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1. SPECIFICATIONS

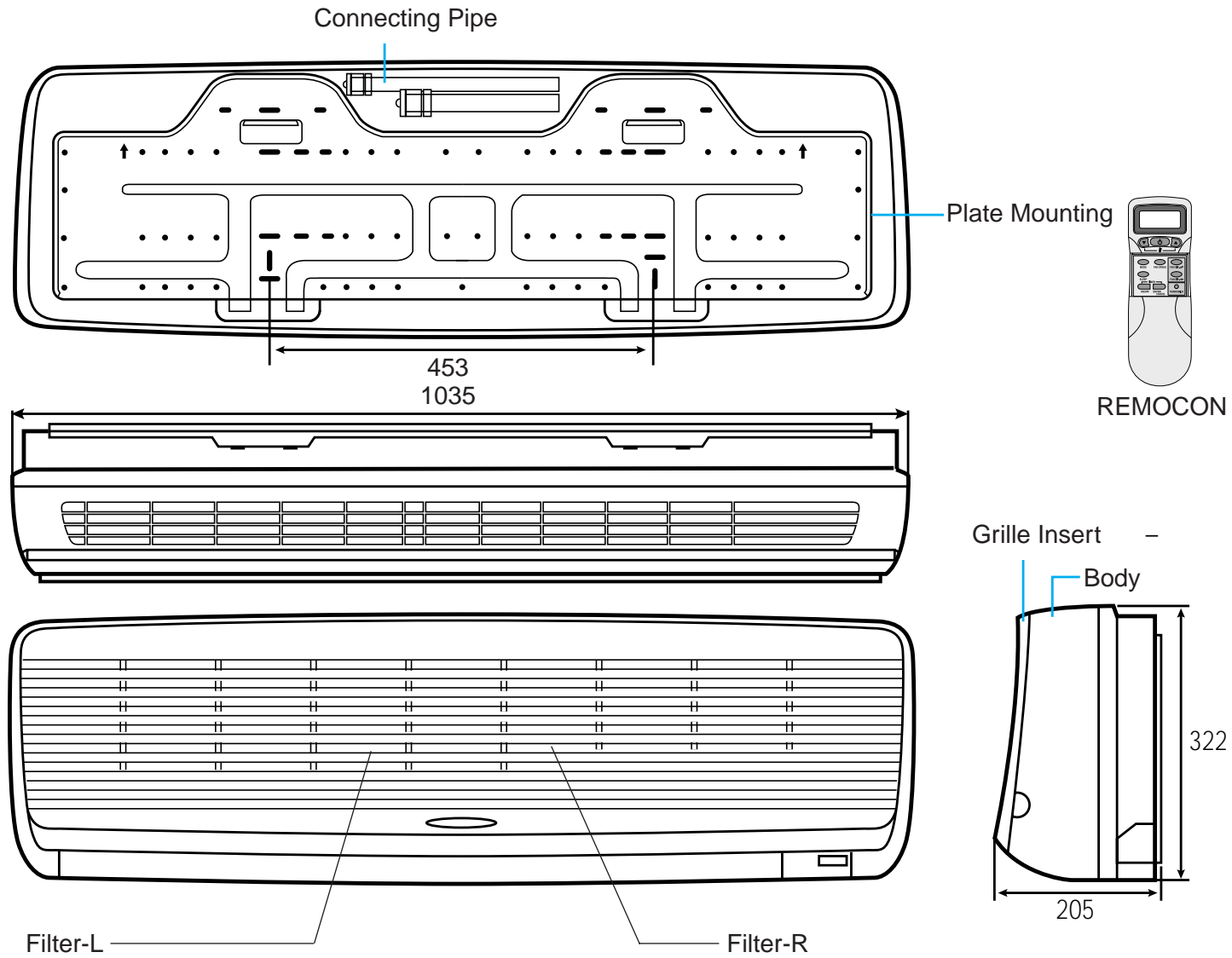
◆ DSA-151L/DSA-181L/DSB-181L

ITEM		MODEL	DSA-151L	DSA-181L	DSB-181L
Function			Cooling		
Class			T		
Power Supply			AC 208~230V, 60Hz	AC 208~230V, 60Hz	AC 220~240V, 50Hz
Capacity	W		4,300	5,100	5,100
	Btu/h		15,500	17,500	17,500
Dehumidification			1.98l/h	2.3l/h	2.3l/h
Electrical Data	Running Current		6.6A	8.3A	9.8A
	Power Input		1,450W	1,785W	1,950W
	Starting Current		42A	44A	46A
Compressor	Type		Rotary	Rotary	RECIPRO
	Model		RCA150A001	ECB185211A	CRDQ-0200-PFJ
	Capacitor		30 μ F/400 VAC		
Fan	Type	Indoor	Cross Flow Fan		
		Outdoor	Propeller Fan		
	Capacitor	Indoor	1.2 μ F/400 VAC		
		Outdoor	3 μ F/400 VAC		
	Motor Model	Indoor	IC-9425DWKH6A	IC-9425DWKH6A	IC-9425DWKC5A
		Outdoor	AM12DPD05	AM12DPD05	AM12DPD04
Refrigerant (R-22)	Control		Capillary		
	Charge Q'ty		1,250g	1,450g	1,150g
Connection	Type		Flare		
	OD (Liquid/Suction)	Indoor	1/4"(6.35mm)		
		Outdoor	1/2"(12.7mm)		
Dimensions	Indoor		1,035 x 322 x 205		
	Outdoor		800 x 615 x 277		
Net Weight	Indoor		11.7Kg	11.7Kg	11.7Kg
	Outdoor		43Kg	44Kg	55.8Kg

2. OUTLINE AND DIMENSIONS

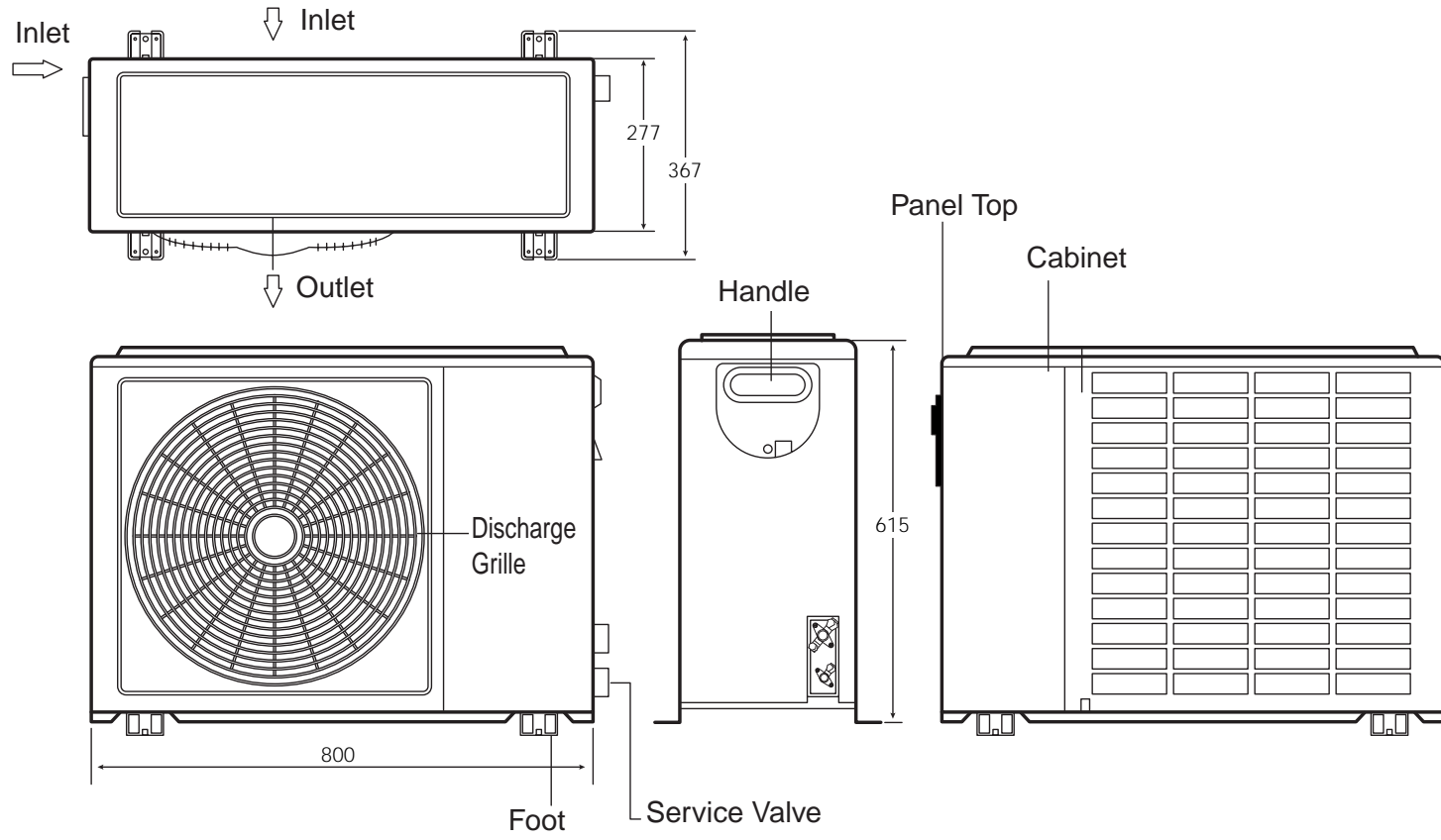
1 INDOOR UNIT

◆ DSA-151L/DSA-181L/DSB-181L



2 OUTDOOR UNIT

◆ DSA-151L/DSA-181L/DSB-181L

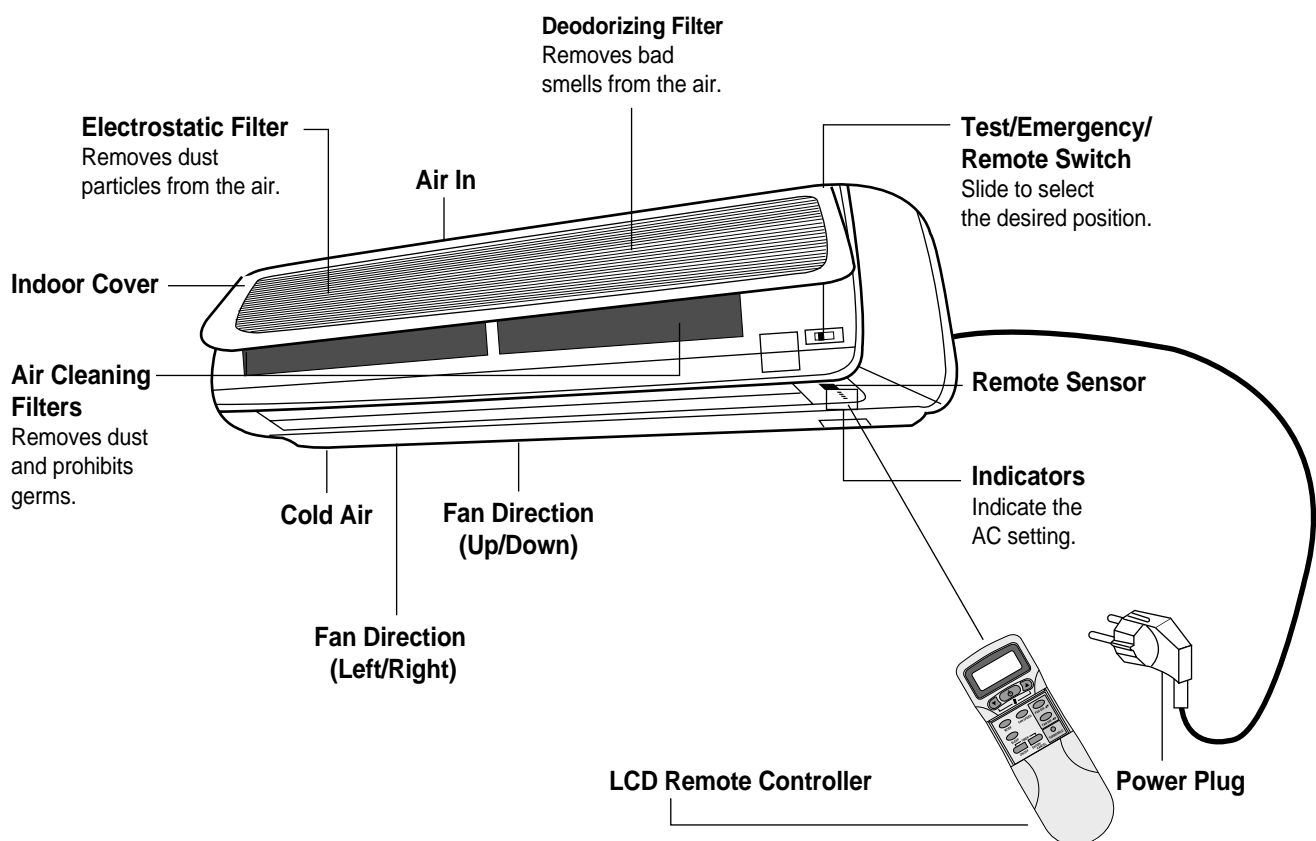


3. OPERATION

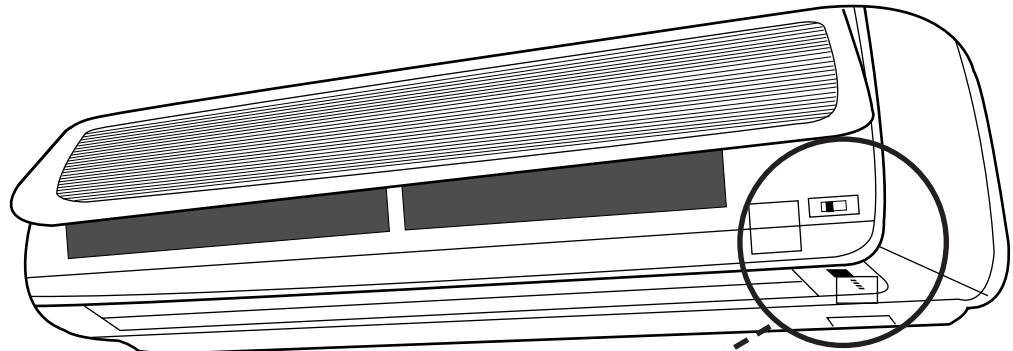
1 PARTS OF NAME AND FUNCTION

◆ DSA-151L/DSA-181L/DSB-181L

Indoor Unit



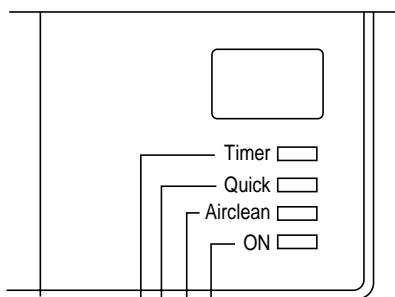
◆ DSA-151L/DSA-181L/DSB-181L



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”.



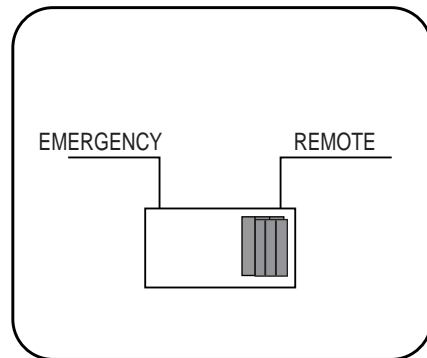
Timer (Yellow)
Lights during the time reservation mode.

Quick (Red)
Lights during the time Quick Mode.

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

Air clean (Green)

Switch Panel



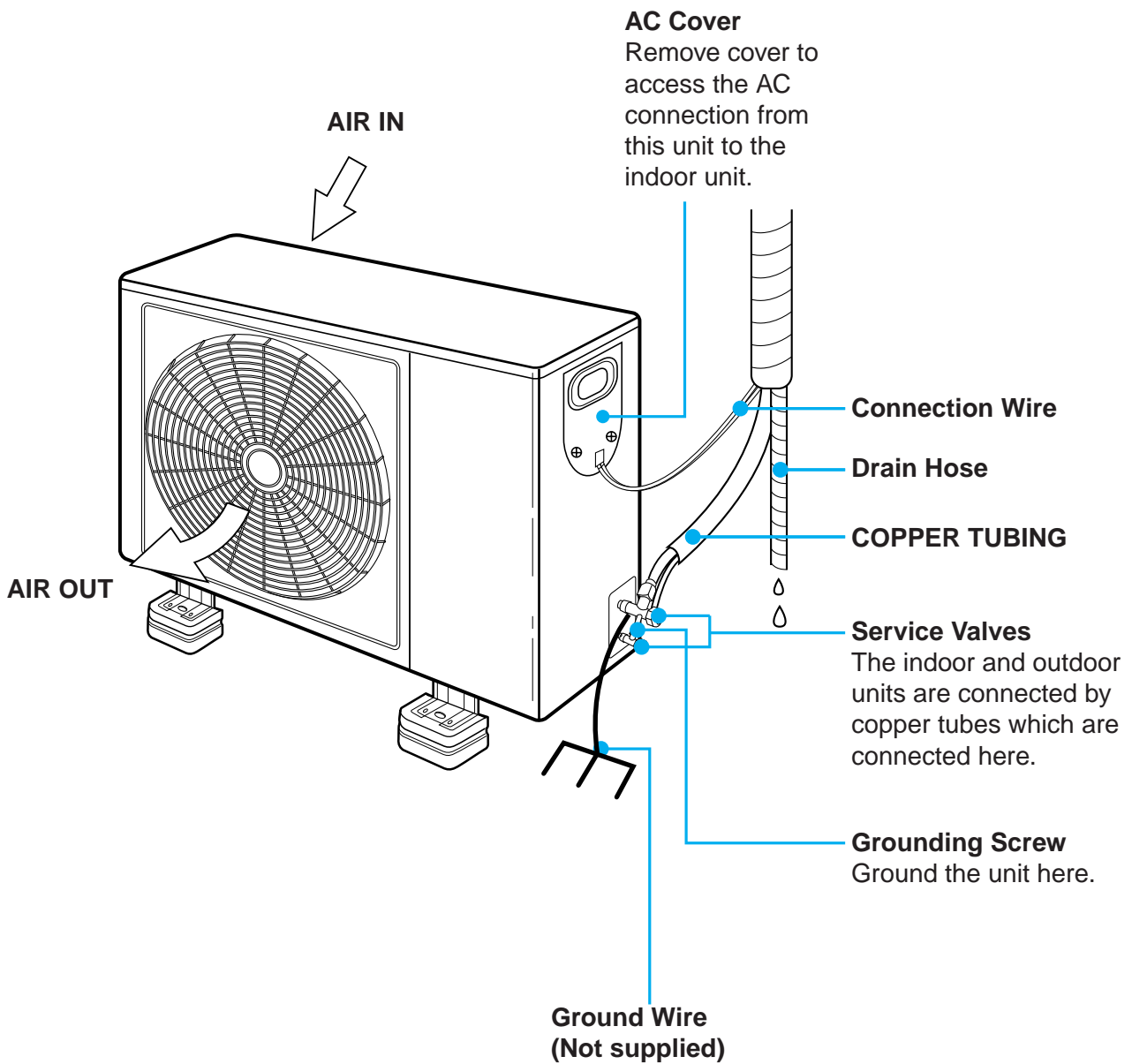
■ There is a switch panel at inside of Front Panel.
At the time of operating, open the Front Panel.

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

Remote switch is usually used by remote controller.

◆ DSA-151L/DSA-181L/DSB-181L

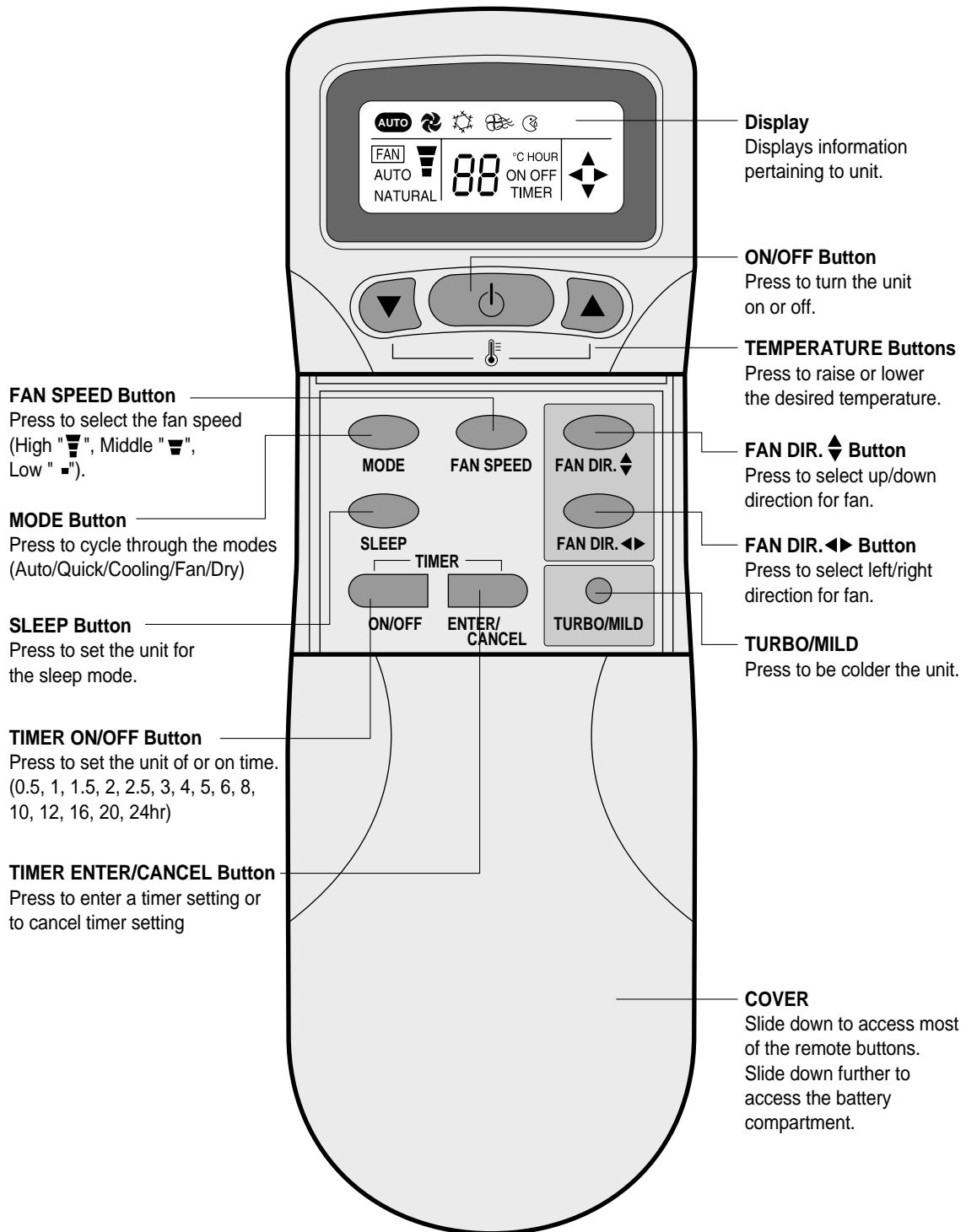
Outdoor Unit



2 REMOTE CONTROLLER

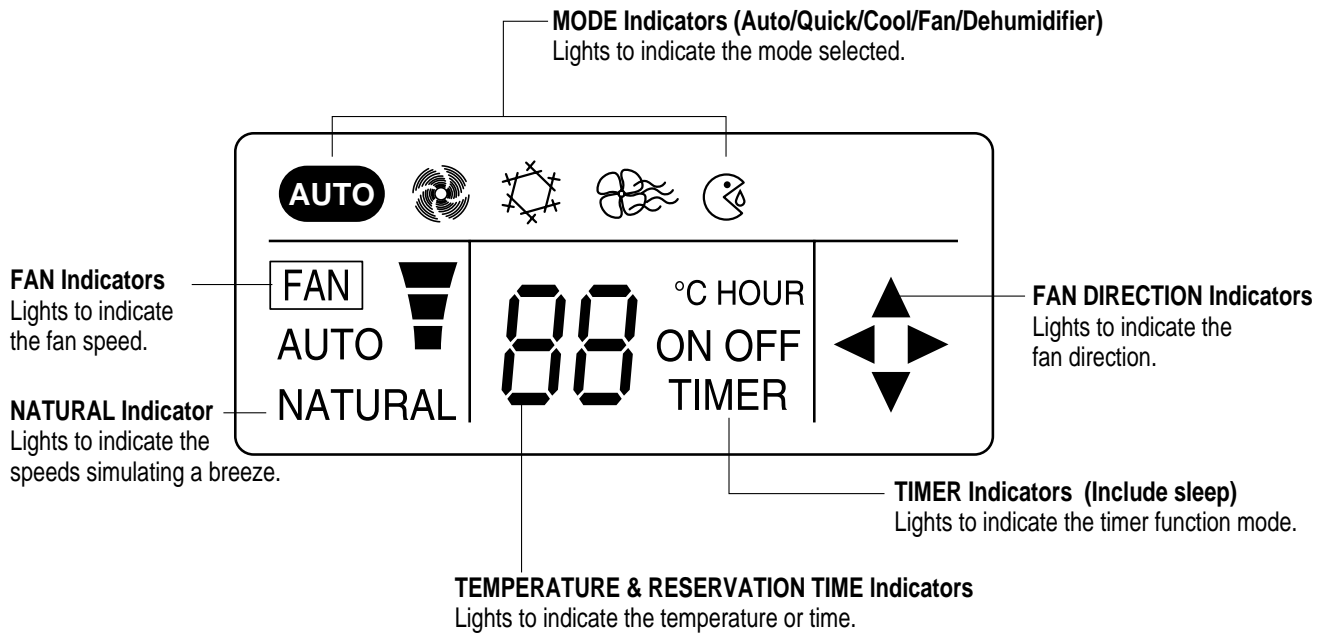
◆ DSA-151L/DSA-181L/DSB-181L

Name of Each Button

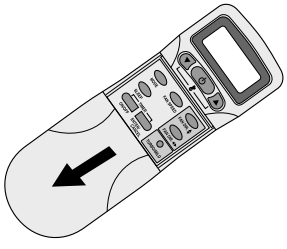
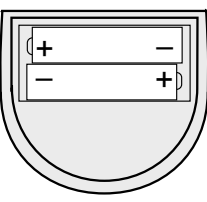
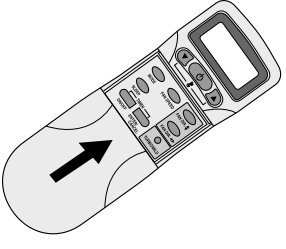


3 REMOTE CONTROLLER DISPLAY

◆ DSA-151L/DSA-181L/DSB-181L



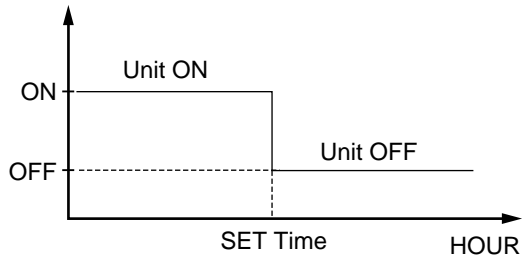
Replacing Batteries

<p>1 Open the cover after pressing the arrow direction and pulling out.</p> 	<p>2 Put the drycell by $\oplus \ominus$ direction.</p> 	<p>3 Close the cover after pushing into arrow direction.</p> 
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4 DESCRIPTION OF FUNCTIONS

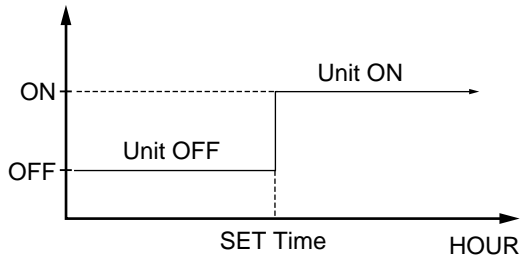
OFF-Timer

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



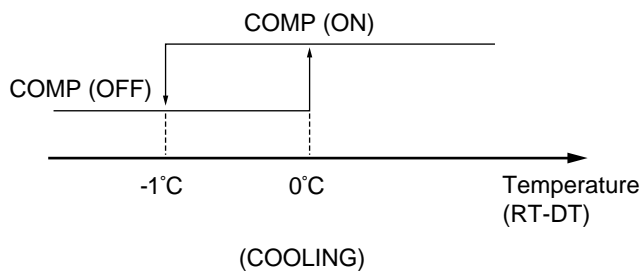
ON-Timer

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



* (Room temperature
< setting temperature
Compressor OFF

(Room temperature
> setting temperature
Compressor ON

- (3) During the time of test operating, Fan (Indoor, Outdoor) and Compressor is running regardless of room temperature.

Buzzer

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

Fan Speed (Indoor Unit)

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

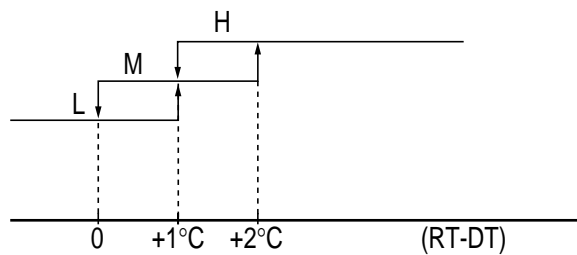
	FAN ONLY	COOL	DEHUMI-DIFICATION	AUTO	Quick
H	H	H	X	H	H
M	M	M	X	M	X
L	L	L	X	L	X
Auto	X	Auto	Auto	Auto	X
Natural	Natural	Natural	X	Natural	X

(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.

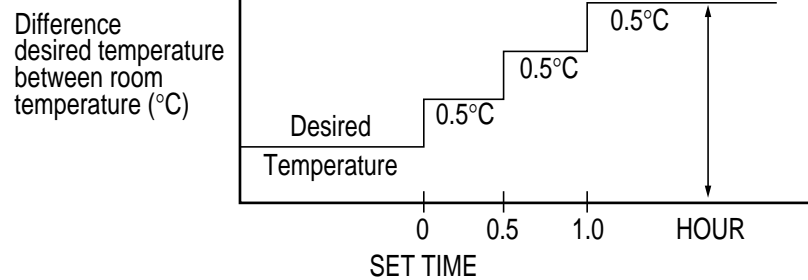
(COOLING)

- DSA-151L/DSA-181L/DSB-181L



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.



- (3) To cancel sleep mode, press the SLEEP button again or press the MODE button once.: the SLEEP indicator will disappear in the display.

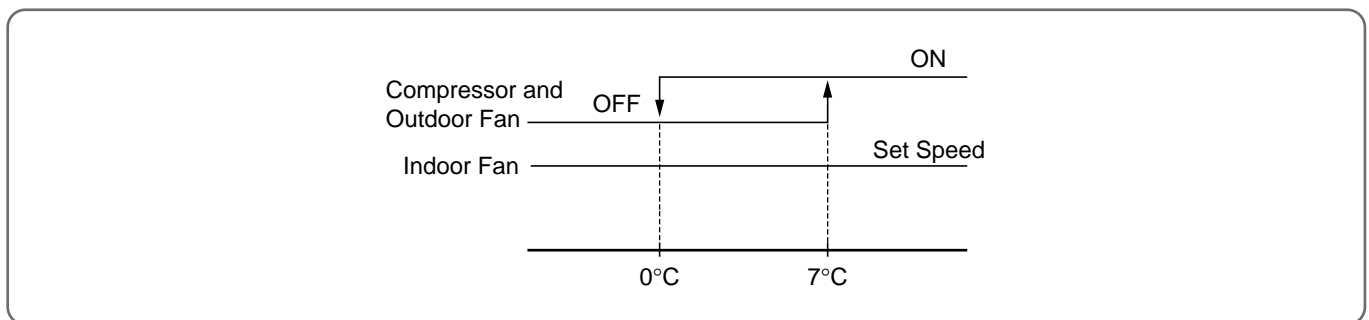
Emergency Operation

- (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: AUTO

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.



(Indoor coil temperature)

3 min. Time Delay of Compressor

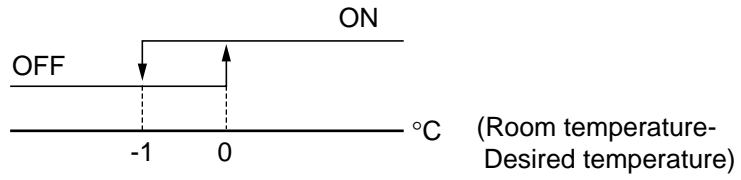
In normal operation, there is a time delay of three minutes between turn off and turning back on including initial power up.

Indoor Fan Motor Starting

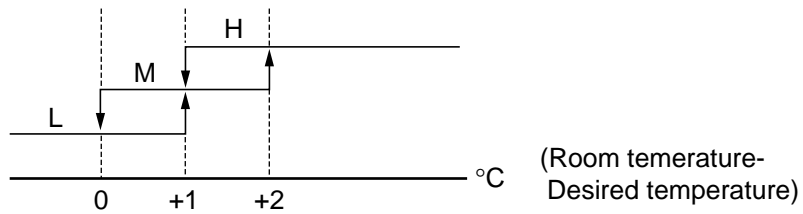
When indoor fan motor is on, it always starts at normal speed and then it operates desired speed.

Auto Mode

- (1) When the room temperature is higher than 28°C (Cooling Mode)
!Compressor and Indoor Fan



@ The fan will automatically operate as following Figure



- (2) When the room temperature is lower than 28°C and higher than 22°C (Dehumidification Mode).
- (3) When the room temperature is lower than 22°C (Fan only).

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 $\geq 18^{\circ}\text{C}$

Compressor : OFF

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

Fan speed : Low speed

Air Discharge Direction

(1) When you turn on the unit, the flaps move to the position of keeping the room temperature comfortable.

(2) The air discharge direction is below.

Up/Down \longrightarrow On/Off

Left/Right \longrightarrow On/Off

Quick Mode (Powerful Cooling)

(1) Cooling condition

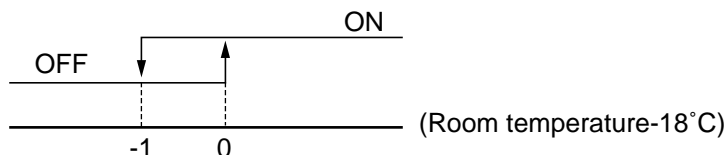
!Fan Speed: High speed

@ Air discharge direction: Fixed

Set temperature: 18°C (Fixed)

\$ Operation Mode: Cooling Mode

% Compressor and Outdoor Fan



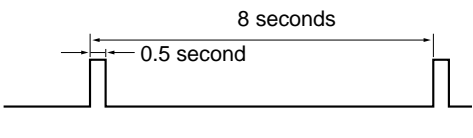
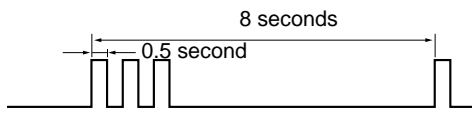
Self-Diagnostic Function

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

(1) Error Code Display Pattern

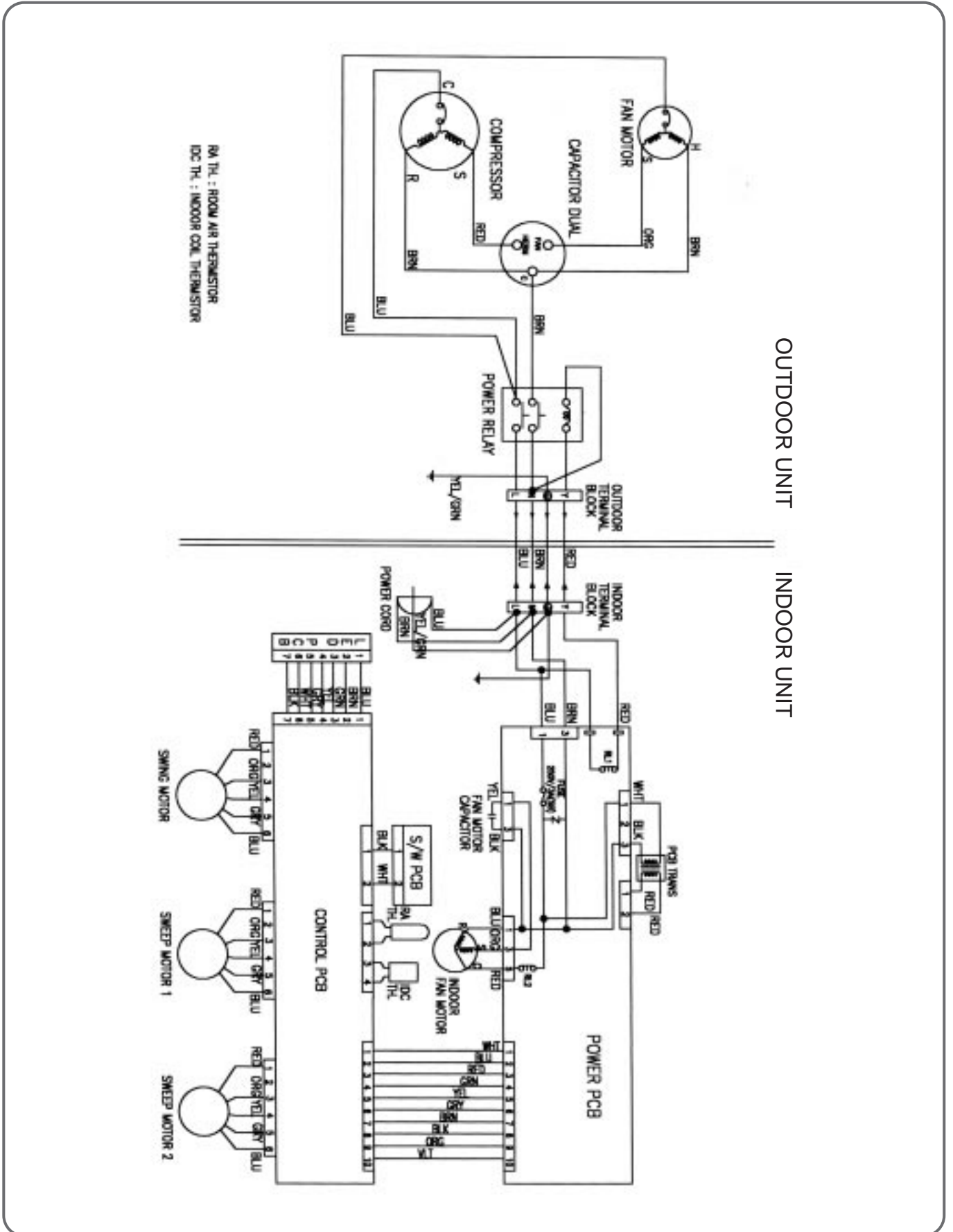
! ON LAMP: ON (Red) LED ON/OFF

@ Error Code (Display in Emergency Mode only)

ERROR CODE	DISPLAY PATTEN	ERROR CONTENTS
1		Room air thermistor, connector Indoor coil thermistor, connector
2		Compressor, Electrical parts of comp. Gas leak

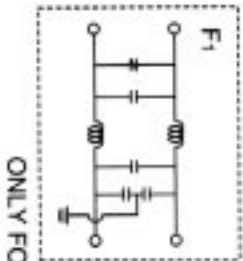
4. WIRING DIAGRAM

◆ DSA-151L

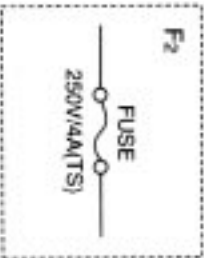


◆ DSA-181L/DSB-181L

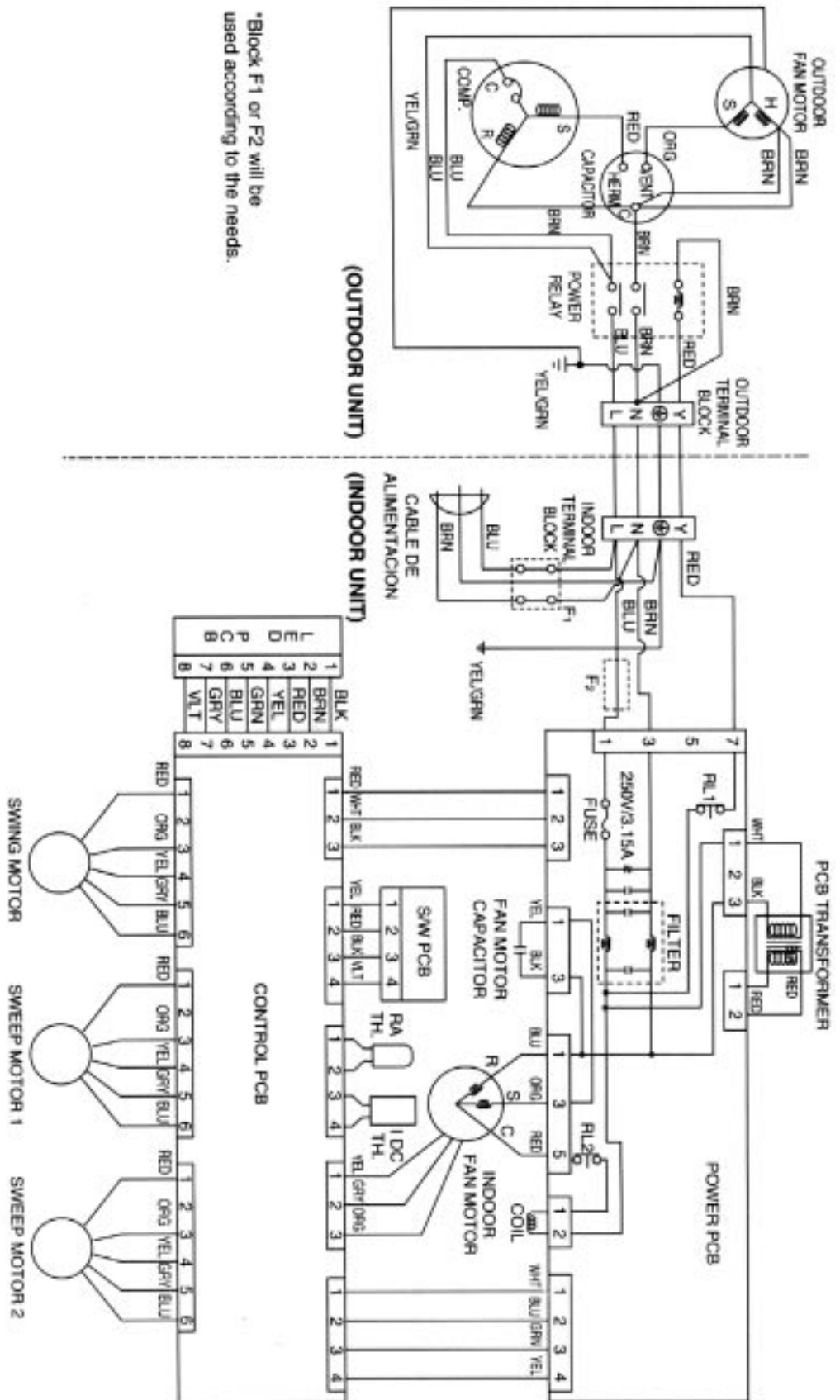
LEGEND
RA TH.: ROOM AIR THERMISTOR
I DC TH.: INDOOR COIL THERMISTOR



ONLY FOR DAS-180L



*Block F1 or F2 will be used according to the needs.



1 MAIN ELECTRIC PARTS

◆ DSA-151L

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3964330200	IC-9425 KH 6C	1	
	Fan Motor Capacitor	3106995010	1.2μF 450VAC 0.2A	1	
	Fuse	5FVGB0302R	250V 3A S/B	1	
	Fuse	5FVGD0402S	250V 4A 6ITS	1	
	Transformer	5EPK533110	220V/15V	1	
	Stepping Motor 1	3108004310	MP28GA (L=1300mm)	1	
	Stepping Motor 2	3108004300	MP-28GA (L=400mm)	2	
	Terminal Block	3108912320	SN-DBW-4P	1	
Outdoor Unit	Compressor	3100030AE0	RCA-150A001	1	
	Capacitor Dual	3109500100	370V 30/3μF	1	
	Fan Motor	3964320430	AM12DPD05	1	
	Power Relay	5SC0202700	G7L-2A-TUB	1	
	Terminal Block	3108912320	SN-DBW-4P	1	

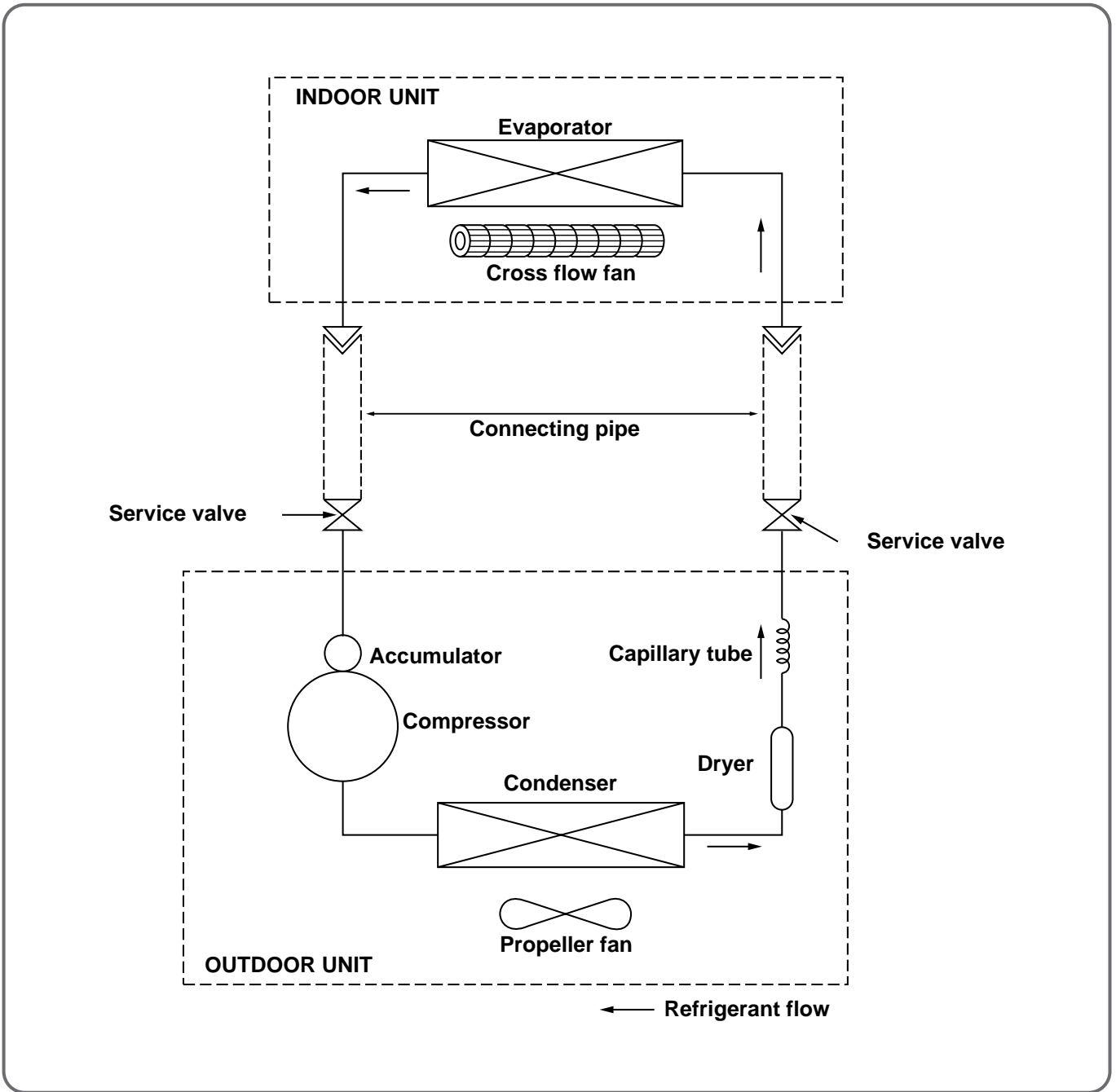
◆ DSA-181L

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3964330200	IC-9425 KH 6C	1	
	Fan Motor Capacitor	3106995010	1.2μF 450VAC 0.2A	1	
	Fuse	5FVGB0302R	250V 3A S/B	1	
	Fuse	5FVGD0402S	250V 4A 6ITS	1	
	Transformer	5EPK533110	220V/15V	1	
	Stepping Motor 1	3108004310	MP28GA (L=1300mm)	1	
	Stepping Motor 2	3108004300	MP-28GA (L=400mm)	2	
	Terminal Block	3108912320	SN-DBW-4P	1	
Outdoor Unit	Compressor	3107100000	ECB185211A	1	
	Capacitor Dual	3109500100	370V 30/3μF	1	
	Fan Motor	3964320430	AM12DPD05	1	
	Power Relay	5SC0202700	G7L-2A-TUB	1	
	Terminal Block	3108912320	SN-DBW-4P	1	

◆ DSB-181L

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108000300	IC-9425DWKC5C	1	
	Fan Motor Capacitor	3106995010	1.2μF 450VAC 0.2A	1	
		3106901100	1.2μF 400VAC	1	For VDE Appliance
	Fuse	5FVGB0302R	250V 3A S/B	1	
	Fuse	5FVGD0402S	250V 4A 6ITS	1	For NON Appliance
	Transformer	5EPV633100	220V/18.3V	1	
	Stepping Motor 1	3108004310	MP28GA (L=1300mm)	1	
	Stepping Motor 2	3108004300	MP28GA (L=400mm)	2	
	Terminal Block	3108912320	SN-DBW-4P	1	
		3108911600	1000-4DS	1	For VDE Appliance
Outdoor Unit	Compressor	3107120000	CRDQ-0200-PFJ	1	
	Capacitor Dual	3109500100	370V 30/3μF	1	
		3104500100	400V 30/3μF	1	For VDE Appliance
	Fan Motor	3108000400	AM12DPD04	1	
	Power Relay	5SC0202700	G7L-2A-TUB	1	For VDE Appliance
	Terminal Block	3108912320	SN-DBW-4P	1	

5. REFRIGERANT CYCLE

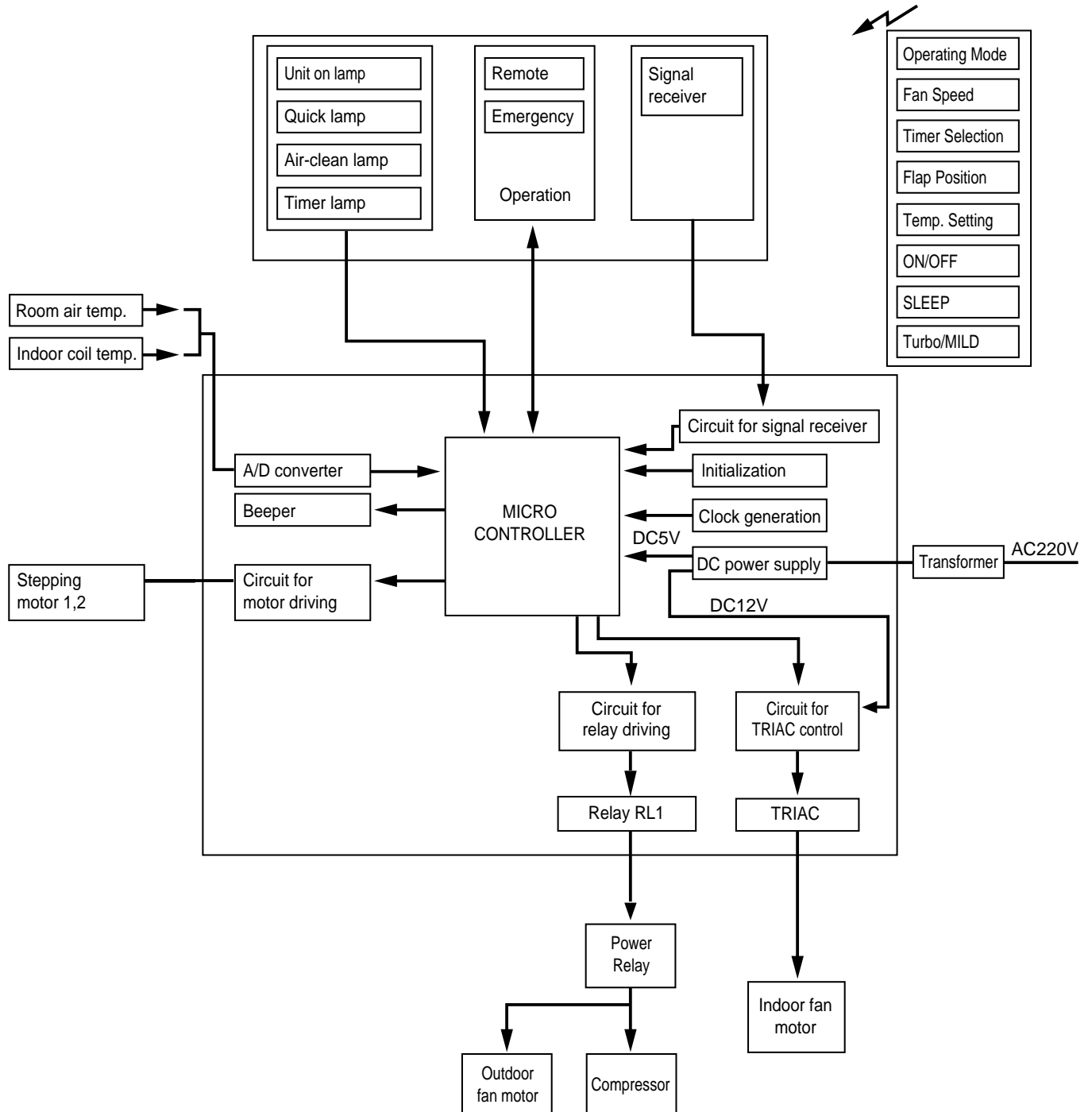


Note) If the pipe length exceeds the standard length, add 30g of refrigerant per extra meter.

Model Name	DSA-151L	DSA-181L	DSB-181L
Contents			
Capillary Tube	ID2.0Ø x OD3.2Ø x L1200	ID1.78Ø x OD3.2Ø x L600	ID2.0Ø x OD3.2Ø x L650
Charge Quantity	1300 g	1500 g	1200 g

6. CONTROL BLOCK DIAGRAM

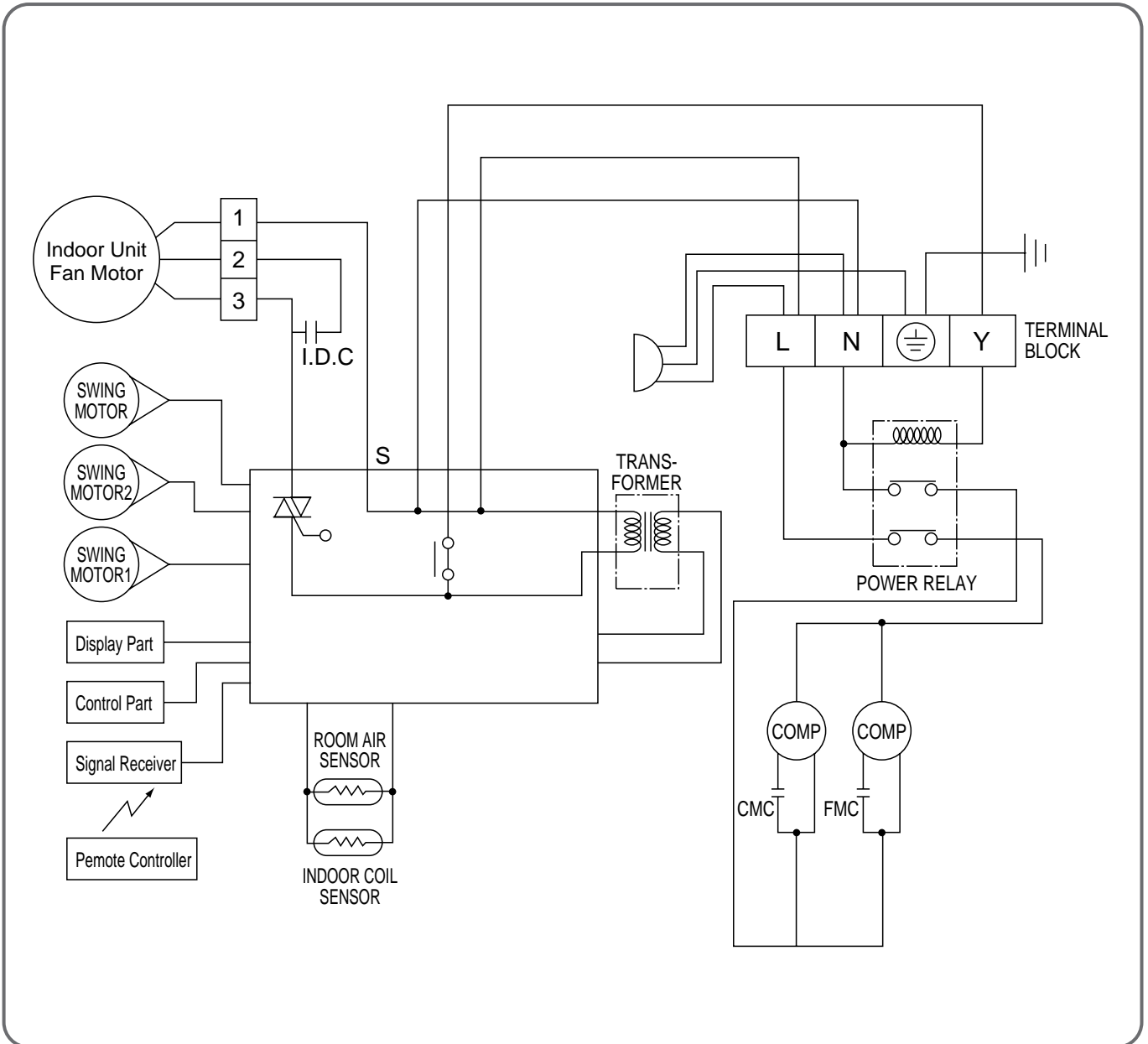
◆ DSA-151L/DSA-181L/DSB-181L



7. ELECTRIC CIRCUIT DIAGRAM

1 ELECTRIC CIRCUIT DIAGRAM

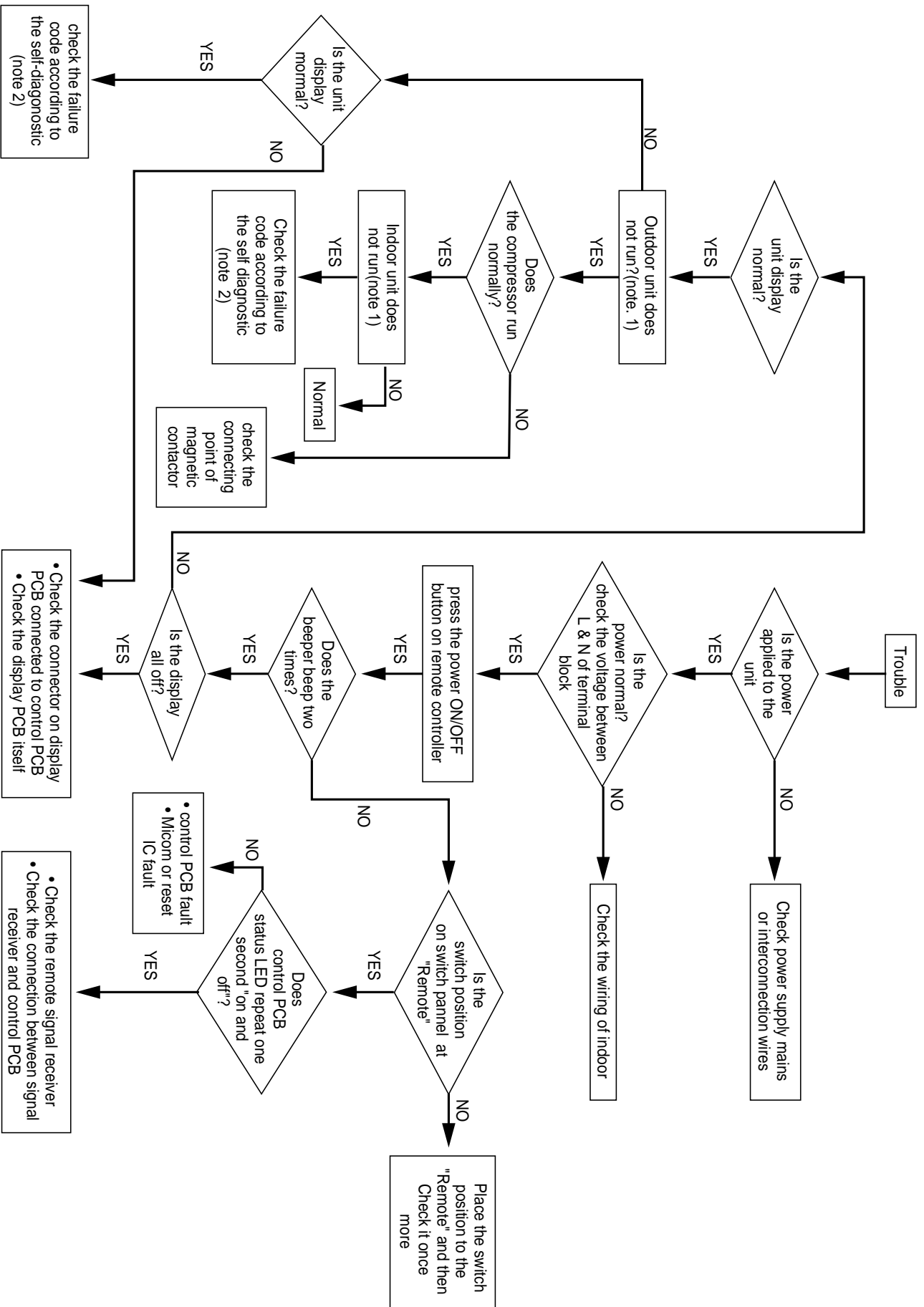
◆ DSA-151L/DSA-181L/DSB-181L



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.

8. TROUBLE SHOOTING



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?

Note 2) Please refer to page 16, Self Diagnostic-function.

Self-Diagnostic Function

◆ DSA-151L/DSA-181L/DSB-181L

1) Error Code 1

! Check the connector of room air thermistor. (or connecting wire)

@ Check soldering of connecting on control P.C.B. (Error of soldering or short)

Check the resistance of room air thermistor.

2) Error Code 3 (Display Emergency mode)

! When the compressor do not run.

i) Check the voltage between **N** and **Y** of terminal block.
(Indoor Unit, Outdoor Unit)

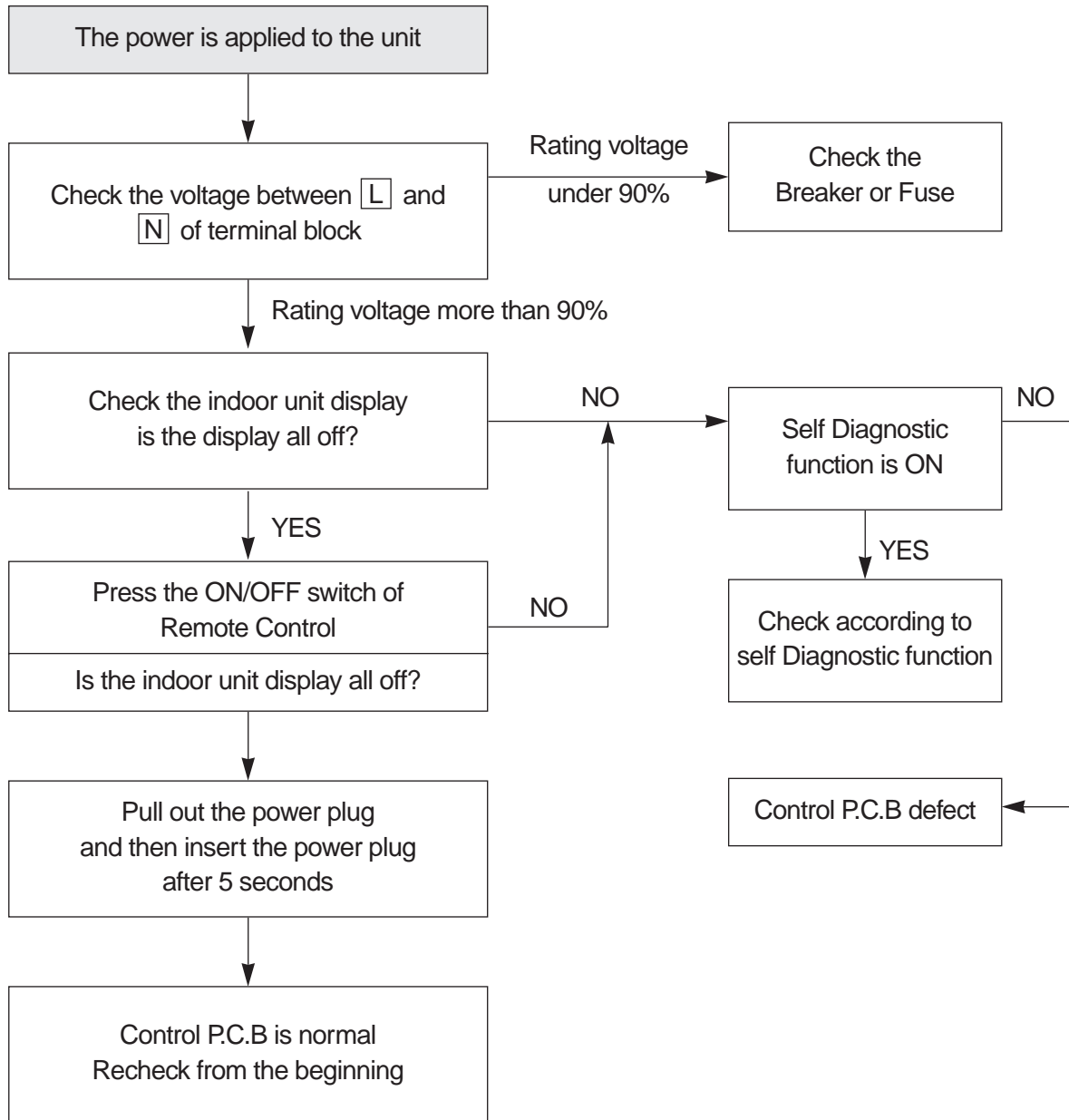
ii) Check connecting wire of indoor unit and outdoor unit.

iii) Check relay KI on power P.C.B

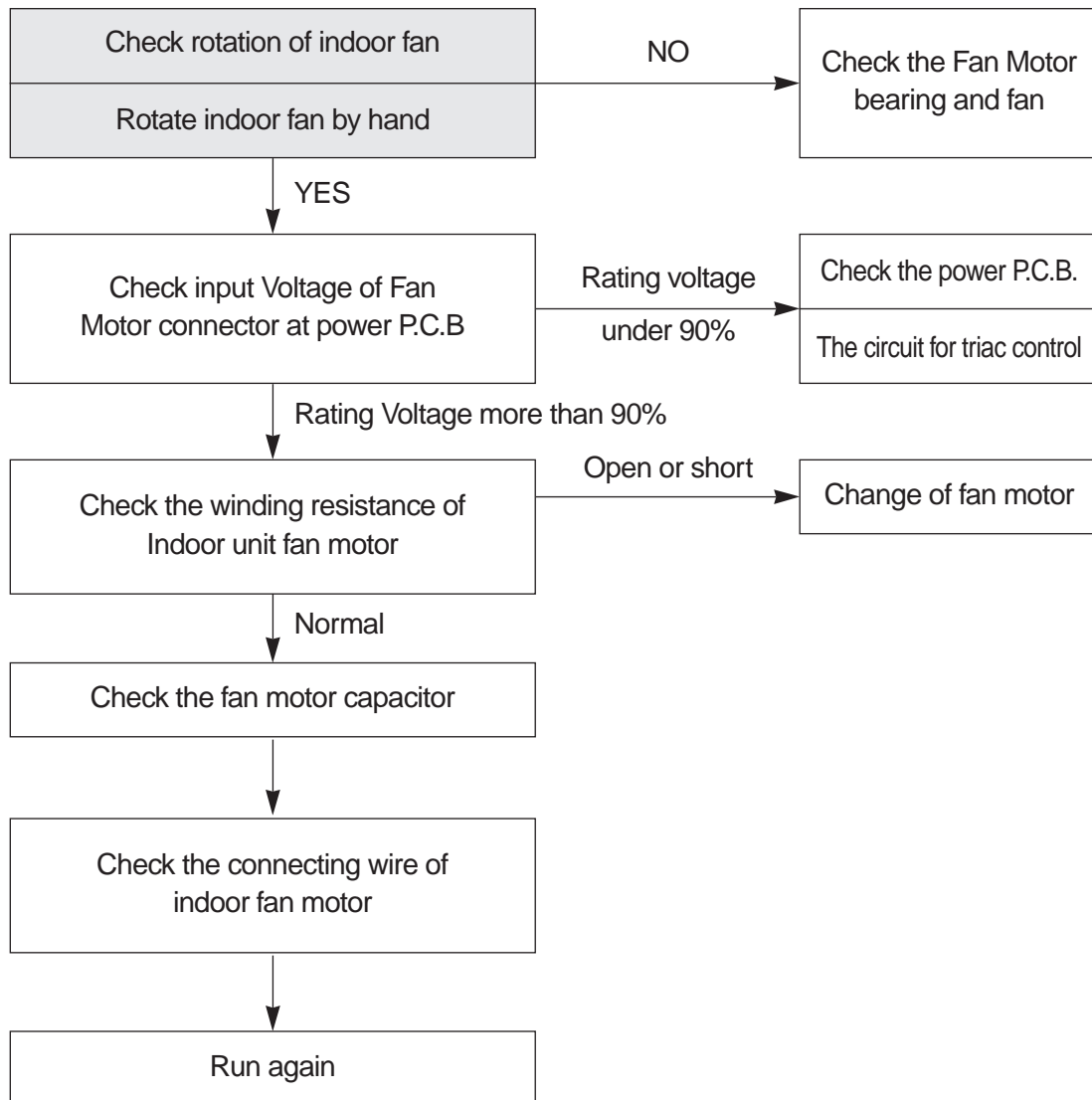
@ Check fixing of indoor coil thermistor.

Check the GAS LEAKAGE of the pipe.

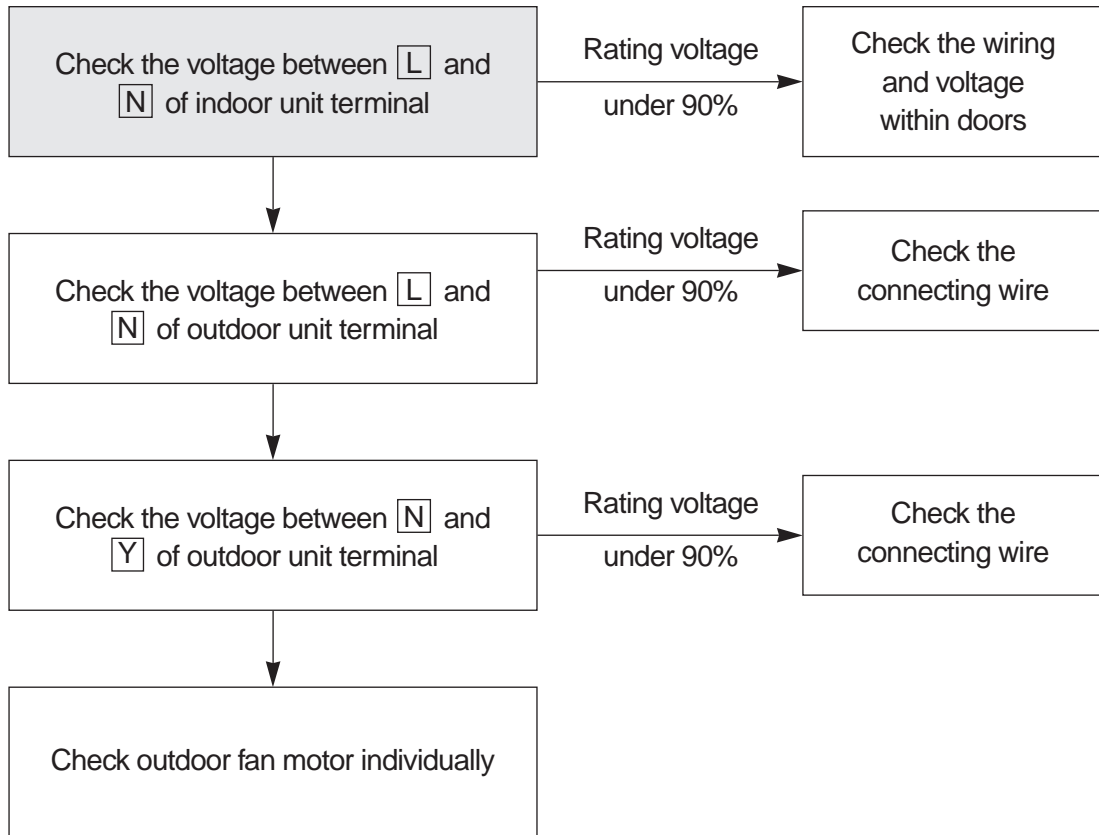
Neither Indoor Unit nor Outdoor Unit Runs



Outdoor Unit Runs but Indoor Unit Do Not Run

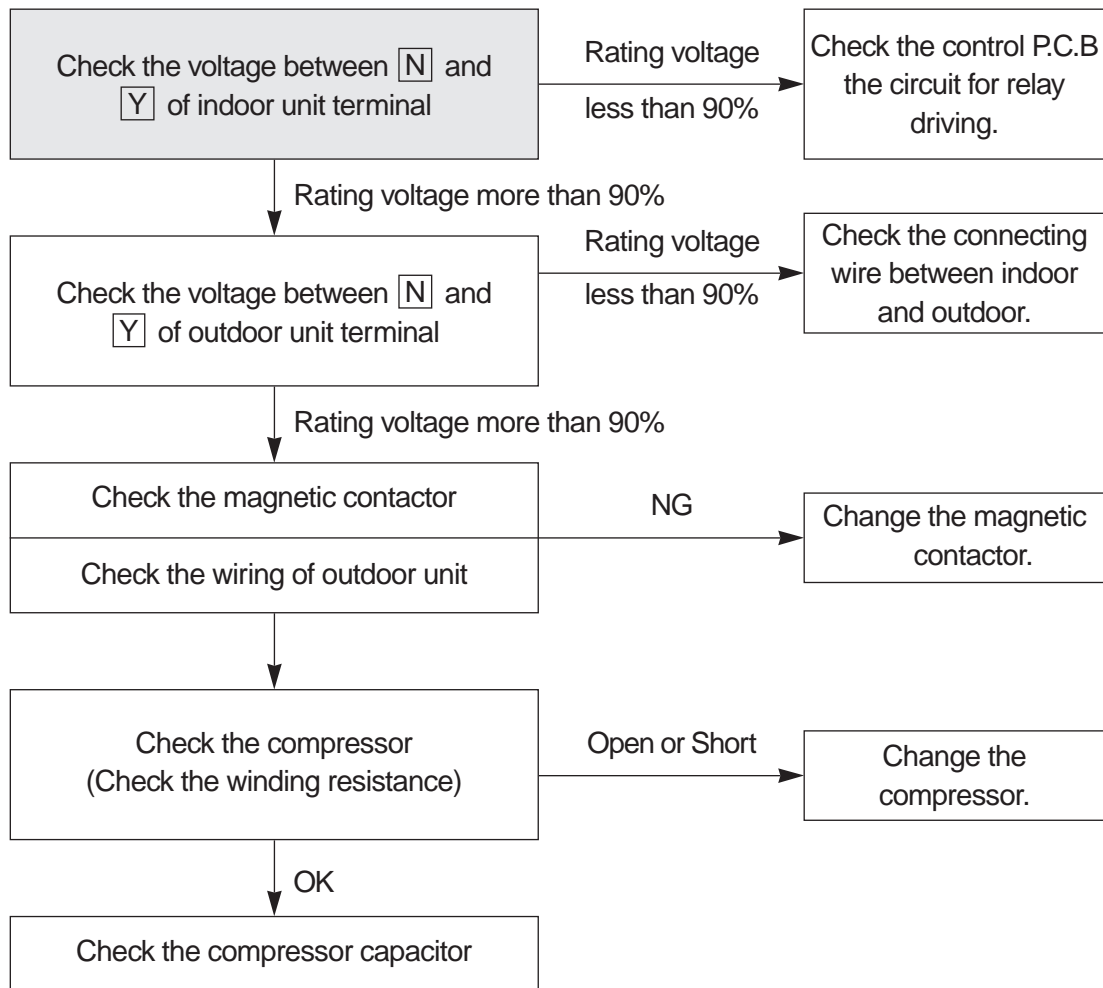


Outdoor Fan Do Not Run

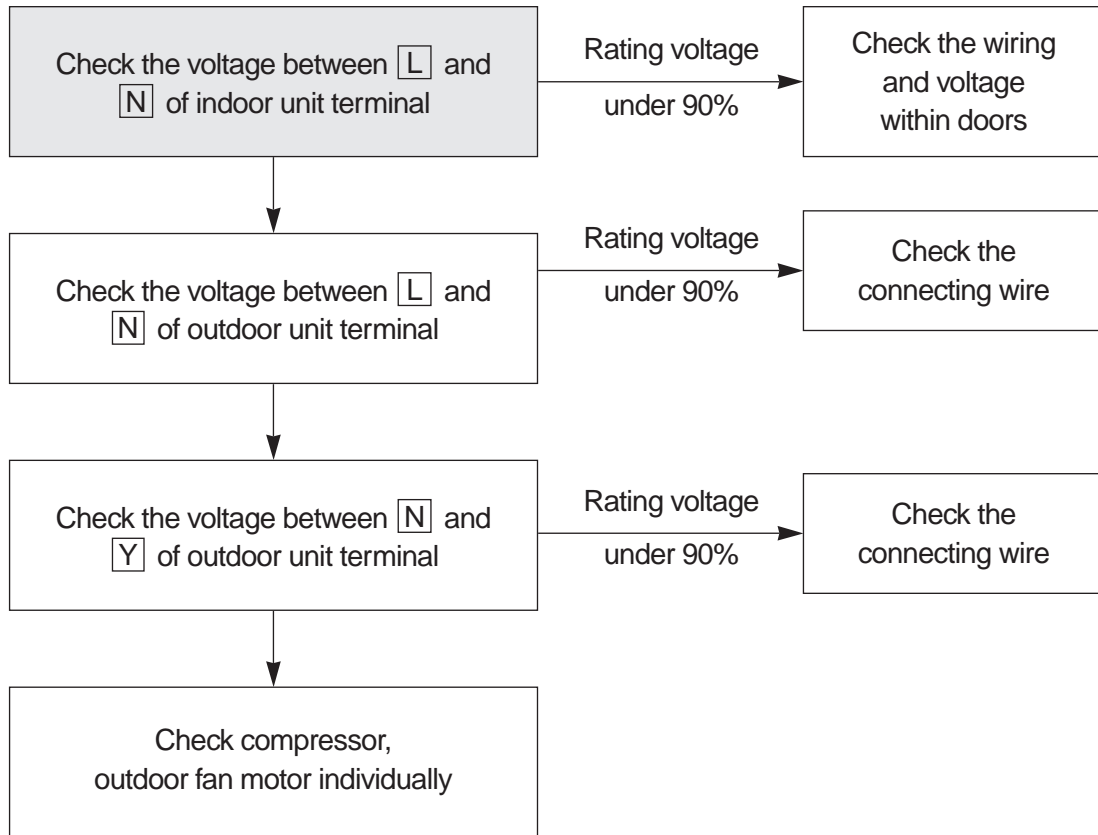


Only Compressor Do not Run

- Check the following at cooling mode

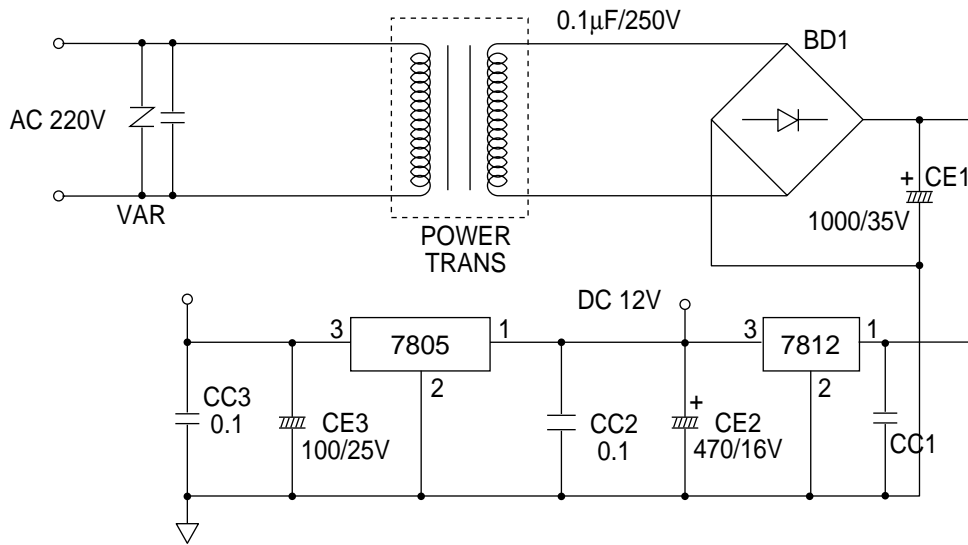


Outdoor Fan and Compressor Do Not Run



PCB DRIVING DESCRIPTION

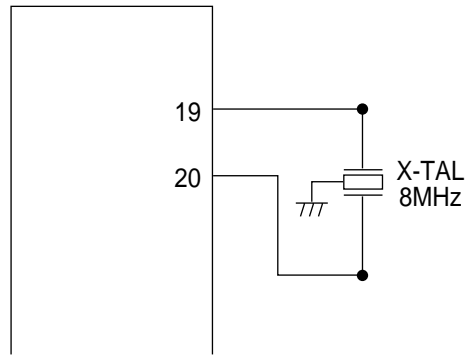
Power Supply (1)



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, and LED Display. AC voltage of secondary Power Transformer is rectified by Bridge Diode, and it is filtering by Main Condensor CE1. Filtered DC voltage is about +17V, is regulated +12V DC by Regulator IC7812. And it is regulated +5V DC by Regulator IC7805. VAR is surge filter and CE2, CE3, CC2, CC3 is Noise filter.

Oscillation (2)



DESCRIPTION

Oscillatory Frequency drive Micom, it is made up 8MHz X-TAL oscillatory Frequency.
Oscillatory wave is as following Fig 2-1.

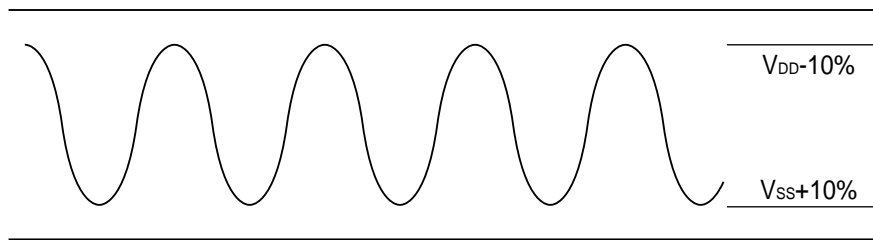
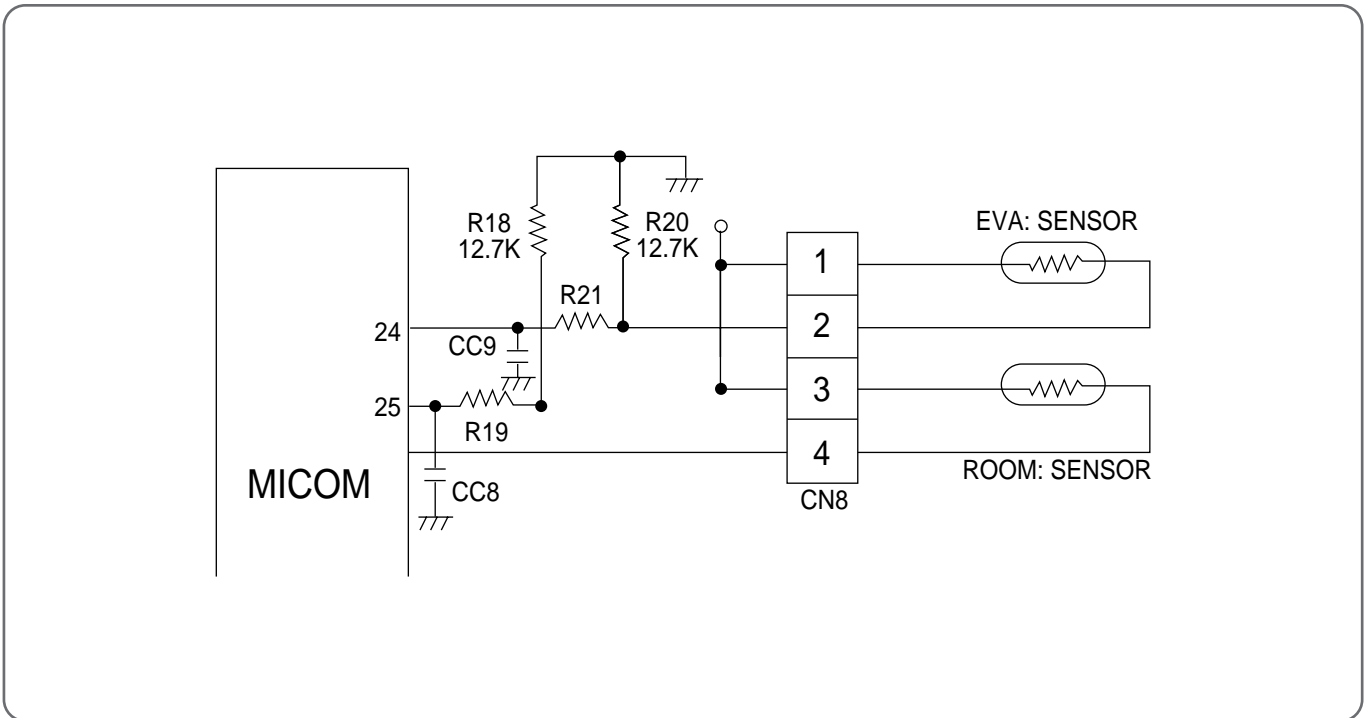


Fig 2-1

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 R18 (12.7K Ω) and R20 (12.7K Ω).

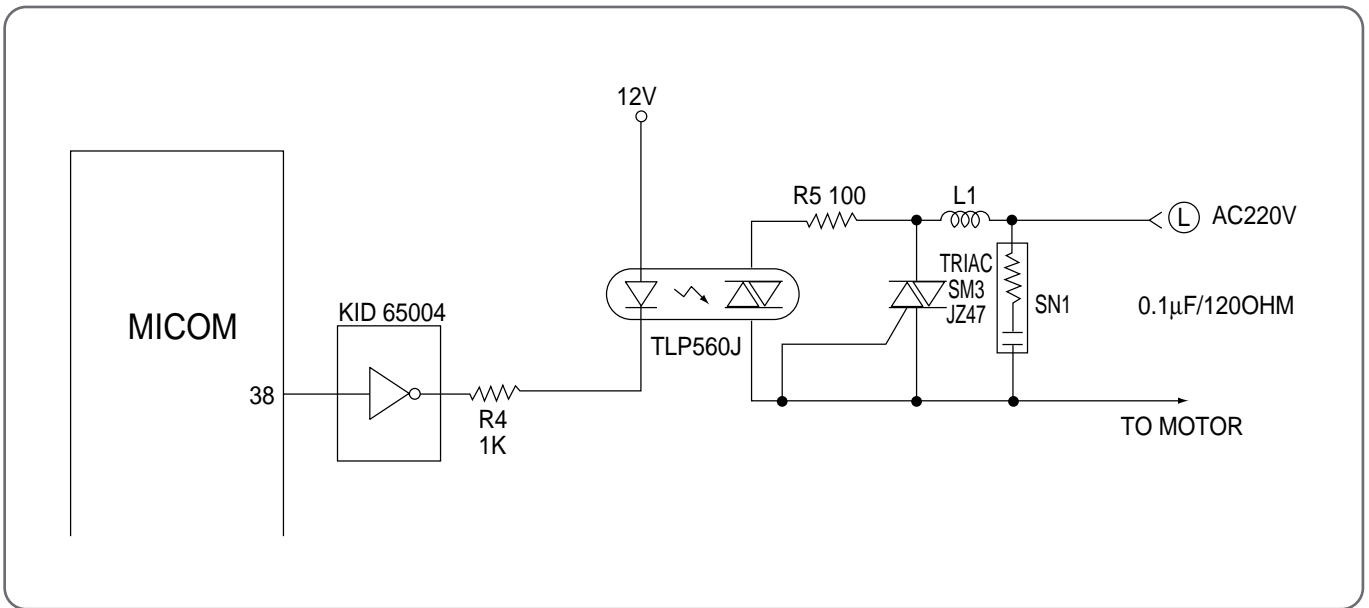
Relation between temperature and voltage is following Table 3-1.

CC8, CC9 is Noise filter.

Temperature (°C)	Voltage (V)
	No. 24, 25
-5	1.12
0	1.37
15	2.22
25	2.79
40	3.52

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 TLP560 and then Triac SM3JZ47 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.

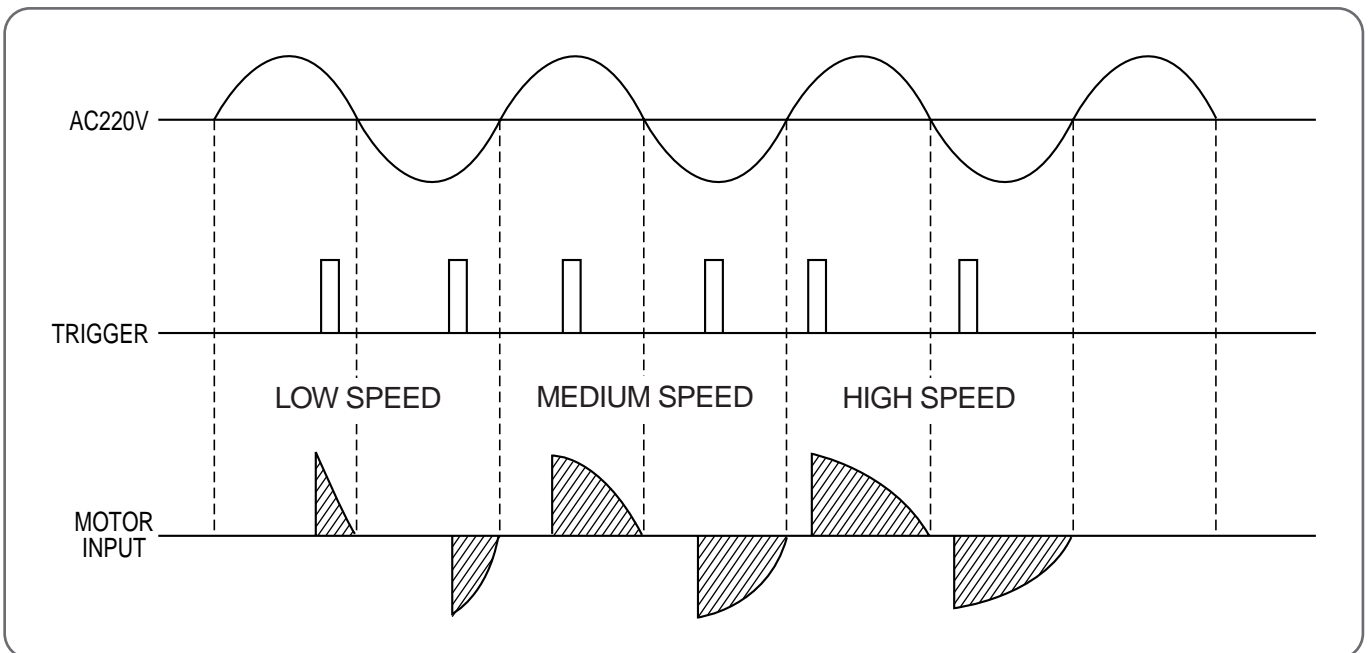
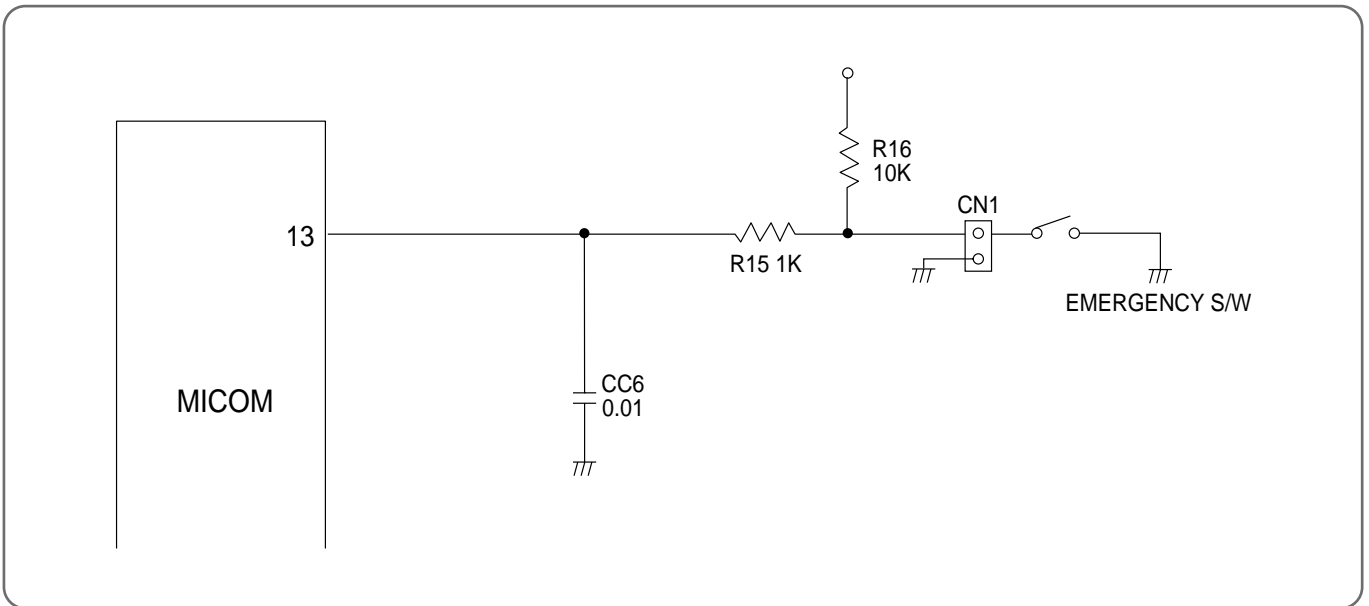


Fig 4-1

Selecting Mode (5)

(SELECT S/W INPUT, OUTPUT)



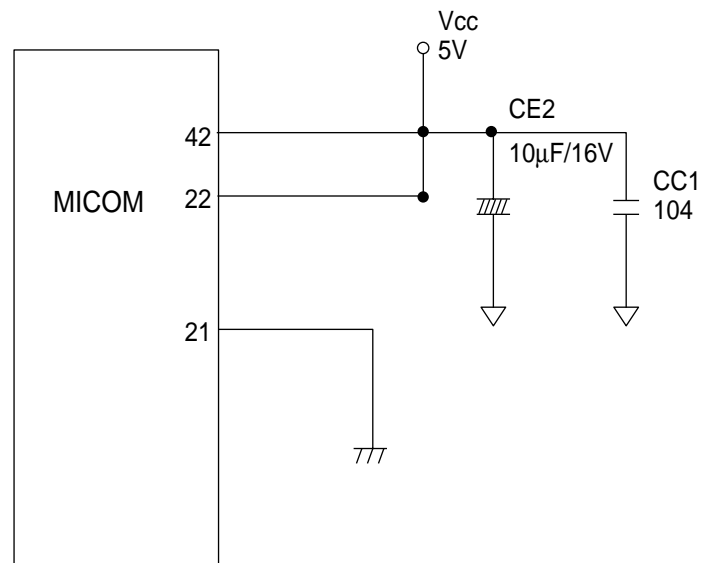
DESCRIPTION

There are three Mode according to SW position as following Table 6-1.

POSITION	MODE
Close	EMERGENCY
Open	REMOTE

Table 6-1

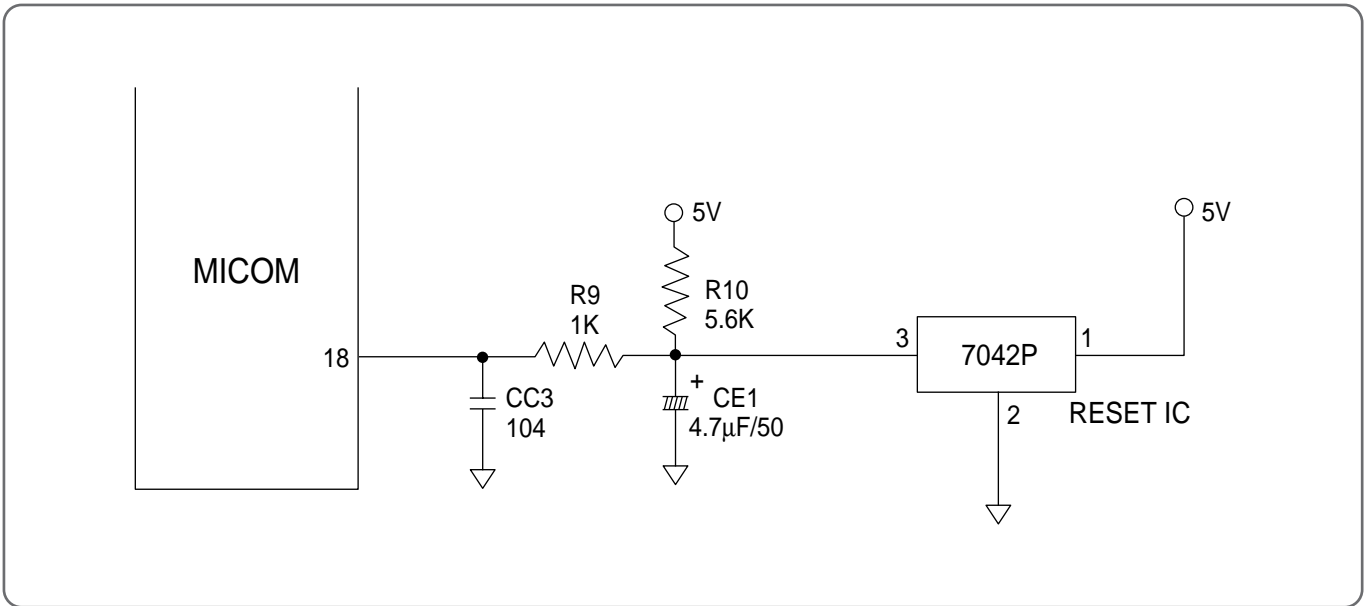
Micom Power Supply (6)



DESCRIPTION

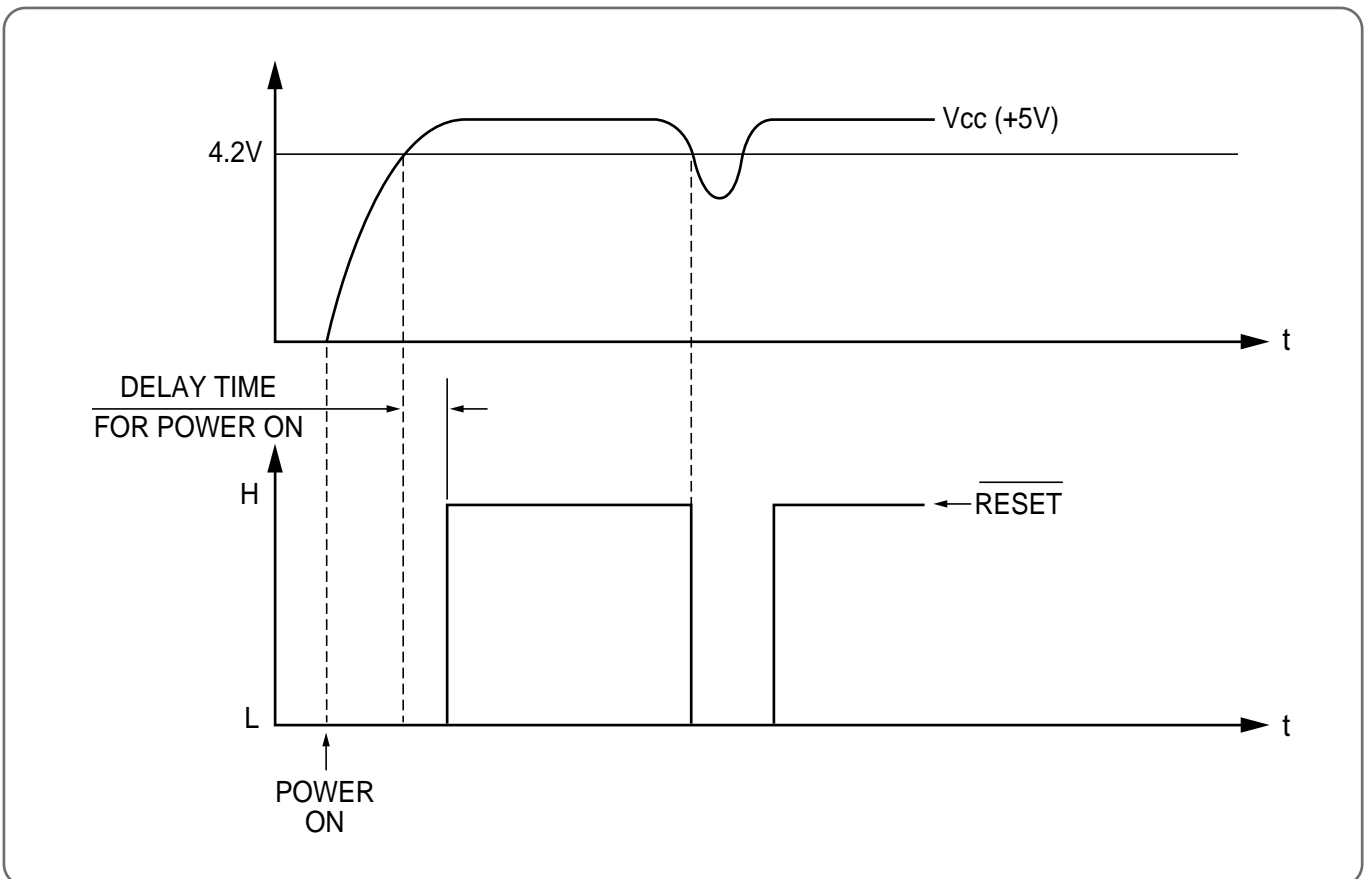
MICOM Power is supplied 5V at Number 42 using Digital, Number 22 using Reference of A/D Converter. CE2 is Ripple filter and CC1 is Noise filter.

Reset (7)

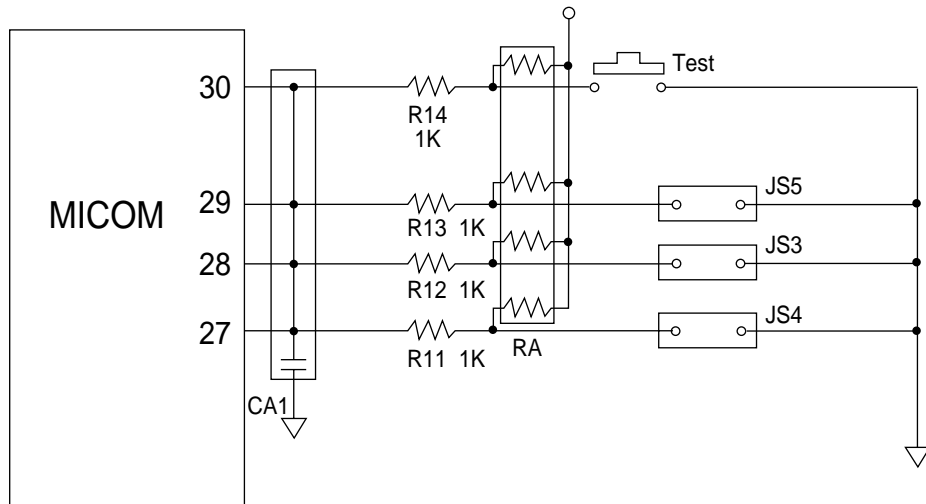


DESCRIPTION

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 4.2V, and then send Reset Signal. There is a Manual Reset S/W to reset manually if necessary.



Function Selecting (8)



DESCRIPTION


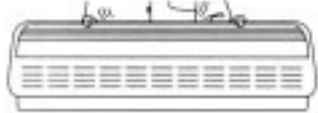
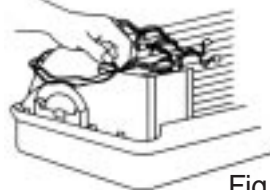
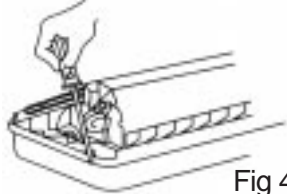
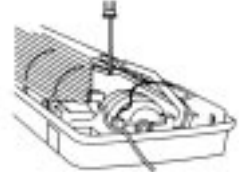
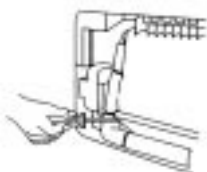

Selecting Function is as following Table 9-1.

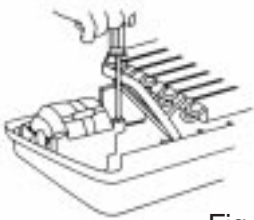
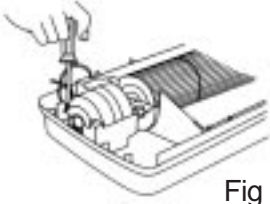
	SHORT	OPEN
JS6	Skip	Comp err detect
JS5	Mild	High
JS4	Heat	Cool
JS3	50Hz	60Hz

Table 9-1

9. DISASSEMBLY INSTRUCTIONS


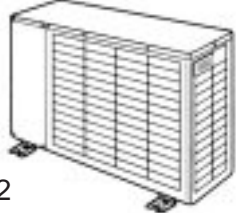
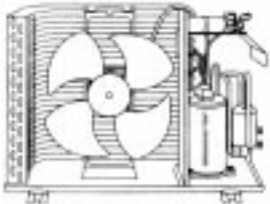
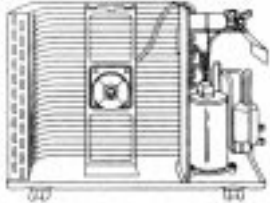
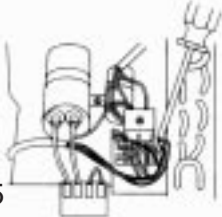


1 INDOOR UNIT

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. !Loosen three screws for fixing the the Insert Grille and Frame. (Pull out the frame cap before loosening three screws) (Fig 1) @ Loosen three screws at the Drain Pan. # Remove the Insert Grille and Frame.</p>	<p>Fig 1</p> 
<p>3. Removing the Control Box. After doing above procedures: !Disconnect indoor room and coil thermistors. (Fig 3) @ Disconnect the fan motor lead wire from connection at the main PCB. (Fig 3) # Disconnect the swing motor connection wire. \$ Loosen a screw for fixing ground wire. % Loosen two screws for fixing the body.</p>	<p>Fig 2</p>  <p>Fig 3</p>
<p>4. Removing the Drain Pan. After doing above procedures: !Loosen a screw for fixing body. (Fig 4) @ Unhook the right part of Drain Pan.</p>	 <p>Fig 4</p>
<p>5. Removing the Indoor Coil. After doing above procedures: !Loosen four screws for fixing indoor coil at left and right side. (Fig 5) @ Loosen a screw for fixing the bracket tube at the back side. (Fig 6) # Remove the indoor coil. (Fig. 6-1)</p>	 <p>Fig 5</p>  <p>Fig 6</p>
<p>6. Removing the fan motor. After doing above procedures: !Loosen two screws for fixing holder moter at left and right side. (Fig 7, 8) @ Loosen a screw for fixing fan motor and blower. # Renove the fan motor.</p>	 <p>Fig 6-1</p>


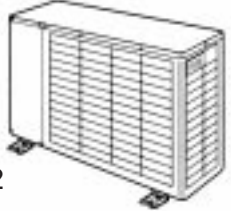
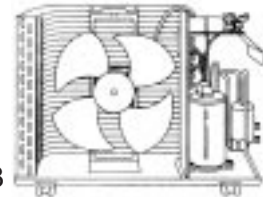
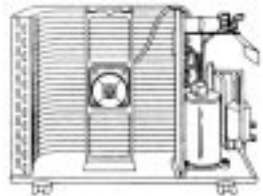

PROCEDURES	PHOTOS
<p>7. Removing the blower.</p> <p>After doing above procedures:</p> <ul style="list-style-type: none">! Loosen a screw for fixing holder bearing.@ Remove the blower.	 <p>Fig 7</p>  <p>Fig 8</p>

2 OUTDOOR UNIT

i DSA-151L

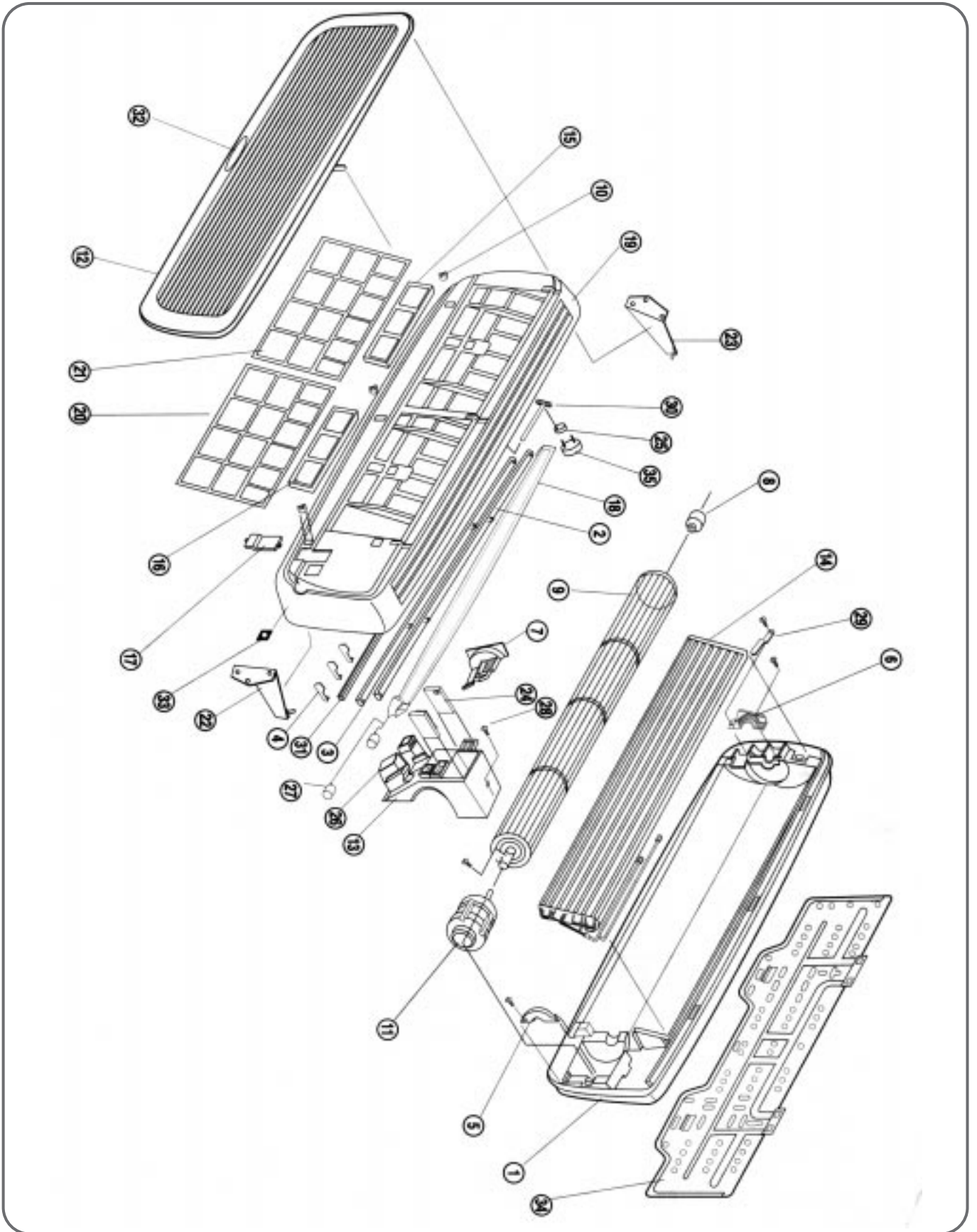
PROCEDURES	PHOTOS
<p>1. Basic Procedures</p> <ul style="list-style-type: none"> ! Stop the air conditioner and pull out power plug from wall outlet. @ Remove CABINET TOP COVER. (Loosen ten screws) # Remove CABINET SIDE COVER. (Loosen six screws) \$ Remove CABINET FRONT. (Loosen six screws) 	 <p>Fig 1</p>
<p>2. Removing Fan Motor (Fig 4)</p> <ul style="list-style-type: none"> ! Do basic procedure. (!-\$) @ Loosen nut for fixing fan by spanner. # Remove spring washer and plain washer. \$ Remove fan. % Remove fan stopper. ^ Disconnect Motor lead wire from control box. & Loosen four screws for fixing Motor bracket and then remove the Motor. 	 <p>Fig 2</p>  <p>Fig 3</p>
<p>3. Removing Motor Capacitor and Compressor Capacitor</p> <ul style="list-style-type: none"> ! Do basic procedure. (!-\$) @ Disconnect lead wire from the Motor capacitor and compressor capacitor. # Loosen two screws for fixing the capacitor bracket. \$ Remove Motor capacitor and compressor capacitor. 	 <p>Fig 4</p>
<p>4. Removing Magnetic Contacter. (Fig 5)</p> <ul style="list-style-type: none"> ! Do basic procedure !-@ . @ Disconnect lead wire from Magnetic Contacter. # Remove Magnetic contacter. (Loosen four screws) 	 <p>Fig 5</p>
<p>5. Removing Overload Protector. (Fig 6,7)</p> <ul style="list-style-type: none"> ! Do basic procedure !-#. @ Remove terminal cover. # Disconnect lead wire from overload protector. \$ Remove overload protector. 	 <p>Fig 6</p>  <p>Fig 7</p>

i DSA-181L/DSB-181L

PROCEDURES	PHOTOS
<p>1. Basic Procedures</p> <ul style="list-style-type: none"> ! Stop the air conditioner and pull out power plug from wall outlet. @ Remove CABINET TOP COVER. (Loosen ten screws) # Remove CABINET SIDE COVER. (Loosen six screws) \$ Remove CABINET FRONT. (Loosen six screws) 	 <p>Fig 1</p>
<p>2. Removing Fan Motor (Fig 4)</p> <ul style="list-style-type: none"> ! Do basic procedure. (↳\$) @ Loosen nut for fixing fan by spanner. # Remove spring washer and plain washer. \$ Remove fan. % Remove fan stopper. ^ Disconnect Motor lead wire from control box. & Loosen four screws for fixing Motor bracket and then remove the Motor. 	 <p>Fig 2</p>  <p>Fig 3</p>
<p>3. Removing Motor Capacitor and Compressor Capacitor.</p> <ul style="list-style-type: none"> ! Do basic procedure. (↳\$) @ Disconnect lead wire from the Motor capacitor and compressor capacitor. # Loosen two screws for fixing the capacitor bracket. \$ Remove Motor capacitor and compressor capacitor. 	 <p>Fig 4</p>
<p>4. Removing Magnetic Contactor. (Fig 5)</p> <ul style="list-style-type: none"> ! Do basic procedure ↳@ . @ Disconnect lead wire from Magnetic Contactor. ! Remove Magnetic contactor. (Loosen four screws) 	 <p>Fig 5</p>

3 EXPLODED DIAGRAM (Indoor Unit)

i DSA-151L/DSA-181L/DSB-181L



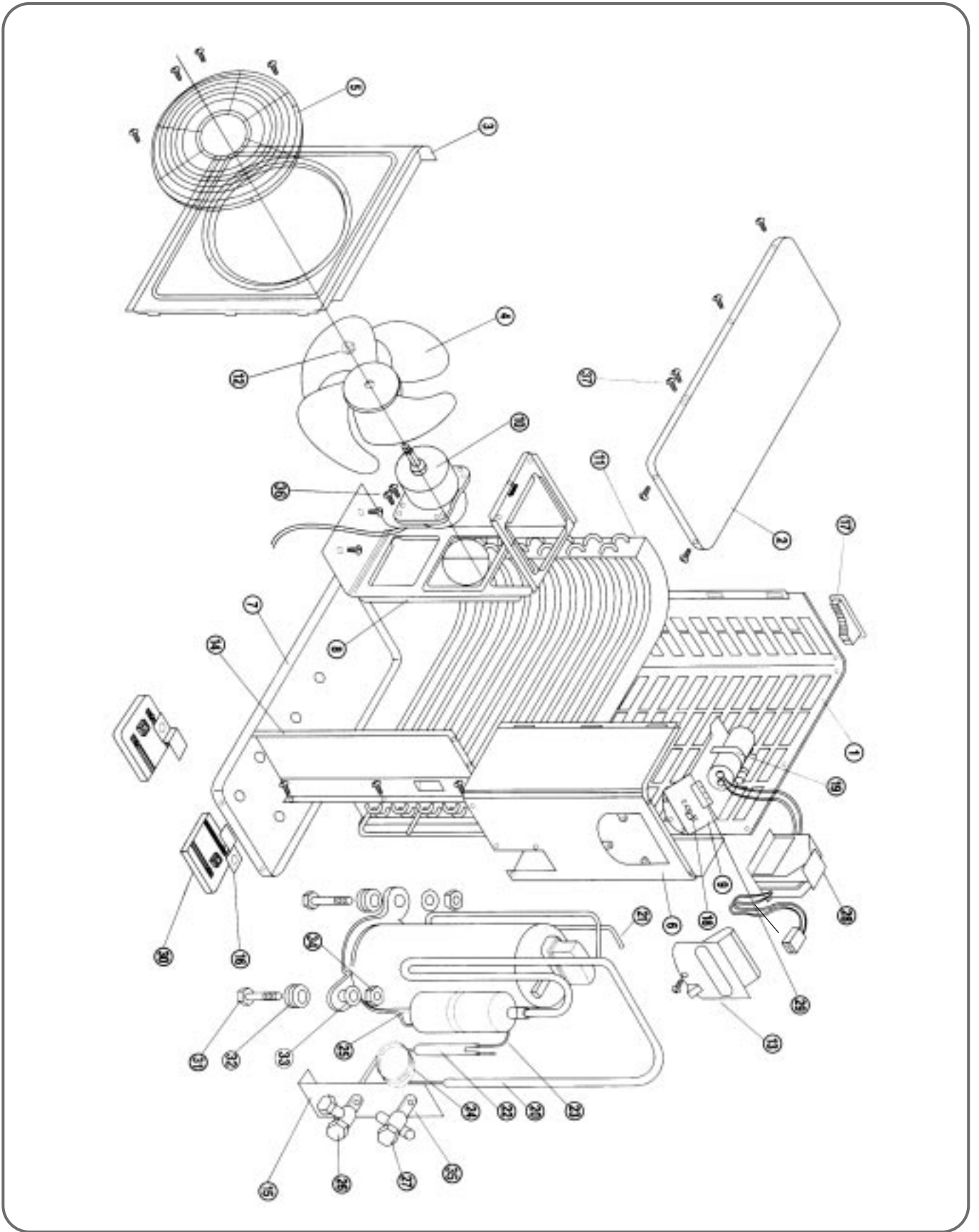
i DSA-151L/DSA181L/DSB-181L Parts List (Indoor Unit)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100400101	BODY	1	ABS	
2	3107600100	FLAP TOP	1	ABS	
3	3107600200	FLAP UNDER	1	ABS	
4	3106500400	BLADE VER	16	ABS	
5	3103000500	HOLDER MOTOR R	1	ABS	
6	3103000700	HOLDER BEARING	1	ABS	
7	3103000600	HOLDER MOTOR L	1	ABS	
8	3106400100	BEARING OILESS	1		
9	3101800200	FAN CROSS FLOW	1	Ø100X861L	
10	3102400800	GRILLE LATCH	3	POM	
11	3108000230	MOTOR ASS'Y	1	IC-9425 DWKC 5C	DSB-181L
	3108000230	MOTOR ASS'Y	1	IC-9425KH 6C	DSA-151L/181L
12	3102400900	GRILLE INSERT	1	ABS	
13	3100501000	BOX CONTROL	1	ABS (V0)	
14	3107410000	EVA ASS'Y	1		
15	3101930010	FILTER ELECTRO ASS'Y	1		
16	3101940010	FILTER CARBON ASS'Y	1		
17	3101401300	COVER TERMINAL BLOCK	1	ABS	
18	3108100100	PAN DRAIN	1	ABS	
19	3102200200	FRAME GRILLE	1	ABS	
20	3100000100	FILTER PRE R ASS'Y	1		

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
21	3100000200	FILTER PRE L ASS'Y	1		
22	3102900100	HINGE R-A	1	POM	
23	3102900300	HINGE L-A	1	POM	
24	3100001000	M-PCB ASS'Y	1		
25	3107800100	LINK VER CAM	1	P.O.M	
26	3104395400	F-PCB ASS'Y	1		
27	3108004300	MOTOR STEPPING	2	MP28GA/GSP-24SW-06/ST-28	L=400mm
28	3108912320	TERMINAL BLOCK	1	DBW-4P	
29	3107400300	EVA BRKT L	1	SGCC T1.0	
30	3107800200	LINK VER A	1	ABS	
31	3107800400	LINK VER C	1	ABS	
32	3107500200	EMBLEM	1	URETANE	
33	3105500400	PLT WINDOW SWITCH	1		
34	3104500300	PLATE MOUNTING	1	SGCC T0.8	
35	3108004310	MOTOR STEPPING	1	MP28GA/GSP-24SW-06/ST-28	L=1300mm

4 EXPLODED DIAGRAM (Outdoor Unit)

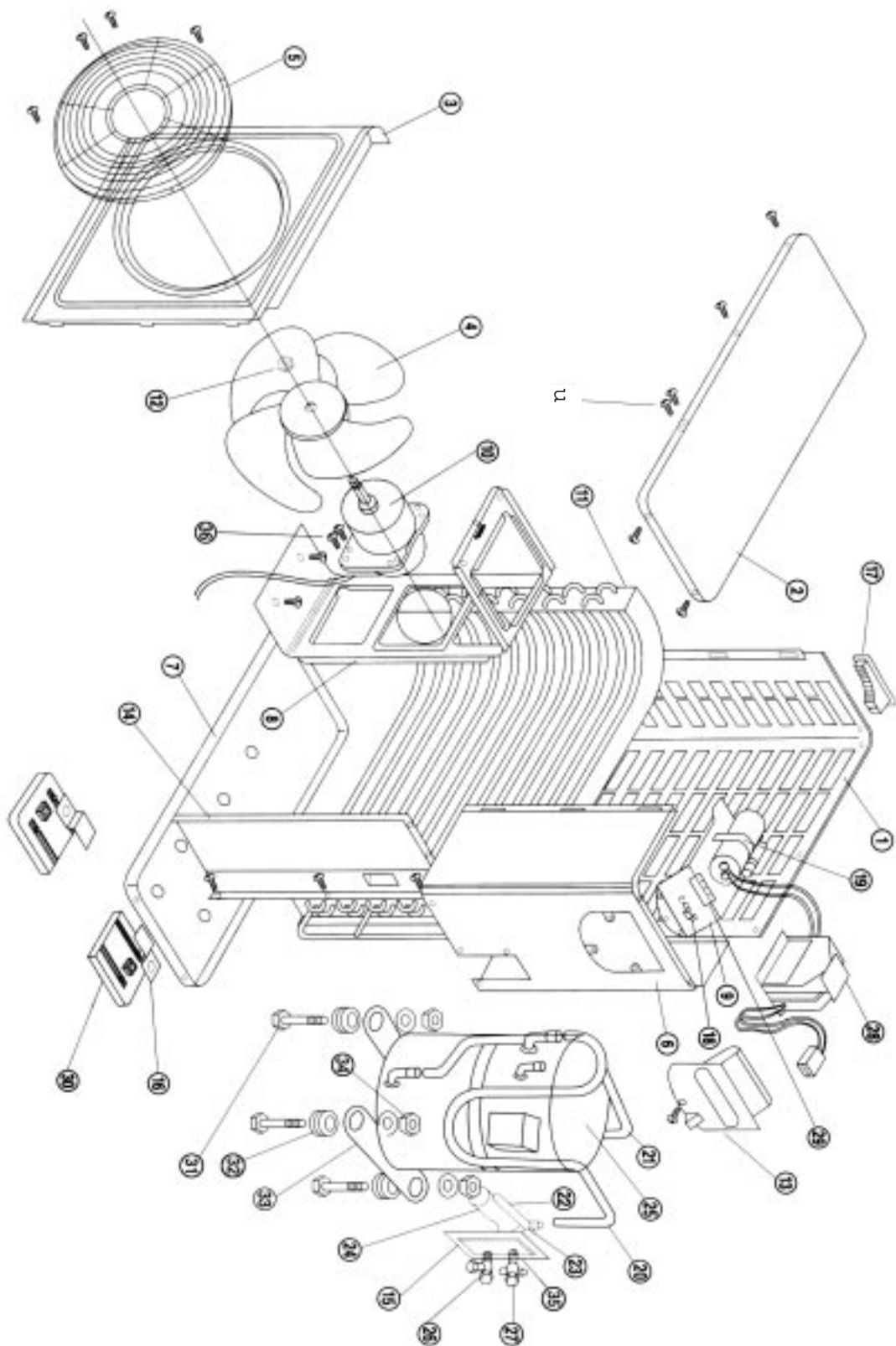
i DSA-151L/DSA-181L



i DSA-151L/DSA-181L Parts List (Outdoor Unit)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100800101	CAB BACK	1	SECC T1.0	
2	3104200500	PANEL TOP	1	SECC T1.0	
3	3100800201	CAB FRONT	1	SECC T1.0	
4	3101800100	FAN	1	ABS + G/F	
5	3102400710	GRILLE DISCHARGE	1	PP	
6	3100800301	CAB SIDE	1	SECC T1.0	
7	3100300301	PAN BASE	1	SECC T1.6	
8	3105300100	SUPPORTER MOTOR	1	SGCC T1.0	
9	3104200601	PANEL CONTROL	1	SGCC T1.0	
10	3108000520	MOTOR ODU	1	220V/60Hz	
11	3106800010	CONDENSER ASS'Y	1		
12	7391800011	NUT HEX	1		
13	3102600100	HANDLE R	1	PP	
14	3104500600	PLATE PARTITION	1	SGCC T1.0	
15	310061000P	BRACKET SERVICE ASS'Y	1		
16	3102100200	FOOT	4	SECC T2.0	
17	3102600200	HANDLE L	1	PP	
18	3101200200	CLAMP WIRE	2	SGCC T1.0	
19	3101200100	CLAMP CAPACITOR	1	SGCC T0.8	
20	3100016300	PIPE SUCTION ASS'Y	1	CU α i T0.8	DSA-151L
	3100016700	PIPE SUCTION ASS'Y	1	CU α i T0.8	DSA-181L

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
21	3100016200	PIPE DISCHARGE ASS'Y	1	CU $\frac{5}{16}$ i T0.8	DSA-151L
	3100016600	PIPE DISCHARGE ASS'Y	1	CU $\frac{5}{16}$ i T0.8	DSA-181L
22	3104400700	PIPE FILTER	1		
23	3104400600	PIPE TURN	1	CU $\frac{1}{4}$ i T0.8	
24	3104400800	PIPE CAPILLARY	1	CU $\frac{1}{8}$ i "	
25	3100030AE0	COMPRESSOR ASS'Y	1	RCA150A001	DSA-151L
	3107120010	COMPRESSOR ASS'Y	1	ECB 185211A	DSA-181L
26	3105400200	SERVICE VALVE-LIQ	1	$\frac{1}{4}$ i "	
27	3105400100	SERVICE VALVE-GAS	1	$\frac{1}{2}$ i "	
28	5SC0202700	POWER RELAY	1	G7L-2A-TUB	
29	3108912320	TERMINAL BLOCK	1	SN-DBW-4P	
30	3102101000	FOOT CUSHION	4	NR	
31	3107140010	COMP BOLT	3		
32	3101500200	RUBBER CUSHION	3		
33	7400208411	WASHER PLAIN	3		
34	7392801211	NUT LOCK	3		
35	7342602011	BOLT HEX	4		
36	7112501211	SCREW TAPPING	4		
37	8112401211	SCREW TAPPING	10		



i DSB-181L Parts List (Outdoor Unit)

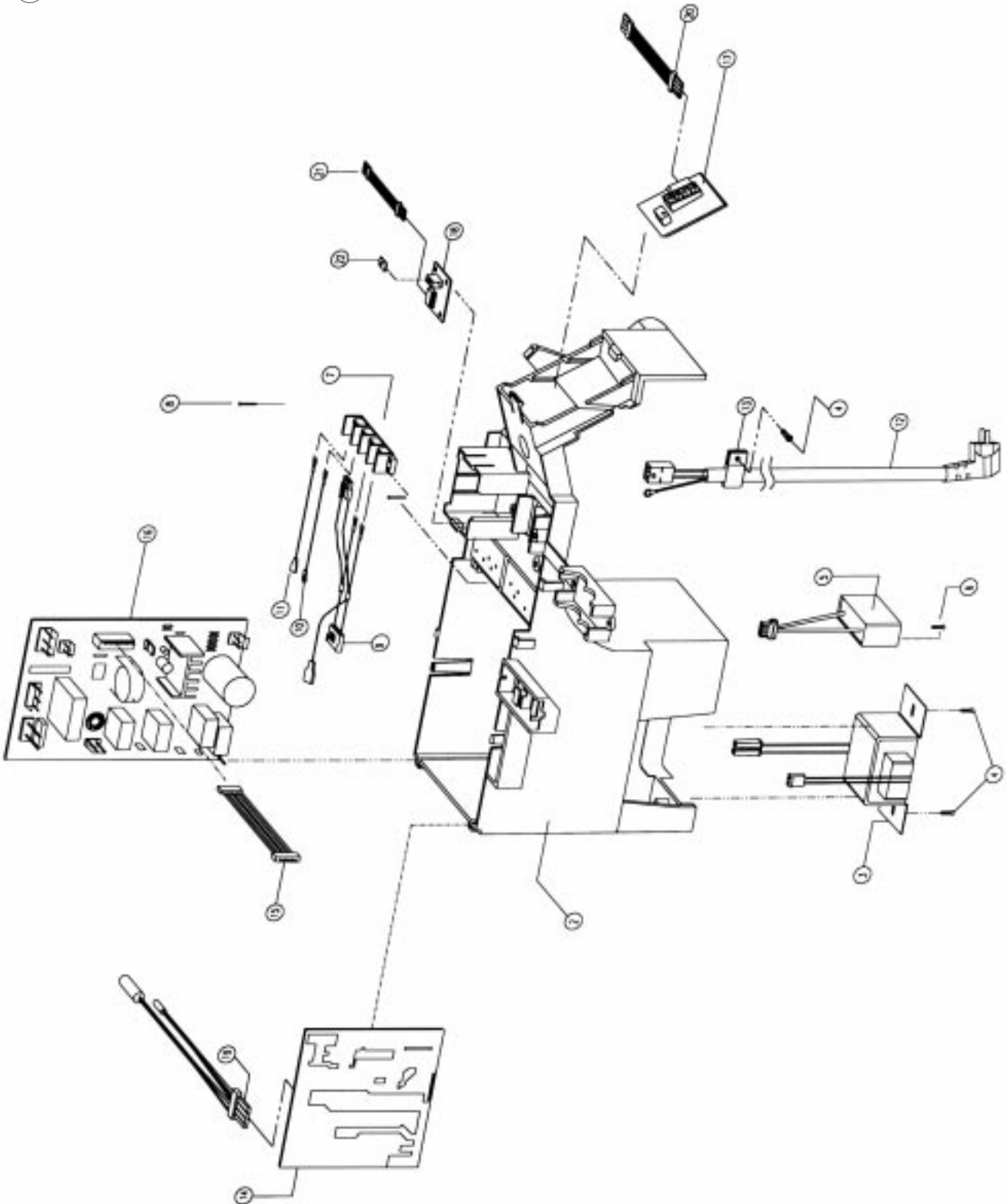
No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100800101	CAB BACK	1	SECC T1.0	
2	3104200500	PANEL TOP	1	SECC T1.0	
3	3100800201	CAB FRONT	1	SECC T1.0	
4	3101800100	FAN	1	ABS + G/F	
5	3102400710	GRILLE DISCHARGE	1	PP	
6	3100800301	CAB SIDE	1	SECC T1.0	
7	3100300301	PAN BASE	1	SECC T1.6	
8	3105300100	SUPPORTER MOTOR	1	SGCC T1.0	
9	3104210010	PANEL CONTROL	1	SGCC T1.0	
	3100039210	PANEL CONTROL	1	SGCC T1.0	DSB-181L for VDE Appliance
10	3108000400	MOTOR ODU	1	220V/50Hz	
11	3106800020	CONDENSER ASS'Y	1		
12	7391800011	NUT HEX	1		
13	3102600100	HANDLE R	1	PP	
14	3104500600	PLATE PARTITION	1	SGCC T1.0	
15	3100600000	BRACKET SERVICE ASS'Y	1		
16	3102100200	FOOT	4	SECC T2.0	
17	3102600200	HANDLE L	1	PP	
18	3101200200	CLAMP WIRE	2	SGCC T1.0	
	3101202000	CLAMP CORD	1	NYLON 66	DSB-181L for VDE Appliance
19	3101200100	CLAMP CAPACITOR	1	SGCC T0.8	
20	3100016700	PIPE SUCTION ASS'Y	1	CU α i T0.8	

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
21	3100016400	PIPE DISCHARGE ASS'Y	1	CU $\frac{3}{8}$; T0.8	
22	3104400700	PIPE FILTER	1		
23	3104400600	PIPE TURN	1	CU $\frac{1}{4}$; T0.8	
24	3104400800	PIPE CAPILLARY	1	CU $\frac{1}{8}$; "	
25	3107120000	COMPRESSOR	1	CRDQ-0200-PFJ	
26	3105400200	SERVICE VALVE-LIQ	1	$\frac{1}{4}$; "	
27	3105400100	SERVICE VALVE-GAS	1	$\frac{1}{2}$; "	
28	5SC0202700	POWER RELAY	1	G7L-2A-TUB	
29	3108912320	TERMINAL BLOCK	1	SN-DBW-4P	
30	3102101000	FOOT CUSHION	4	NR	
31	3106000110	BOLT COMP	3		
32	3101500200	RUBBER CUSHION	3		
33	7400208041	WASHER PLAIN	3		
34	7392801211	NUT HEX	3		
35	7342602011	BOLT HEX	4		

5 CONTROL BOX ASSEMBLY

i DSA-151L/DSA-181L/DSB-181L

① CONTROL BOX ASSY



i DSA-151L/DSA-181L/DSB-181L

No	PART NAME	SPEC	Q'TY	PART CODE	REMARK
1	CONTROL BOX ASS'Y	DSA-151L/DSA-181L	1	3100058320	
		DSB-181L	1	3100058210	
2	BOX CONTROL-2	ABS (VERSION2)	1	3100506900	
3	PCB TRANS ASS'Y	DWA-5423	1	5EPK633110	
		DWA-220V	1	5EPV633110	
4	SCREW TAPPING	T2S TRS 4X12 MFZN	3	7122401211	
5	CAPACITOR IDM	EAF-45125 (1.2 μ F/450V)	1	3106900210	
6	SCREW TAPPING	T2S TRS 4X24 MFZN	1	7141402411	
7	TERMINAL BLOCK	SN-DBW-4P	1	3108912320	
8	SCREW TAPPING	T2S TRS 3X16 MFZN	2	7111301611	
9	HARNESS POWER	UL1015 #16/18	1	3102704010	
10	HARNESS EARTH	UL1015 #18	1	3102797910	
11	HARNESS COMP SIGNAL	UL1015 #18	1	3102704410	
12	POWER CORDWS-93 (250V 10/16A)	1	31013A24B1		
13	CABLE CORD	DA-5N	1	3101200300	
14	CONTROL PCB ASS'Y	DSA-151L/DSA-181L	1	3104300120	
		DSB-181L (COOL/50Hz)	1	3104300110	
15	HARNESS CONNECTING	UL 1007 #26	1	3102704900	
16	POWER PCB ASS'Y	DSA-151L/DSA-181L/DSB-181L	1	3104300210	
17	LED PCB ASS'Y	15/18K	1	3104300300	
18	SWITCH PCB ASS'Y	15/18K	1	3104300400	
19	SENSOR ID ASS'Y	PEM-KD43C-D1	1	3104896000	
20	HARNESS LED PCB	UL 1007 #26	1	3102704510	
21	HARNESS SWITCH PCB	UL 1007 #26	1	3102707000	
22	KNOB SWITCH	ABS	1	3103400200	

DAEWOO

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DAEWOO

Service Manual

Model: DSA-151L

DSA-181L

DSB-181L



**DAEWOO ELECTRONICS CO., LTD.
OVERSEAS SERVICE DEPT.**