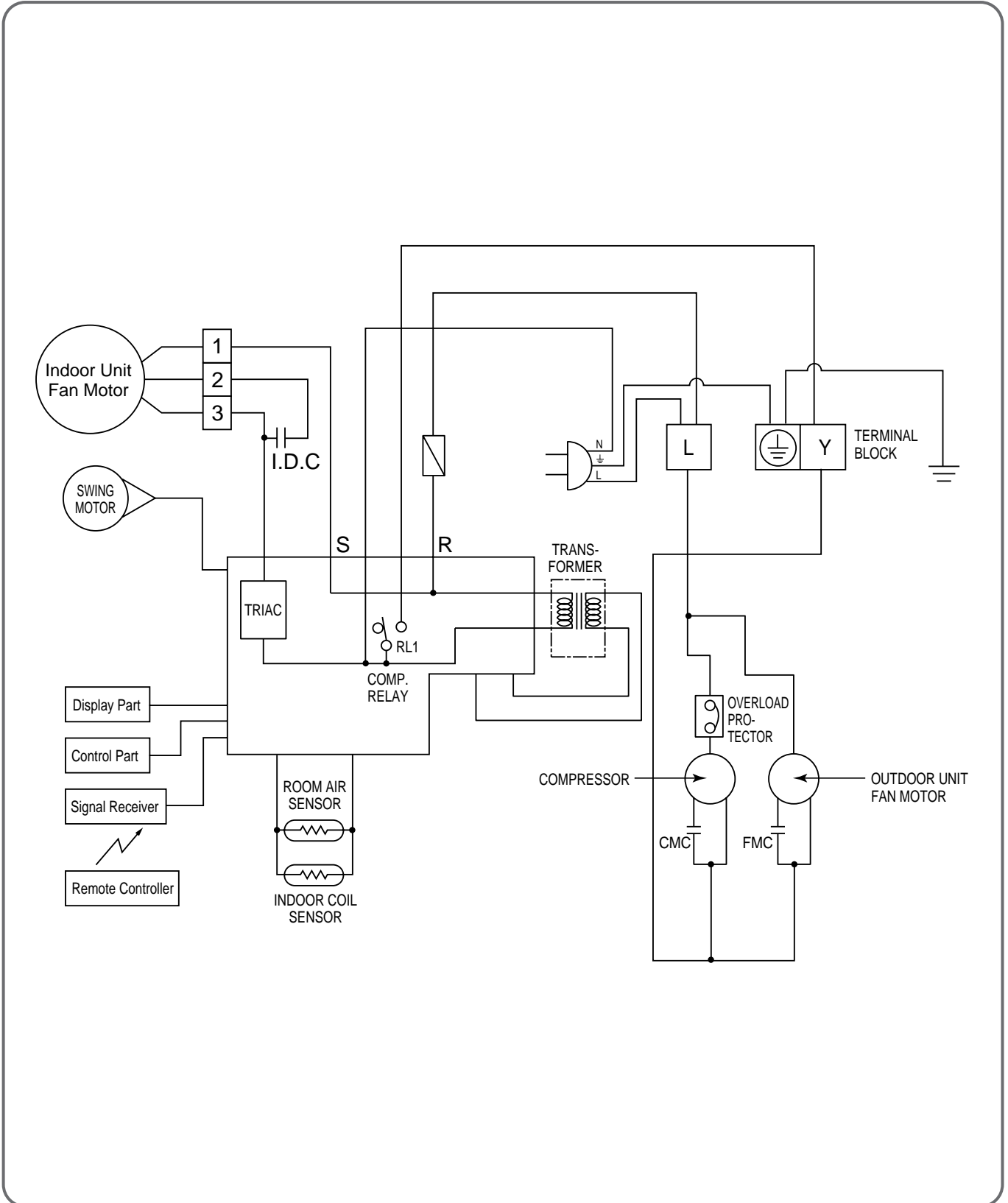
i DSB-070L/DSB-091L/DSB-121L



# 7. ELECTRIC CIRCUIT DIAGRAM

## 1 ELECTRIC CIRCUIT DIAGRAM

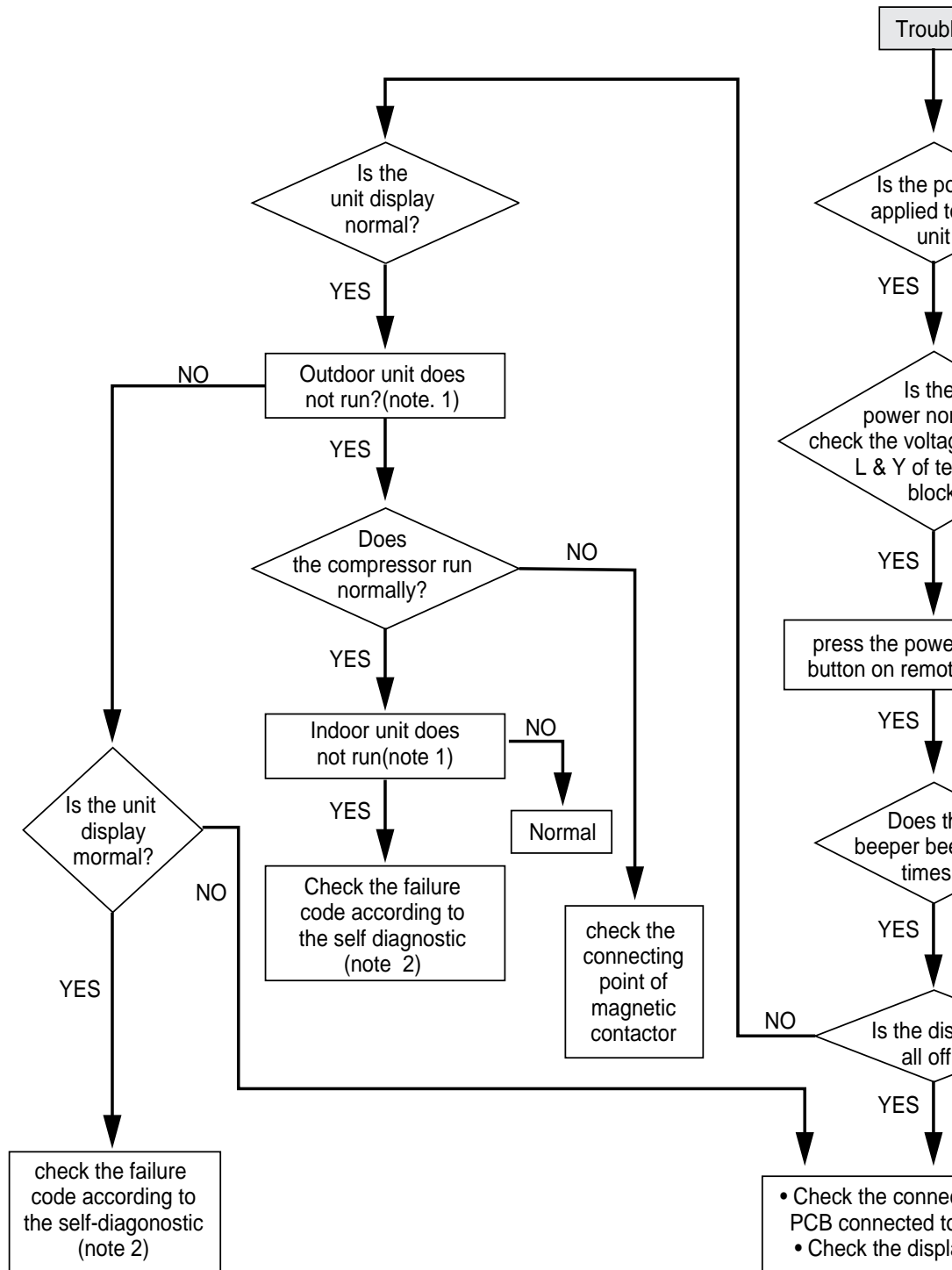
i DSB-070L/DSB-091L/DSB-121L



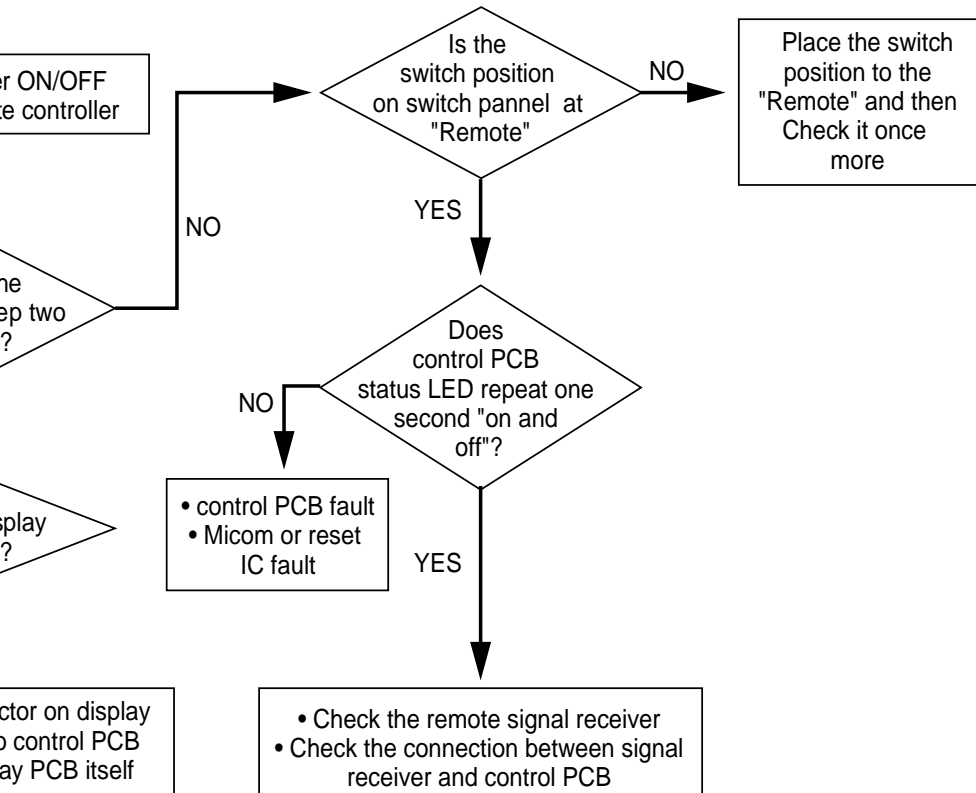
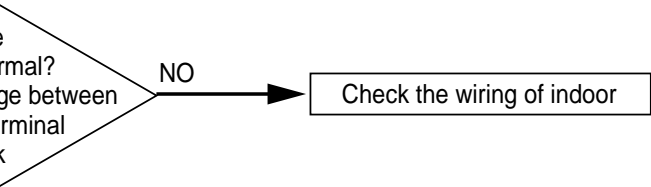
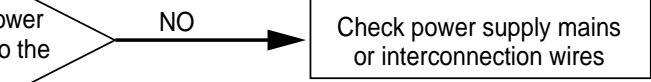
## Description

1. After the power ON/OFF button is pressed once, the relay and triac are turned ON or OFF per the remote control setpoint.
  - TRIAC is controlled per the fan speed selection.
  - RELAY is controlled per the operation mode selection.
2. If the power ON/OFF button is pressed once more, the relay and triac are turn off and the unit stops operation.
3. The unit turns on or off according to the temperature setpoint by sensing the room air temperature through thermistor.
4. If the fan speed selection is set to the auto position, the fan speed is automatically controlled according to the temperature difference between room temperature and temperature setpoint.
5. If you press the ON/OFF button during operating the unit, Relay and LED is OFF and the unit is OFF.

# 8. TROUBLE SHOOTING



le



**Note 1)**

!Neither indoor unit nor outdoor unit runs.

Check the following points first. (There are following case in normal operation)

- a. Is the timer mode set the "timer ON".
- b. Is the timer mode set the "timer-OFF" and the time had passed?

@ Neither outdoor fan nor compressor runs while indoor fan runs.

Check following points first. (There are following cases in normal operation)

- a. Is the temperature set point suitable?
- b. Has the 3 minutes time guard for compressor operated?

## Self-Diagnostic Function

**• Error Code •**

!When the compressor do not run.

- i) Check the voltage between **L** and **Y** of terminal block.  
(Indoor Unit, Outdoor Unit)
- ii) Check connecting wire of indoor unit and outdoor unit.
- iii) Check relay RL1 on power P.C.B

@ Check fixing of indoor coil thermistor.

# Check the GAS LEAKAGE of the pipe.

## Neither Indoor Unit nor Outdoor Unit Runs

Confirm following statement.

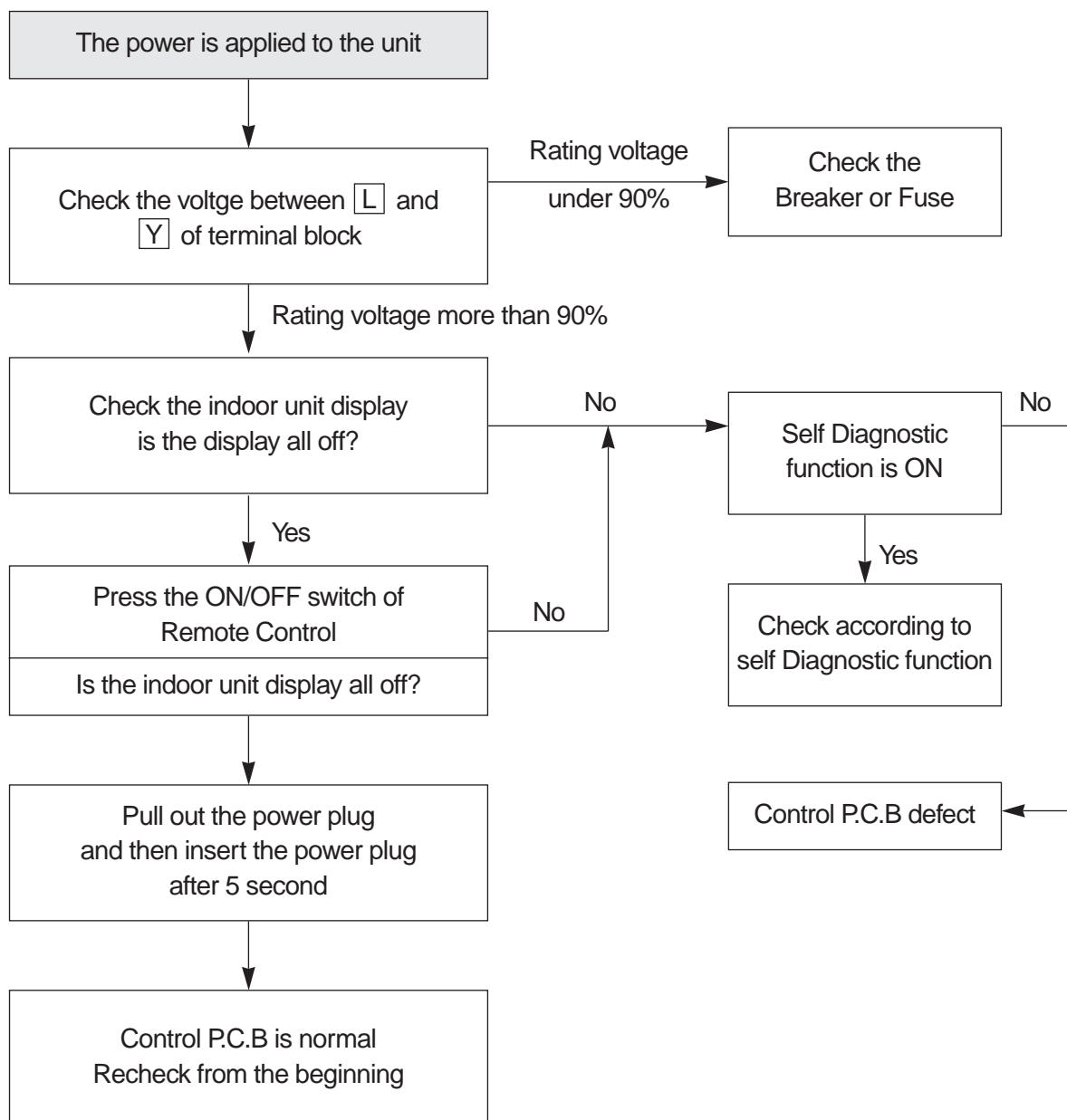
When the unit operate normally, Sometimes the outdoor unit and indoor unit cannot operate.

!Check the function select switch. Is it timer mode?

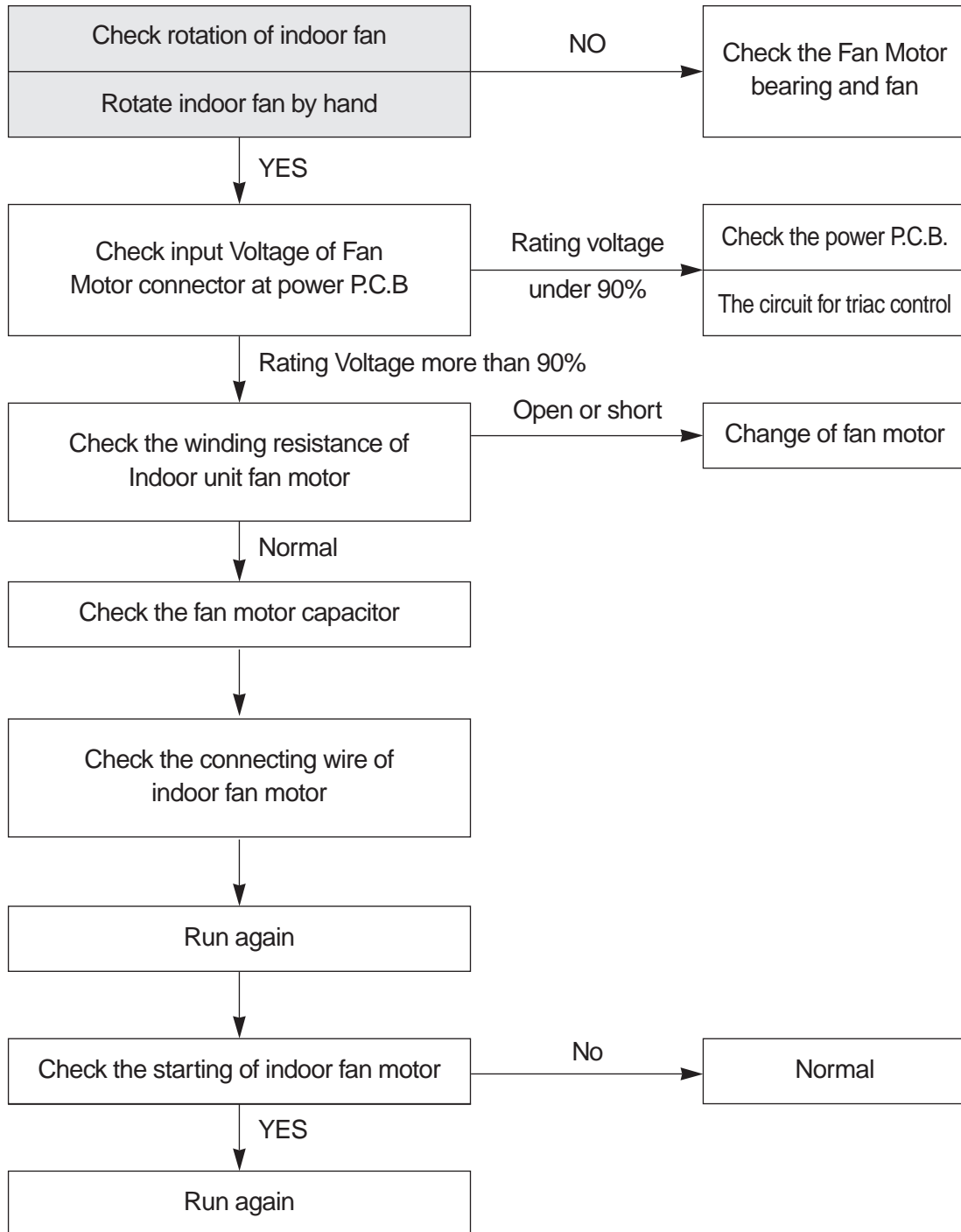
@ The function select switch locate the sleep mode and is the setting time over?

# Is the setting mode DEHUMIDIFIER mode?

§ When the unit is DEHUMIDIFIER mode while in the auto mode, the outdoor unit and indoor unit does not run.



## Outdoor Unit Runs but Indoor Fan Do Not Run



## Outdoor Fan and Compressor Do Not Run

Confirm following statement.

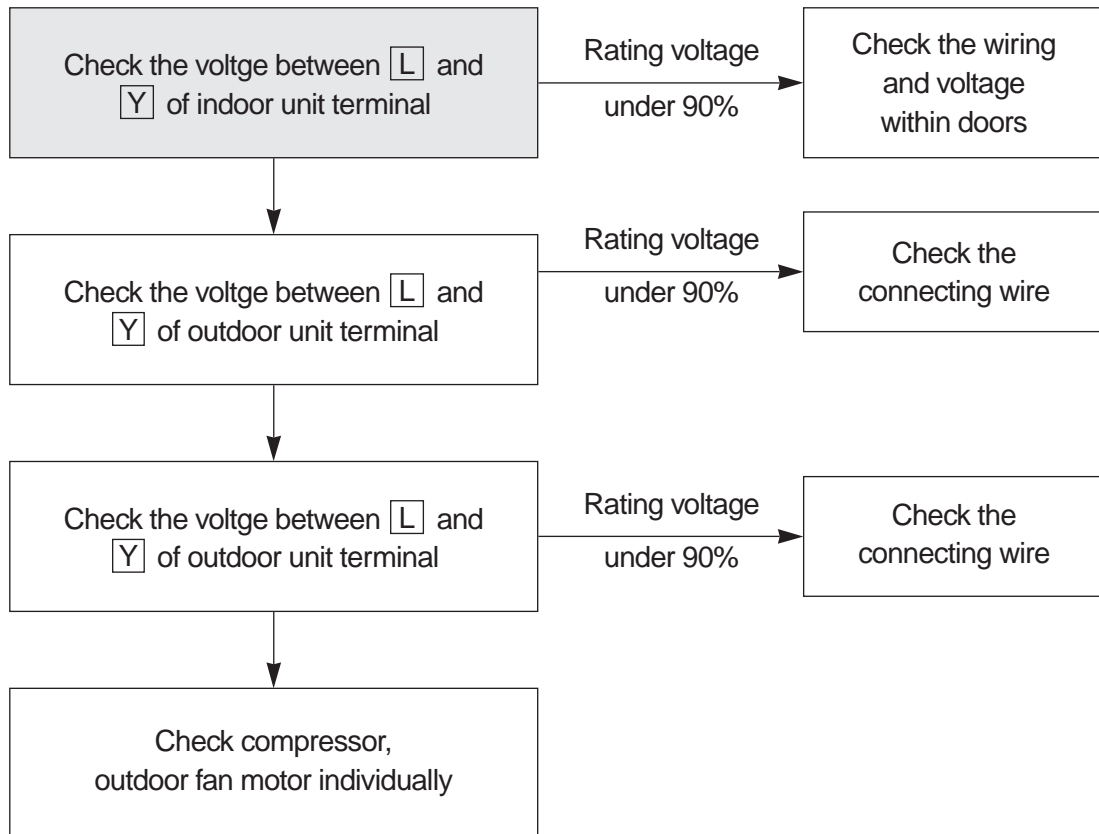
When the unit operate normally, Sometimes the outdoor unit and indoor unit cannot operate.

! Is the setting temperature proper?

@ Is the unit during 3min. Time delay of compressor.

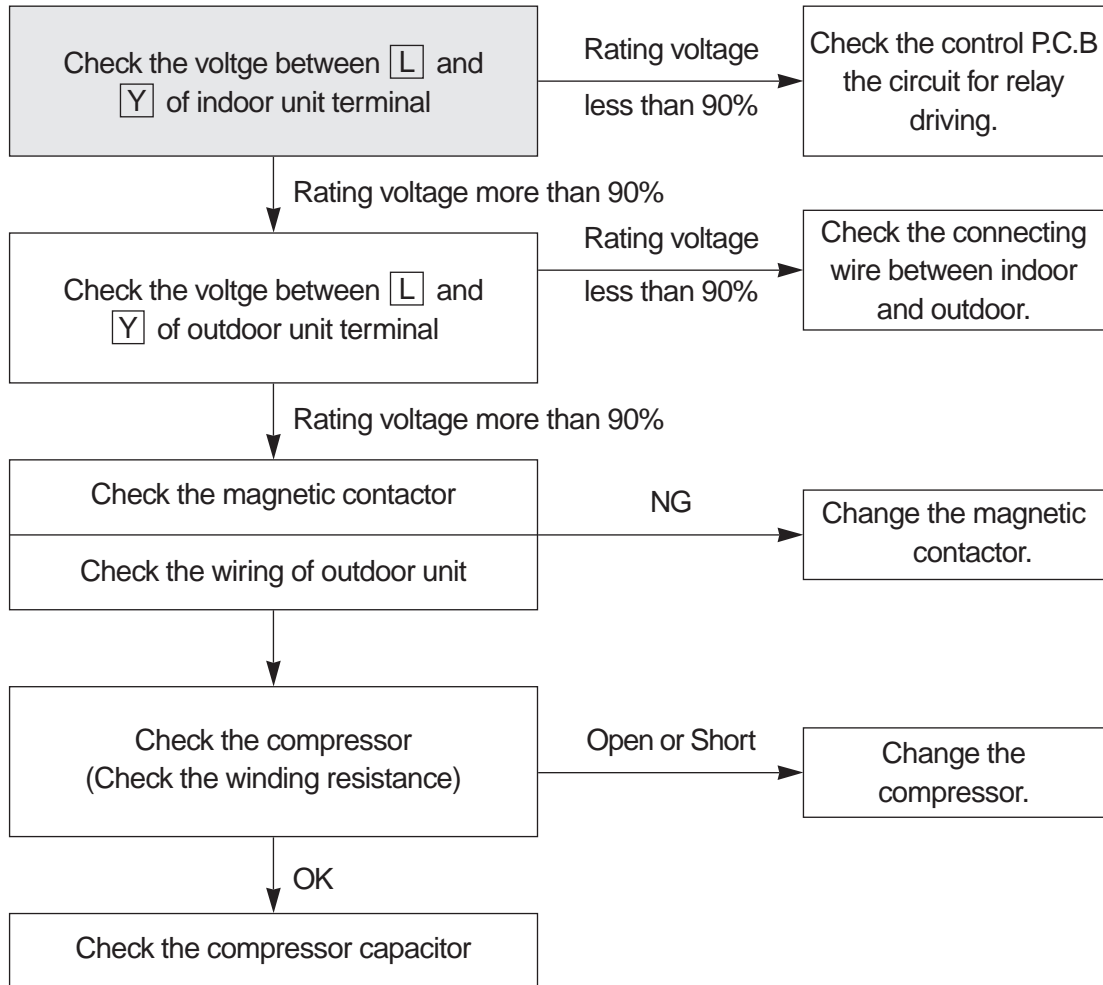
# During frost prevention of Indoor unit.

\$ During dehumidifier mode.



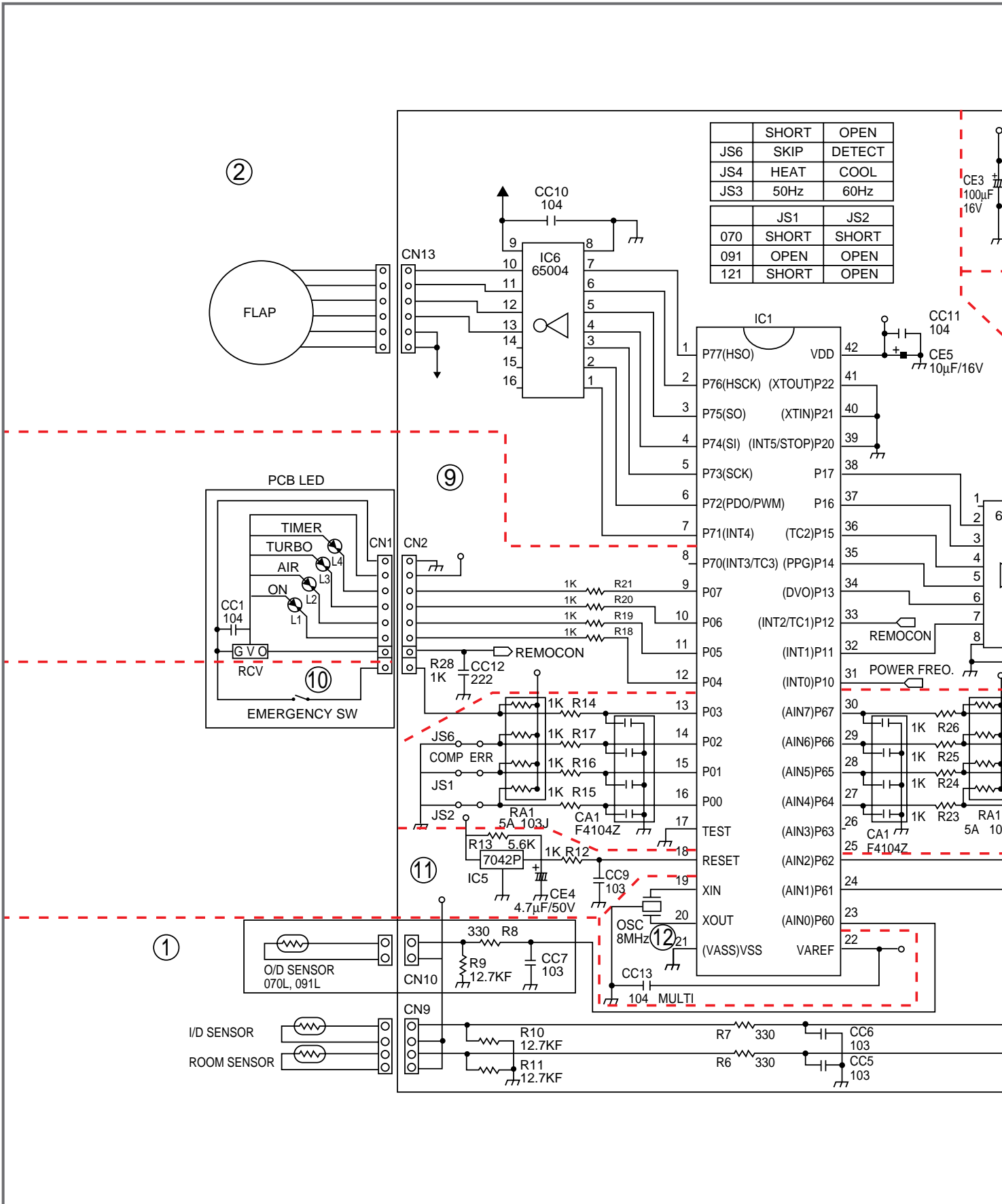
# Only Compressor Do not Run

- Check the following at cooling mode



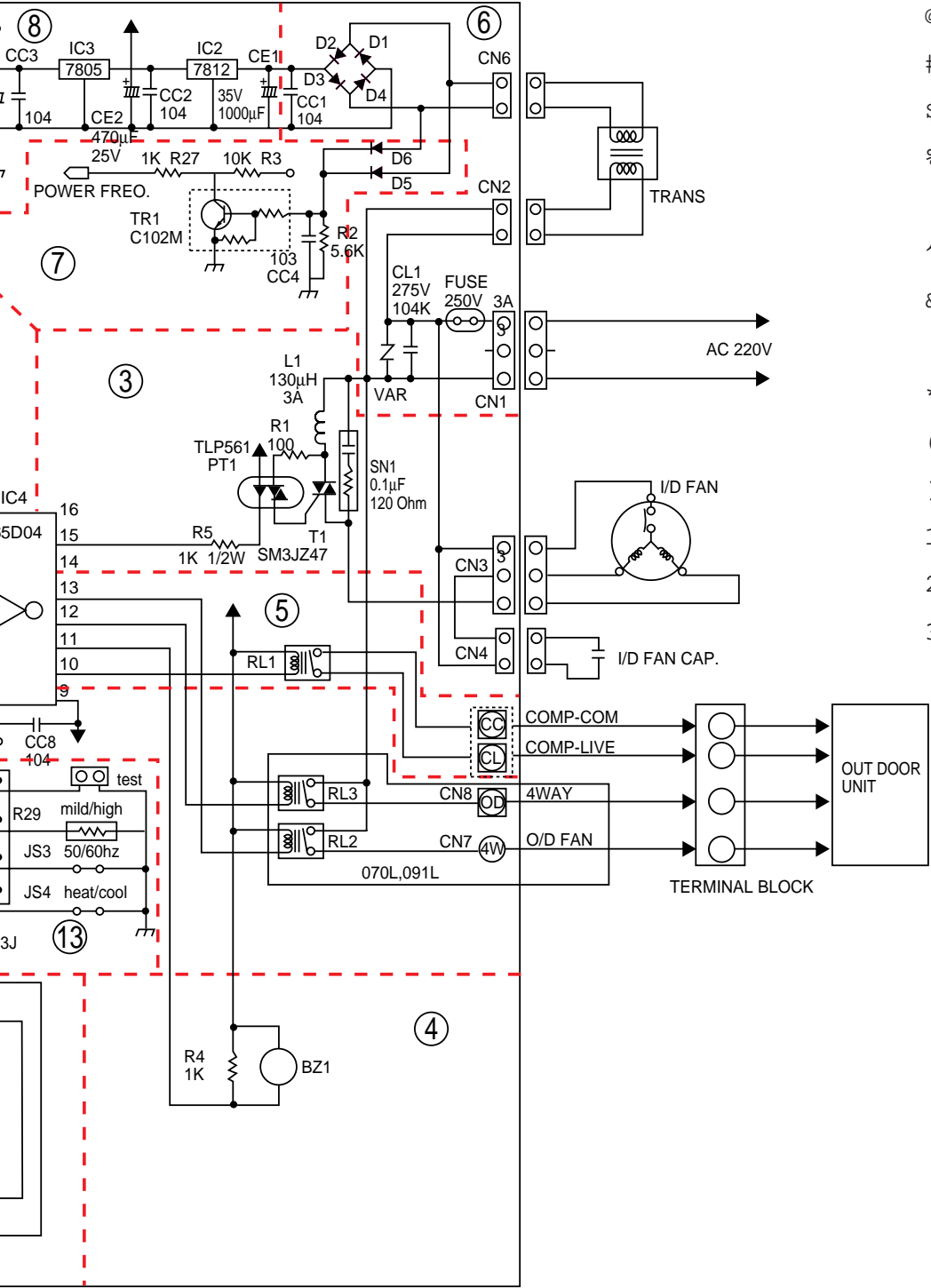
# PCB DRIVING DESCRIPTION

# 1 PCB CIRCUIT DIAGRAM

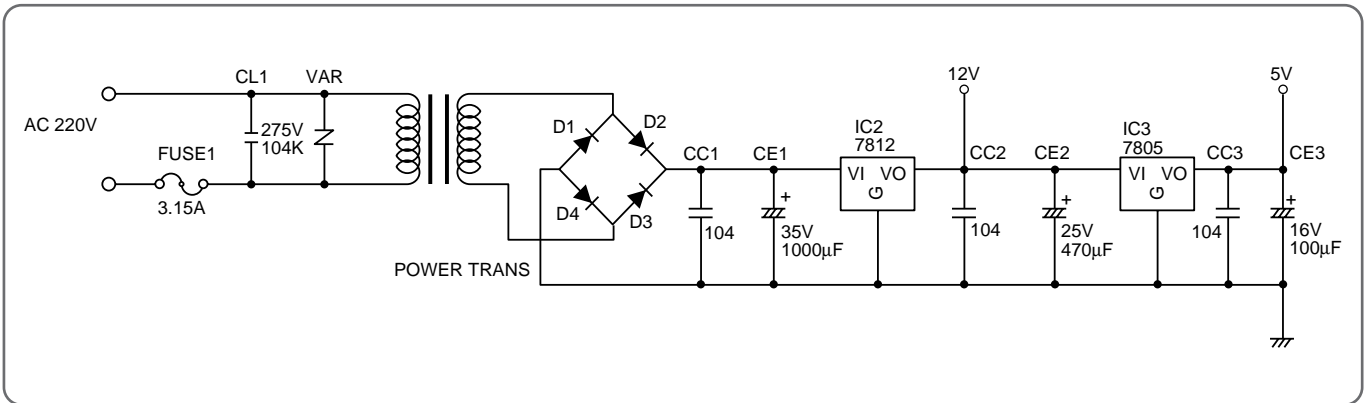


• Circuit Description

- ! TEMPERATURE SENSING
- @ STEPPING MOTOR DRIVING
- # TRIAC DRIVING FOR DIF
- \$ BUZZER DRIVING
- % COMPRESSOR RELAY DRIVING
- ^ AC POWER SUPPLY
- & POWER LINE FREQUENCY MONITORING INPUT
- \* DC POWER SUPPLY
- ( LED DRIVING
- ) SELECT SWITCH INPUT
- 1 RESET CIRCUIT
- 2 CLOCK GENERATION
- 3 MODE OPTION



## Power Supply(1)



### DESCRIPTION

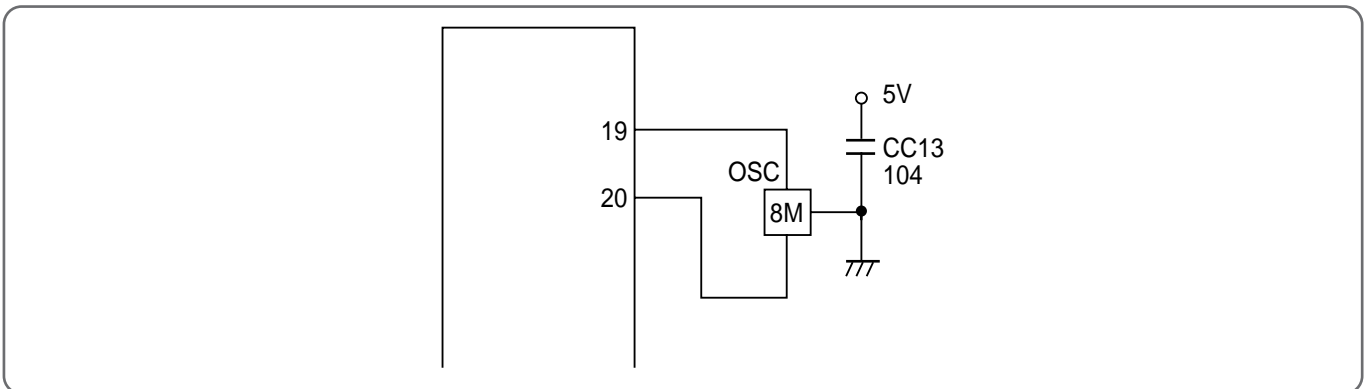
DC Power Supply in circuit needs +12V and +5V. +12V is used for Compressor Driving Relay, Triac Driving Photo Triac, Buzzer Driving Swing, Sweep Motor. AC voltage of secondary Power Transformer is rectified by Bridge Diode, and it is filtering by Main Condensor CE1.

Filtered DC voltage is about +18V, is regulated +12V DC by Regulator IC7812.

And it is regulated +5V DC by Regulator IC7805.

VAR is serge filter and CC1, CC2, CC3 is Noise filter.

## Oscillator(2)



### DESCRIPTION

Oscillatory Frequency drive Micom, it is made up 8MHz resonator oscillatory Frequency.

Oscillatory wave is as following Fig 2-1.

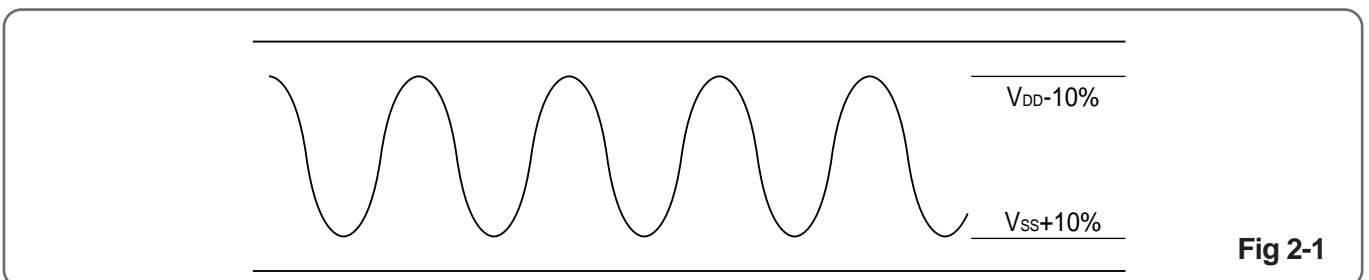
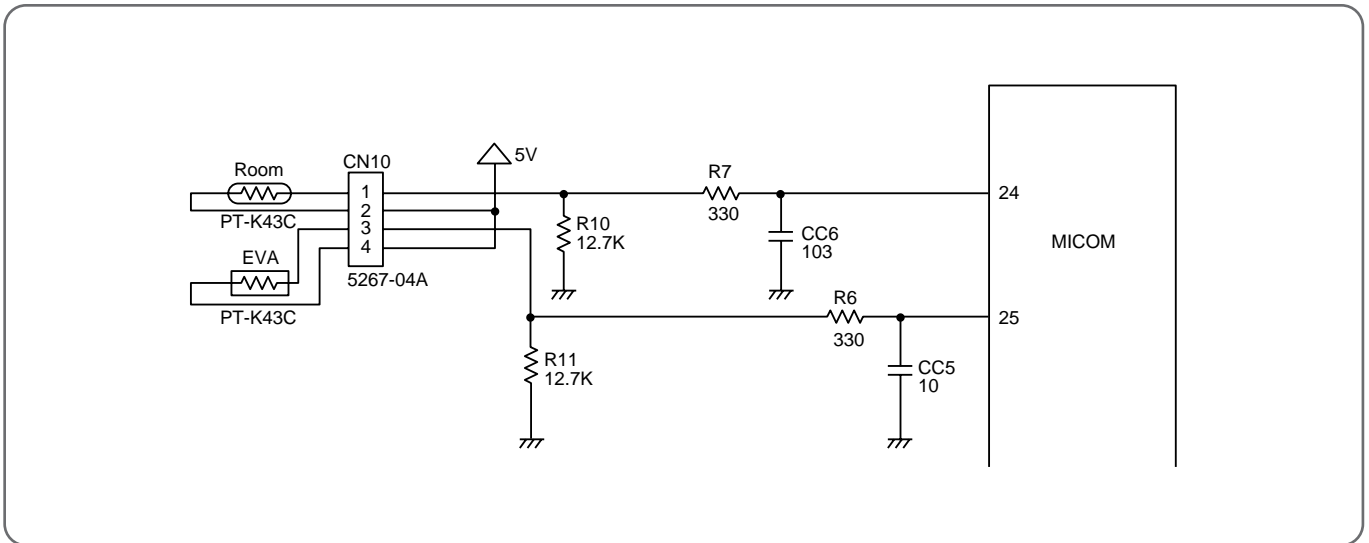


Fig 2-1

## Sensor(3)

### Room temperature and Evaporator temperature Sensor Input



## DESCRIPTION

Number 24, 25 of Micom is Terminal of A/D convertor Input.

Room temperature and Evaporator temperature is sensing by change of Thermister Resistance, Micom is put in 5V by ratio between R10 (12.7K $\Omega$ ) and R11 (12.7K $\Omega$ ).

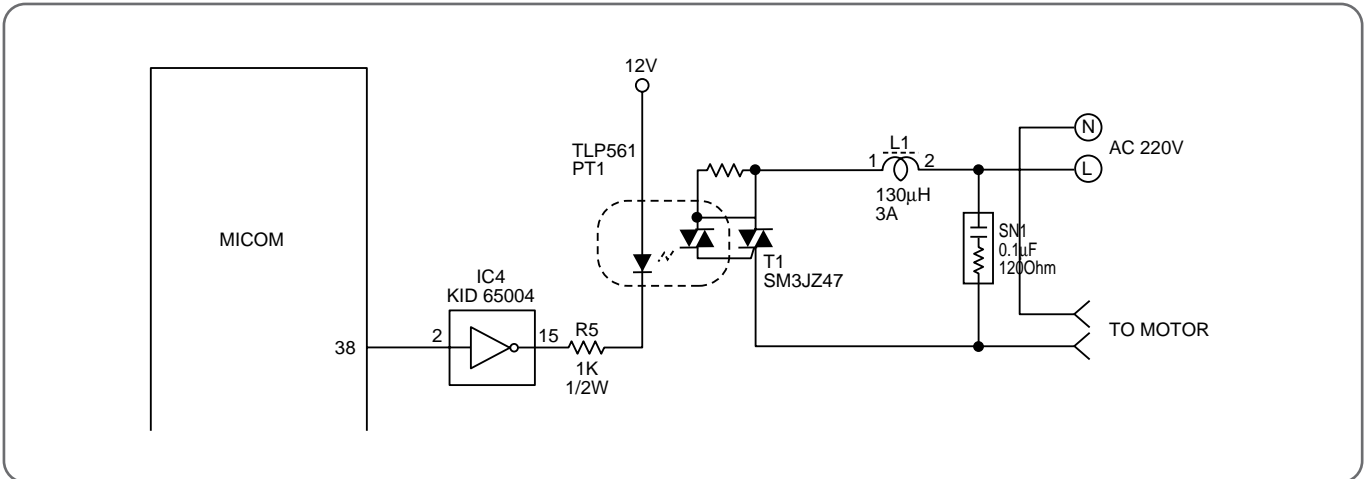
Relation between temperature and voltage is following Table 3-1.

CC5, 6 is Noise filter.

Temperature (°C)	Voltage (V)	
	No. 1	No. 3
-5	1.127	1.127
0	1.378	1.378
5	1.650	1.650
10	1.936	1.936
15	2.228	2.228

Table 3-1

## Triac Driving(4)



### DESCRIPTION

Number 38 Terminal of Micom is put out Pulse Output, by way of Buffer it is driving Photo Triac is supplied Trigger Signal.

Trigger Test of Triac is detected Zero Cross Part of AC input and it is triggered from Zero Cross part to Time delay part according to Fan Speed. (Ref. Fig 4-1) SN1 is Snubber.

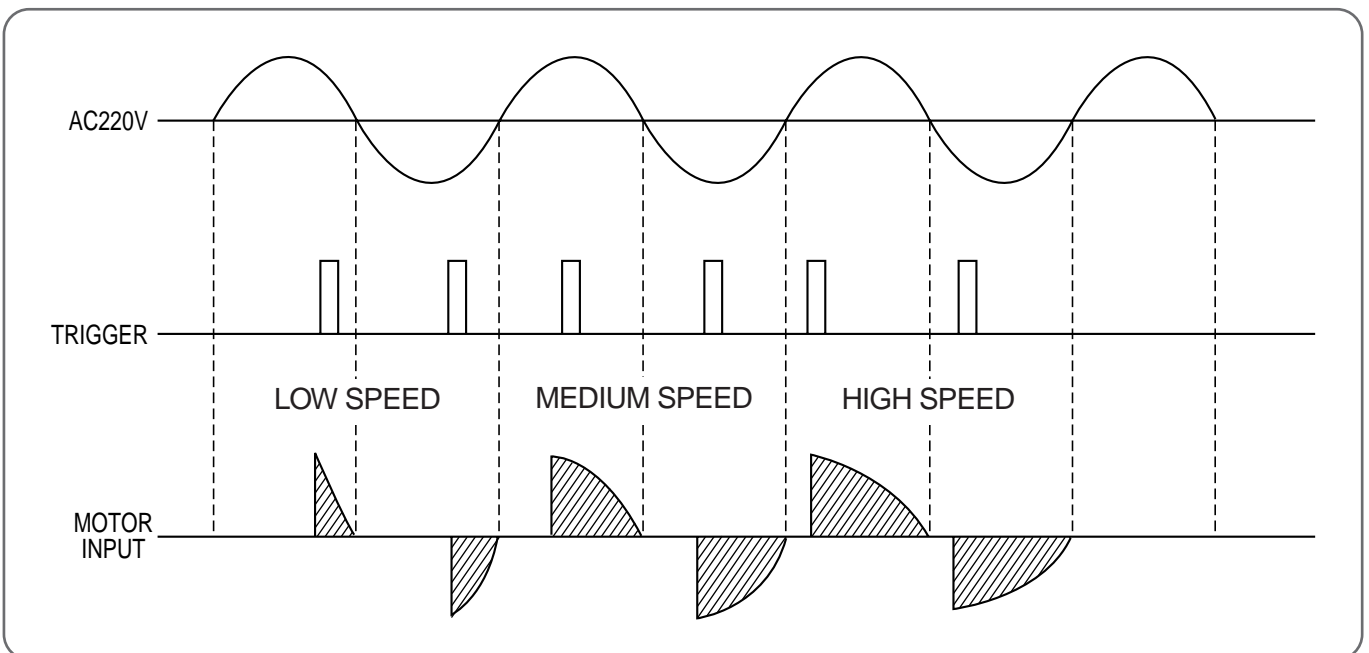
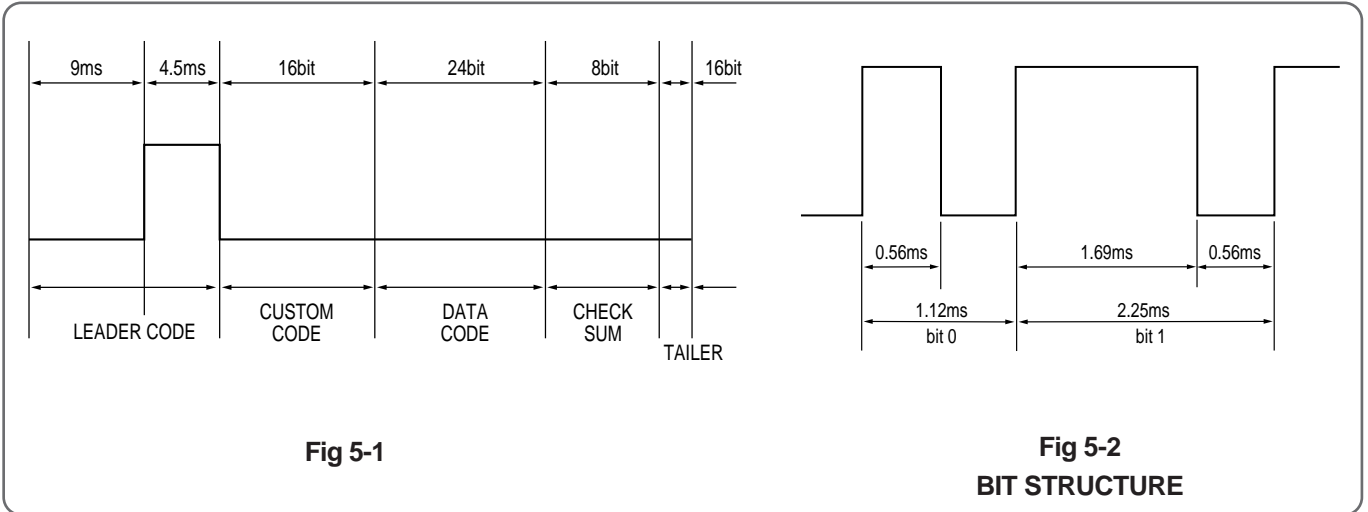


Fig 4-1

# Remote Controller(5)

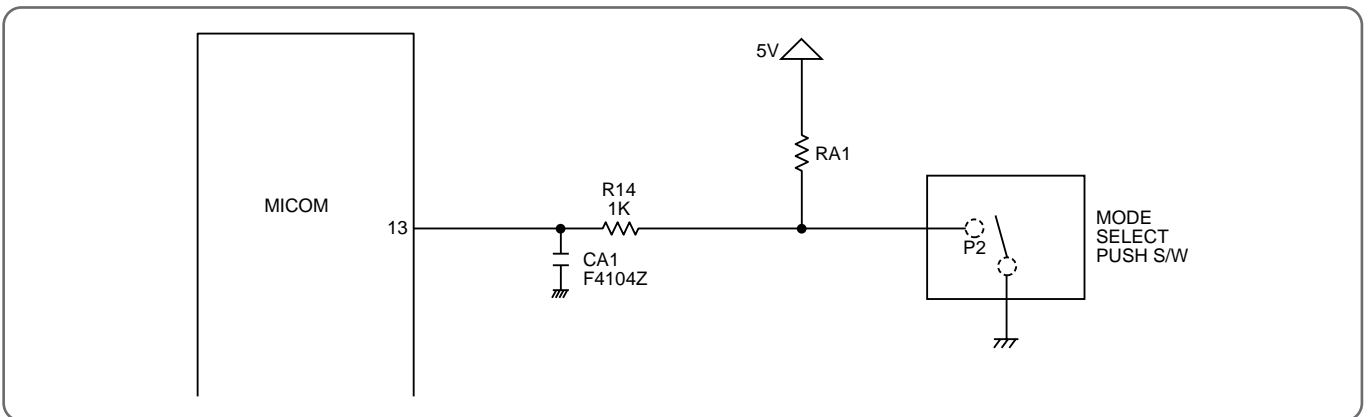
## DESCRIPTION

Signal from Remote Controller put in only Control Data Signal at Micom Terminal of Number 33, which is gotten from Carrier (38KHz) from Receive Module. Signal Wave repeat third as following Fig 5-1. But in Secondary Wave Custom Code is Reversed Face.



## Selecting Mode(6)

(SELECT S/W INPUT, OUTPUT)



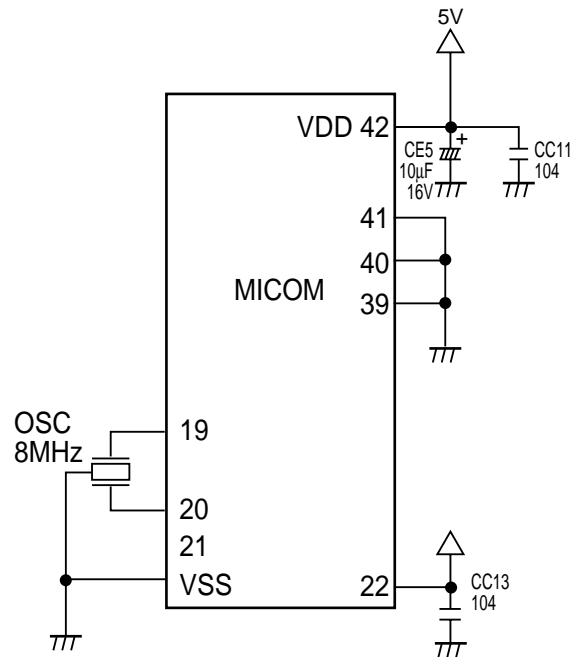
## DESCRIPTION

There are Mode according to SW position as following Table 6-1. According as port of fixed Micom is Low, the unit is operating as following Table 6-1.

POSITION	MODE
OPEN	REMOCON
GND	EMERGENCY

**Table 6-1**

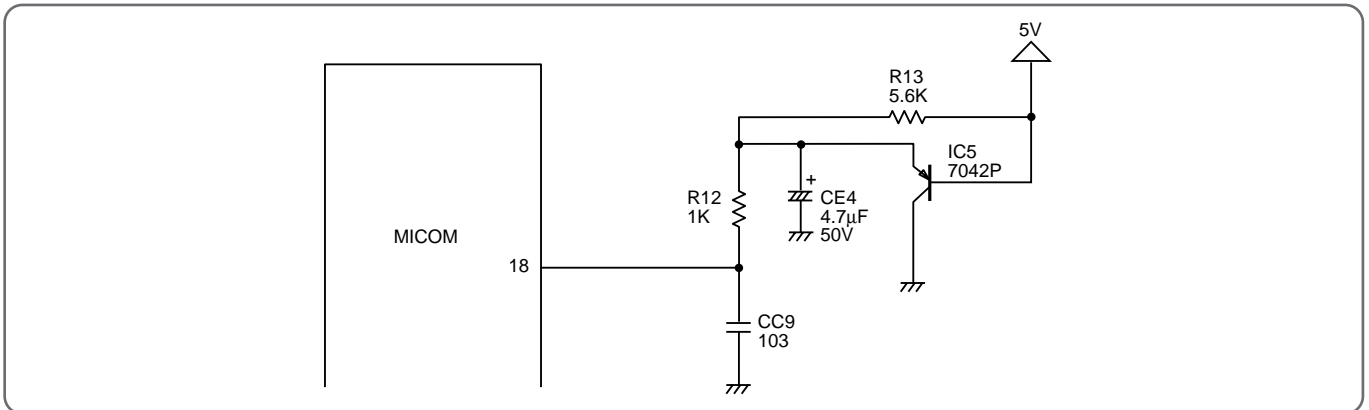
## Micom Power Supply(7)



### DESCRIPTION

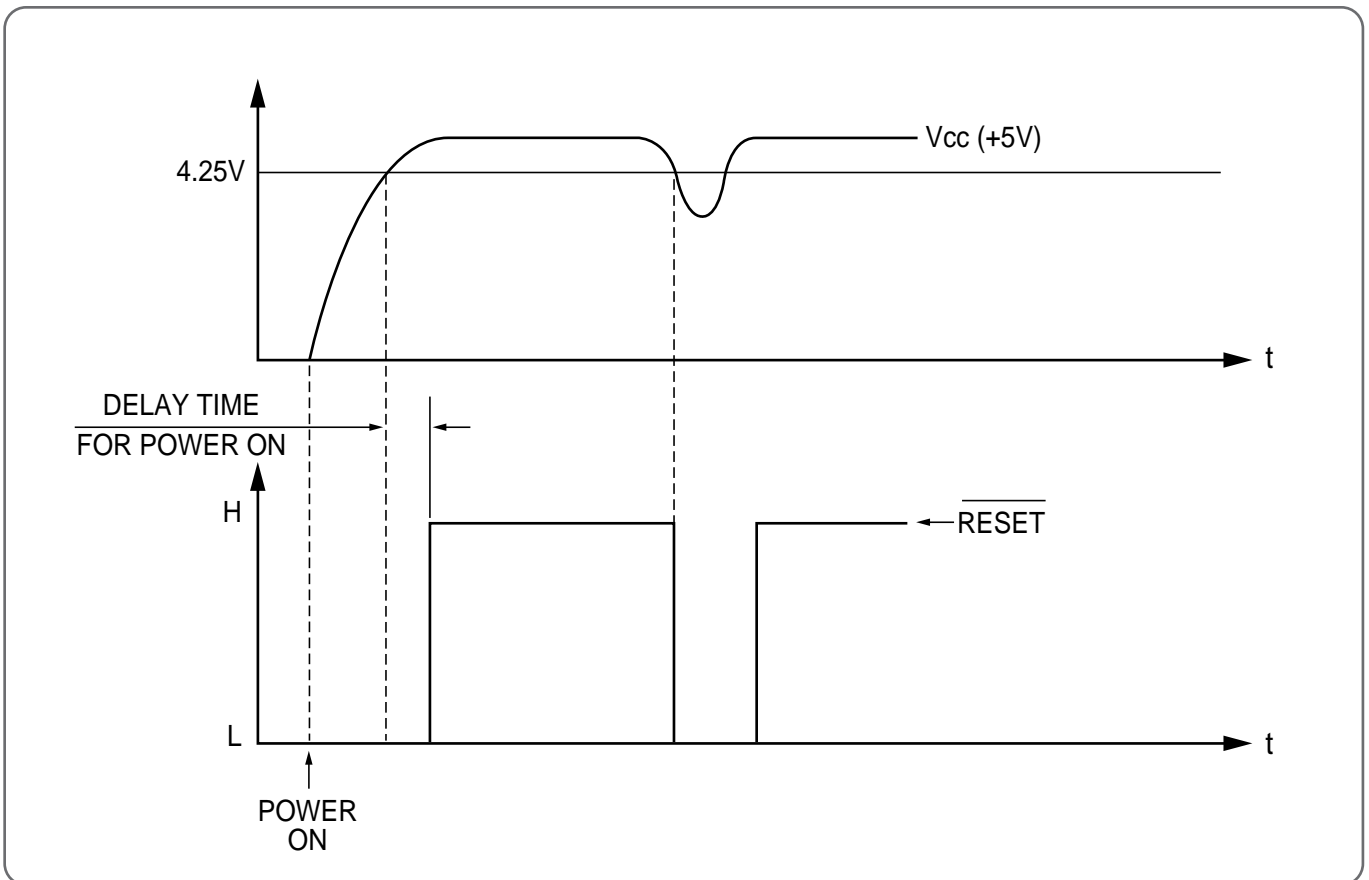
MICOM Power is supplied 5V at Number 42 using VDD, Number 19, 20 Vusing Oscillator, CC13 is noise filter.

## Reset(8)

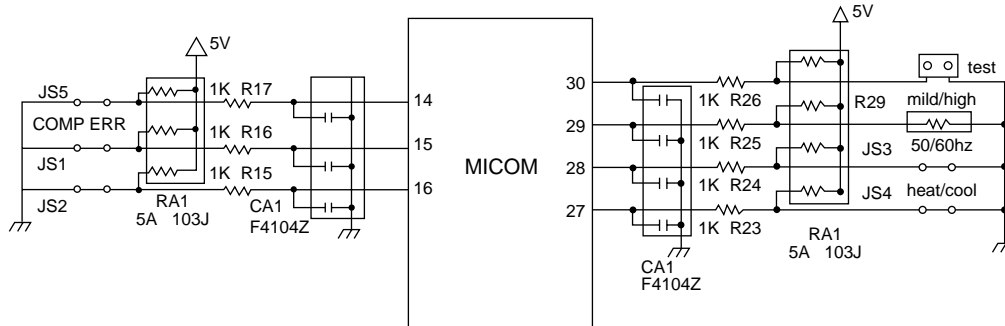


### DESCRIPTION

Voltage less than about 0.8V put in Micom Terminal of Number 18 and then Micom reset. Reset IC detect Power ON and Voltage less than 4.25V, and then send Reset Signal.



## Function Selecting(9)



### DESCRIPTION

Selecting function is as following table 9-1.

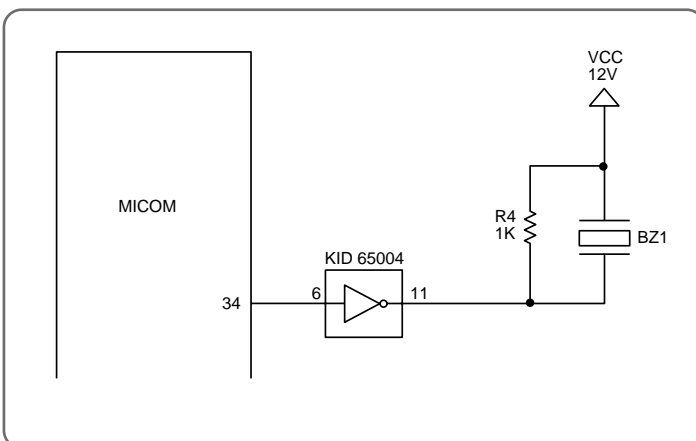
$f_R$  When power source is put at first, Function selection input is recognized.

And when the unit is running the microcomputer ignore variation of function selection input.

	SHORT	OPEN
JS6	SKIP	DETECT
JS4	HEAT	COOL
JS3	50Hz	60Hz

	JS1	JS2
070	SHORT	SHORT
091	OPEN	OPEN
121	SHORT	OPEN

## Buzzer Driving(10)



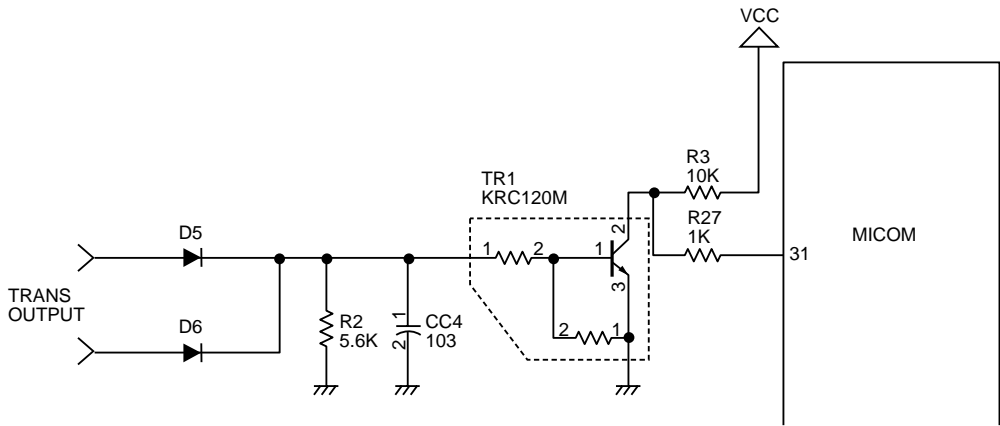
### DESCRIPTION

Micom 34 Terminal put out Buzzer Driving Pulse, its output is driving Buzzer through Buffer.

Oscillatory Frequency of buzzer is selected by internal Micom.

This unit is setting at 4KHz.

# Zero Crossing Detect(11)



## DESCRIPTION

It detect Zero Cross part of Trans output voltage, Transistor TR1 is used to put in the Micom.  
 Detail Driving is as following Fig 11-1.  
 R19 is Resistance to limit current.

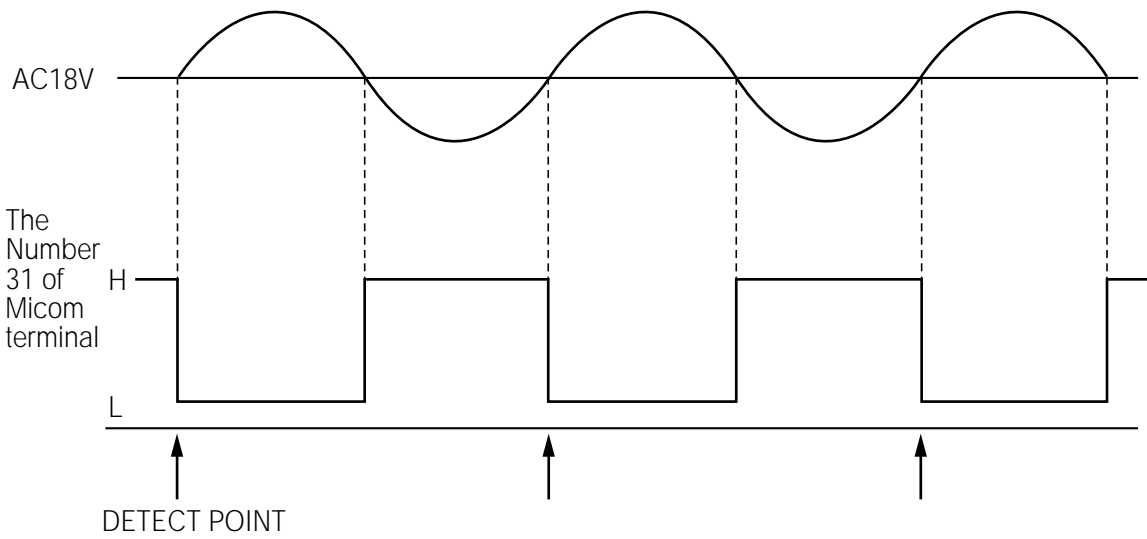
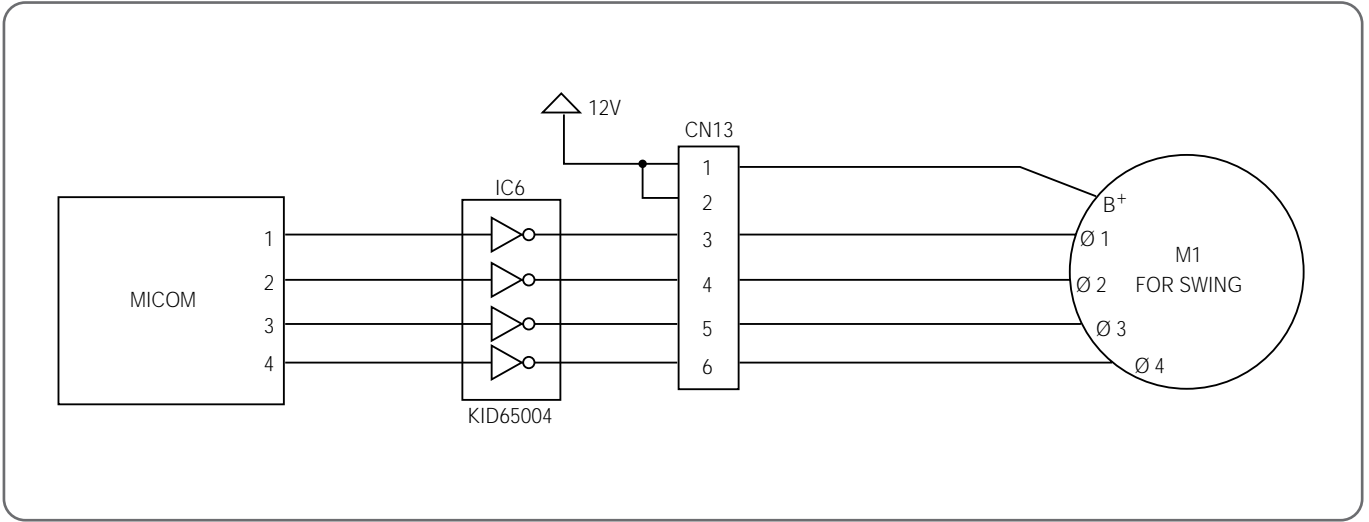


Fig 11-1

# Stepping Motor Driving(12)



## DESCRIPTION

There are one Stepping Motor for Flap (up and down) and it is used 4 face Drive Method. It is driving as following Fig 12-1. (Ring Count Method of 8 Status)

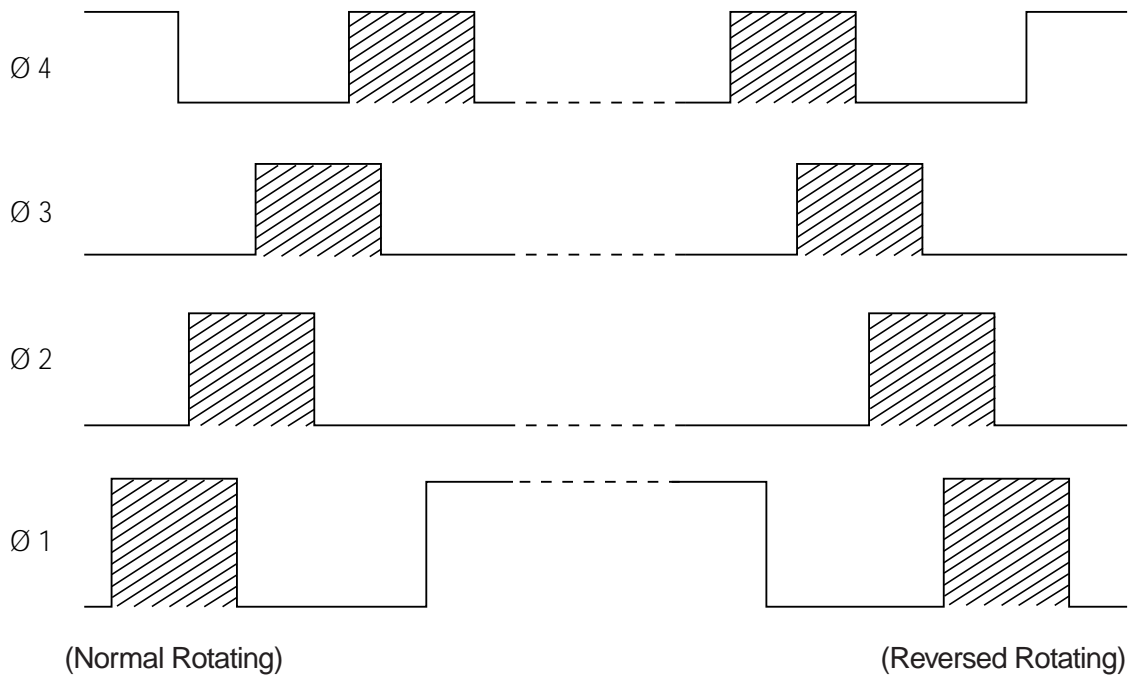
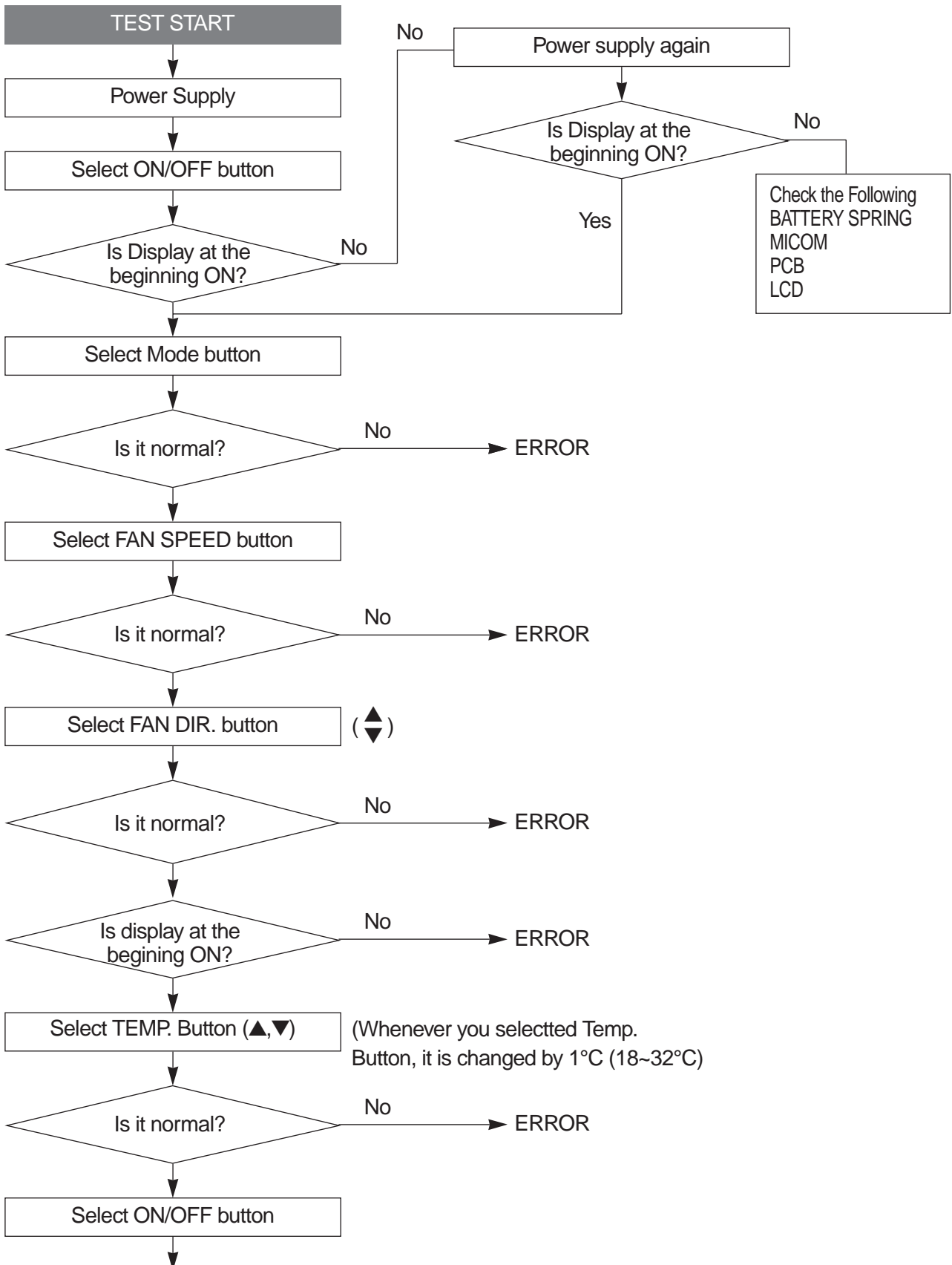
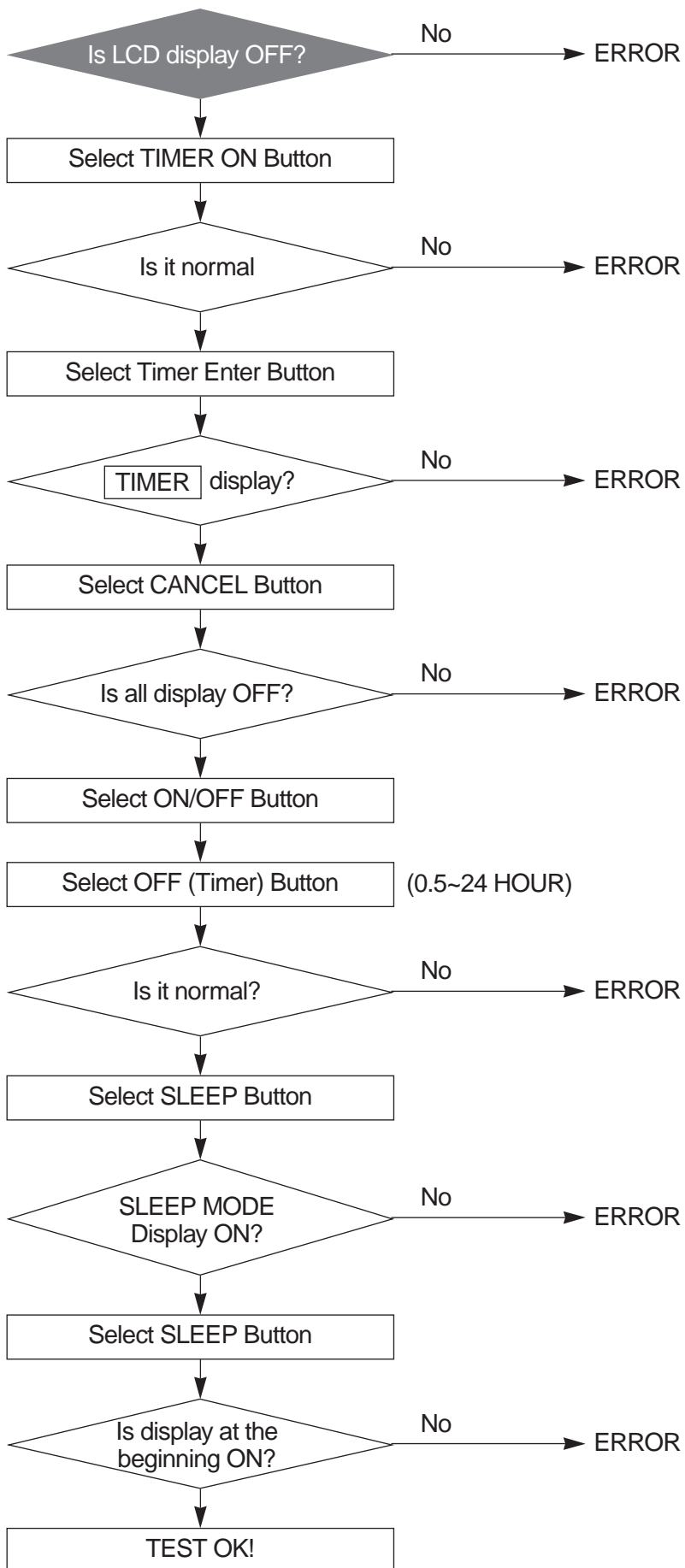


Fig 12-1

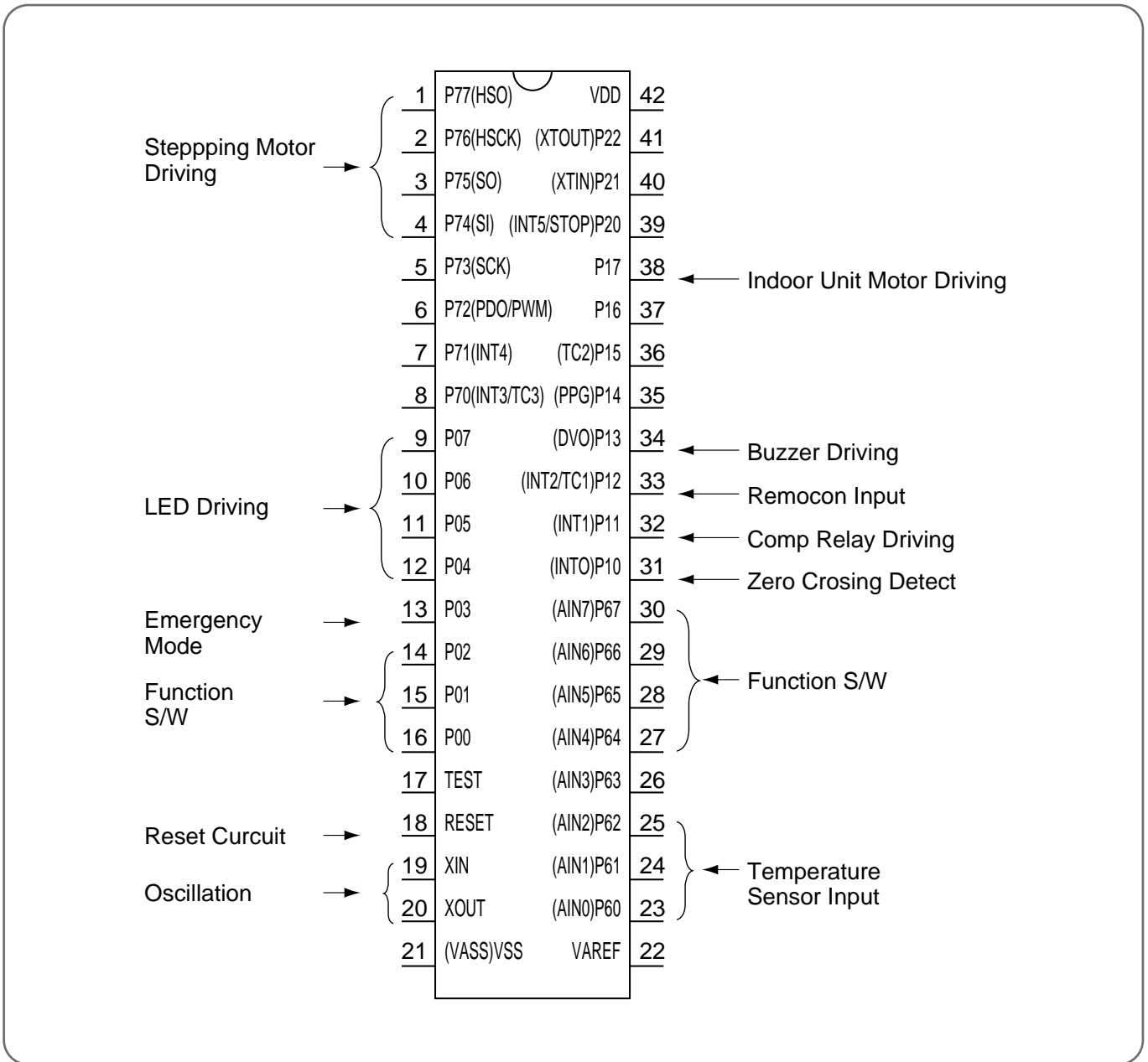
## 2 REMOTE CONTROLLER ASSMBLY FUNCTIONAL TEST METHOD



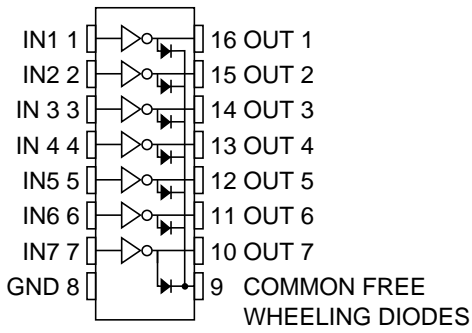


# 9. KEY COMPONENTS OF ELECTRONIC CIRCUIT

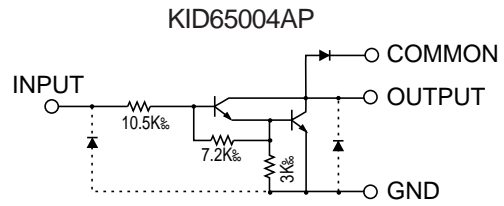
## (1) U1 (MICOM)



## (2) U2, 4 (KID65004) DARLINGTON ARRAYS

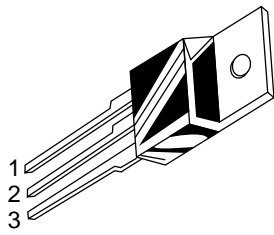


(Top View)

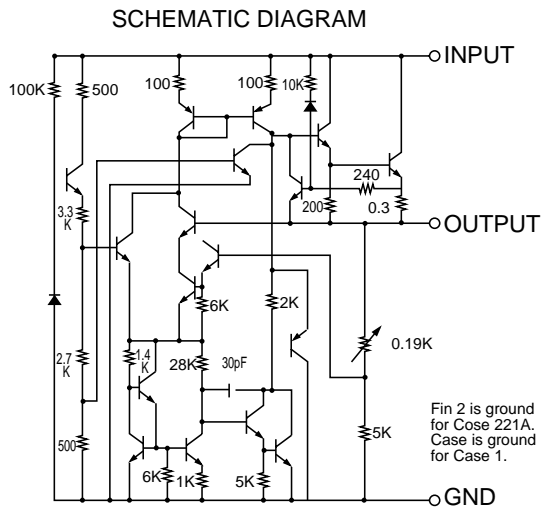


(Equivalent Circuit)

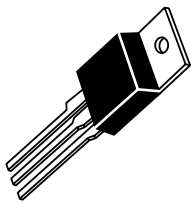
## (3) U8 (KIA7805P) : VOLTAGE REGULATOR (5VDC)



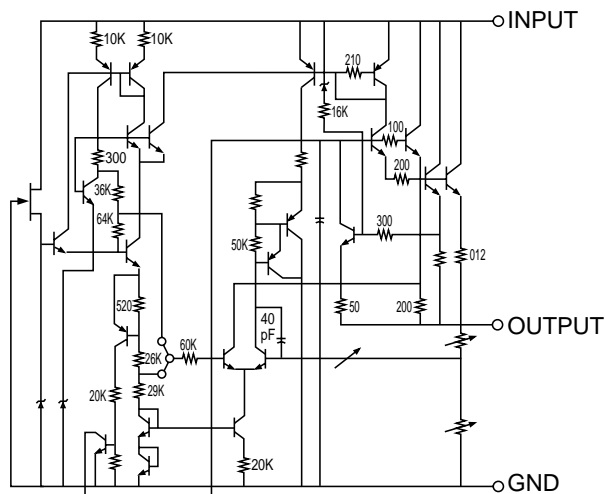
Pin 1. INPUT  
 2. GROUND  
 3. OUTPUT



## (4) U7 (KIA7812P) : VOLTAGE REGULATOR (12VDC)

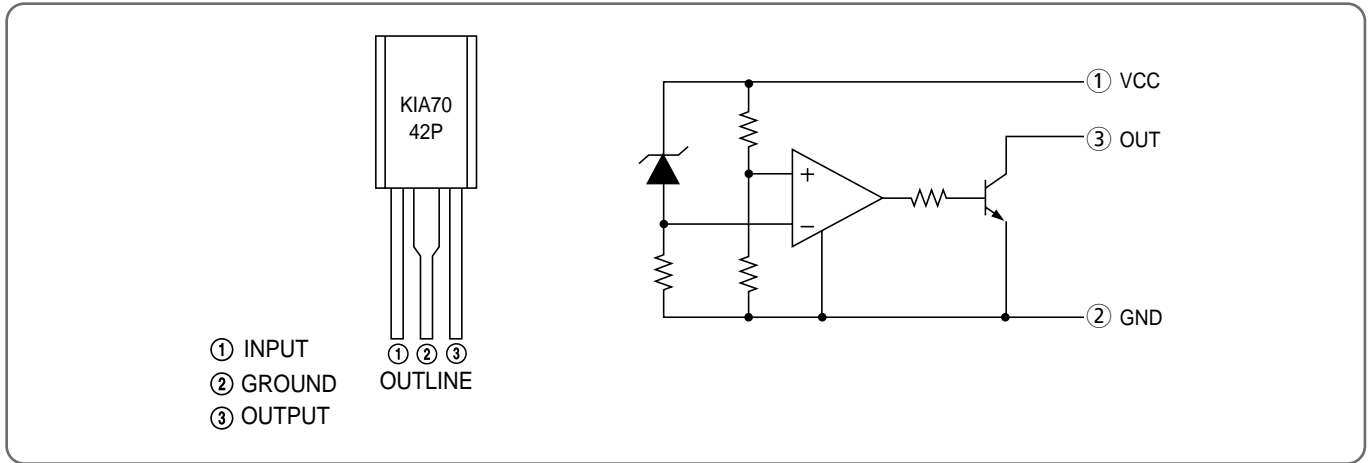


Pin 1. INPUT  
 2. GROUND  
 3. OUTPUT



(Equivalent Circuit)

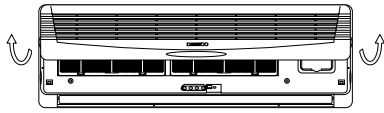
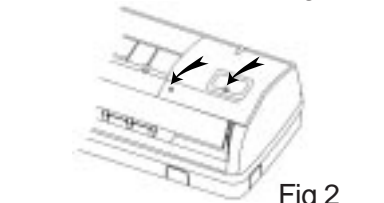
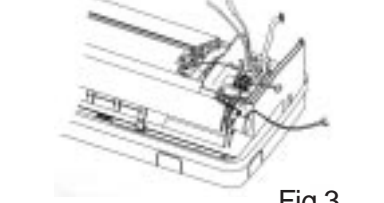


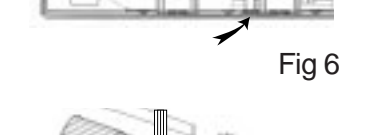

## (5) U9 (KIA7042P) : RESET IC



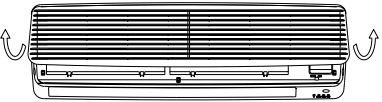
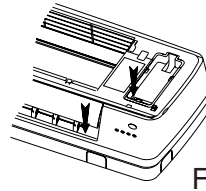
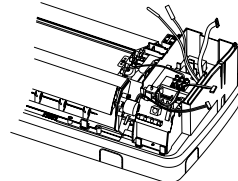
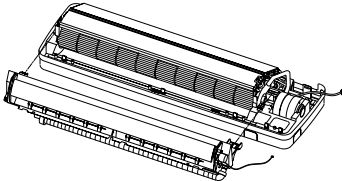
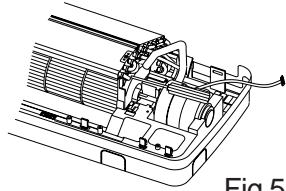
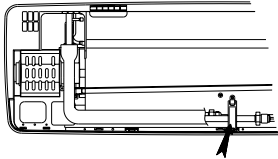
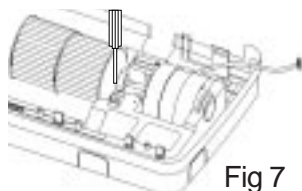
# 10. DISASSEMBLY INSTRUCTIONS

## 1 INDOOR UNIT

i DSB-070L/DSB-091L


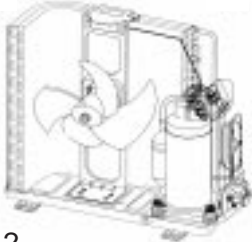
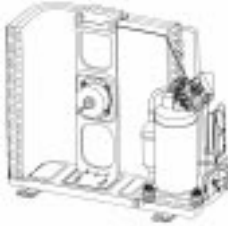
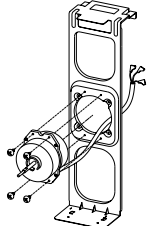

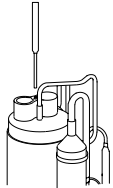
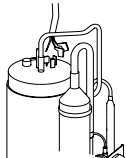
PROCEDURES	PHOTOS
<p>1. Stop the Air conditioner and disconnect the power cord from the wall outlet.</p>	
<p>2. Removing the Insert Grille and Frame Grille. (Fig 1~2)            ! Draw up the Insert Grille and remove it.            @ Loosen one screw for fixing the Cover Ter-Block.            # Loosen two screw at the Frame Grille.            § Remove the Frame Grille.</p>	
<p>3. Removing the Control Box. (Fig 3)            ! Remove room and coil thermistors.            @ Disconnect the fan motor lead wire from connection at the Control PCB.            # Disconnect the stepping motor lead wire from connection at the Control PCB.            § Remove the select switch from connection at the Control PCB.            % Loosen a screw for fixing ground wire.            ^ Remove the Control Box</p>	
<p>4. Removing the Drain Pan. (Fig 4)            ! Disconnect the Body drain hole. (left and right Body)            @ Disconnect three hook and remove the Drain Pan.</p>	
<p>5. Removing the Indoor Evaporator. (Fig 5~6)            ! Remove one screw for fixing indoor Evaporator at the Body.            @ Remove the hook for fixing Bracket Pipe at the back of Body.            # Remove Indoor Evaporator.</p>	
<p>6. Removing the Cross Flow Fan. (Fig 7)            ! Remove set screw for fixing Motor shaft.            @ Remove Cross Flow Fan.</p>	
<p>7. Remove Motor IDU and Bearing Plastic.</p>	

i DSB-121L

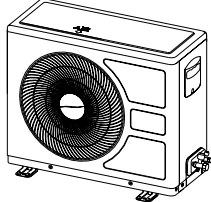
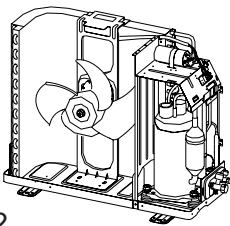
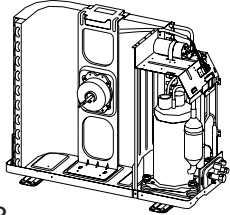
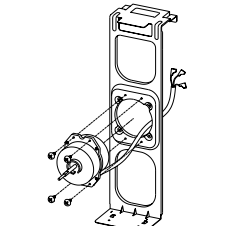
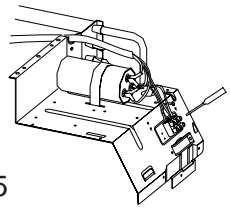
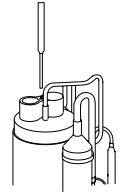
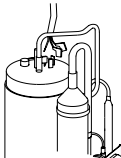
PROCEDURES	PHOTOS
<p>1. Stop the Air conditioner and disconnect the power cord from the wall outlet.</p>	
<p>2. Removing the Insert Grille and Frame Grille. (Fig 1~2)  !Draw up the Insert Grille and remove it.  @ Loosen two special screw for fixing the Cover Ter-Block.  # Loosen three screw at the Body.  \$ Remove the Frame Grille.</p>	
<p>3. Removing the Control Box. (Fig 3)  !Remove room and coil thermistors.  @ Disconnect the fan motor lead wire from connection at the Control PCB.  # Disconnect the stepping motor lead wire from connection at the Control PCB.  \$ Remove the select switch from connection at the Control PCB.  % Loosen a screw for fixing ground wire.  ^ Remove the Control Box</p>	
<p>4. Removing the Drain Pan. (Fig 4)  !Disconnect the Body drain hole. (left and right Body)  @ Disconnect three hook and remove the Drain Pan.</p>	
<p>5. Removing the Indoor Evaporator. (Fig 5~6)  !Remove three screw for fixing indoor Evaporator at the Body.  @ Remove the hook for fixing Bracket Pipe at the back of Body.  # Remove Indoor Evaporator.</p>	
<p>6. Removing the Cross Flow Fan. (Fig 7)  !Remove set screw for fixing Motor shaft.  @ Remove Cross Flow Fan.</p>	
<p>7. Remove Motor IDU and Bearing Plastic.</p>	

## 2 OUTDOOR UNIT

i DSB-070L/DSB-091L/DSB-121L(After)

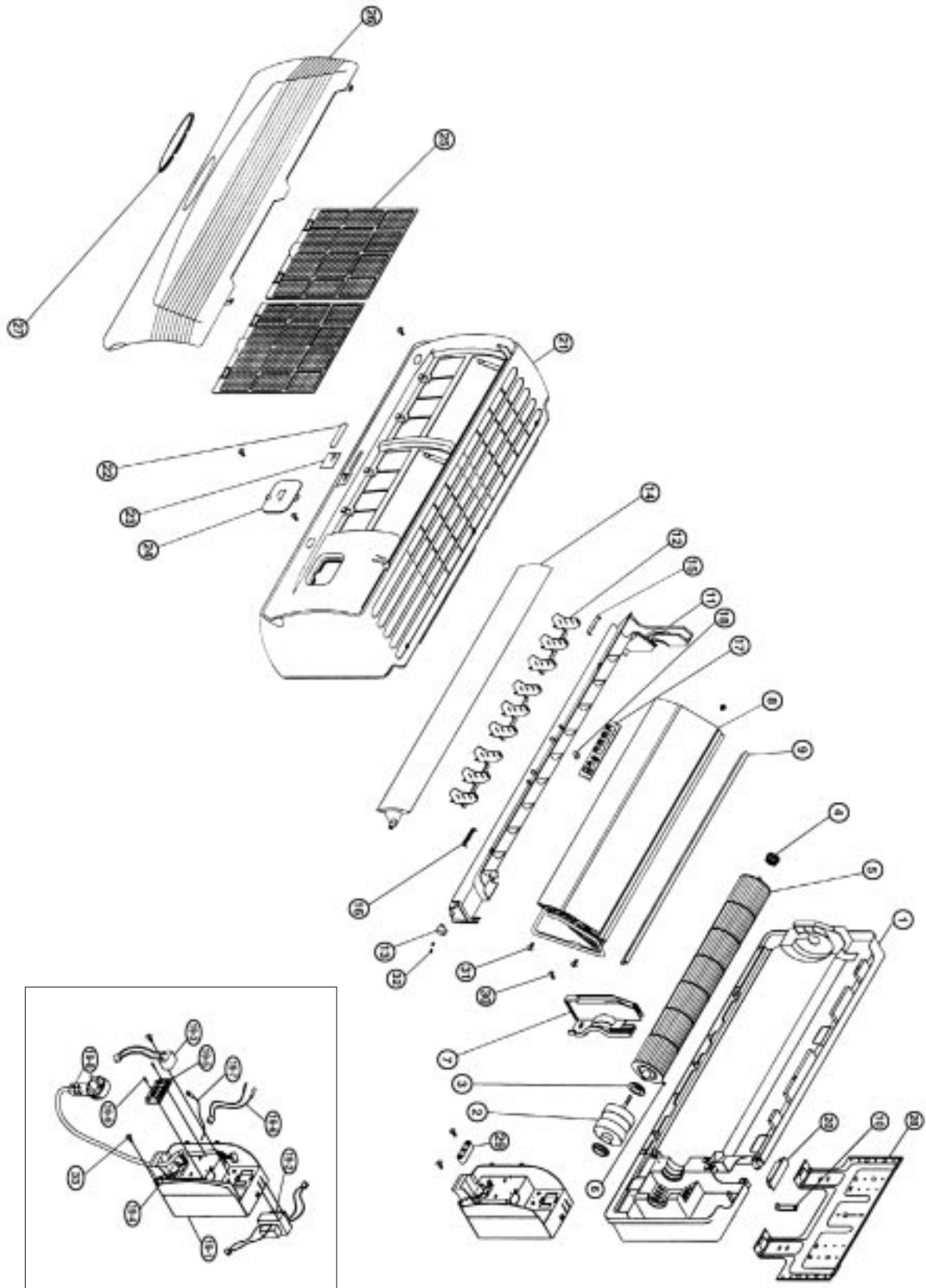
PROCEDURES	PHOTOS
<p>1. Stop the air conditioner and disconnect the wire from Indoor Unit to Outdoor Unit.</p> <p>2. Disassemble the case. (Fig 1~2)  ! Remove the Top Panel. (Loosen thirteen screw)  @ Remove the Front Cabinet. (Loosen six screw)  # Remove the Side Cabinet. (Loosen seven screw)  \$ Remove the Guide Support. (Loosen two screw)</p> <p>3. Removing the Propeller Fan. (Fig 3)  ! Loosen the Nut for fixing the Propeller Fan.  @ Remove the Plain Washer.  # Remove the Propeller Fan.</p> <p>4. Removing the Motor ODU. (Fig 4)  ! Loosen four screw at Bracket Motor.  @ Disconnect the wire at Control Panel and remove Motor ODU.</p> <p>5. Removing the Dual Capacitor. (Fig 5)  ! Disconnect the wire at Control Panel.  @ Loosen a screw at Clamp Capacitor.  # Remove the Dual Capacitor.</p> <p>6. Removing the Over load Protector. (Fig 6~7)  ! Loosen a Hex Nut at Terminal Cover.  @ Remove the Terminal Cover.  # Remove the wire at Over load Protector.  \$ Remove the Over load Protector.</p>	 <p>Fig 1</p>  <p>Fig 2</p>  <p>Fig 3</p>  <p>Fig 4</p>  <p>Fig 5</p>  <p>Fig 6</p>  <p>Fig 7</p>

i DSB-121L(Before)

PROCEDURES	PHOTOS
<p>1. Stop the air conditioner and disconnect the wire from Indoor Unit to Outdoor Unit.</p>	
<p>2. Disassemble the case. (Fig 1~2)  ! Remove the Top Panel. (Loosen two screw and remove six hook)  @ Remove the Front Cabinet. (Loosen four screw and four hook)  # Remove the Side Cabinet and Back Cabinet. (Loosen eight screw)</p>	<p>Fig 1</p> 
<p>3. Removing the Propeller Fan. (Fig 3)  ! Loosen the Nut for fixing the Propeller Fan.  @ Remove the Plain Washer.  # Remove the Propeller Fan.</p>	<p>Fig 2</p> 
<p>4. Removing the Motor ODU. (Fig 4)  ! Loosen four screw at Bracket Motor.  @ Disconnect the wire at Control Panel and remove Motor ODU.</p>	<p>Fig 3</p> 
<p>5. Removing the Dual Capacitor. (Fig 5)  ! Disconnect the wire at Control Panel.  @ Loosen a screw at Clamp Capacitor.  # Remove the Dual Capacitor.</p>	<p>Fig 4</p> 
<p>6. Removing the Over load Protector. (Fig 6~7)  ! Loosen a Hex Nut at Terminal Cover.  @ Remove the Terminal Cover.  # Remove the wire at Over load Protector.  \$ Remove the Over load Protector.</p>	<p>Fig 5</p> 
	<p>Fig 7</p> 

### 3 EXPLODED DIAGRAM (Indoor Unit)

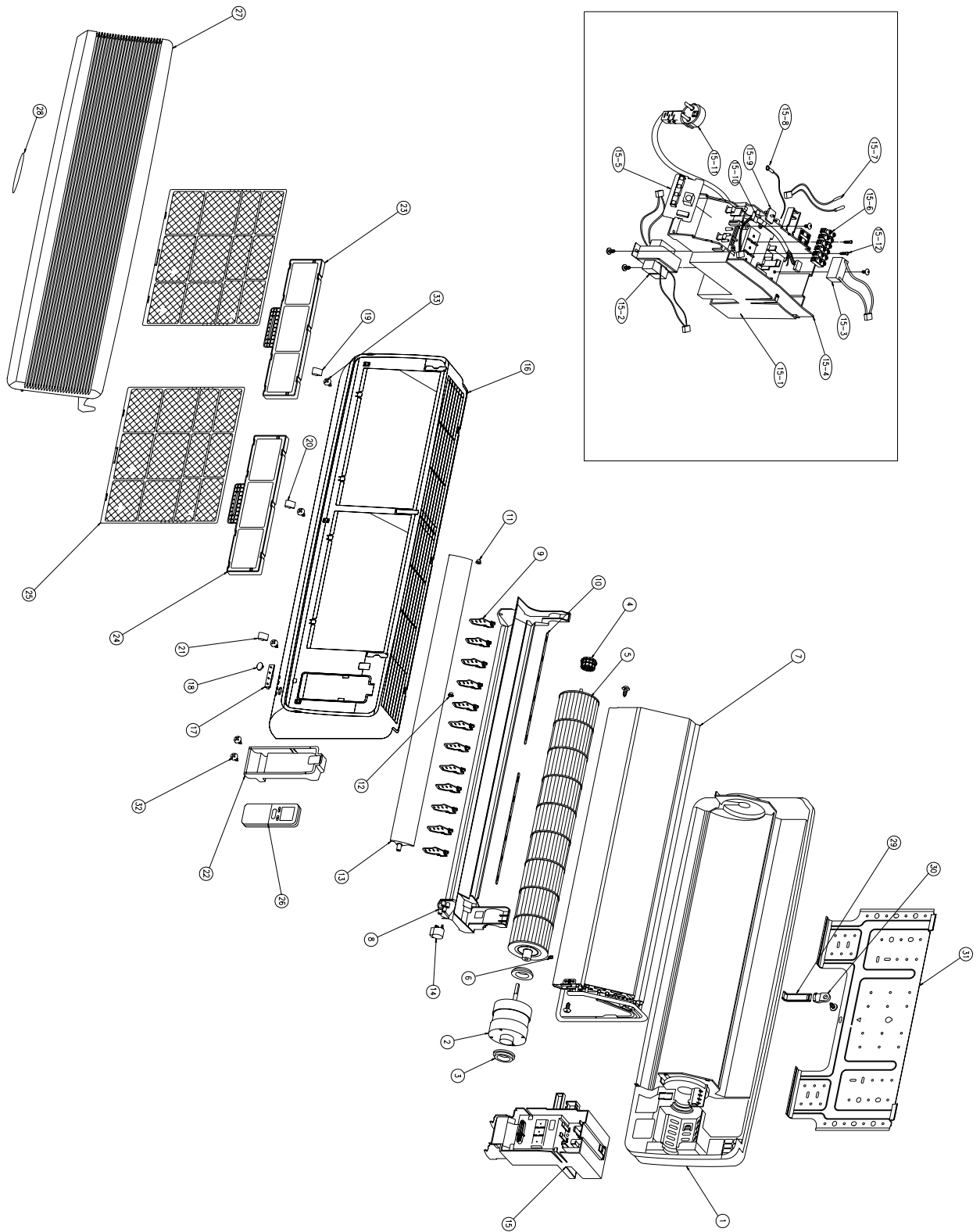
i DSB-070L/DSB-091L



## i DSB-070L/DSB-091L PART LIST(INDOOR UNIT)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100400300	BODY	1	HIPS T2.0	
2	3108004700	MOTOR IDU	1	IC-8417DWKF5A	
3	3101500400	CUSHION MOTOR	2	CR Ø30	
4	3106400400	BEARING PLASTIC ASS'Y	1		
5	3100053700	FAN CROSS FLOW ASS'Y	1	Ø90.0xL540	
6	7485401012	SET SCREW	1	6S-4x10-E MFZN	
7	3103002600	HOLDER MOTOR	1	HIPS T2.0	
8	3100053800	EVAPORATOR ASS'Y	1		
9	3102501200	EVAP. GUIDE	1	PVC T1.0 L536	
10	3100603800	BRACKET PIPE	1	HIPS T2.0	
11	3108100800	PAN DRAIN	1	HIPS T2.0	
12	3106501600	BLADE VERTICAL	3	P.P. T1.5	
13	3108003900	MOTOR STEPPING	1	MP24GA or GSP-24SW-061	
14	3107600400	FLAP	1	HIPS T2.5	
15	3101404800	COVER WIRE L	1	HIPS	
16	3101404900	COVER WIRE R	1	HIPS	
17	3100054200	LED PCB ASS'Y	1		
18	3100901600	CAP RUBBER	1	SILICON	
19-1	3100508400	CONTROL BOX	1	P.P.+G.F.20%	
19-2	5EPV050120	TRANSFORMER	1	DWA-220B	
19-3	3106900300	CAPACITOR SH. M. B	1	1.0µF 400VAC	
19-4	3100054400	CONTROL PCB ASS'Y	1		
19-5	3108912300	TERMINAL BLOCK	1	SN-DBW-03P	
19-6	3104896300	SENSOR ID ASS'Y	1	PTM-KD-43C-D2	
19-7	3102797910	HARNESS	1	I.D EARTH	
19-8	31013A24B1	POWER CORD ASS'Y	1	16A 250V	
19-9	7111301611	SCREW TAPPING	2	T1S PAN 3x16 MFZN	
20	3100400400	BODY-TOP	1	HIPS T2.0	
21	3102200800	FRAME GRILLE	1	HIPS T2.5	
22	3104508700	PLATE LED	1	PC SHEET T0.2	
23	3104510200	PLATE SWITCH	1	PC SHEET T0.2	
24	3101404600	COVER TERMINAL BLOCK	1	HIPS T2.0	
25	3102200900	FILTER FRAME	2	P.P. T2.0	
26	3102402200	INSERT GRILLE	1	HIPS T2.5	
27	3101403900	COVER LED	1	ABS(TRANSPARENCY) T2.0	
28	3104507200	PLATE MOUNTING	1	SBHG 1 T0.7	
29	3101203000	CLAMP WIRE	1	P.P.+G.F.20%	
30	7S422X40B1	SPECAIL SCREW	8	TT2 TRS SE 4X12 MFZN	
31	7112400611	SCREW TAPPING	2	T1S TRS 4X6 MFZN	
32	7141400811	SCREW TAPPING	2	T2 PAN M4X8 MFZN	
33	7122401211	SCREW TAPPING	1	T2S TRS 4X12 MFZN	

i DSB-121L



## i DSB-121L PART LIST(INDOOR UNIT)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100400201	BODY	1	ABS or HIPS	
2	3108001220	MOTOR IDU	1	220V 50/60Hz	
3	3101500400	CUSHION MOTOR	2	CR	
4	3106400200	BEARING PLASTIC ASS'Y	1		
5	3100014400	FAN CROSS FLOW ASS'Y	1	SAN+G. F20%	
6	7485401012	SET SCREW	1	6S-4 X 10-E	
7	3100014300	EVAPORATOR ASS'Y	1		
8	3108100401	PAN DRAIN	1	ABS	
9	3106500800	BLADE VERTICAL MN	12	ABS	
10	3106300800	BAR BLADE	2	ABS	
11	3100700800	BUSHING L	1	POM	
12	3100700700	BUSHING R	1	POM	
13	3107600300	FLAP	1	ABS	
14	3108000100	MOTOR STEPPING	1	MG28GA	
15	3100017510	CONTROL BOX ASS'Y	1		BUYER
15-1	3100503101	BOX CONTROL	1	P.P+G.F20%	
15-2	5EPV050100	TRANS FORMER	1	DWA220A-50/60Hz	
15-3	3106900300	CAPACITOR SH.M.B	1	1.0 $\mu$ F 400VAC	
15-4	3100054400	CONTROL PCB ASS'Y	1	FR-1	
15-5	3100054200	LED PCB ASS'Y	1	FR-1	
15-6	3108901230	TERMINAL BLOCK	1	SN-DBW-03P	
15-7	3104896300	SENSOR I.D ASS'Y	1	PTM-KD43C-D2	

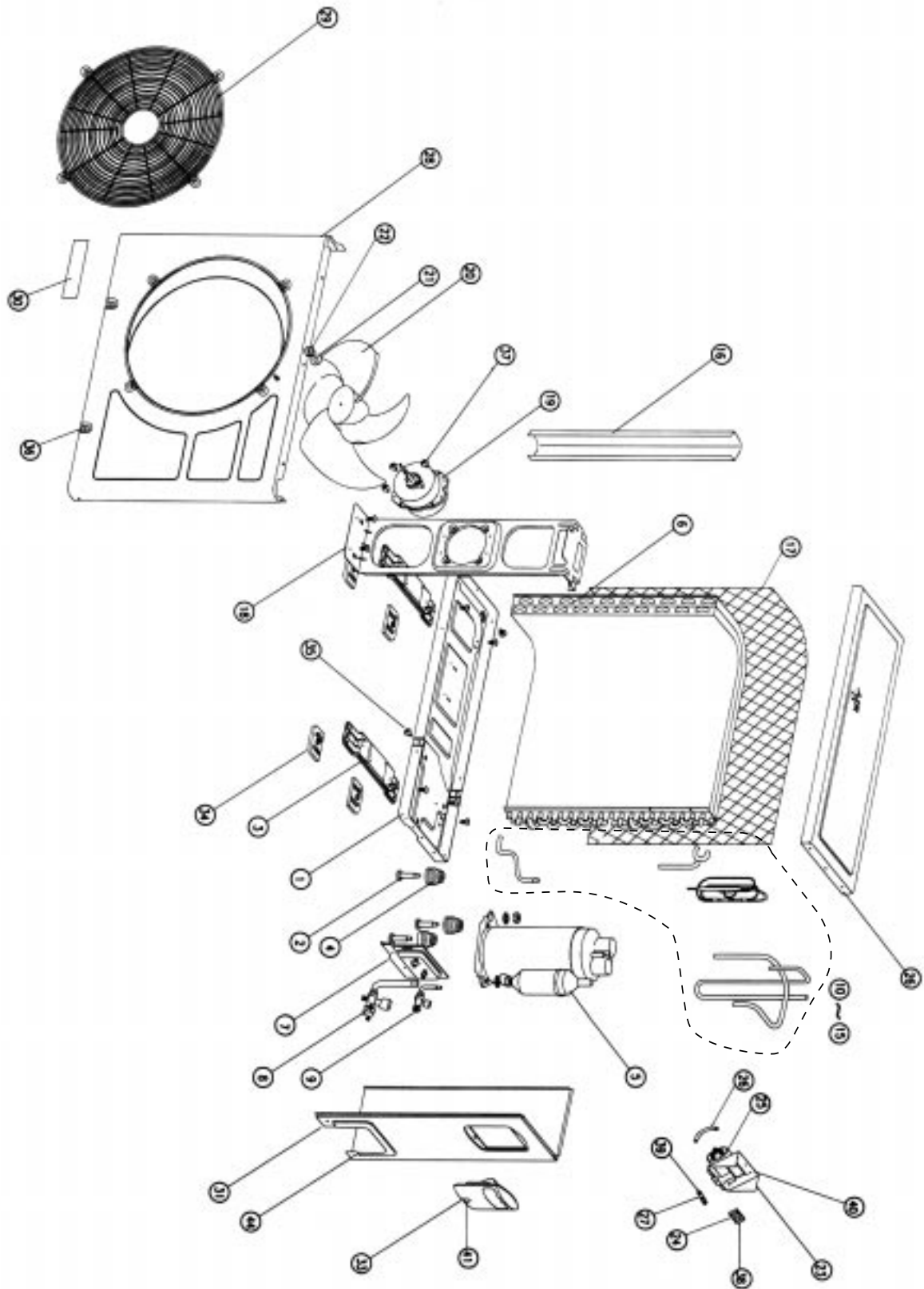
## i DSB-121L PART LIST(INDOOR UNIT)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
15-8	3102794000	HARNESS	1	I.D EARTH	
15-9	3103400300	KNOB RESET SWITCH	1	ABS	
15-10	3100024000	MODE SELECT ASS'Y	1	TS-11 & HARNESS	
15-11	3101395060	POWER CORD ASS'Y	1		BUYER
15-12	7111301611	TAPPING SCREW	2	TIS PAN 3 X 16 MFZN	
16	3102200401	FRAME GRILLE	1	ABS	BUYER
17	3103600300	LAMP INDICATE	1	MIPS	
18	3105500500	WINDOW SENSOR	1	ACRIL	
19	3100901000	CAP FRAME L	1	ABS	
20	3100900900	CAP FRAME C	1	ABS	
21	3100900800	CAP FRAME R	1	ABS	
22	3101401701	COVER TERMINAL BLOCK	1	ABS	
23	3100017800	FILTER ELECTRO ASS'Y	1		
24	3100017900	FILTER CARBON ASS'Y	1		
25	3100017700	FILTER PRE ASS'Y	2		
26	3108400110	REMOCON ASS'Y	1		BUYER
27	3102401500	INSERT GRILLE	1	ABS	
28	3107500200	EMBLEM	1	URETANE	BUYER
29	3100602400	BRACKET PIPE	1	HIPS	
30	3101201200	CLAMP BRACKET PIPE	1	HIPS	
31	3104503900	PLATE MOUNTING	1	SBHG1	
32	3106001600	SPECIAL SCREW	1	T2 4 X 16 MFNI LOCKING	
33	7S422 X 40B1	SPECIAL SCREW	13	TT2 TRS SE 4 X 12 MFZN	

f NO 15, 15-11, 16, 26, 28 Will be changed depend on export destination & buyer requirements.

## 4 EXPLODED DIAGRAM(Outdoor Unit)

i DSB-070L/DSB-091L/DSB-121L(After)



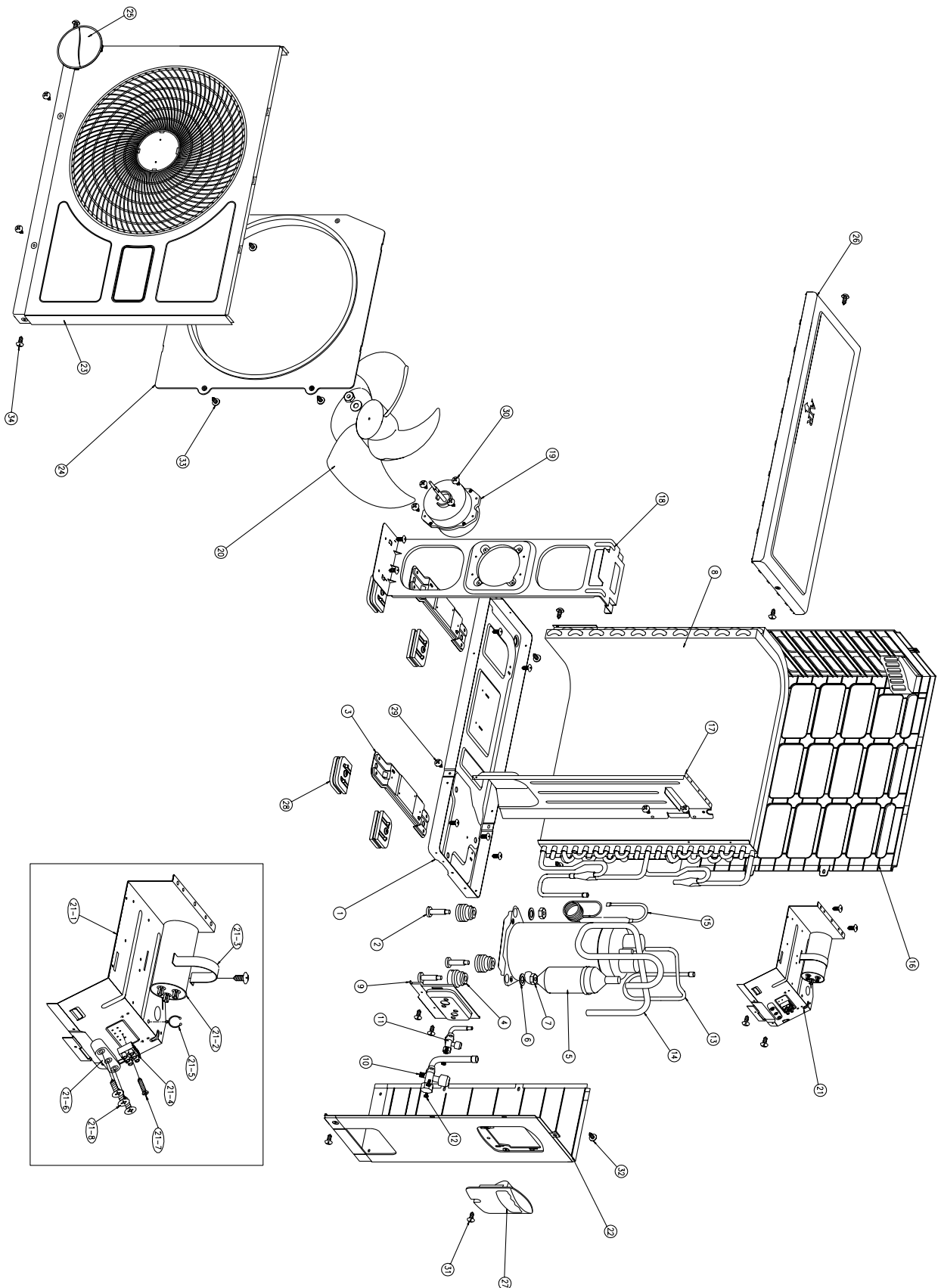
DSB-070L/DSB-091L /DSB-121L(After) PART LIST(OUTDOOR UNIT)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100300511	PAN BASE	1	SECC T1.2	070L/091L
	3100300531			SECC T1.2	121L
2	3107101180	COMP. BOLT	3	M8 x L47.5	070L(LG COMP. QB125PL12B)
					091L(LG COMP. QK164PN12F)
	3106000900			M8XL46.5	091L(DW COMP. RBB090A001)
					121L(DW COMP. RCB120A001)
3	3102100800	FOOT	2	SECC T1.2	070L/091L/121L
4	3107101110	COMP. GROMMET	3	EPDM	070L(LG COMP. QB125PL12B)
					091L(LG COMP. QK164PN12F)
	3108134AEO				091L(DW COMP. RBB090A001)
					121L(DW COMP. RCB120A001)
5	3107101100	COMPRESSOR ASS'Y	1	QB125PL12B	070L
	3107101800			QK164PN12F	091L
	3RC0020JE0			RBB090A001	
	3100030CE0			RCB120A001	121L
6	3100054800	CONDENSER ASS'Y	1	L465xW208.5xH508	070L/091L
	3100014110				121L
7	3100602200	BRACKET SERVICE	1	SECC T1.2	
8	3105400700	SERVICE VALVE	1	1/2 <sub>i</sub> "	
9	3105400800	SERVICE VALVE	1	1/4 <sub>i</sub> "	
10	3100006400	PIPE COND IN ASS'Y	1	C1220T	070L/091L
	3104410710				121L
11	3104412800	PIPE COND OUT ASS'Y	1	C1220T	121L
12	3104411411	PIPE OUTLET	1	C1220T	070L/091L
	3104411420				121L
13	3100055100	PIPE SUCTION ASS'Y	1	C1220T	070L(LG COMP. QB125PL12B)
	3100055110				091L(LG COMP. QK164PN12F)
	3100055300				091L(DW COMP. RBB090A001)
	3100020710				121L(DW COMP. RCB120A001)
14	3100055200	PIPE DISCHARGE ASS'Y	1	C1220T	070L(LG COMP. QB125PL12B)
	3100055210				091L(LG COMP. QK164PN12F)
	3100055200				091L(DW COMP. RBB090A001)
	3100020610				121L(DW COMP. RCB120A001)
15	3100014200	PIPE FILTER ASS'Y	1	C1220T	070L(LG COMP. QB125PL12B)
	3100061820				091L(LG COMP. QK164PN12F)
	3100061810				091L(DW COMP. RBB090A001)
	3100014200				121L(DW COMP. RCB120A001)

## DSB-070L/DSB-091L /DSB-121L(After) PART LIST(OUTDOOR UNIT)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
16	3102501100	GUIDE SUPPORT	1	SECC T1.2	
17	3102402600	GRILLE CONDENSER	1	P.E. 660x525.5xT3.5	
18	3100601901	BRACKET MOTOR	1	SBHG1 T1.2	
19	3108004000	MOTOR ODU	1	IC-9625DWLF5A	070L
	3108004100			IC-9630DWLF5A	091L
	3108000800			IC-9430DWLC5B	121L
20	3101801000	FAN PROPELLER	1	ABS+G.F20% (BLACK)	
21	7400208411	WASHER PLAIN	1	PW-2-8 MFZN	
22	7392800011	NUT LOCK	1	M8 x P1.25 MFZN	
23	3104201900	PANEL CONTROL	1	SBHG1 T0.8	
24	3108912300	TERMINAL BLOCK	1	SN-DBW-03P	
25	3109501201	CAPACITOR DUAL	1	1.8+25 $\mu$ F 400VAC	070L(LG COMP. QB125PL12B)
	3109502010			1.8+30 $\mu$ F 400VAC	091L(LG COMP. QK164PN12F)
	3109500700			3.5+25 $\mu$ F 400VAC	121L(DW COMP. RCB120A001)
26	3101201100	CLAMP CAPACITOR	1	SBHG1 T1.0	
27	3101202000	CLAMP CORD	1	NYLON	
28	3100801200	CABINET FRONT	1	SECC T0.8	
29	3102402500	GRILLE DISCHARGE	1	Ø425.5	
30	3103502210	LABEL BRAND	1	P.C.FILM T0.4	
31	3100801300	CABINET SIDE	1	SECC T0.8	
32	3104201800	PANEL TOP	1	SECC T0.8	
33	3102600300	HANDLE	1	A.E.S. T2.5 (WH104A)	
34	3102101000	FOOT CUSHION	4	NBR (HARDNESS 45° ; 5°)	
35	7112401211	TAPPING SCREW	11	T1S TRS 4X12 MFZN	
36	7112401214	TAPPING SCREW+PVC WASHER	29	T1S TRS 4X12 MFZN	
37	7112401211	TAPPING SCREW	4	T1S TRS 4X12MFZN	070L/091L
	7112402011			T1S TRS 4X20 MFZN	121L
38	7111301611	TAPPING SCREW	2	T1S PAN 3X16 MFZN	
39	7112403011	TAPPING SCREW	3	T1S TRS 4X30 MFZN	
40	7S432X40A1	SPECIAL SCREW	1	TT3 TRS SE 4X8 MFZN	
41	7112401614	TAPPING SCREW+PVC WASHER	5	T1S TRS 4X16 MFZN	

i DSB-121L(Before)



## i DSB-121L(Before) PART LIST(OUTDOOR UNIT)

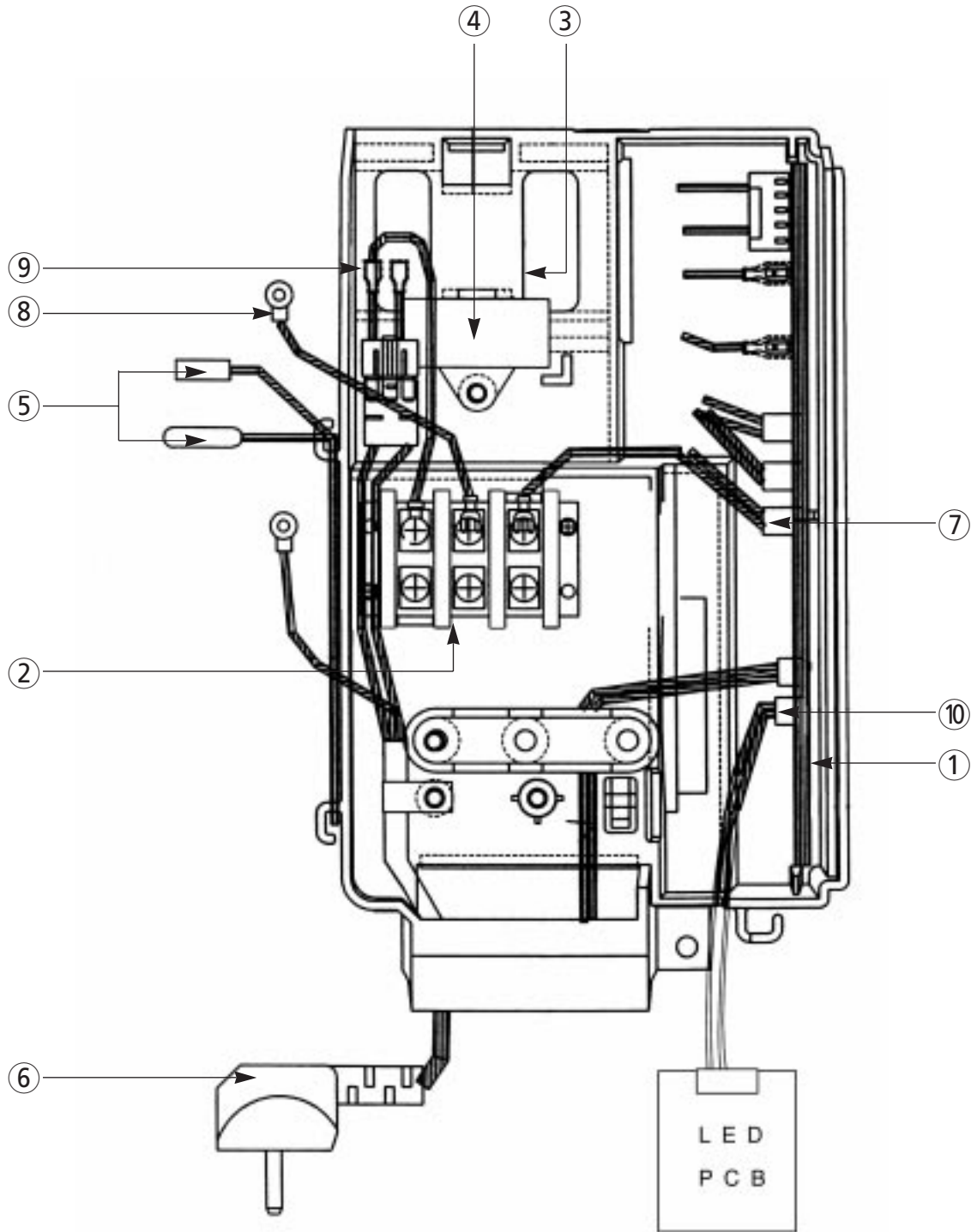
No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100300501	PAN BASE	1	SECC	
2	3106000900	COMP BOLT	3	M8 X L46.5 MFZN	
3	3102100800	FOOT	2	SECC	
4	3108134AE0	GROMMET	3	EPDM	
5	3100030CE0	COMPRESSOR ASS'Y	1	RCB120A001	
6	7400208411	WASHER PLANE	4	M8.4 X 0.D22 X T1.6	
7	7392800011	NUT LOCK	4	M8 X P1.25 MFZN	
8	3100014100	CONDENSER ASS'Y	1		
9	3100015100	BRACKET SERVICE ASS'Y	1		
10	3105400700	SERVICE VALVE	1	1/2"	
11	3105400800	SERVICE VALVE	1	1/4"	
12	7347602011	BOLT HEX	4	M6 X L20 MFZN	
13	3100020600	PIPE DISCHARGE ASS'Y	1	C1220T	
14	3100020700	PIPE SUCTION ASS'Y	1	C1220T	
15	3100014200	FILTER ASS'Y	1	C1220T	
16	3100800600	CABINET BACK	1	ABS or AES	
17	3104503800	PLATE PARTITION	1	SBHG1	
18	3100601901	BRACKET MOTOR	1	SBHG1	
19	3108000800	MOTOR ODU	1	IC-9430DWLC5A	
20	3101801000	FAN PROPELLER	1	ABS+G.F20%	
21	3100015400	PANEL CONTROL ASS'Y	1		
21-1	3104201301	PANEL CONTROL	1	SBHG1	

## i DSB-121L(Before) PART LIST(OUTDOOR UNIT)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
21-2	3109500700	CAPACITOR DUAL	1	3.5+25 $\mu$ F 400VAC	
21-3	3101201100	CLAMP CAPACITOR	1	SBHG1	
21-4	3108900900	TERMINAL BLOCK	1	323-HDS103	
21-5	3103800300	LOCK TWIST	1	DATL-250	
21-6	3101202000	CLAMP CORD	1	NYLON	
21-7	7111301611	TAPPING SCREW	1	TIS PAN 3 X 16 MFZN	
21-8	7112403011	TAPPING SCREW	3	TIS TRS 4 X 30 MFZN	
22	3100800701	CABINET SIDE	1	ABS or AES	
23	3100800501	CABINET FRONT	1	ABS or AES	
24	3104201201	PANEL ORIFICE	1	P.P	
25	3101401900	COVER GRILLE	1	ABS or AES	
26	3104201100	PANEL TOP	1	ABS or AES	
27	3102600300	HANDLE	1	ABS or AES	
28	3102100700	FOOT CUSHTON	4	NBR	
29	7112401211	TAPPING SCREW	19	T1S TRS 4 X 12 MFZN	
30	7112402011	TAPPING SCREW	4	T1S TRS 4 X 20 MFZN	
31	3106001600	SPECIAL SCREW	1	T2 4 X 16 MFNI LOCKING	
32	7112401614	TAPPING SCREW	4	T1S TRS 4 X 16 MFNI+PVC/W	
33	7S422X40B1	SPECIAL SCREW	4	TT2 TRS SE 4 X 12 MFZN	
34	7112401214	TAPPING SCREW	12	TIS TRS 4 X 12 MFZN+PVC/W	

# 5 CONTROL BOX ASSEMBLY

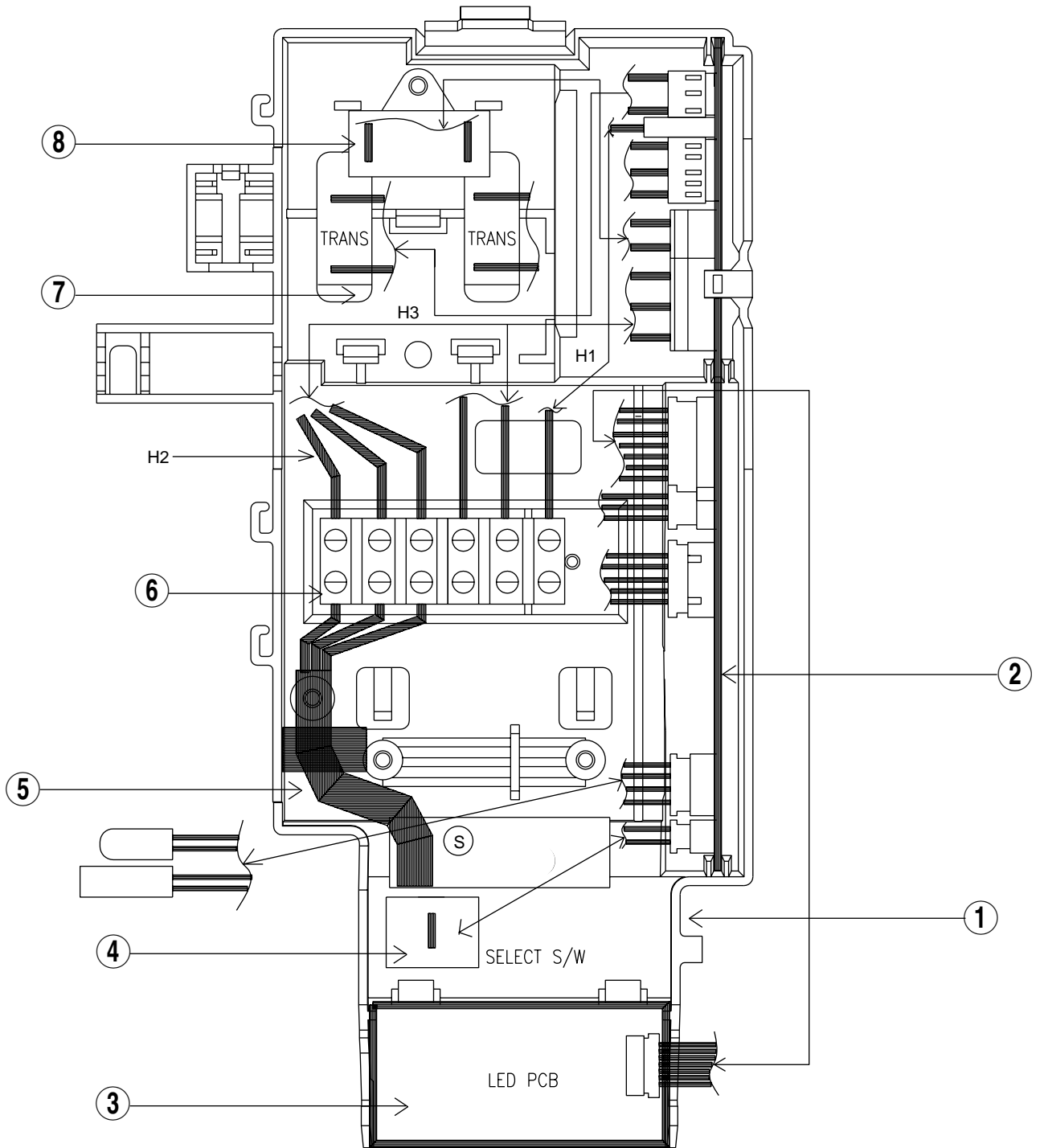
i DSB-070L/DSB-091L



i DSB-070L/DSB-091L

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100054400	CONTROL PCB ASS'Y	1		
2	3108912300	TERMINAL BLOCK	1	SN-DBW-03P	
3	5EPV050120	TRANSFORMER	1	DWA-220B 220V 50/60Hz	
4	3106900300	CAPACITOR SH.M.B	1	1.0 $\mu$ F 400VAC	
5	3104896300	SENSOR ID ASS'Y	1	PTM-KD43C-D2	
6	3101300100	POWER CORD ASS'Y	1	16A 250V	
7	3102797610	HARNESS	1	I/D COMP	
8	3102797910	HARNESS	1	I/D EARTH	
9	3102704000	HARNESS	1	POWER	
10	3102704500	HARNESS	1	LED PCB	

i DSB-121L



i DSB-121L

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100503101	CONTROL BOX	1	P.P+G.F 20%	
2	3100054400	CONTROL PCB ASS'Y	1	FR-1	
3	3108054200	LED PCB ASS'Y	1	FR-1	
4	3103400300	KNOB RESET SWITCH	1	ABS	
5	3101395060	POWER CORD ASS'Y	1		BUYER
6	3108901230	TERMINAL BLOCK	1	SN-DBW-03P	
7	5EPV050100	TRANS FORMER	1	DWA220A-50/60Hz	
8	3106900300	CAPACITOR SH.M.B	1	1.0 $\mu$ F 400VAC	
H1	3102797610	HARNESS I/D COMP	1		
H2	3102797500	HARNESS LED PCB	1		
S	3104896300	SENSOR ID ASS'Y	1	PTM-KD-43C-D2	
H3	3102794000	HARHESS POWER	1		

**DAEWOO**

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PRINTED DATE: APR. 1999

S/M NO. : DSB070L010

**DAEWOO**

# Service Manual

## Split System Air Conditioner

Model: DSB-070L  
DSB-091L  
DSB-121L



**DAEWOO ELECTRONICS CO., LTD.**