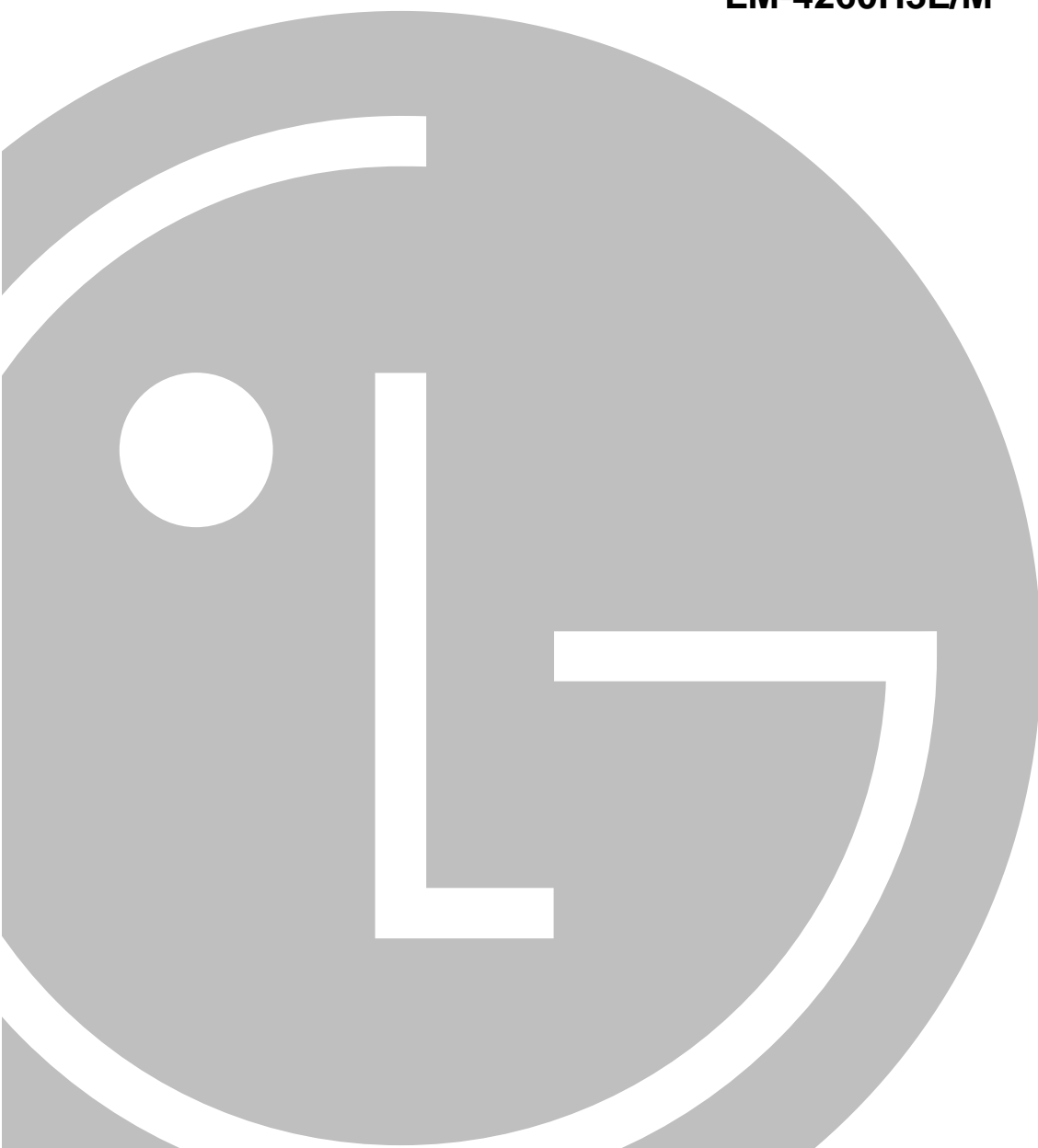




Multi Type Room Air Conditioner

SERVICE MANUAL

**MODEL: LM-2561C3L
LM-2860C5L
LM-3060H4L/M
LM-4260H3L/M**



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Functions

Indoor Unit

Operation ON/OFF by Remote controller

Sensing the Room Temperature

- Room temperature sensor. (THERMISTOR)

Room temperature control

- Maintains the room temperature in accordance with the Setting Temp.

Starting Current Control

- Indoor fan is delayed for 5 seconds at the starting.

Time Delay Safety Control

- Restarting is inhibited for approx. 3 minutes.

Indoor Fan Speed Control

- High, Med, Low, Chaos

Operation indication Lamps (LED)

- ① --- Lights up in operation
- ☆ --- Lights up in Sleep Mode
- ⌚ --- Lights up in Timer Mode
- ✱ --- Lights up in Deice Mode(for Heat pump model)
- OUT DOOR --- Lights up in Compressor operation(for Cooling model)

Health Dehumidification Operation

- Intermittent operation of fan at low speed.

Sleep Mode Auto Control

- The fan is switched to low(Cooling), med(Heating) speed.
- The unit will be stopped after 1, 2, 3, 4, 5, 6, 7 hours.

Natural Air Control by CHAOS Logic

- The fan is switched to intermittent or irregular operation
- The fan speed is automatically switched from high to low speed.

Airflow Direction Control

- The louver can be set at the desired position or swing up and down automatically.

Deice (defrost) control (Heating)

- Both the indoor and outdoor fan stops during deicing.
- Hot start after deice ends.

Hot-start Control (Heating)

- The indoor fan stops until the evaporator piping temperature will be reached at 22°C.

Remote Controller

Operation ON/OFF



Operation Mode Selection



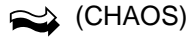
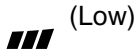
Cooling Operation Mode.(*)

Auto Operation Mode.(▲)

Healthy Dehumidification Operation Mode.(◇)

Heating Operation Mode.(☼)

Fan Speed Selection

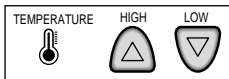


Room, Temperature Display



: (High: 39°C ←→ LOW : 11°C)

Temperature Setting



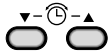
Cooling — Down to 18°C
Up to 30°C

Heating — Down to 16°C
Up to 30°C

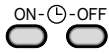
JET COOL



Setting the Time or Timer



Timer Selection



: OFF, ON, OFF ←→ ON

Timer Setting



Timer Cancel



: Cancel Sleep Mode, Timer ON or Timer OFF

Sleep Operation



: 1, 2, 3, 4, 5, 6, 7, Off Timer

Airflow Direction Control



Fan Operation Mode



: Fan Operates without cooling or heating.

Reset

● RESET

Product Specifications

1. LM-2561C3L

Item	Operation		A-Unit	B or C-Unit	A+B or C	B+C	A+B+C
	Unit						
Cooling Capacity	Btu/h(kcal/h)		10,000(2,512)	10,000(2,512)	20,000(5,025)	15,000(3,769)	25,000(6,281)
Moisture Removal	/h		1.4	1.4	2.8	2.1	3.5
Power Source	ø, V, Hz		1Ø, 230V, 50Hz				
Air Circulation	m ³ /min	Indoor	8.6	7.0	-	-	-
		Outdoor	53		-	-	-
Noise Level	dB(A)	Indoor	36 + 1	34 + 1	-	-	-
		Outdoor	55 + 1				
Input	W		1080	1,300	2,250	-	2,400
Runnig Current	A		5.1	6.1	10.5	-	10.9
E.E.R.	Btu/h·w		8.33	10.4	7.29	-	10.0
Motor Output	W	Indoor	13	7.5	-	-	-
		Outdoor	61				
Dimensions(W x H x D)	mm	Indoor	888 x 284 x 170	802 x 262 x 165	-	-	-
		Outdoor	870 x 655 x 320				
Net. Weight	kg	Indoor	10	7	-	-	-
		Outdoor	61				
Refrigerant(R-22)(at 7.5m)	g		985	1,300	-	-	-
Airflow Direction Control(Up & Down)			O				
Remocon Type			L.C.D Wireless				
Service Valve	Liquid		1/4"(6.35)		-	-	-
	Gas		3/8"(9.52)		-	-	-
Sleeping Operation			O				
Drain Hose			O				

2. LM-2860C5L

Item	Operation		A1 or A2	B1 or B2 or B3	A1 + A2	A1 or A2+B1 or B2 or B3	B1+B2 or B3	B1+B2+B3
	Unit							
Cooling Capacity	Btu/h		11,000	8,500	14,000	19,500	12,400	13,500
	kcal/h		2,772	2,142	3,528	4,914	3,125	3,402
Moisture Removal	/h		1.6	1.2	2.0	2.8	1.8	1.9
Power Source	ø, V, Hz		1Ø, 230V, 50Hz					
Air Circulation	m³/min	Indoor	7.0					
		Outdoor	58					
Noise Level	dB(A)	Indoor	38					
		Outdoor	57					
Input	W		1,120	1,020	1,220	2,190	1,130	1,150
Runnig Current	A		5.0	4.5	5.4	9.2	5.0	5.1
E.E.R.	Btu/h·w		9.8	8.3	11.5	8.9	11.0	11.7
Motor Output	W	Indoor	8					
		Outdoor	102					
Dimensions(W x H x D)	mm	Indoor	802 x 262 x 165					
		Outdoor	870 x 800 x 320					
Net. Weight	kg	Indoor	7					
		Outdoor	83					
Refrigerant(R-22)(at 7.5m)	g		1,110	1,600				
Airflow Direction Control(Up & Down)			O					
Remocon Type			L.C.D Wireless					
Service Valve	Liquid		1/4"(6.35)					
	Gas		3/8"(9.52)					
Sleeping Operation			O					
Drain Hose			O					

Item	Operation		A1 or A2+B1+B2 or B3	A1 or A2+B1 or B2 or B3	A1 or A2+B1+B2+B3	A1+A2+B1+B2 or B3	A1+A2+B1+B2+B3
	Unit						
Cooling Capacity	Btu/h		23,400	22,500	24,500	26,400	27,500
	kcal/h		5,897	5,670	6,174	6,653	6,930
Moisture Removal	/h		3.3	3.2	3.5	3.7	3.9
Power Source	ø, V, Hz		1Ø, 230V, 50Hz				
Air Circulation	m ³ /min	Indoor	7.0				
		Outdoor	58				
Noise Level	dB(A)	Indoor	38				
		Outdoor	57				
Input	W		2200	2220	2270	2300	2320
Runnig Current	A		9.7	9.6	9.8	10.1	10.2
E.E.R.	Btu/h-w		10.6	10.1	10.8	11.5	11.9
Motor Output	W	Indoor	8				
		Outdoor	102				
Dimensions(W x H x D)	mm	Indoor	802 x 262 x 165				
		Outdoor	870 x 800 x 320				
Net. Weight	kg	Indoor	7				
		Outdoor	83				
Refrigerant(R-22)(at 7.5m)	g						
Airflow Direction Control(Up & Down)			O				
Remocon Type			L.C.D Wireless				
Service Valve	Liquid		1/4"(6.35)				
	Gas		3/8"(9.52)				
Sleeping Operation			O				
Drain Hose			O				

3. LM-3060H4L/M

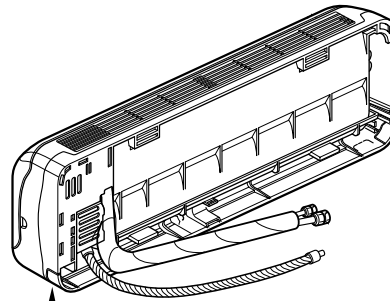
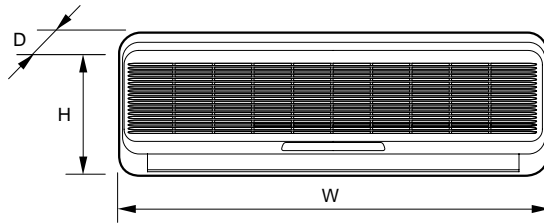
Item		Operation		A1-unit	A2 -unit	B1 or B2-unit	A1+A2	B1+B2	A1+A2+ B1+B2	
		Unit								
Cooling Capacity		Btu/h(kcal/h)		14,000(3,527)	8,000(2,015)	8,000(2,015)	18,000(4,535)	12,000(3,023)	30,000(7,559)	
Heating Capacity				14,000(3,527)	9,000(2,267)	9,000(2,267)	18,000(4,535)	12,000(3,023)	30,000(7,559)	
Moisture Removal		/h		1.7	1.2	1.2	2.9	2.4	5.3	
Power Source		ø, V, Hz		1Ø, 220-240V, 50Hz						
Air Circulation		m ³ /min		Indoor	9.0	7.0	7.0	-	-	-
				Outdoor	58			-	-	-
Noise Level		dB(A)		Indoor	35	33	33	-	-	-
				Outdoor	58					
Input	Cooling	W		1,850		1,700	1,300	1,990	1,440	3,300
	Heating			2,000		2,350	1,570	1,790	1,150	2,800
Runnig Current	Cooling	A		8.1		7.5	5.8	8.9	6.4	14.5
	Heating			8.9		10.4	7.0	8.0	5.1	12.5
E.E.R.	Cooling	Btu/h·w		7.5		4.7	6.1	9.0	8.3	9.1
C.O.P.	Heating	-		1.7		1.0	1.4	2.5	2.6	2.7
Motor Output		W		Indoor	13	7.5	7.5	-	-	-
				Outdoor	101.5					
Dimensions(W x H x D)		mm		Indoor	888x287x170	802 x 262 x 165		-	-	-
				Outdoor	870 x 800 x 320					
Net. Weight		kg		Indoor	10	7	7	-	-	-
				Outdoor	88					
Refrigerant(R-22)(at 7.5m)		g		1,720		1,200	-	-	-	
Airflow Direction Control(Up & Down)				O						
Remocon Type				L.C.D Wireless						
Service Valve		Liquid		1/4"(6.35)	1/4"(6.35)	1/4"(6.35)	-	-	-	
		Gas		1/2"(12.7)	3/8"(9.52)	3/8"(9.52)	-	-	-	
Sleeping Operation				O						
Drain Hose				O						

4. LM-4260H3L/M

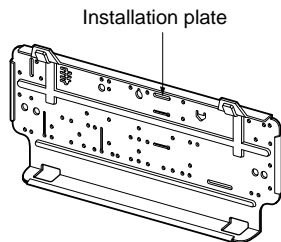
Item		Operation		A-Unit	B or C-Unit	A+B or C	B+C	A+B+C
		Unit						
Cooling Capacity		Btu/h(kcal/h)	18,000(4,536)		15,500(3,906)	33,500(8,443)	23,000(5,796)	41,000(10,333)
Heating Capacity			18,000(4,536)		15,500(3,906)	33,500(8,443)	24,000(6,048)	42,000(10,585)
Moisture Removal		/h	2.5		2.2	4.8	3.4	6.5
Power Source		ø, V, Hz	1Ø, 220-240V, 50Hz					
Air Circulation		m ³ /min	Indoor	12.5	8.5	-	-	-
			Outdoor	106			-	-
Noise Level		dB(A)	Indoor	42	40	-	-	-
			Outdoor	65				
Input	Cooling	W	1,950		2,250	3,850	2,450	4,150
	Heating		2,050		2,950	4,700	2,350	4,150
Runnig Current	Cooling	A	8.5		10.0	17.2	10.9	18.2
	Heating		9.0		13.0	20.9	11.0	18.2
E.E.R.	Cooling	Btu/h·w	9.2		6.9	8.7	9.4	9.9
C.O.P.	Heating	-	2.6		1.5	2.1	3.0	3.0
Motor Output		W	Indoor	22	13			
			Outdoor	80 x 2				
Dimensions(W x H x D)		mm	Indoor	1180 x 314 x 181	888 x 287 x 170			
			Outdoor	1225 x 900 x 370				
Net. Weight		kg	Indoor	11	9	-	-	-
			Outdoor	106				
Refrigerant(R-22)(at 7.5m)		g	1,920		2,250	-	-	-
Airflow Direction Control(Up & Down)		O						
Remocon Type		L.C.D Wireless						
Service Valve		Liquid	1/4"(6.35)			-	-	-
		Gas	1/2"(12.7)	1/2"(12.7)	-	-	-	
Sleeping Operation		O						
Drain Hose		O						

Dimensions

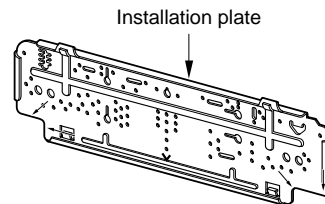
1. Indoor Unit



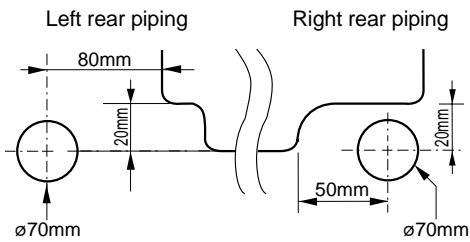
Tubing hole cover



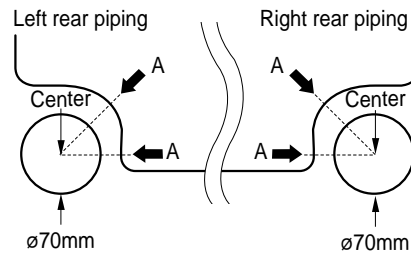
(4.5K, 6K, 7K, 8K, 9K)



(9K, 10K, 12K, 18K)



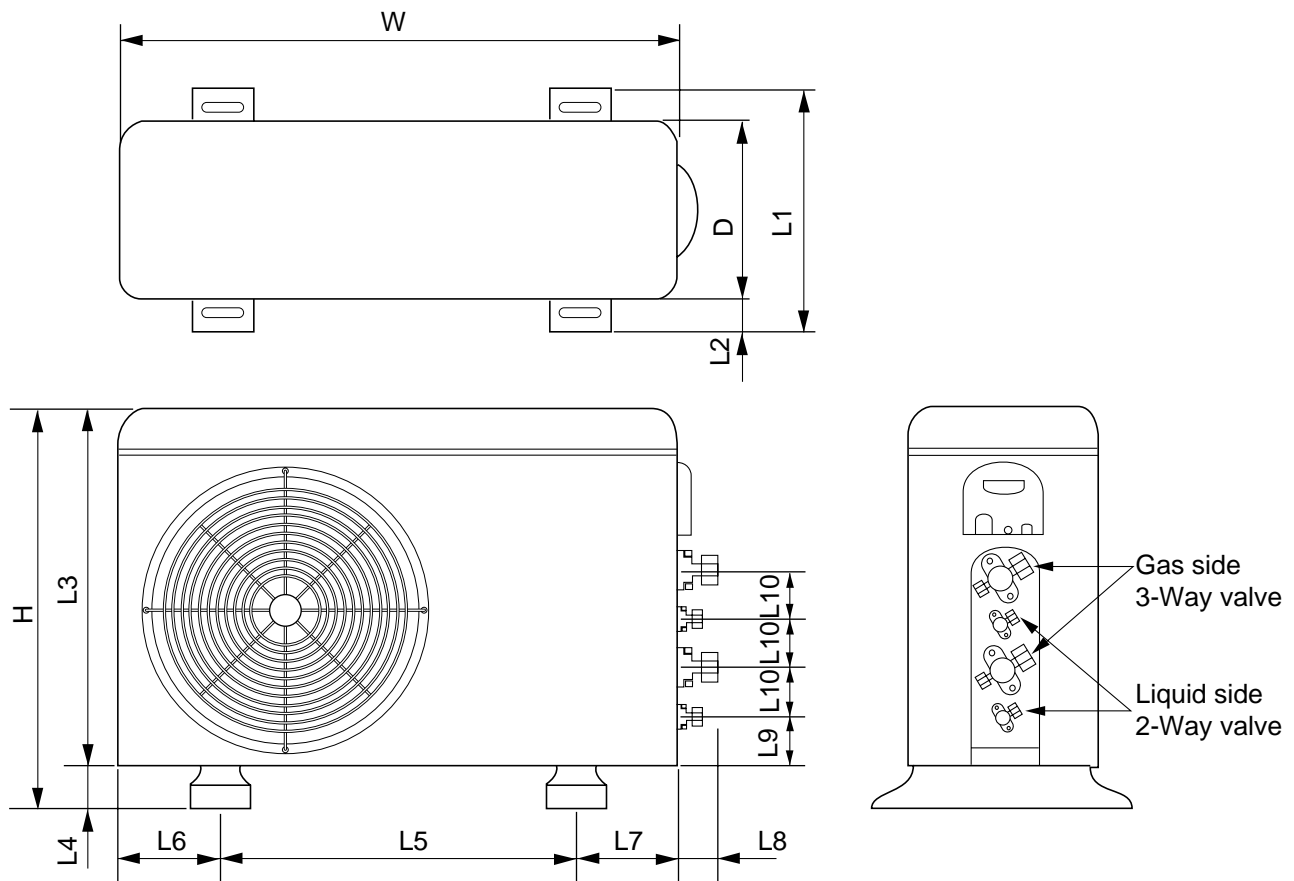
(4.5K, 6K, 7K, 8K, 9K)



(9K, 10K, 12K, 18K)

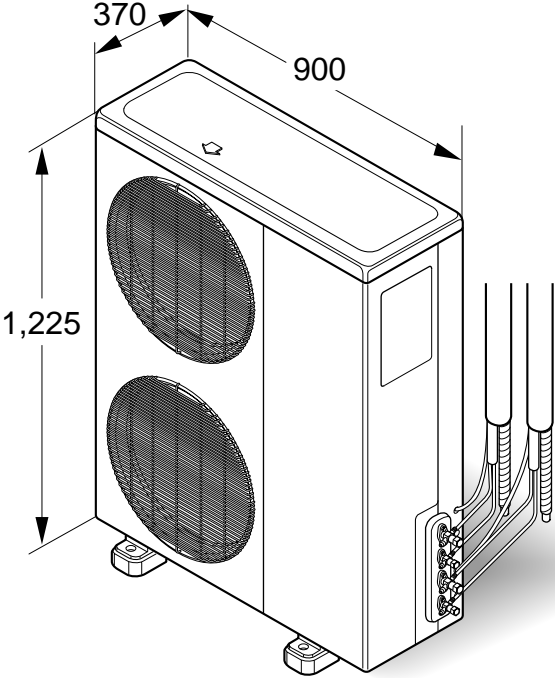
DIM		MODEL	4.5K, 6K, 7K, 8K, 9K Btu Series	9K, 10K, 12K Btu Series	18K Btu
W	mm		802	888	1,080
H	mm		262	287	314
D	mm		165	170	181

2. Outdoor Unit



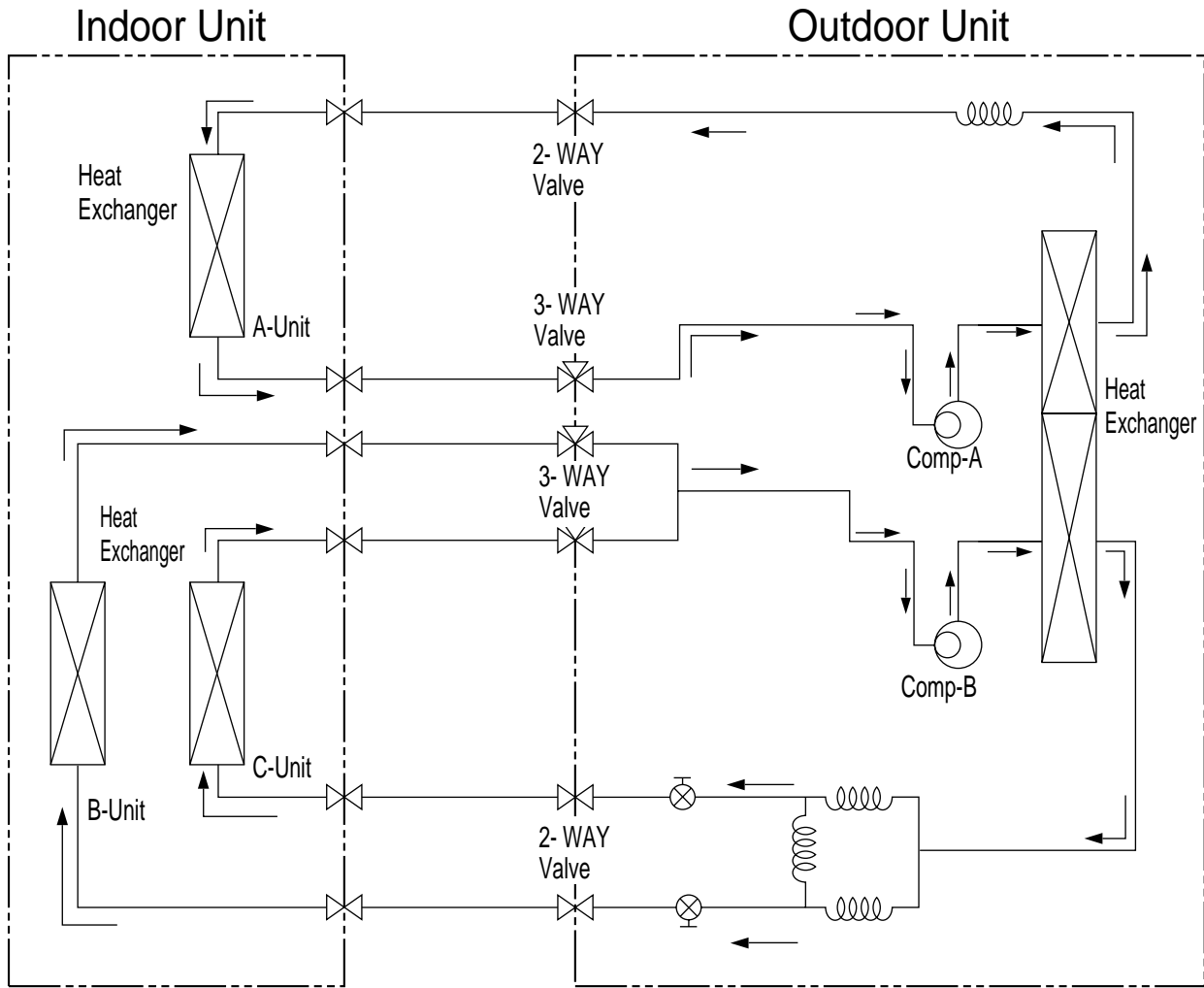
DIM	MODEL	LM-2561C3L	LM-3060H4L/M LM-2860C5L
W	mm	870	870
H	mm	655	800
D	mm	320	320
L1	mm	370	370
L2	mm	25	25
L3	mm	630	775
L4	mm	25	25
L5	mm	546	546
L6	mm	160	160
L7	mm	160	160
L8	mm	64	64
L9	mm	76.5	76.5
L10	mm	50	45

LM-4260H3L/M



Refrigeration Cycle Diagram

1. LM-2561C3L(Cooling only model)

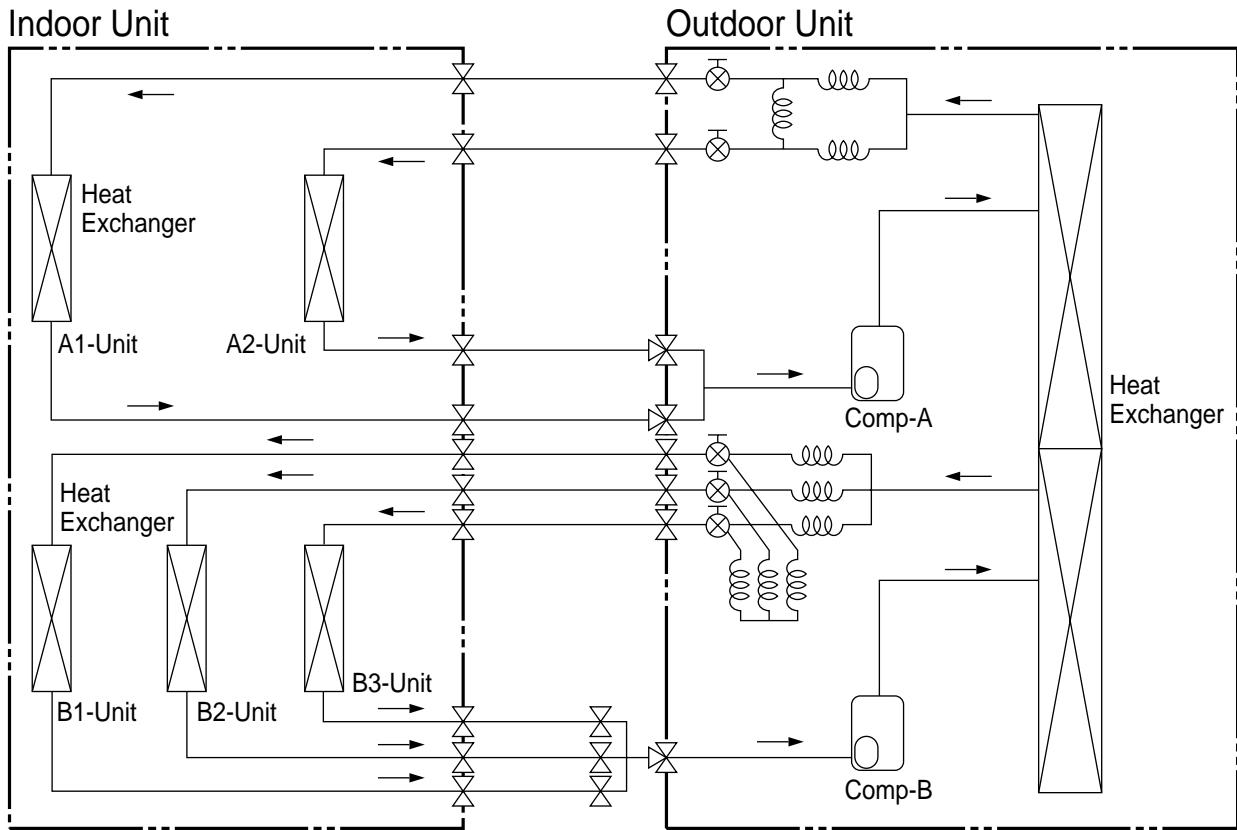


Pipe Size (Diameter : inch)		Max. piping length (m)	Max. piping elevation (m)
Gas	Liquid		
3/8"(1/2")	1/4"	10~15	5~7

ex)

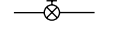
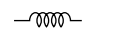

	Solenoid Valve
	Capillary
	Cooling & Deice
	Heating

2. LM-2860C5L/M(Cooling only model)

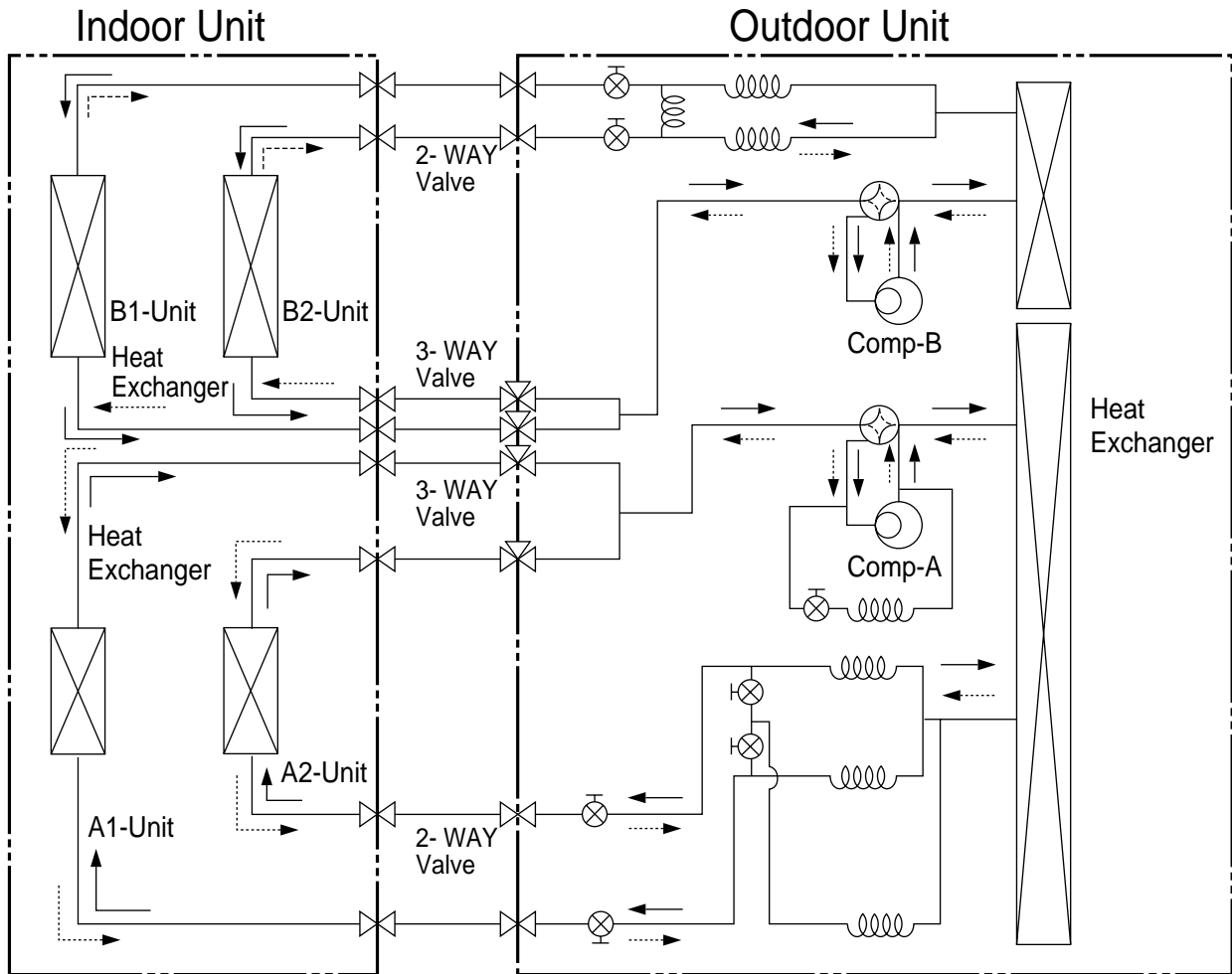


Pipe Size (Diameter : inch)		Max. piping length (m)	Max. piping elevation (m)
Gas	Liquid		
3/8"	1/4"	10~15	5~7

ex)

	Solenoid Valve
	Capillary
	Cooling & Deice

3. LM-3060H4L/M(Cooling & Heating model)

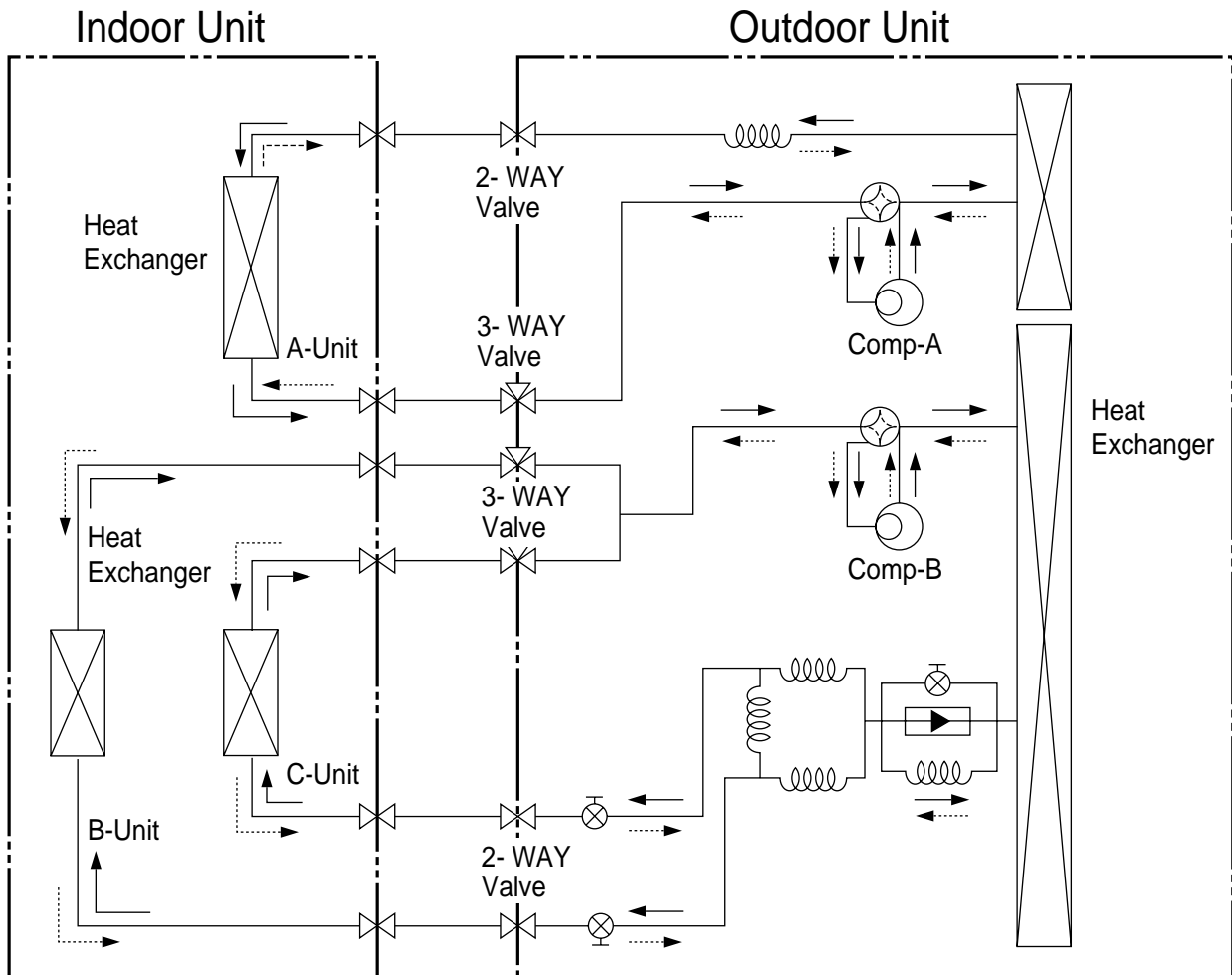


Pipe Size (Diameter : inch)		Max. piping length (m)	Max. piping elevation (m)
Gas	Liquid		
3/8"(1/2")	1/4"	10~15	5~7

ex)

	Solenoid Valve
	Capillary
	Cooling & Deice
	Heating

4. LM-4260H3L/M(Cooling & Heating model)



Pipe Size (Diameter : inch)		Max. piping length (m)	Max. piping elevation (m)
Gas	Liquid		
1/2"	1/4"	10~15	5~7

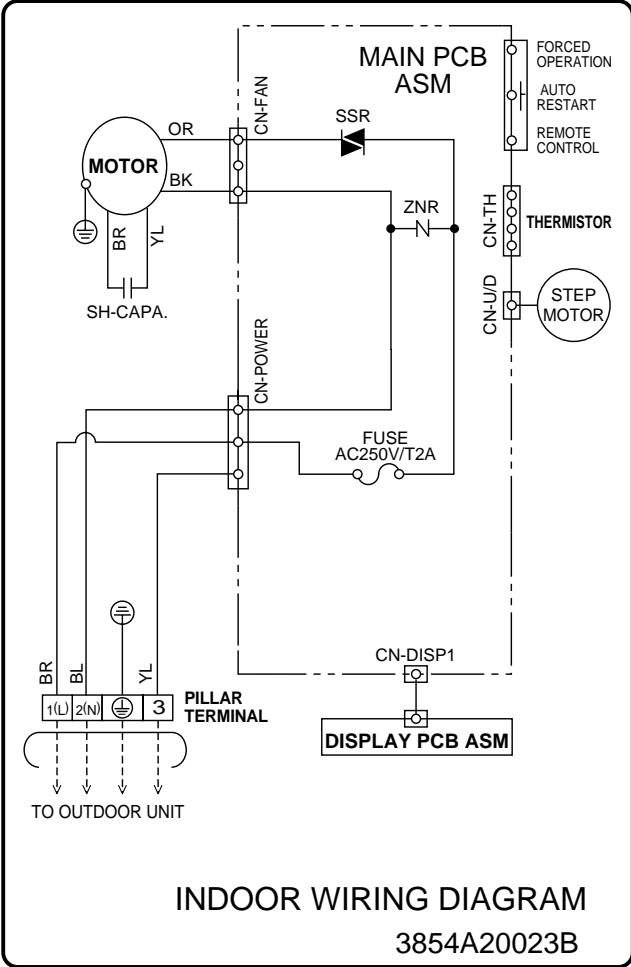
ex)

	Solenoïd Valve
	Capillary
	Cooling & Deice
	Heating
	Check Valve

Wiring Diagram

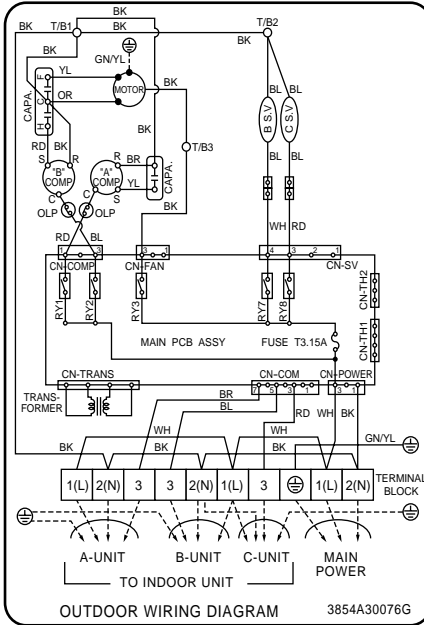
1. Indoor Unit

■ LM-2561C3L, LM-2860C5L, LM-3060H4L/M, LM-4260H3L/M

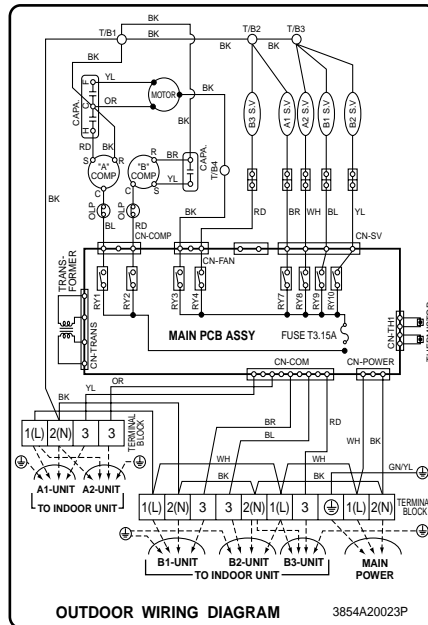


2. Outdoor Unit

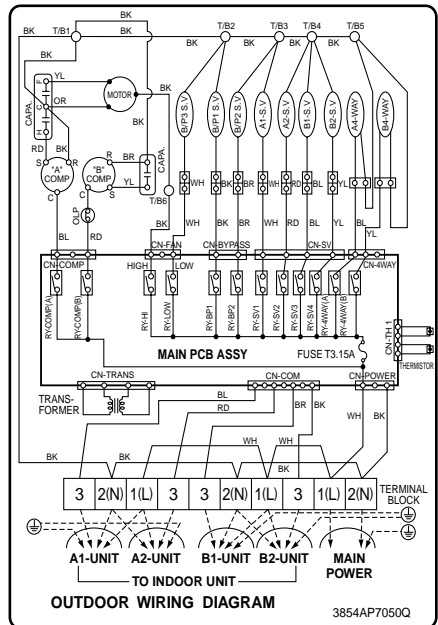
1. LM-2561C3L



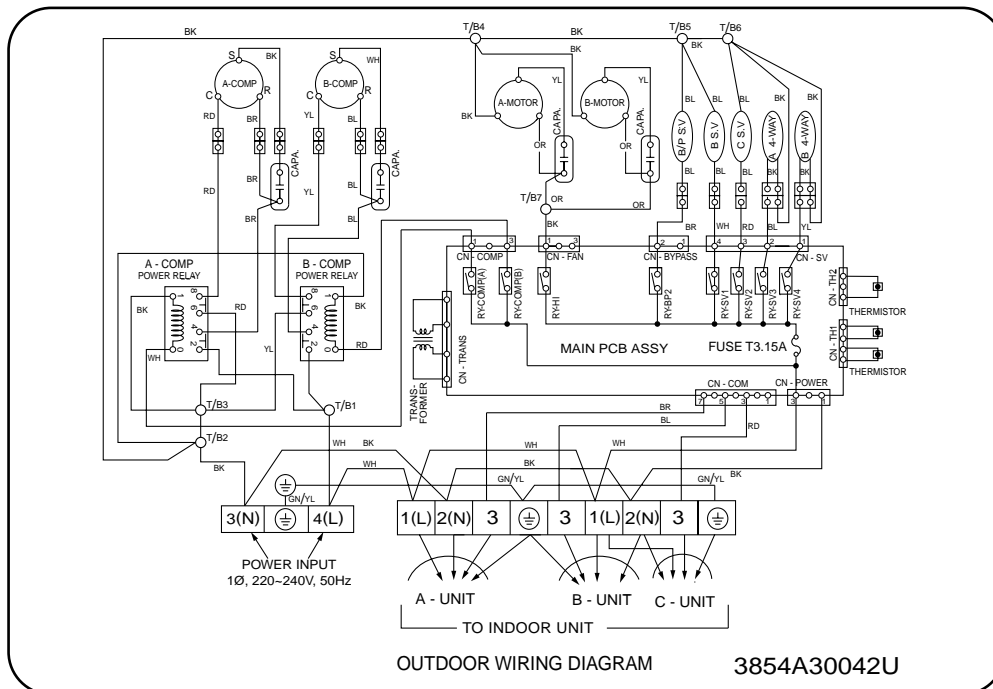
2. LM-2860C5L



3. LM-3060H4L/M



4. LM-4260H3L



Operation Details

1. MAIN UNIT FUNCTION

• DISPLAY

1) C/O Model

Operation Indicator

- On while in appliance operation, off while in appliance pause
- Flashing while in disconnection or short in Thermistor (3 sec off / 0.5 sec on)

Sleep Timer Indicator

- On while in sleep timer mode, off when sleep timer cancel or appliance operation pause

Timer Indicator

- On while in timer mode (on/off), off when timer mode is completed or canceled.

Comp. Running Indicator

- While in appliance operation, on while in outdoor unit compressor running, off while in compressor off

2) H/P Model

Operation Indicator

- On while in appliance operation, off while in appliance pause
- Flashing while in disconnection or short in Thermistor (3 sec off / 0.5 sec on)

Sleep Timer Indicator

- On while in sleep timer mode, off when sleep timer cancel or appliance operation pause

Timer Indicator

- On while in timer mode (on/off), off when timer mode is completed or canceled

Defrost Indicator

- Off except when hot start during heating mode operation or while in defrost control

■ Cooling Mode Operation

- When the intake air temperature reaches 0.5°C below the setting temp, the compressor and the outdoor fan stop.
- When it reaches 0.5°C above the setting temp, they start to operate again.
 - Compressor ON Temp ▶ Setting Temp+0.5°C
 - Compressor OFF Temp ▶ Setting Temp-0.5°C
- While in compressor running, operating with the airflow speed set by the remote control. While in compressor not running, operating with the low airflow speed regardless of the setting.

■ Healthy Dehumidification Mode

- When the dehumidification operation input by the remote control is received, the intake air temperature is detected and the setting temp is automatically set according to the intake air temperature.
 - 26°C ≤ Intake Air Temp ▶ 25°C
 - 24°C ≤ Intake Intake Air Temp < 26°C ▶ Intake Air Temp - 1°C
 - 18°C ≤ Intake Intake Air Temp < 24°C ▶ Intake Air Temp - 0.5°C
 - Intake Air Temp < 18°C ▶ 18°C

- While in compressor off, the indoor fan repeats low airflow speed and pause.
- While the intake air temp is between compressor on temp. and compressor off temp., 10-min dehumidification operation and 4-min compressor off repeat.
Compressor ON Temp. ▶ Setting Temp+0.5°C
Compressor OFF Temp. ▶ Setting Temp-0.5°C
- In 10-min dehumidification operation, the indoor fan operates with the low airflow speed.

■ Heating Mode Operation(H/P model)

- When the intake air temp reaches +3°...above the setting temp, the compressor is turned off. When below the setting temp, the compressor is turned on.
Compressor ON Temp. ▶ Setting Temp.
Compressor OFF Temp. ▶ Setting Temp.+3°C
- While in compressor on, the indoor fan is off when the indoor pipe temp. is below 20°C, when above 28°C , it operates with the low or setting airflow speed. When the indoor pipe temp is between 20°C and 28°C, it operates with Super-Low(while in sleep mode, with the medium airflow speed).
- While in compressor off, the indoor fan is off when the indoor pipe temp is below 33°C, when above 35°C , it operates with the low airflow speed.
- If overloaded while in heating mode operation, in order to prevent the compressor from OLP operation, the outdoor fan is turned on/off according to the indoor pipe temp.
- While in defrost control, both of the indoor and outdoor fans are turned off.

■ Defrost Control(H/P model)

- Defrost operation is controlled by timer and sensing temperature of outdoor pipe.
- The first defrost starts only when the outdoor pipe temperature falls below -6°C after 60 minutes passed from starting of heating operation and more than 10 minutes operation of compressor.
- Defrost ends after 12 minutes passed from starting of defrost operation or after the outdoor fan operates within max. 2 minutes 30 seconds when the outdoor pipe temperature rises over 12°C even it before 12 minutes.
- The second defrost starts only when the outdoor pipe temperature falls below -6°C after 60 minutes passed from ending of the first defrost and more than 10 minutes operation of compressor.

■ Cooling overload

- Control indoor fan by sensing outdoor pipe temperature.
- One step down from setting fan speed if pipe temperature is over 50°C and if below 45°C, operate on setting temperature.

■ Heating overload(H/P models)

- Outdoor fan ON/OFF by sensing outdoor pipe temperature.
- Outdoor fan is OFF if pipe temperature is over 6.5°C and outdoor fan is ON if pipe temperature is below 0°C.
- Outdoor fan is off if any one part is heating overload condition.

■ Fuzzy Operation (C/O Model)

- According to the temperature set by Fuzzy rule, when the intake air temp is 0.5°C or more below the setting temp, the compressor is turned off. When 0.5°C or more above the setting temp, the compressor is turned on.
Compressor ON Temp ◀ Setting Temp + 0.5°C
Compressor OFF Temp ◀ Setting Temp + 0.5°C
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temp at that time.
26°C ≤ Intake Air Temp ◀ 25°C
24°C ≤ Intake Air Temp < 26°C ◀ Intake Air Temp + 1°C
22°C ≤ Intake Air Temp < 24°C ◀ Intake Air Temp + 0.5°C
18°C ≤ Intake Air Temp < 22°C ◀ Intake Air Temp
Intake Air Temp < 18°C ◀ 18°C
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan is automatically selected according to the temperature.

■ Fuzzy Operation (H/P Model)

- When any of operation mode is not selected like the moment of the power on or when 3 hrs has passed since the operation off, the operation mode is selected.
- When determining the operation mode, the compressor, the outdoor fan, and the 4 way valve are off and only the indoor fan is operated for 15 seconds. Then an operation mode is selected according to the intake air temp at that moment as follows.
24°C ≤ Intake Air Temp ◀ Fuzzy Operation for Cooling
21°C ≤ Intake Air Temp < 24°C ◀ Fuzzy Operation for Dehumidification
Intake Air Temp < 21°C ◀ Fuzzy Operation for Heating
- If any of the operation modes among cooling / dehumidification / heating mode operations is carried out for 10 sec or longer before Fuzzy operation, the mode before Fuzzy operation is operated.

1) Fuzzy Operation for Cooling

- According to the setting temperature selected by Fuzzy rule, when the intake air temp is 0.5°C or more below the setting temp, the compressor is turned off. When 0.5°C or more above the setting temp, the compressor is turned on.
Compressor ON Temp ◀ Setting Temp + 0.5°C
Compressor OFF Temp ◀ Setting Temp + 0.5°C
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temp at that time.
26°C ≤ Intake Air Temp ◀ 25°C
24°C ≤ Intake Air Temp < 26°C ◀ Intake Air Temp + 1°C
22°C ≤ Intake Air Temp < 24°C ◀ Intake Air Temp + 0.5°C
18°C ≤ Intake Air Temp < 22°C ◀ Intake Air Temp
Intake Air Temp < 18°C ◀ 18°C
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan is automatically selected according to the temperature.

2) Fuzzy Operation for Dehumidification

- According to the setting temperature selected by Fuzzy rule, when the intake air temp is 0.5°C or more below the setting temp, the compressor is turned off. When 0.5°C or more above the setting temp, the compressor is turned on.
 - Compressor ON Temp ▶ Setting Temp + 0.5°C
 - Compressor OFF Temp ▶ Setting Temp+0.5°C
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temp at that time.
 - 26°C ≤ Intake Air Temp ▶ 25°C
 - 24°C ≤ Intake Air Temp < 26°C ▶ Intake Air Temp+1°C
 - 22°C ≤ Intake Air Temp < 24°C ▶ Intake Air Temp+0.5°C
 - 18°C ≤ Intake Air Temp < 22°C ▶ Intake Air Temp
 - Intake Air Temp < 18°C ▶ 18°C
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan repeats the low airflow speed or pause as in dehumidification operation.

3) Fuzzy Operation for Heating

- According to the setting temperature selected by Fuzzy rule, when the intake air temp is 3°C or more above the setting temp, the compressor is turned off. When below the setting temp, the compressor is turned on.
 - Compressor ON Temp ▶ Setting Temp
 - Compressor OFF Temp ▶ Setting Temp + 3°C
- At the beginning of Fuzzy mode operation, the setting temperature is automatically selected according to the intake air temp at that time.
 - 20°C ≤ Intake Air Temp ▶ Intake Air Temp + 0.5°C
 - Intake Air Temp < 20°C ▶ 20°C
- When the Fuzzy key (Temperature Control key) is input after the initial setting temperature is selected, the Fuzzy key value and the intake air temperature at that time are compared to select the setting temperature automatically according to the Fuzzy rule.
- While in Fuzzy operation, the airflow speed of the indoor fan is set to the high or the medium according to the intake air temperature and the setting temperature.

■ Airflow Speed Selection

- The airflow speed of the indoor fan is set to high, medium, low, or chaos (auto) by the input of the airflow speed selection key on the remote control.

■ On-Timer Operation

- When the set time is reached after the time is input by the remote control, the appliance starts to operate.
- The timer LED is on when the on-timer is input. It is off when the time set by the timer is reached.
- If the appliance is operating at the time set by the timer, the operation continues.

■ Off-Timer Operation

- When the set time is reached after the time is input by the remote control, the appliance stops operating.
- The timer LED is on when the off-timer is input. It is off when the time set by the timer is reached.
- If the appliance is on pause at the time set by the timer, the pause continues.

■ Off-Timer <=> On-Timer Operation

- When the set time is reached after the on/off time is input by the remote control, the on/off-timer operation is carried out according to the set time.

■ Sleep Timer Operation

- When the sleep time is reached after <1,2,3,4,5,6,7,0(cancel) hr> is input by the remote control while in appliance operation, the operation of the appliance stops.
- While the appliance is on pause, the sleep timer mode cannot be input.
- While in cooling mode operation, 30 min later since the start of the sleep timer, the setting temperature increases by 1°C. After another 30 min elapse, it increases by 1°C again.
- When the sleep timer mode is input while in cooling cycle mode, the airflow speed of the indoor fan is set to the low.
- When the sleep timer mode is input while in heating cycle mode, the airflow speed of the indoor fan is set to the medium.

■ Chaos Swing Mode

- By the Chaos Swing key input, the upper/lower vane automatically operates with the Chaos Swing or they are fixed to the desired direction.
- While in Chaos Swing mode, the angles of cooling and heating cycle operations are different.

■ Chaos Natural Wind Mode

- When the Chaos Natural Wind mode is selected and then operated, the high, medium, or low speed of the airflow mode is operated for 2~15 sec. randomly by the Chaos Simulation.

■ Jet Cool Mode Operation (C/O Model)

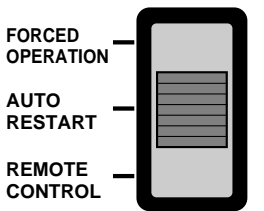
- If the Jet Cool key is input at any operation mode while in appliance operation, the Jet Cool mode operates.
- In the Jet Cool mode, the indoor fan is operated at super-high speed for 30 min at cooling mode operation.
- In the Jet Cool mode operation, the room temperature is controlled to the setting temperature, 18°C
- When the sleep timer mode is input while in the Jet Cool mode operation, the Jet Cool mode has the priority.
- When the Jet Cool key is input, the upper/lower vanes are reset to those of the initial cooling mode and then operated in order that the air outflow could reach further.

■ Jet Cool Mode Operation (H/P Model)

- While in heating mode or Fuzzy operation, the Jet Cool key cannot be input. When it is input while in the other mode operation (cooling, dehumidification, ventilation), the Jet Cool mode is operated.
- In the Jet Cool mode, the indoor fan is operated at super-high speed for 30 min at cooling mode operation.
- In the Jet Cool mode operation, the room temperature is controlled to the setting temperature, 18°C.
- When the sleep timer mode is input while in the Jet Cool mode operation, the Jet Cool mode has the priority.
- When the Jet Cool key is input, the upper/lower vanes are reset to those of the initial cooling mode and then operated in order that the air outflow could reach further.

■ Auto Restarting Operation

- When the power is restored after a sudden power failure while in appliance operation, the mode before the power failure is kept on the memory and the appliance automatically operates in the mode on the memory.
- The slide switch on the main unit of the appliance should be on the Auto Restarting position in order that the Auto Restarting operation is available.
- Operation Mode that is kept on the memory
 - State of Operation ON/OFF
 - Operation Mode/Setting Temp/Selected Airflow Speed
 - Sleep Timer Mode/Remaining Time of Sleep Timer (unit of hour)



Slide Switch

■ Forced Operation (C/O Model)

- To operate the appliance by force in case that the remote control is lost, the forced operation selection switch is on the main unit of the appliance to operate the appliance in the standard conditions.
- When the power is supplied while the slide switch is on the forced operation position, or when the slide switch position is switched to the Auto Restarting position (or test operation) or switched from the remote control position to the forced operation position while the power is on, the forced operation is carried out.
- When the slide switch position is switched from the forced operation position to the Auto Restarting position or the remote control position, the forced operation is canceled and the appliance stops operating.
- The forced operation is carried out in cooling mode with the setting temperature 22°C and the high speed of airflow.

■ Forced Operation (H/P Model)

- To operate the appliance by force in case that the remote control is lost, the forced operation selection switch is on the main unit of the appliance to operate the appliance in the standard conditions.
- When the power is supplied while the slide switch is on the forced operation position, or when the slide switch position is switched to the Auto Restarting (or test operation) position or switched from the remote control position to the forced operation position while the power is on, the forced operation is carried out.
- When the slide switch position is switched from the forced operation position to the Auto Restarting position or the remote control position, the forced operation is canceled and the appliance stops operating.
- The forced operation is carried out in cooling mode with the setting temperature 22°C and the high speed of airflow.
- In the forced operation mode, the indoor fan is operated at low speed for around 15 sec and then the operation condition is set according to the intake air temperature as follows.
 - 24°C ≤ Intake Air Temp ◀ Cooling Mode Operation, 22°C, High Speed
 - 21°C ≤ Intake Air Temp < 24°C ▶ Dehumidification Operation, 23°C, High Speed
 - Intake Air Temp < 21°C ◀ Heating Mode Operation, 24°C, High Speed

■ Remote Control Operation Mode

- When the remote control is selected by the slide switch on the main unit, the appliance operates according to the input by the remote control.

■ Protection of the evaporator pipe from frosting

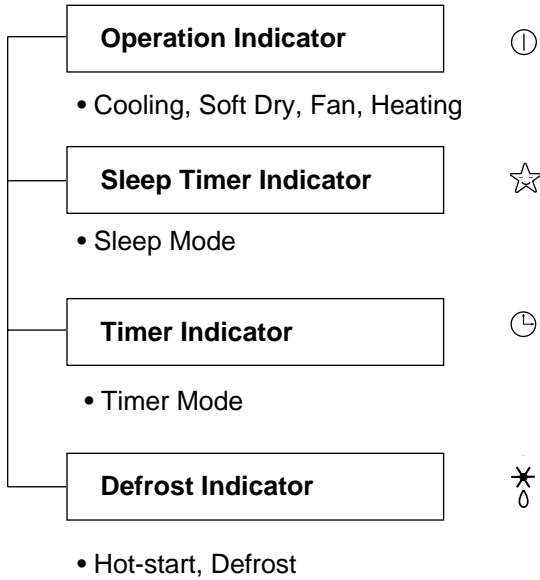
- If the indoor pipe temp is below 0°C in 7 min. after the compressor operates without any pause while in cooling cycle operation mode, the compressor and the outdoor fan are turned off in order to protect the indoor evaporator pipe from frosting.
- When the indoor pipe temp is 7°C or higher after 3 min. pause of the compressor, the compressor and the outdoor fan is turned on according to the condition of the room temperature.

■ Buzzer Sounding Operation

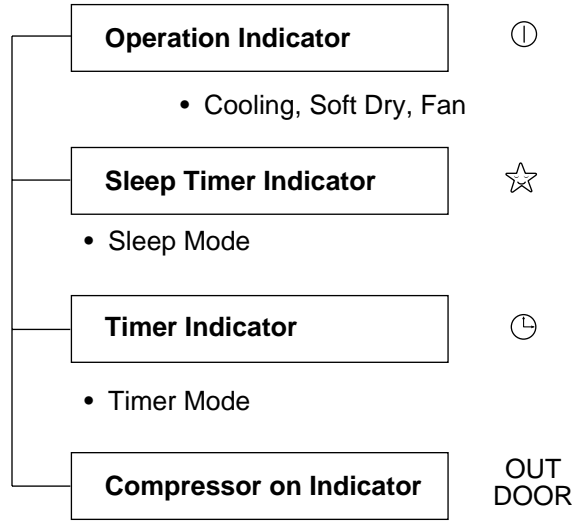
- When the appliance-operation key is input by the remote control, the short "beep-beep-" sounds.
- When the appliance-pause key is input by the remote control, the long "beep—" sounds.

Display Function

1. Heating Model



2. Cooling Model



Self-diagnosis Function

■ Error Indicator

- The function is to self-diagnosis airconditioner and express the troubles identifiably if there is any trouble.
- Error mark is ON/OFF for the operation LED of evaporator body in the same manner as the following table.
- If more than two troubles occur simultaneously, primarily the highest trouble fo error code is expressed.
- After error occurrence, if error is released, error LED is also released simultaneously.
- To operate again on the occurrence of error code 12, be sure to pull out power cord and then re-insert.
- Having or not of error code is different from Model.

Error Code	Error LED (Indoor body operation LED)	Error contents	SVC check point
1	(once) 3sec 3sec 3sec	<ul style="list-style-type: none"> • Indoor suction temperature thermistor open/short. • Indoor pipe temperature thermistor open/short. 	• Indoor TH ass'y check
2	(twice) 3sec 3sec	<ul style="list-style-type: none"> • Outdoor suction temperature thermistor open/short. • Outdoor pipe temperature thermistor open/short. 	• Outdoor TH ass'y check
3	(3times) 3sec 3sec	• Abnormal operation of multi product. (Simultaneous operation of cooling and heating)	• Resetting of remocon operating mode
5	(5times) 3sec	• Poor communication	• Communication line/circuit check
12	(once) (twice) (once) (twice) 3sec 3sec 3sec	• Misconnection of connecting cables	<ul style="list-style-type: none"> • Primarily check refrigerant pressure • Connecting pipe check • Connecting cable check

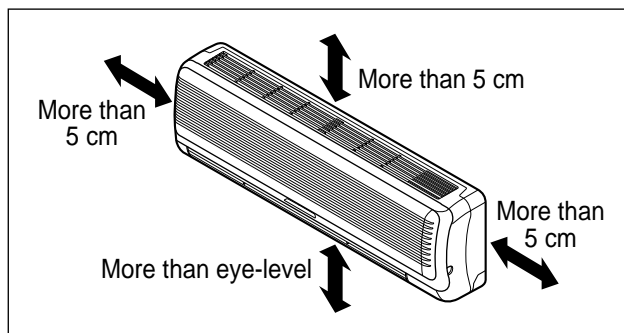
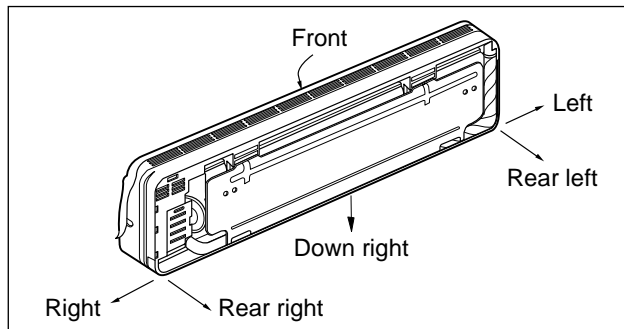
Installation

(1) Installation of Indoor, Outdoor unit

1) Selection of the best location

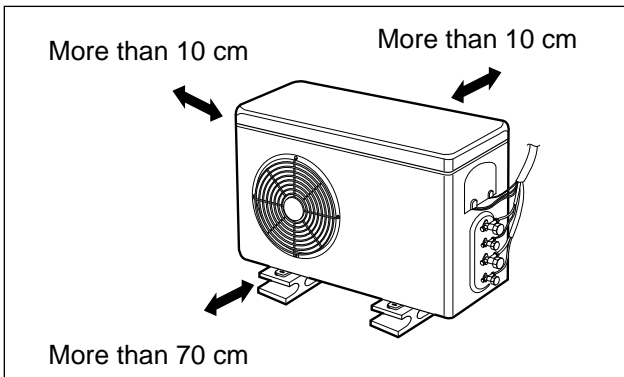
1. Indoor unit

- There should not be any heat source or steam near the unit.
- There should not be any obstacles to prevent the air circulation.
- A place where air circulation in the room will be good.
- A place where drainage can be easily obtained.
- A place where noise prevention is taken into consideration.
- Do not install the unit near the door way.
- Ensure the spaces indicated by arrows from the wall, ceiling, fence, or other obstacles.



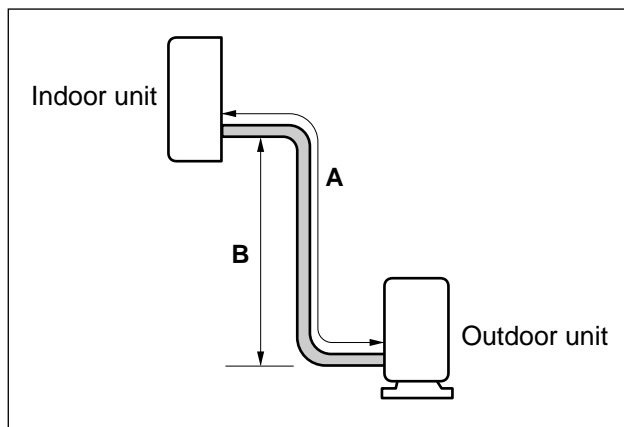
2. Outdoor unit

- If an awning is built over the unit to prevent direct sunlight or rain exposure, be careful that heat radiation from the condenser is not restricted.
- There should not be any animals or plants which could be affected by hot air discharged.
- Ensure the spaces indicated by arrows from the wall, ceiling, fence, or other obstacles.



3. Piping length and the elevation

Pipe Size		Max. piping length A (m)	Max. Elevation B (m)
GAS	LIQUID		
1/2"(3/8")	1/4"	10~15	5~7



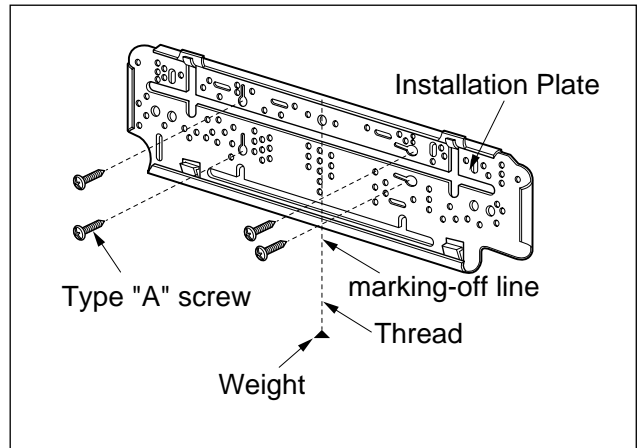
2) Indoor Unit Installation

The mounting wall should be strong and solid enough to protect it from the vibration.

1. Mount the installation plate on the wall with four Type "A" screws.

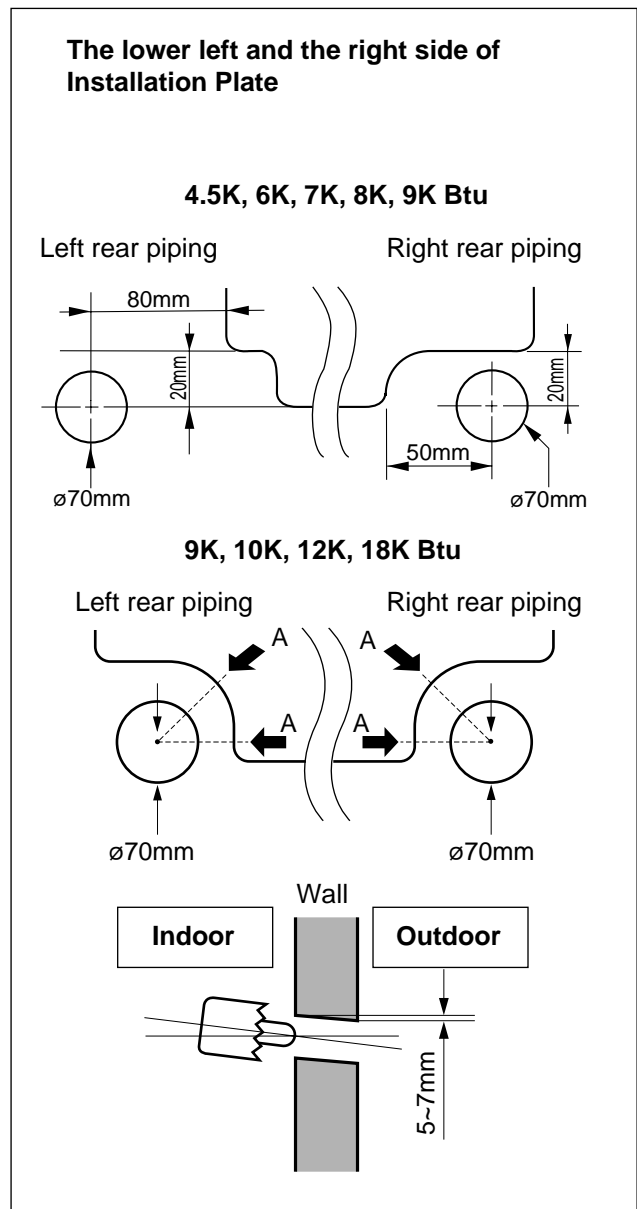
(If mounting the unit on the concrete wall, consider using anchor bolts.)

- Always mount the Installation plate horizontally by aligning the marking-off line by means of the thread and a level.



2. Drill the piping hole with 70mm dia. holecore drill.

- Line according to the arrows marked on lower the left and the right side of the Installation Plate. The meeting point of the extended line is the center of the hole.
- Drill the piping hole at either the right or the left and the hole should be slightly slant to the outdoor side.

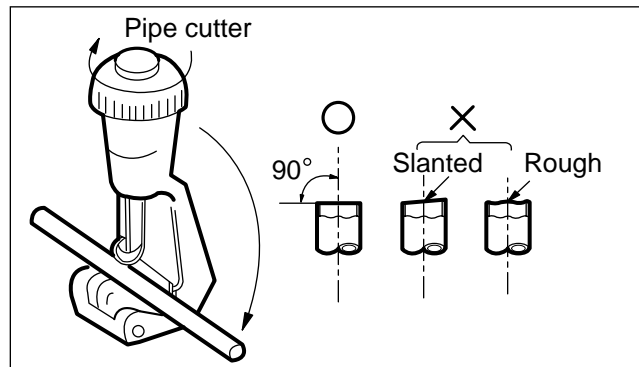


(2) Piping and Drainage of Indoor Unit

1) Preparation of pipings

1. Cut the pipes and the cable.

- Use the accessory piping kit or the pipes purchased locally.
- Measure the distance between the indoor and the outdoor unit.
- Cut the pipes a little longer than the measured distance.
- Cut the cable 1.5m longer than the length of the pipe.

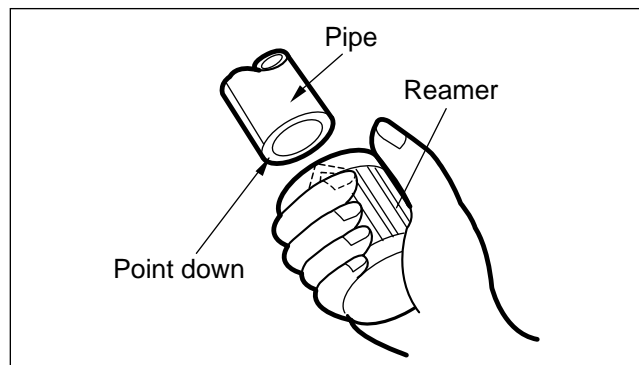


2. Remove burrs.

- Remove burrs from cut edges of pipes.
- Turn the pipe end toward down to avoid the metal powder entering the pipe.

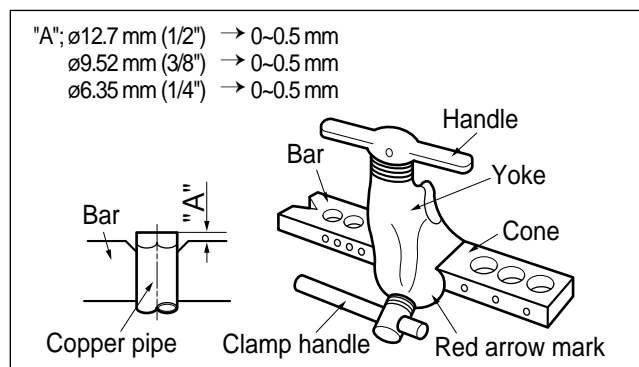
Caution:

If burrs are not removed, they may cause a gas leakage.

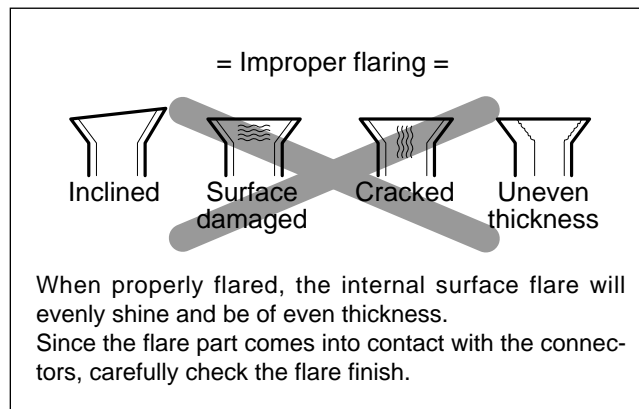


3. Flaring the pipes.

- Insert the flare nuts, mounted on the connection ports of both indoor and outdoor unit, onto the copper pipes. Some refrigerant gas may leak, when the flare nuts are removed from the indoor unit, as some gas is charged to prevent the inside of the pipe from rusting.
- Fit the copper pipe end into the Bar of flare tool about 0~0.5mm higher. (See illustration)
- Flare the pipe ends.



4. Tape the flaring portion to protect it from the dust or damages.

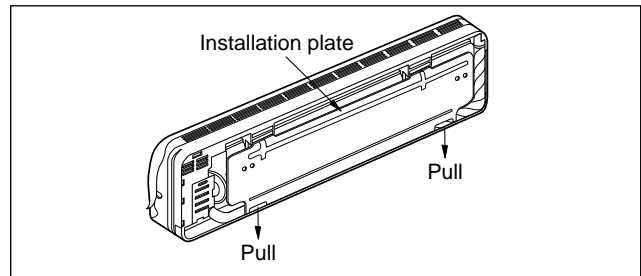


2) Connection of Pipings

1. Remove the installation plate

- Pull the two 'Δ' marked portion of bottom of the chassis and pull the installation plate out of chassis.

2. Route the drain hose and the indoor tubing.

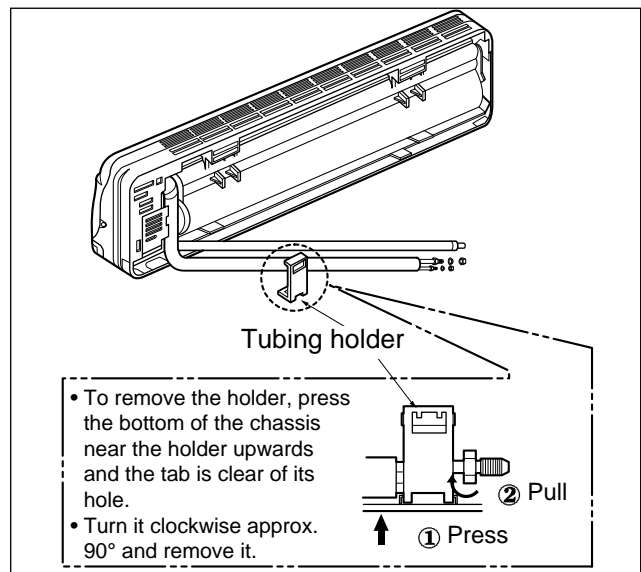


For left rear piping

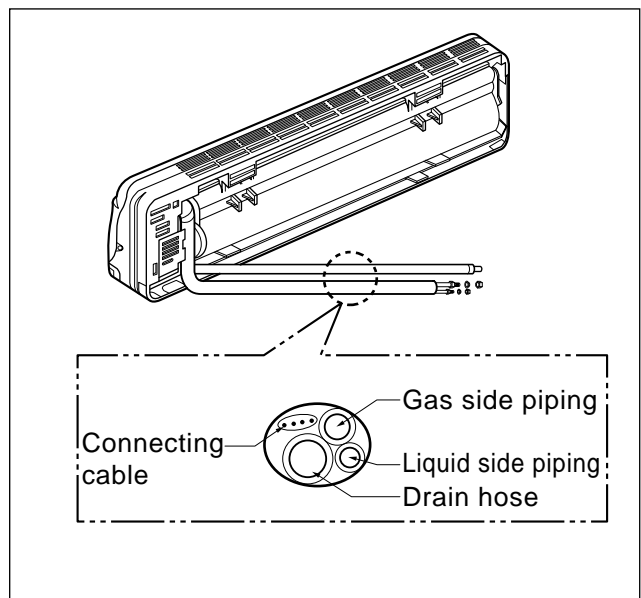
3. Route the tubing and the drain hose straight backwards(see figure).

4. Insert the connecting cable into the indoor unit through the piping hole.

- Do not connect the cable to the indoor unit.
- Make a small loop with the cable for easy connection later.

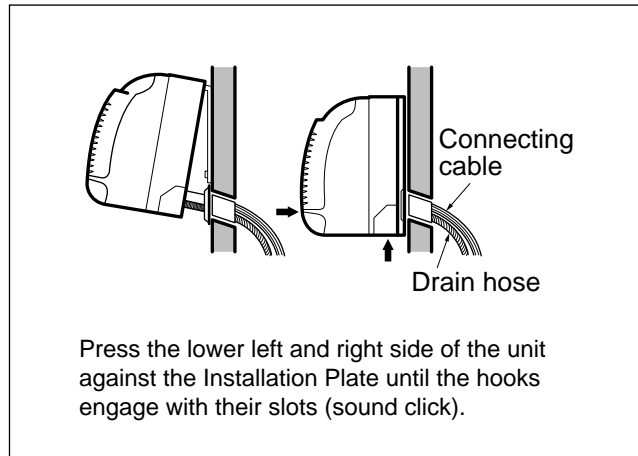


5. Tape the tubing, drain hose and the connecting cable. Be sure that drain hose locates at the lowest side of the bundle. Locating at the upper side can be a reason that drain water overflows drain pan inside the unit.



6. Indoor unit installation.

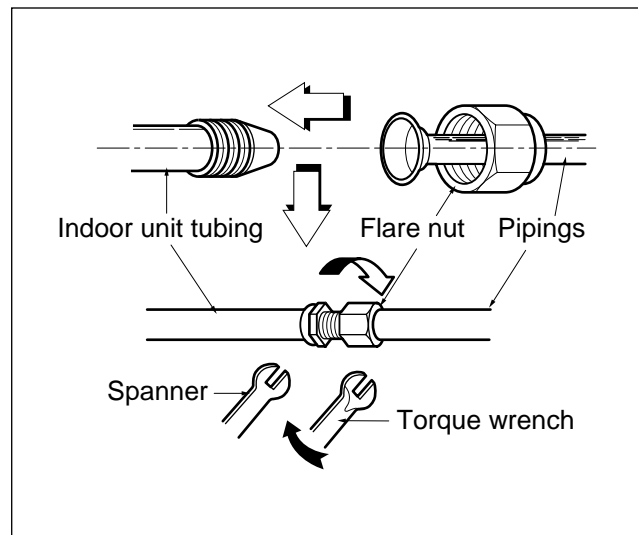
- Hook the indoor unit onto the upper position of the installation plate. (Engage the two hooks of the rear top of the indoor unit with the upper edge of the installation plate.) Ensure the hooks are properly seated on the installation plate by moving it in left and right.



7. Connecting the pipings to the indoor unit.

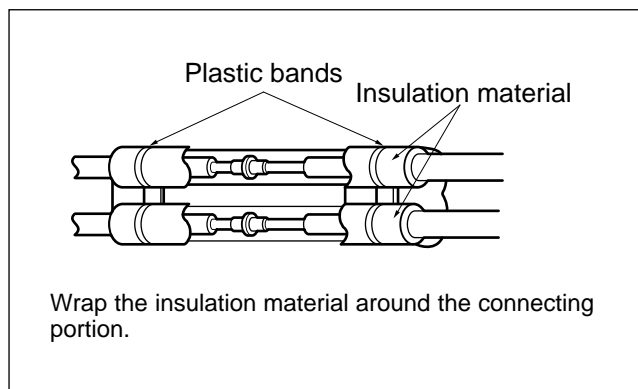
- Align the center of the pipings and sufficiently tighten the flare nut with fingers.
- Finally, tighten the flare nut with torque wrench until the wrench clicks. Wrench tightening the flare nut with torque wrench, ensure the direction for tightening follows the arrows on the wrench.

Pipe Size	Torque
Liquid Side (1/4")	1.8kg · m
Gas Side (3/8")	4.2kg · m
Gas Side (1/2")	5.5kg · m



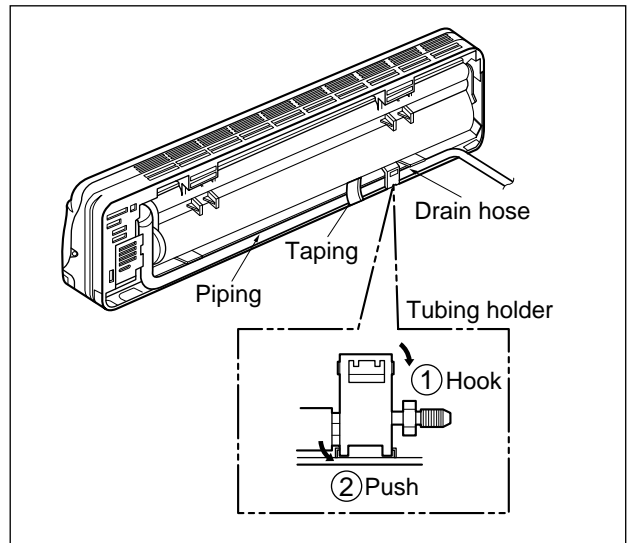
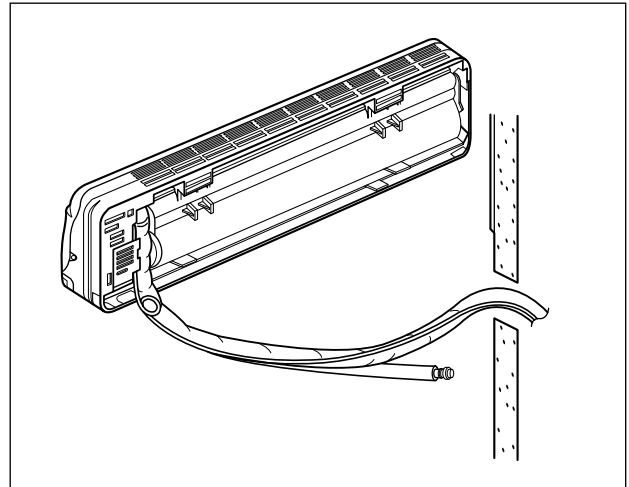
8. Wrap the insulation material around the connecting portion.

CAUTION: Take care to arrange the pipings, drain hose and cables as the right upper picture for inserting it into the indoor unit and refixing the tubing holder easily.



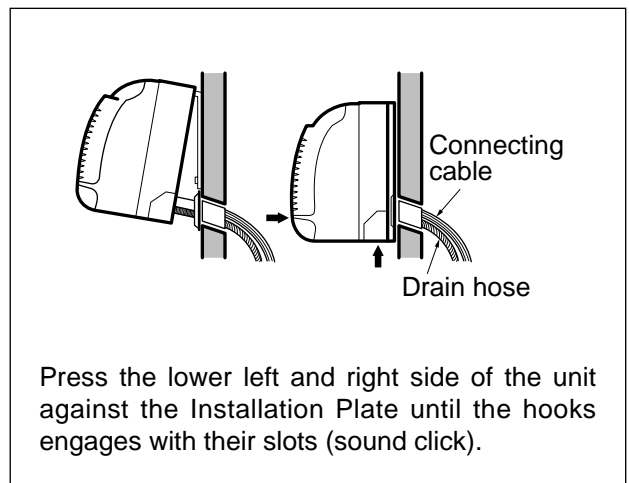
9. Set the pipings and the connecting cable to the back of the chassis with the tubing holder.

- Hook the edge of tubing holder to tap on chassis and push the bottom of tubing holder to be engaged in the bottom of chassis.



10. Indoor unit installation.

- Hook the indoor unit onto the upper portion of installation plate. (Engage the two hooks of the rear top of the indoor unit with the upper edge of the installation plate.)
Ensure the hooks are properly seated on the installation plate by moving it in left and right.



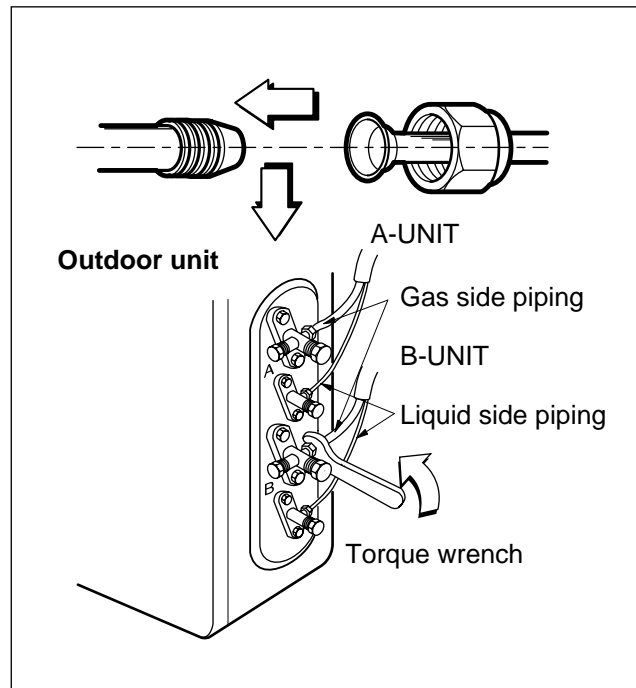
Press the lower left and right side of the unit against the Installation Plate until the hooks engages with their slots (sound click).

(3) Connecting Pipings and the cable to Outdoor unit

1) Connecting the pipings to the Outdoor unit

1. Align the center of the pipings and sufficiently tighten the flare nut with fingers.
2. Finally, tighten the flare nut with torque wrench until the wrench clicks.
 - When tightening the flare nut with torque wrench, ensure the direction for tightening follows the arrow on the wrench.

Pipe Size	Torque
Liquid Side (1/4")	1.8kg·m
Gas Side (3/8")	4.2kg·m
Gas Side (1/2")	5.5kg·m



CAUTION

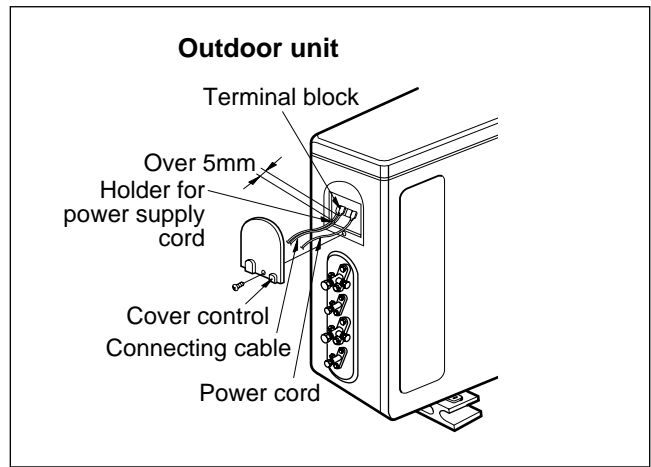
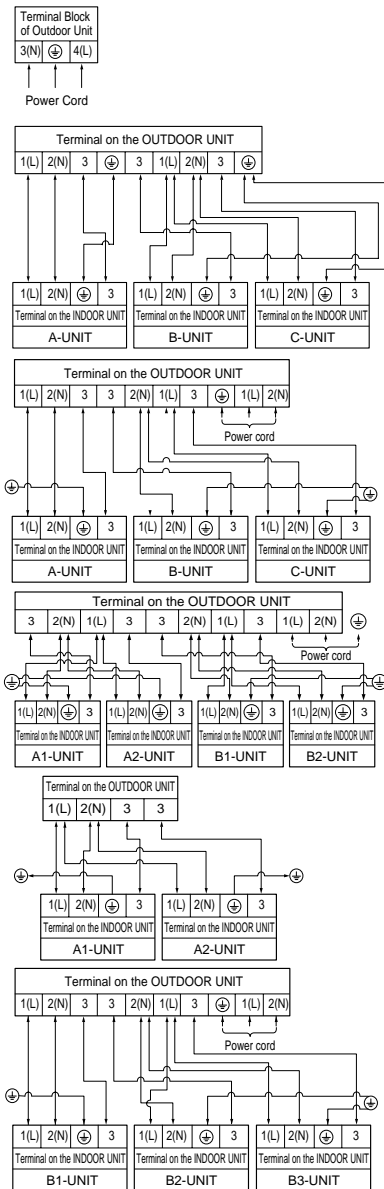
After the confirmation of the above conditions, prepare the wiring as follows:

- 1) Never fail to have an individual power specialized for the air conditioner. As for the method of wiring, be guided by the circuit diagram pasted on the inside of control box cover.
- 2) The means for disconnection from a power supply shall be incorporated in the fixed wiring and have an air gap contact separation of at least 3mm in each active(phase) conductors.
- 3) The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could give rise to burn-out of the wires.)
- 4) Specification of power source.
- 5) Confirm that electrical capacity is sufficient.
- 6) See to that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
- 7) Confirm that the cable thickness is as specified in the power sources specification. (Particularly note the relation between cable length and thickness.)
- 8) Never fail to equip a leakage breaker where it is wet or moist.
- 9) The following troubles would be caused by voltage drop-down.
 - Vibration of a magnetic switch, damage on the contact point there of, fuse breaking, disturbance to the normal function of a overload protection device.
 - Proper starting power is not given to the compressor.

2) Connection of the cable

1. Remove the cover control from the unit by loosening the screw.

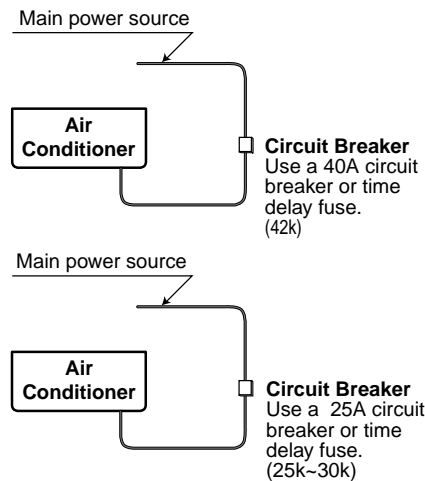
Connect the wires to the terminals on the control board individually as the following.



2. Secure the cable onto the control board with the holder (clammer).
3. Refix the cover control to the original position with the screw.
4. Use a recognized circuit breaker between the power source and the unit. A disconnection device to adequately disconnect all supply lines must be fitted.

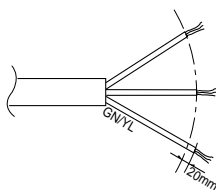
Caution

If a power plug is not to be used, provide a circuit breaker between power source and the unit as shown below.



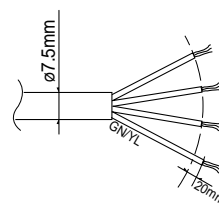
CAUTION

The power cord connected to the outdoor unit should be complied with the following specifications (Rubber insulation, type H05RN-F approved by HAR or SAA).



NORMAL CROSS-SECTIONAL AREA
3.5mm² (25k~30k)
8.0mm² (42k)

The connecting cable connected to the indoor and outdoor unit should be complied with the following specifications (Rubber insulation, type H07RN-F approved by HAR or SAA).



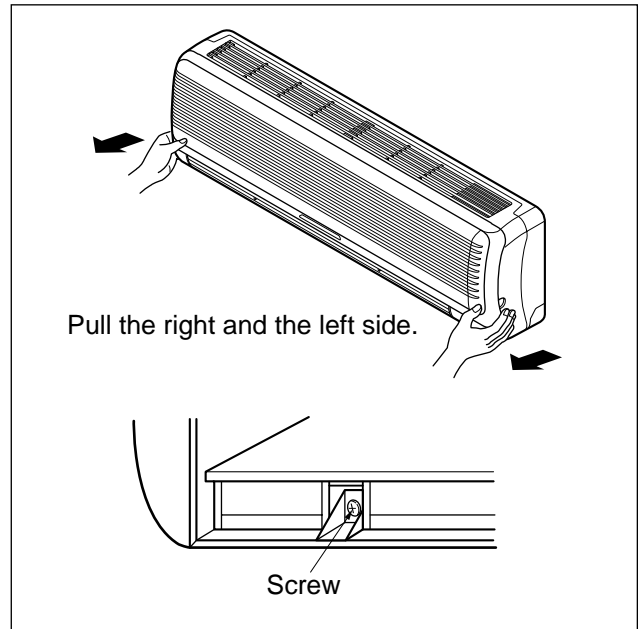
NORMAL CROSS-SECTIONAL AREA
0.75mm²

(4) Checking the Drainage and Pipe forming

1) Checking the Drainage

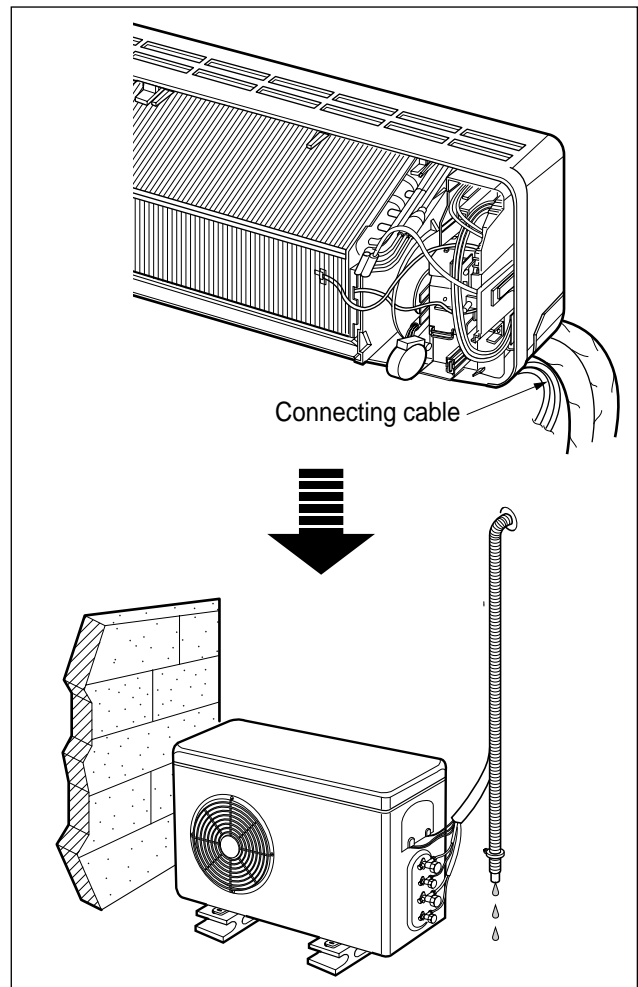
1. Remove the Grille from the cabinet

- Set the up-and-down air direction louver to open position(horizontally) by finger pressure.
- Remove the securing screws.
- To remove the Grille, pull lower the left and right side of the grille toward you (slightly tilted) and lift it straight upward.



2. Check the drainage

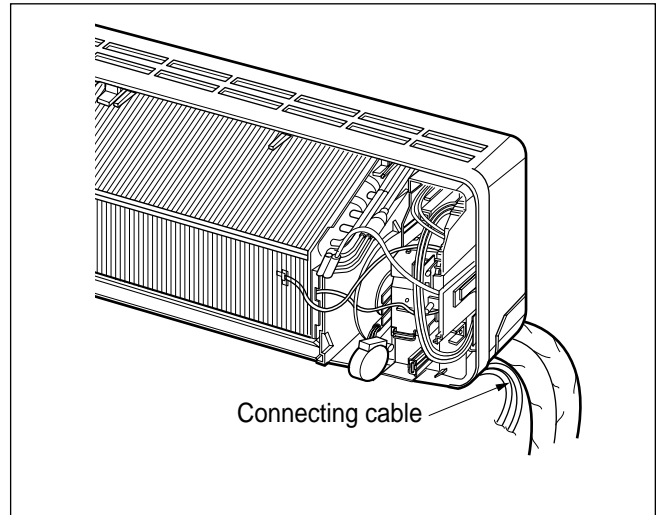
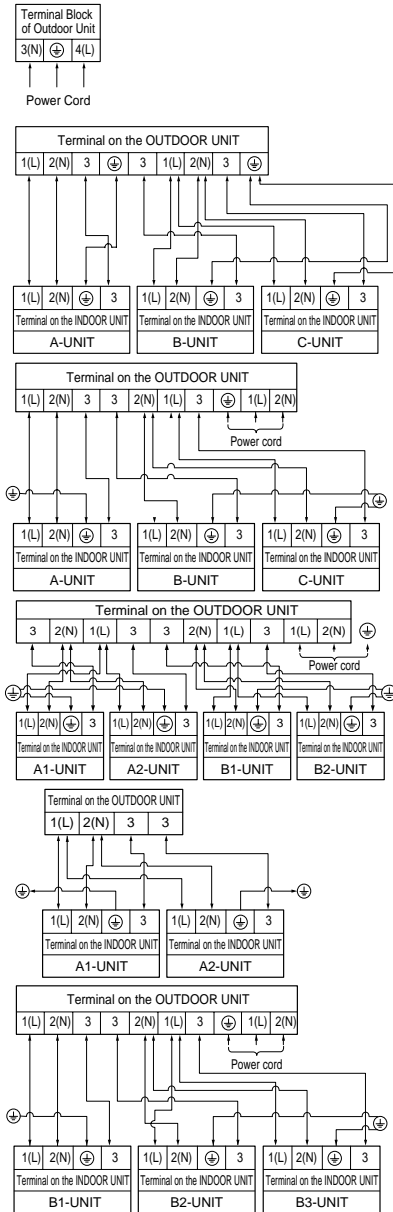
- Pour a glass of water on the evaporator.
- Ensure if water flows drain hose of indoor unit without any leakage.



2) Connect the cable to the indoor unit

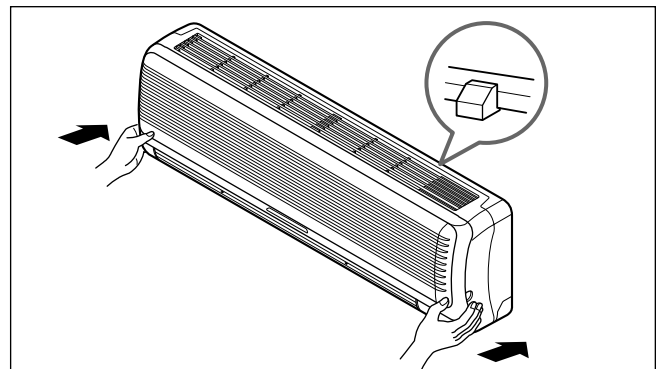
1. Connect the wires to the terminals on the control board individually according to the outdoor unit connection.

- Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.



2. Attach the Grille onto the cabinet.

- Grasp lower the left and right side of the Grille and engage four tabs on the top inside edge of the chassis.
- Press the Grille toward the chassis until it will be back into place.



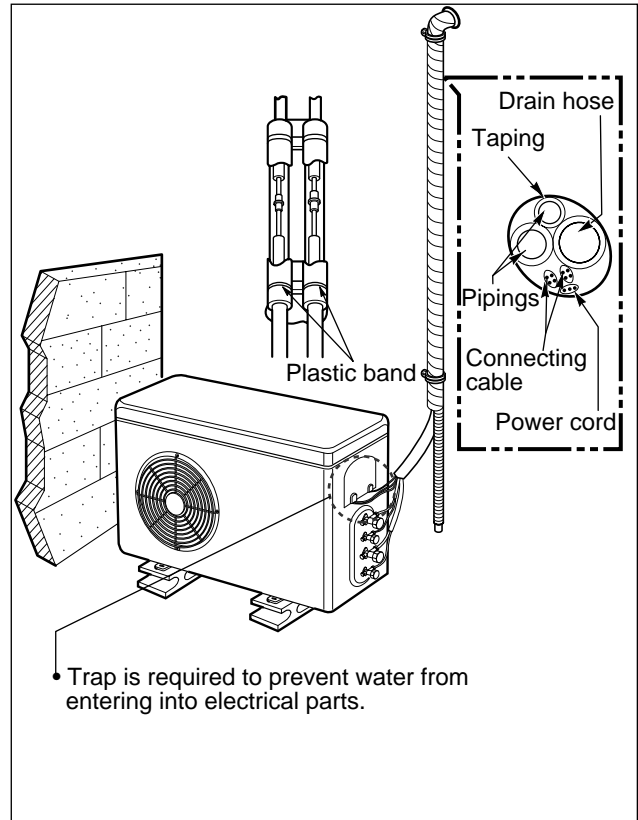
3) Form the pipings

1. Wrap the connecting portion of indoor unit with the Insulation material and secure it with two Plastic Bands (for the left pipings).

- If you want to connect an additional drain hose, the end of the drain-outlet should keep distance from the ground. (Do not dip it into water, and fix it on the wall to avoid swinging in the wind.)

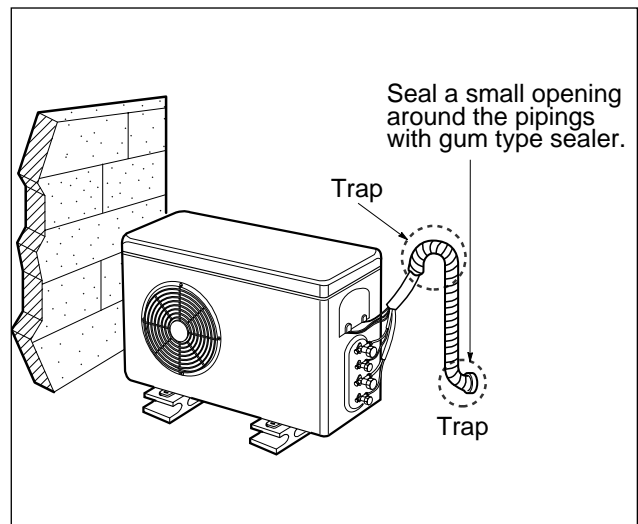
In case of the Outdoor unit is installed bellow position of the Indoor unit.

2. Tape the Pipings, drain hose and Connecting Cable from down to up.
3. Form the pipings gathered by taping along the exterior wall and fix it onto the wall by saddle or equivalent.



In case of the Outdoor unit is installed upper position of the Indoor unit.

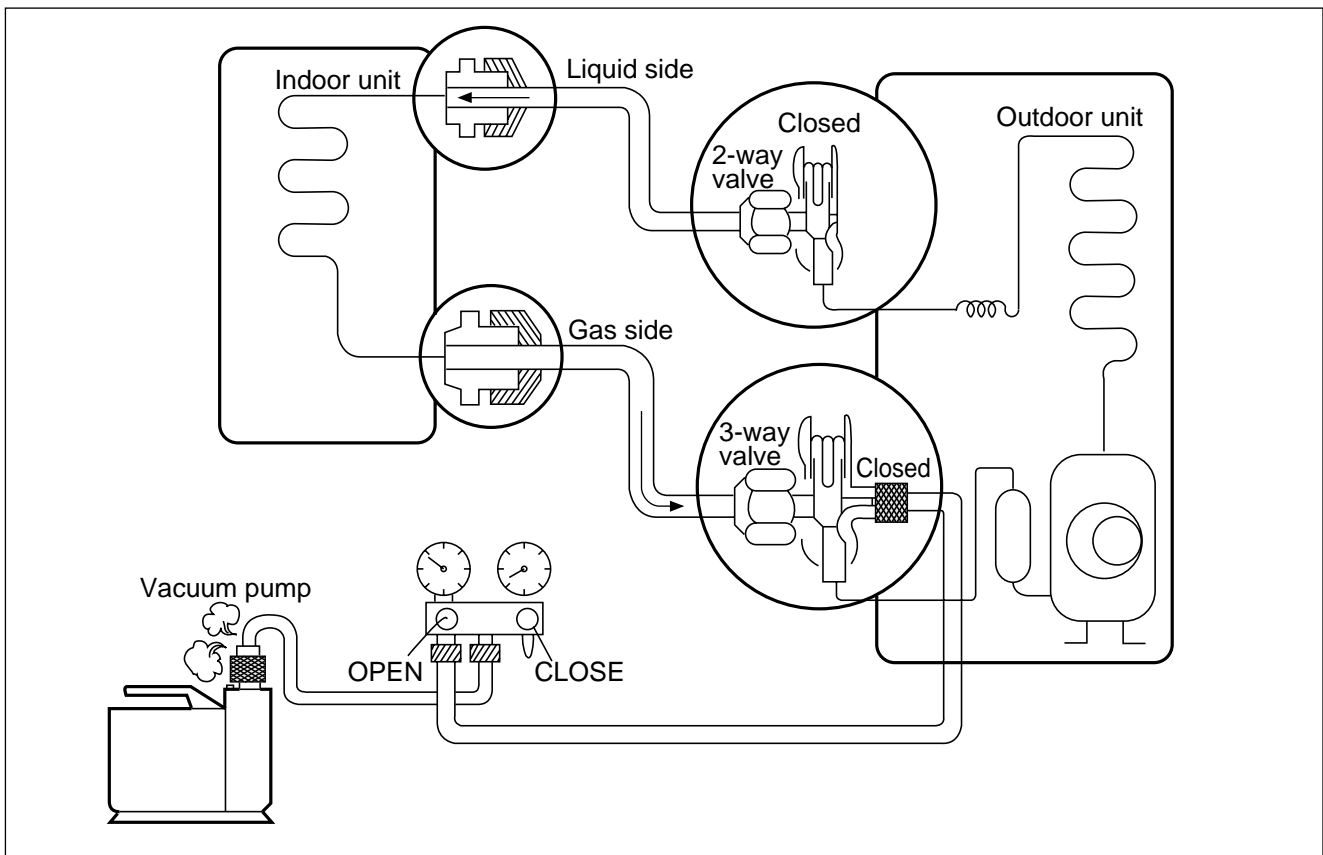
1. Tape the Pipings and Connecting cable from down to up.
2. Form the pipings gathered by taping along the exterior wall and the Trap to be required to prevent the room from entering the water.
3. Fix the pipings onto the wall by saddle or equivalent.



(5) Air Purging of the Pipings and indoor unit

The air which contains moisture remaining in the is refrigeration cycle may cause a malfunction on the compressor.

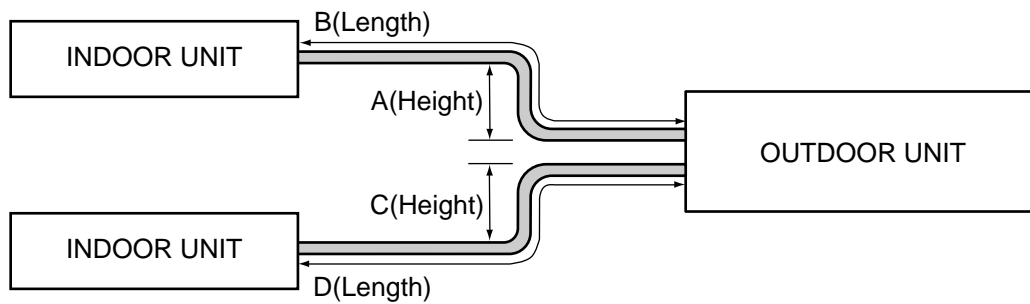
1. Confirm that both the liquid side valve and the gas side valve are set to the closed position.
2. After connecting the piping, check the joints for gas leakage with gas leak detector.
3. Remove the service port nut, and connect the gauge manifold and the vacuum pump to the service port by the charge hose.
4. Vacuum the indoor unit and the connecting pipes until the pressure in them lowers to below-76cmHg.
5. Disconnect the charge hose and fit the nut to the service port.
(Tightening torque: 1.8kg-m)
6. Remove the valve stem nuts, and fully open the stems of the 2-way and 3-way valves with a hexagon wrench.
7. Tighten the valve stem nuts of the 2-way valve and 3-way valve.



(6) Maximum Length of Pipe and Freon Extra Charge

Charge amount per 1m

Capacity (Btu/h)	STANDARD LENGTH(m)	CONNECTION TYPE				Charge am't(g) per 1m
		A	B	C	D	
~7000	7.5	7	15	7	15	20
~9000	7.5	7	15	7	15	20
~12000	7.5	7	15	7	15	20
~18000	7.5	7	15	7	15	40
~24000	7.5	7	15	7	15	40



** A, B mean indoor unit higher located than outdoor unit.
C, D mean outdoor unit higher located than indoor unit.

(7) Test running

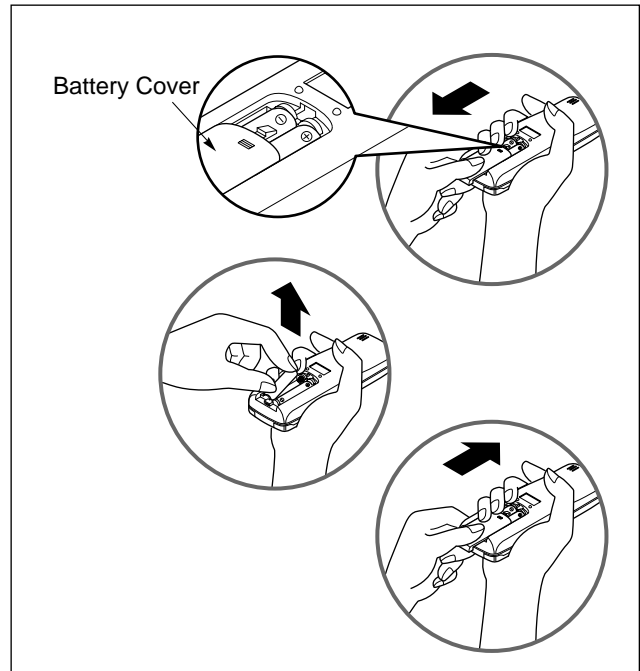
1) Connection of power supply

1. Connect the power supply cord to the independent power supply.

2. Prepare the remote control.

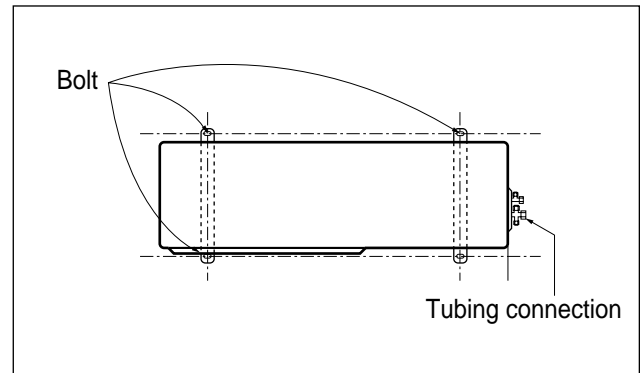
- Insert two batteries provided.
Remove the battery cover from the remote controller.
- Slide the cover according to the arrow direction.
Insert the two batteries.
- Be sure that the (+) and (-) directions are correct.
- Be sure that both batteries are new.
Re-attach the cover.
- Slide it back into position.

3. Operate the unit at cooling operation mode for fifteen minutes or more.



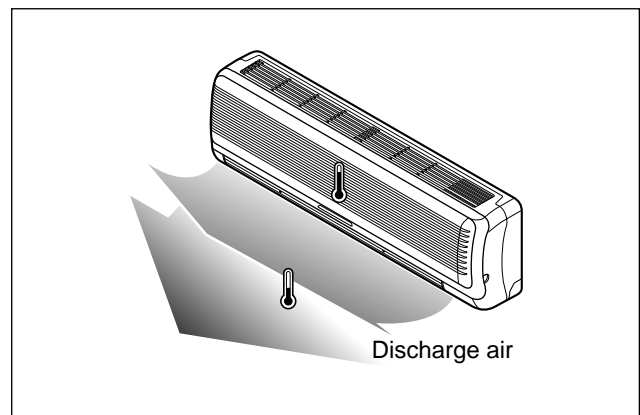
Settlement of Outdoor Unit

- Anchor the outdoor unit with a bolt and nut ($\varnothing 10\text{cm}$) tightly and horizontally on a concrete or rigid mount.
- When installing on the wall, roof or rooftop, anchor the mounting base securely with a nail or wire assuming the influence of wind and earthquake.
- In the case when the vibration of the unit is conveyed to the house, settle the unit with an anti-vibration rubber.



2) Evaluation of the performance

1. Measure the temperature of the intake and discharge air.
2. Ensure the difference between the intake temperature and the discharge one is more than 8°C.



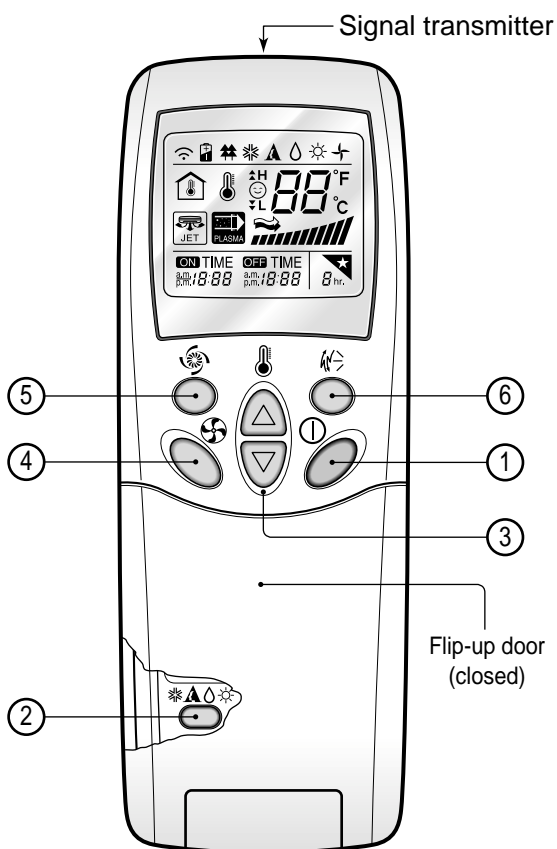
Operation

(1) Name and Function-Remote Control (Door Closed)

Remote Control

Signal transmitter

Transmits the signals to the room air conditioner.



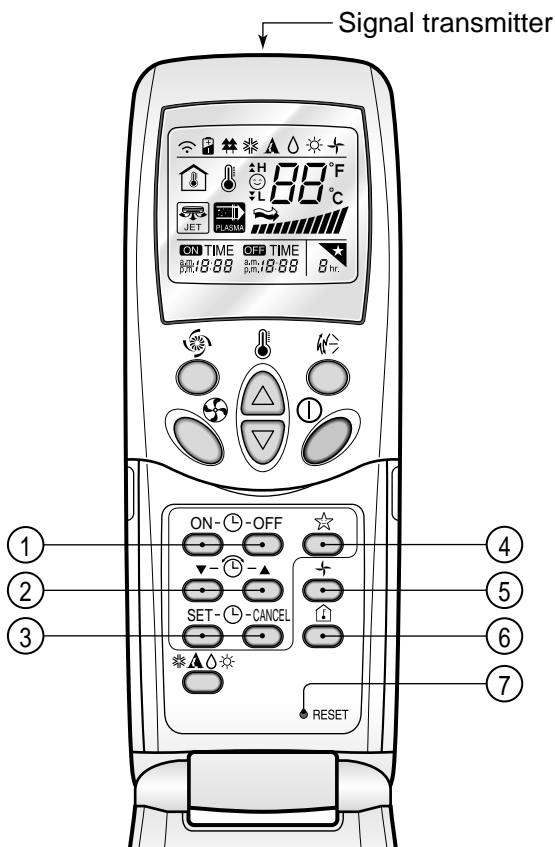
- 1 START/STOP BUTTON**
Operation starts when this button is pressed and stops when the button is pressed again.
- 2 OPERATION MODE SELECTION BUTTON**
Used to select the operation mode.
- 3 ROOM TEMPERATURE SETTING BUTTONS**
Used to select the room temperature.
- 4 INDOOR FAN SPEED SELECTOR**
Used to select fan speed in four steps low, medium, high, or CHAOS.
- 5 JET COOL**
Used to start or stop the speed cooling. (Speed cooling operates super high fan speed in cooling mode.)
- 6 CHAOS SWING BUTTON**
Used to stop or start louver movement and set the desired up/down airflow direction.

(2) Name and Function-Remote Control (Door Opened)

Remote Control

Signal transmitter

Transmits the signals to the room air conditioner.



- 1 ON/OFF TIMER BUTTONS**
Used to set the time of starting and stopping operation.
- 2 TIME SETTING BUTTONS**
Used to adjust the time.
- 3 TIMER SET/CANCEL BUTTONS**
Used to set the timer when the desired time is obtained and to cancel the Timer operation.
- 4 SLEEP MODE AUTO BUTTON**
Used to set Sleep Mode Auto operation.
- 5 AIR CIRCULATION BUTTON**
Used to circulate the room air without cooling or heating (turns indoor fan on/off).
- 6 ROOM TEMPERATURE CHECKING BUTTON**
Used to check the room temperature.
- 7 RESET BUTTON**
Used prior to resetting time or after replacing batteries.

Disassembly of the parts (Indoor unit)

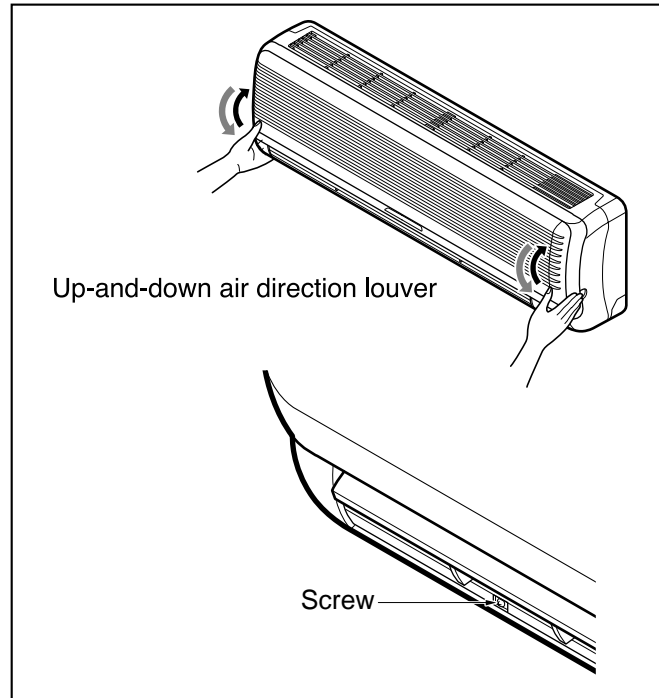
Warning :

Disconnect the unit from power supply before making any checks.

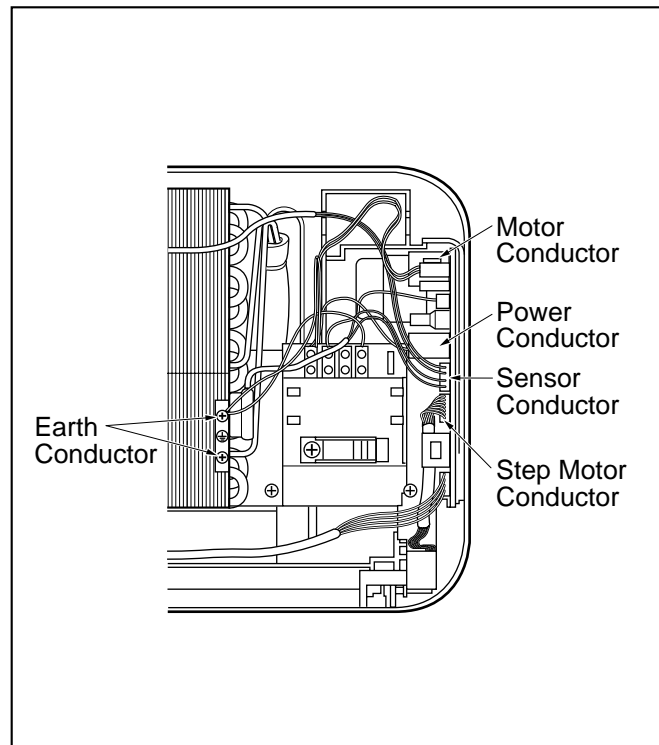
Be sure the power switch is set to "OFF".

To remove the Grille from the Chassis.

- Set the up-and-down air discharge louver to open position (horizontally) by finger pressure.
- Remove the securing screws
- To remove the Grille, pull the lower left and right side of the grille toward you (slightly tilted) and lift it straight upward.

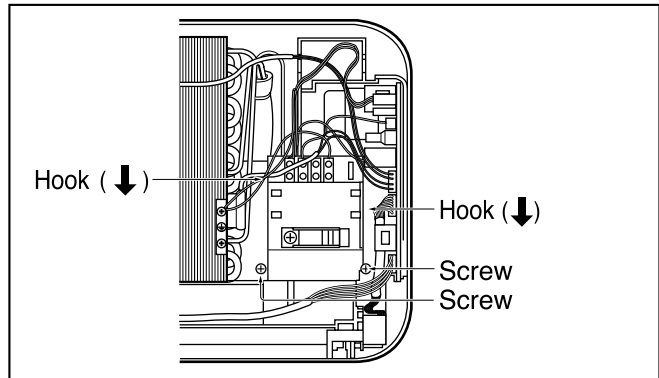


1. To remove the sensor, housing connect, earth conductor & step motor conductor with sensor holder, Motor, Evaporator & P.C.B.



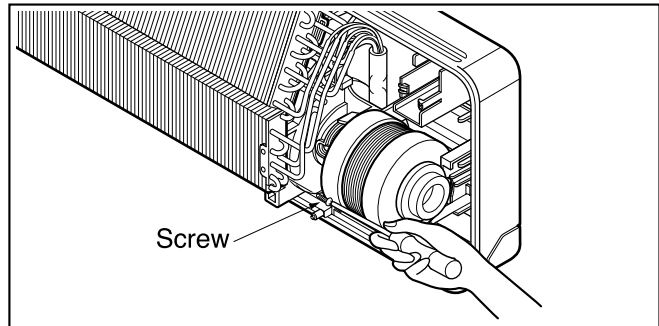
2. To remove the Control Box.

- Remove securing screws.
- Pull the control box out from the chassis carefully.



3. To remove the Discharge Grille.

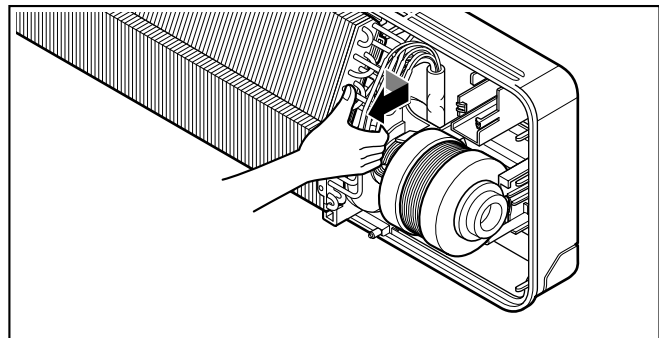
- Pull the discharge grille out from the chassis carefully.



4. To remove the Evaporator.

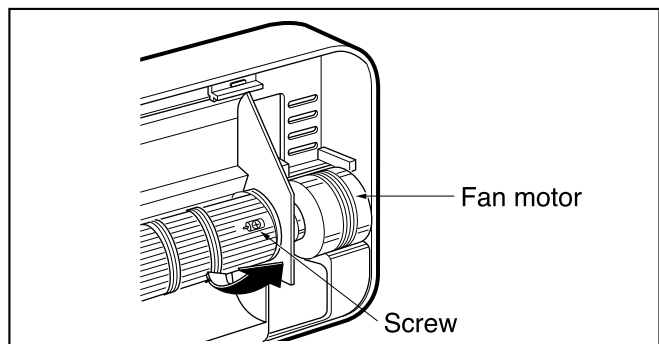
- Remove screws securing the evaporator and the holder eva.

- Unhook the tab on the right inside of the chassis at the same time, slightly pull the evaporator toward you until the tab is clear of the slot.

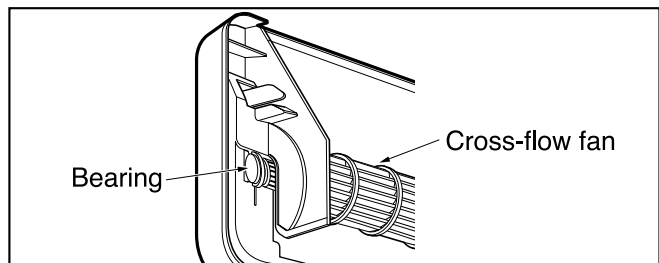


5. To remove the Cross-Flow Fan

- Loosen the screw securing the cross-flow fan to the fan motor (do not remove).
- Lift up the right side of the cross-flow fan and the fan motor, separate the fan motor from the cross-flow fan.



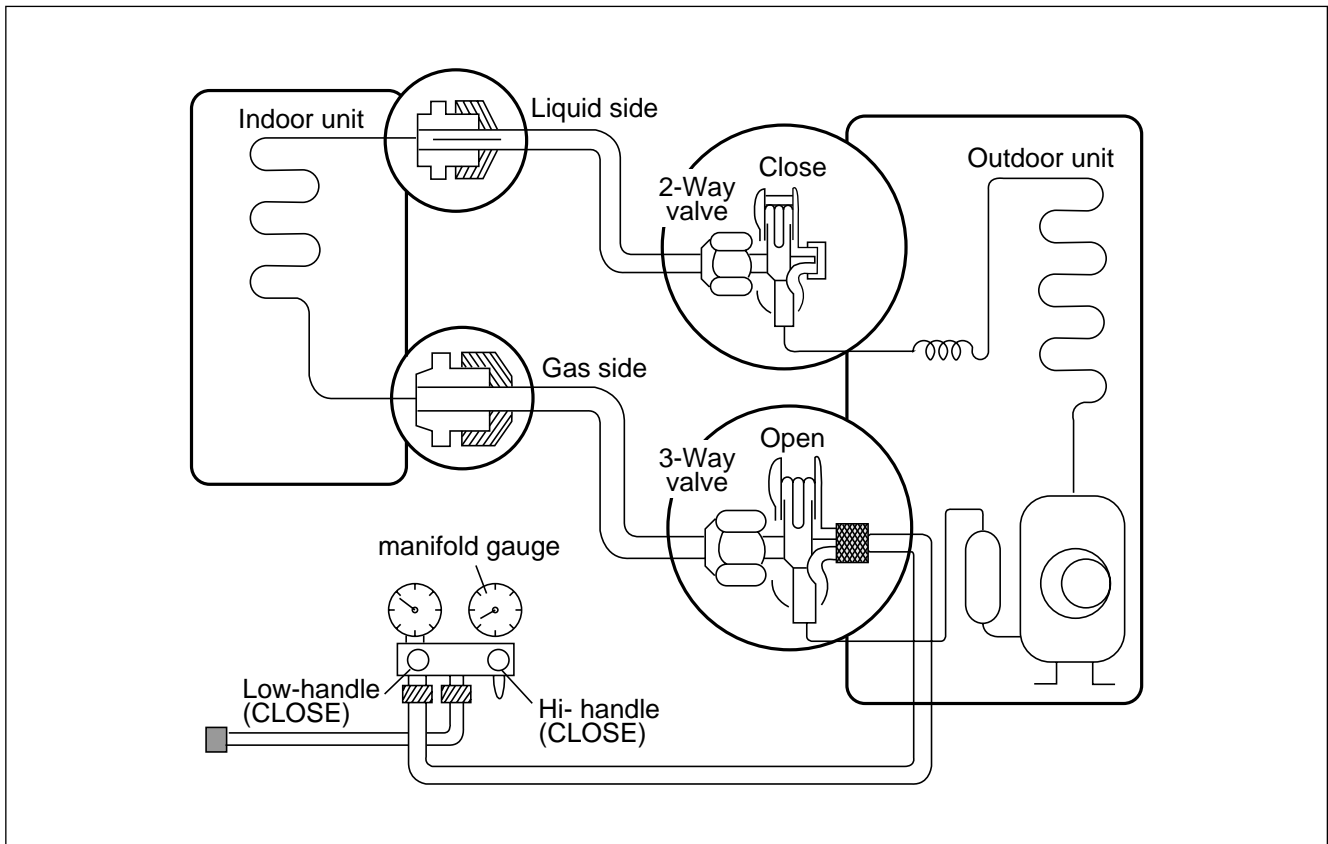
- Remove the left end of the cross-flow fan from the self-aligning bearing.



2-way, 3-way Valve

		2-way Valve (Liquid Side)	3-way Valve (Gas Side)	
Works		Shaft position	Shaft position	Service port
Shipping		Closed (with valve cap)	Closed (with valve cap)	Closed (with cap)
1.	Air purging (Installation)	Open (counter-clockwise)	Closed (clockwise)	Open (push-pin or with vacuum pump)
Operation		Open (with valve cap)	Open (with valve cap)	Closed (with cap)
2.	Pumping down (Transferring)	Closed (clockwise)	Open (counter-clockwise)	Open (connected manifold gauge)
3.	Evacuation (Servicing)	Open	Open	Open (with charging cylinder)
4.	Gas charging (Servicing)	Open	Open	Open (with charging cylinder)
5.	Pressure check (Servicing)	Open	Open	Open (with charging cylinder)
6.	Gas releasing (Servicing)	Open	Open	Open (with charging cylinder)

(1) Pumping down

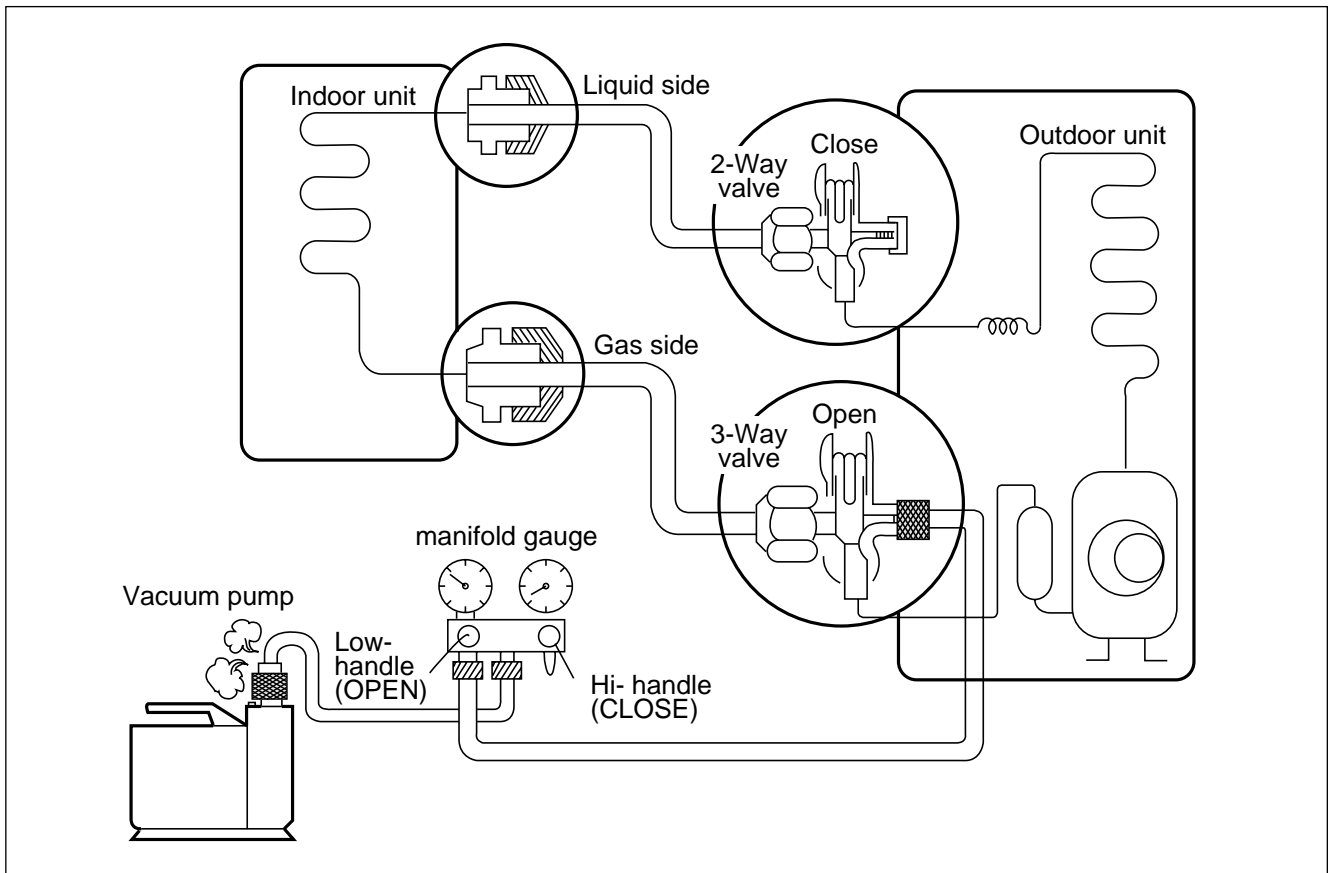


• Procedure

- 1. Confirm that both the gas side and liquid side valves are set to the open position.**
 - Remove the valve stem caps and confirm that the valve stems are in the raised position.
 - Be sure to use a hexagonal wrench to operate the valve stems.
- 2. Operate the unit for 10 to 15 minutes.**
- 3. Stop operation and wait for 3 minutes, then connect the manifold gauge to the service port of the gas side valve.**
 - Connect the hose of the gauge with the push pin to the service port.
- 4. Air purging of the charge hose.**
 - Open the Low-handle valve on the gauge slightly to air purge from the hose.
- 5. Set the liquid side valve to the closed position.**
- 6. Operate the air conditioner at the cooling cycle and stop it when the gauge indicates 1kg/cm²g.**
- 7. Immediately set the gas side valve to the closed position.**
 - Do this quickly so that the gauge ends up indicating 1kg/cm²g.
- 8. Disconnect the charge set, and mount the liquid side and gas side valve caps and the service port nut.**
 - Use torque wrench to tighten the service port nut to a torque of 1.8kg.m.(4.2kg.m/5.5kg.m)
 - Be sure to check for gas leakage.
- 9. Apply steps from 1 to 8 to each unit (A-unit, B-unit) by the same method.**

(2) Evacuation

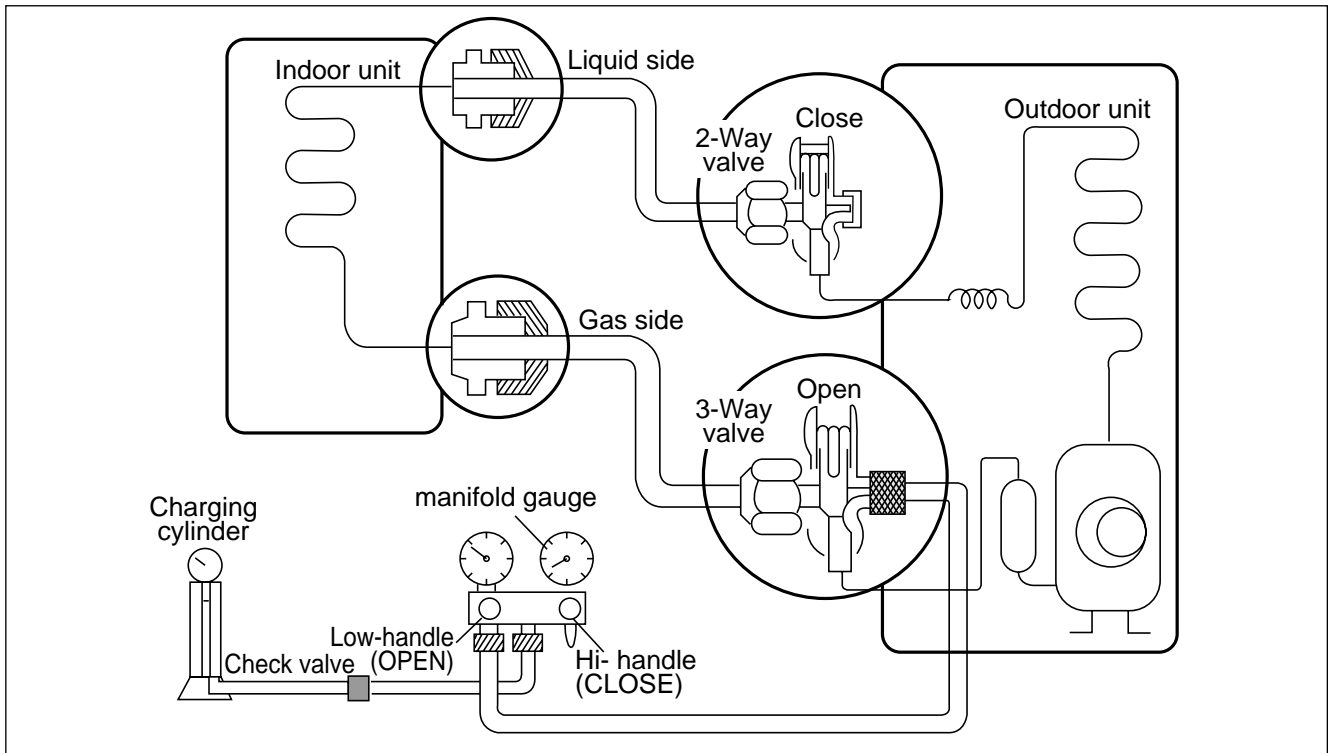
(All amount of refrigerant leaked)



• Procedure

1. Confirm that both the liquid side valve and gas side valve are set to the opened position.
2. Connect the vacuum pump to the center hose of the manifold gauge.
3. Connect the service port of the gas side valve to the low side of the gauge.
4. Evacuation for approximately one hour.
 - Confirm that the gauge needle has moved toward -76 cmHg (vacuum of 4 mmHg or less).
5. Close the Low handle of the gauge turn off the vacuum pump, and confirm that the gauge needle does not move (approximately 5 minutes after turning off the vacuum pump).
6. Disconnect the charge hose from the vacuum pump.
 - Vacuum pump oil.
If the vacuum pump oil becomes dirty or depleted, replenish as needed.
7. Mount the valve caps and the service port caps.
8. Apply steps from 1 to 7 to each unit (A-unit, B-unit) by the same method.

(3) Gas Charging (After Evacuation)



• Procedure

1. Connect the gauge to the charging cylinder.

- Connect the charge hose which you disconnected from the vacuum pump to the valve at the bottom of the cylinder.
- If you are using a gas cylinder, also use a scale and reverse the cylinder so that the system can be charged with liquid.

2. Purge the air from the charge hose.

- Open the valve at the bottom of the cylinder and press the check valve on the charge set to purge the air. (Be careful of the liquid refrigerant). The procedure is the same if using a gas cylinder.

3. Open the low handle on the gauge and charge the system with liquid refrigerant.

- If the system can not be charged with the specified amount of refrigerant, it can be charged with a little at a time (approximately 150g each time) while operating the air conditioner in the cooling cycle; however, one time is not sufficient, wait approximately 1 minute and then repeat the procedure(pumping down-pin).

4. Immediately disconnect the charge hose from the gas side valve's service port.

This is different from previous procedures. Because you are charging with liquid refrigerant from the gas side, absolutely do not attempt to charge with larger amounts of liquid refrigerant while operating the air conditioner.

- Stopping partway will allow the gas to be discharged.
- If the system has been charged with liquid refrigerant while operating the air conditioner turn off the air conditioner before disconnecting the hose.

5. Mount the valve stem nuts and the service port nut.

- Use torque wrench to tighten the service port nut to a torque of 1.8 kg.m.(4.2kg.m/5.5kg.m.)
- Be sure to check for gas leakage.

6. Apply steps from 1 to 5 to each unit (A-unit, B-unit) by the same method.

Cycle Troubleshooting Guide

Trouble analysis

1. Check temperature difference between intake and discharge air and operating current.

Temp. Difference	Temp. difference : approx. 0°C Current : less than 80% of rated current	All amount of refrigerant leaked out. Check refrigeration cycle.
	Temp. difference : approx. 8°C Current : less than 80% of rated current	Refrigerant leakage Clog of refrigeration cycle Defective compressor
Operating Current	Temp. difference : less than 8°C Current : over the rated current	Excessive amount of refrigerant
	Temp. difference : over 8°C	Normal

Notice:

Temperature difference between intake and discharge air depends on room air humidity. When the room air humidity is relatively higher, temperature difference is smaller. When the room air humidity is relatively lower temperature difference is larger.

2. Check temperature and pressure of refrigeration cycle.

Suction pressure (Compared with the normal value)	Temperature (Compared with the normal value)	Cause of Trouble	Description
Higher	High	Defective compressor Defective 4-way reverse valve	Current is low.
	Normal	Excessive amount of refrigerant	High pressure does not quickly rise at the beginning of operation.
Lower	Higher	Insufficient amount of refrigerant(Leakage) Clogging	Current is low. Current is low.

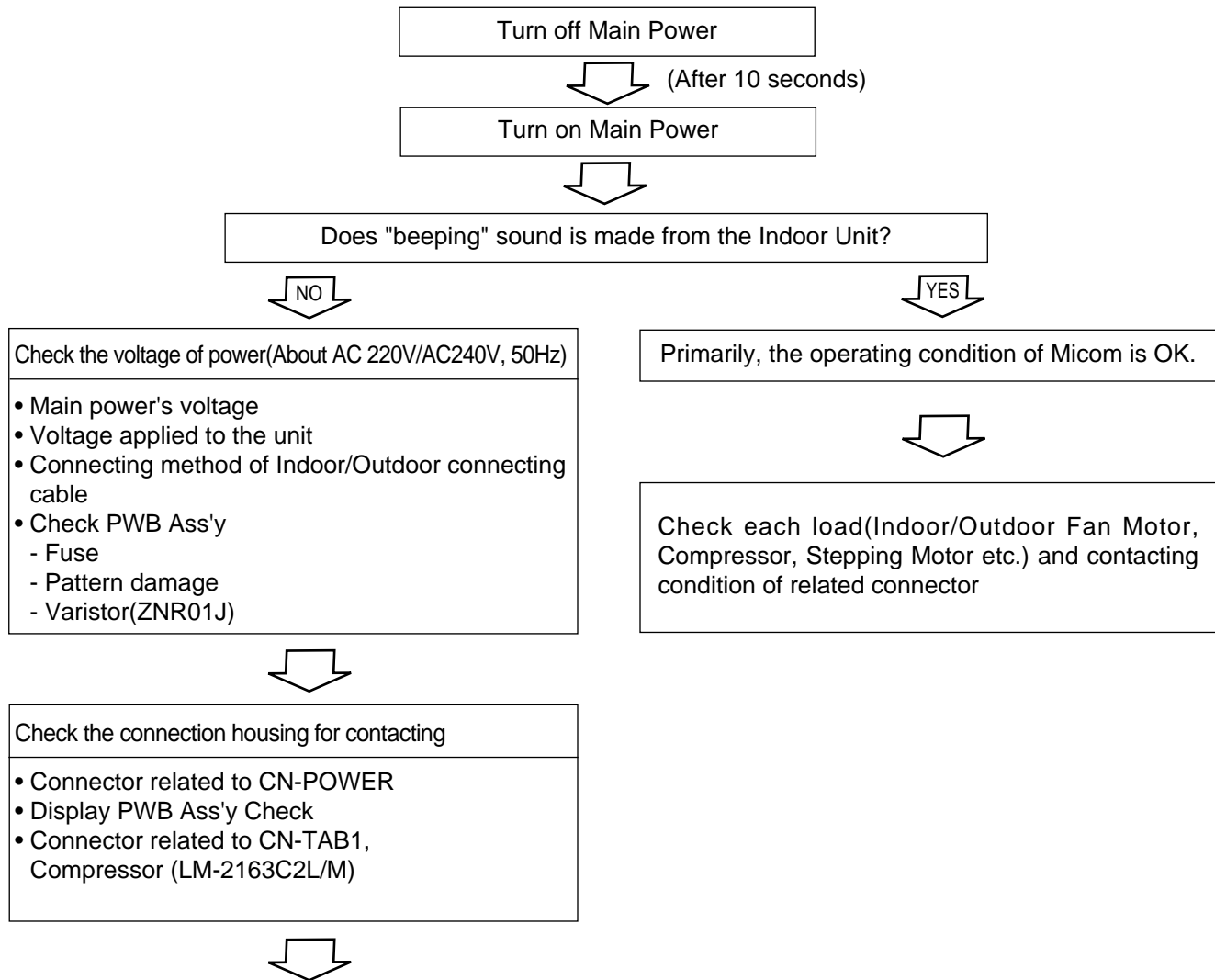
Notice:

1. The suction pressure is usually 4.5~6.0 kg/cm²G at normal condition.
2. The temperature can be measured by attaching the thermometer to the low pressure tubing and wrap it with putty.

Electronic Parts Troubleshooting Guide

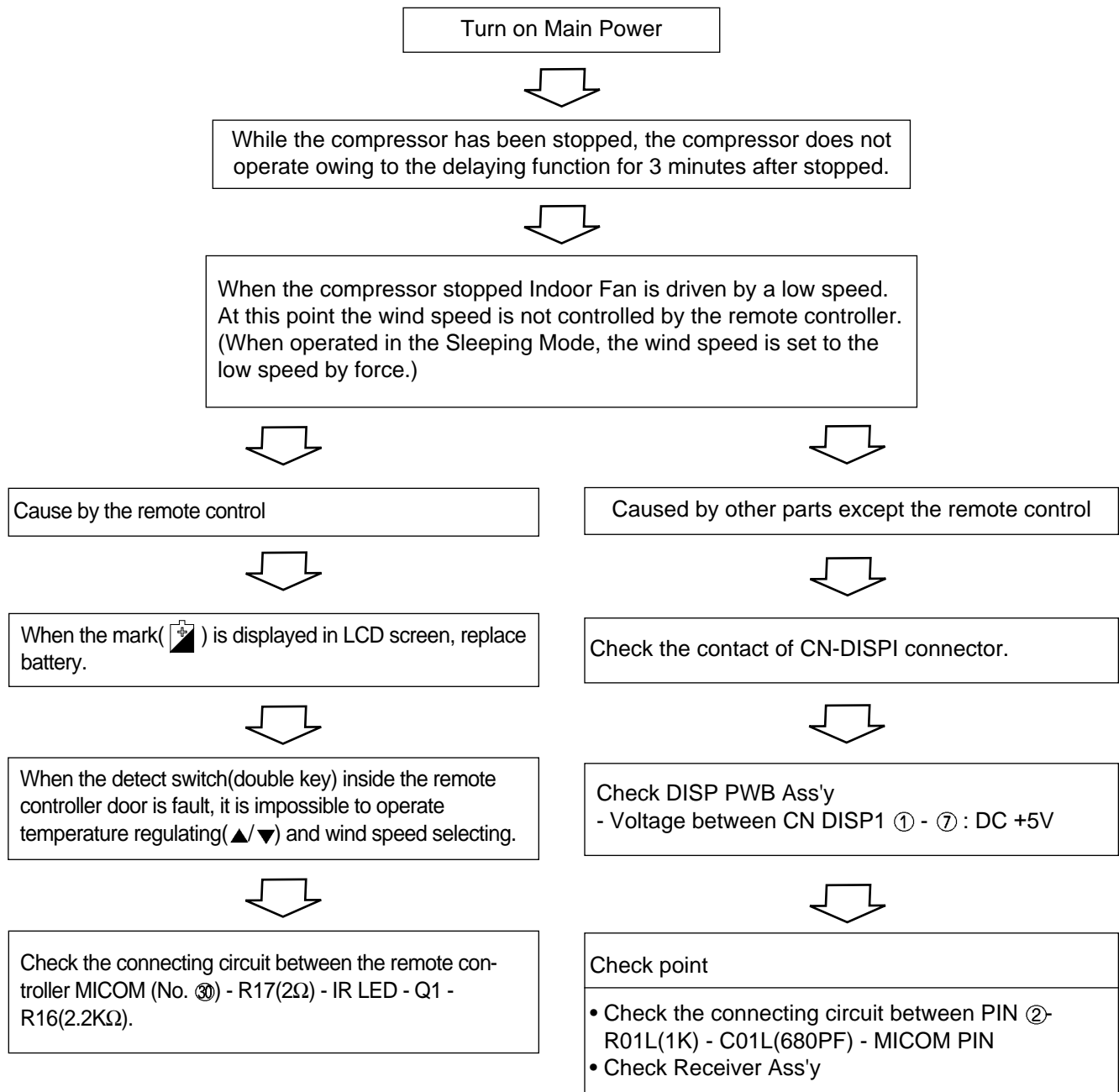
1. Product does not operate at all.

(* Refer to Electronic Control Device drawing and Schematic diagram.)

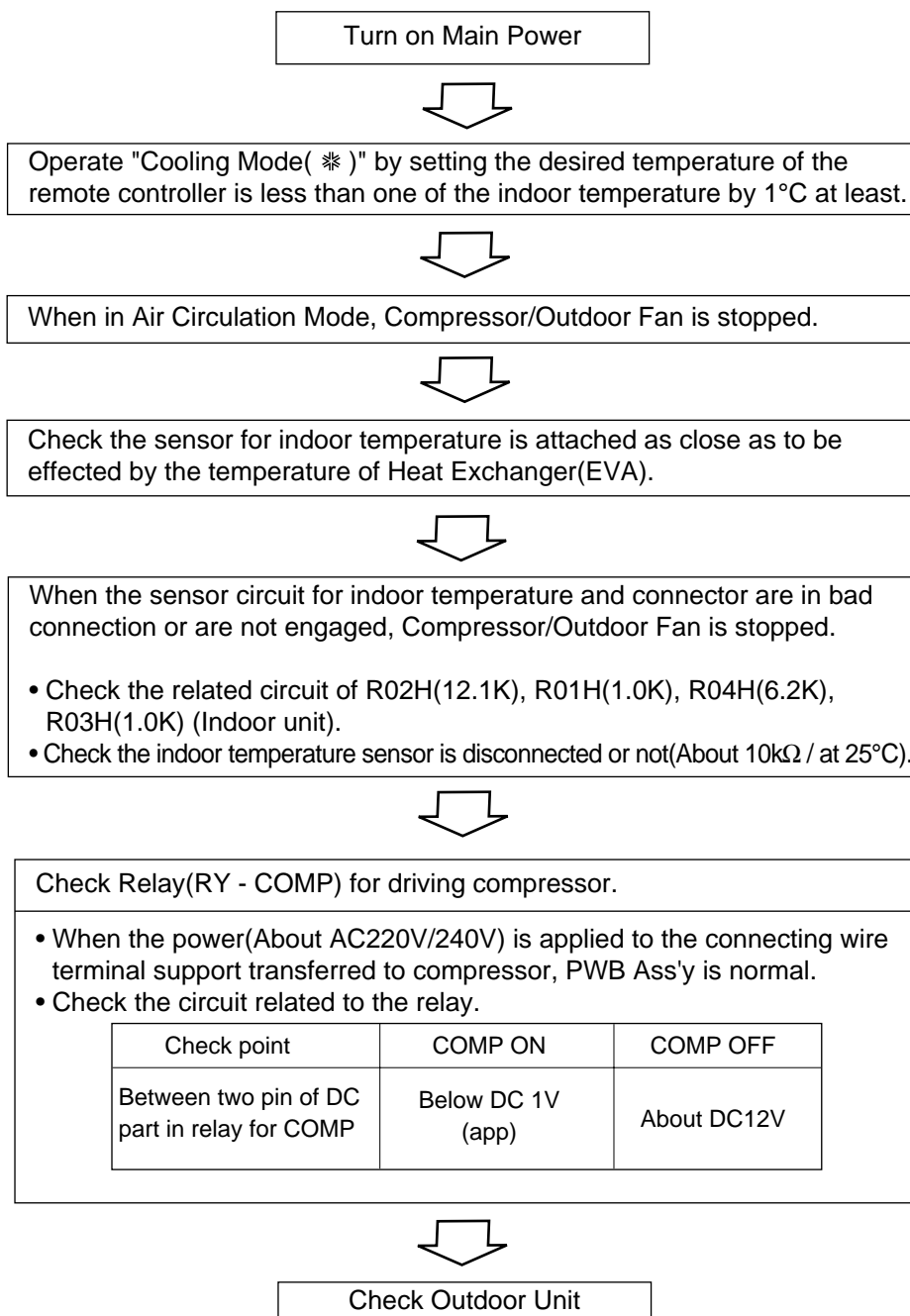


PCB Board Operation Check		
Items	Content	Remedy
<ul style="list-style-type: none"> • Power Transformer (Outdoor unit) - Input Voltage - Output Voltage 	<ul style="list-style-type: none"> - About AC220V/240V±10% - Check the power voltage - About AC14±3V 	<ul style="list-style-type: none"> • Replace Trans
<ul style="list-style-type: none"> • IC01D(7812) Output (Indoor/Outdoor unit) 	<ul style="list-style-type: none"> • DC +12V 	<ul style="list-style-type: none"> • Replace IC01D
<ul style="list-style-type: none"> • IC02D(7805) Output (Indoor/Outdoor unit) 	<ul style="list-style-type: none"> • DC +5V 	<ul style="list-style-type: none"> • Replace IC02D
<ul style="list-style-type: none"> • IC01A(KIA7036, Reset IC) X01(8MHz) 	<ul style="list-style-type: none"> • Voltage of Micom No. 2, (DC +4.5V over) and Soldering condition. 	<ul style="list-style-type: none"> • Replace faulty parts

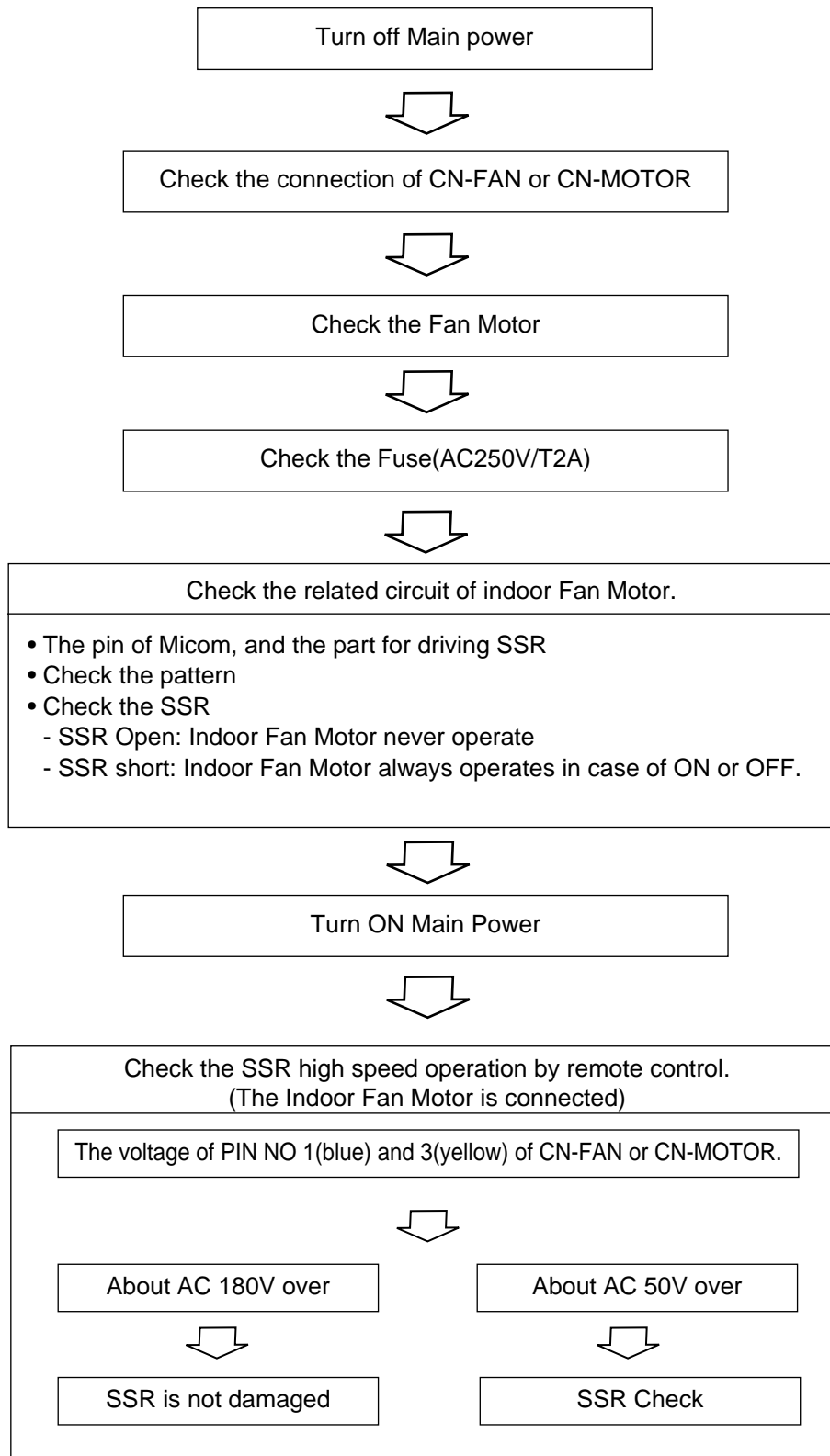
2. The product is not operate with the remote control.



3. When cooling does not operate



4. When indoor Fan does not operate.



5. When Vertical Louver does not operate.

- Confirm that the Vertical Louver is normally geared with the shaft of Stepping Motor.
- If the regular torque is detected when rotating the Vertical Louver with hands ⇒ Normal



- Check the connecting condition of CN-U/D Connector
- Check the soldering condition(on PWB) of CN-U/D Connector



Check the operating circuit of the Vertical Louver

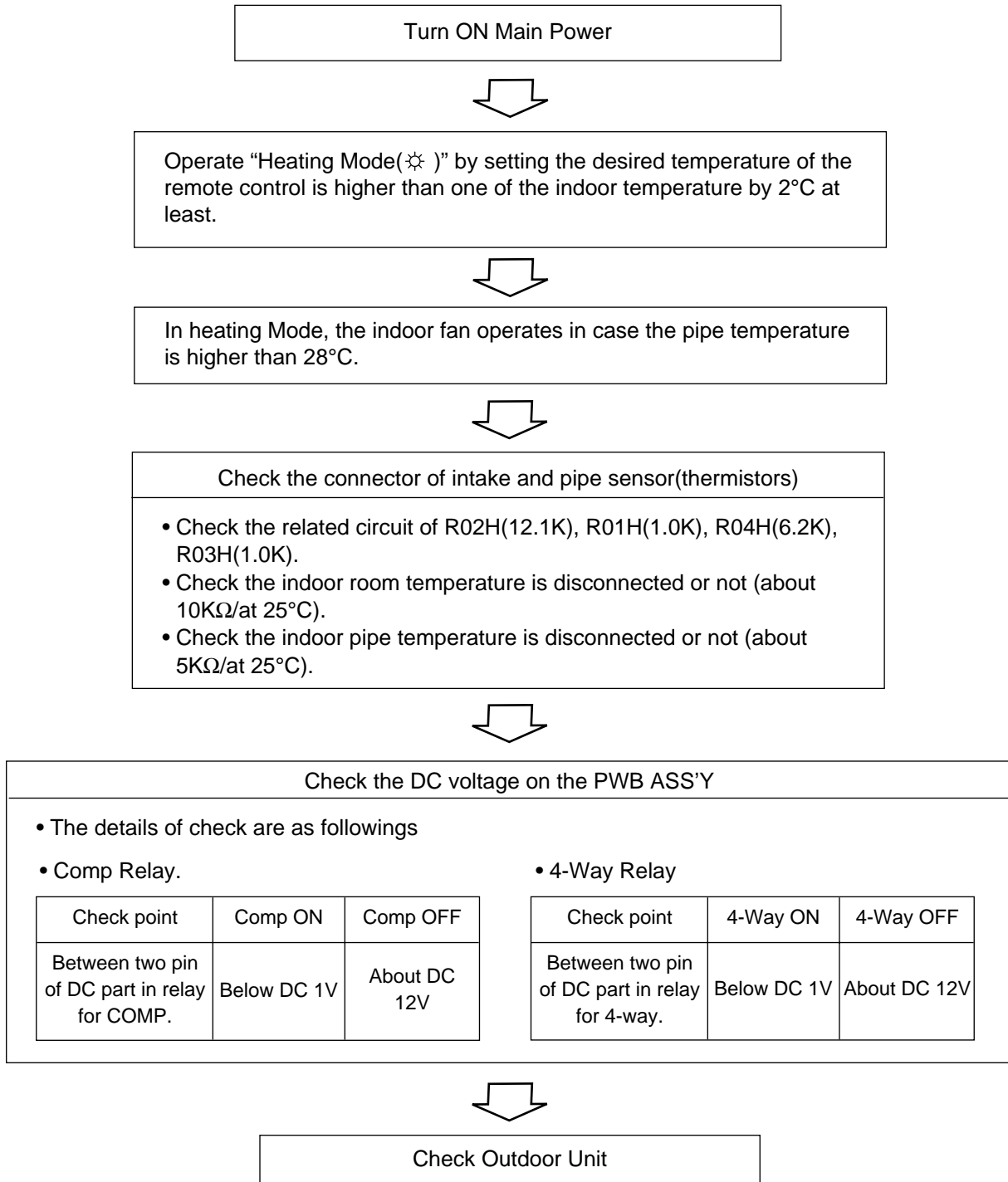
- Confirm that there is DC +12V between pin ①(REDF) of CN-U/D and GND.



If there are no problems after above checks

- Confirm the assembly conditions that are catching and interfering parts in the rotation radial of the Vertical Louver

6. When Heating does not operate



7. Outdoor unit does not operate at all.

Check Outdoor Unit



PCB Board Operation Check in Outdoor		
Items	Content	Remedy
<ul style="list-style-type: none"> • Power Transformer (Outdoor unit) - Input Voltage - Output Voltage <li style="text-align: center;">↓ • IC01D(7812) Output (Indoor/Outdoor unit) <li style="text-align: center;">↓ • IC02D(7805) Output (Indoor/Outdoor unit) <li style="text-align: center;">↓ • IC01A(KIA7036, Reset IC) X01(8MHz) 	<ul style="list-style-type: none"> - About AC220V/240V±10% - Check the power voltage - About AC14±3V • DC +12V • DC +5V 	<ul style="list-style-type: none"> • Replace Trans • Replace IC01D • Replace IC02D • Replace faulty parts



Turn off Main Power



- Check the electrical wiring diagram of outdoor side.
- Check the abnormal condition for the component of Compressor/Outdoor Fan Motor/4-way.
- Check the “open” or “short” of connecting wires between indoor and outdoor.

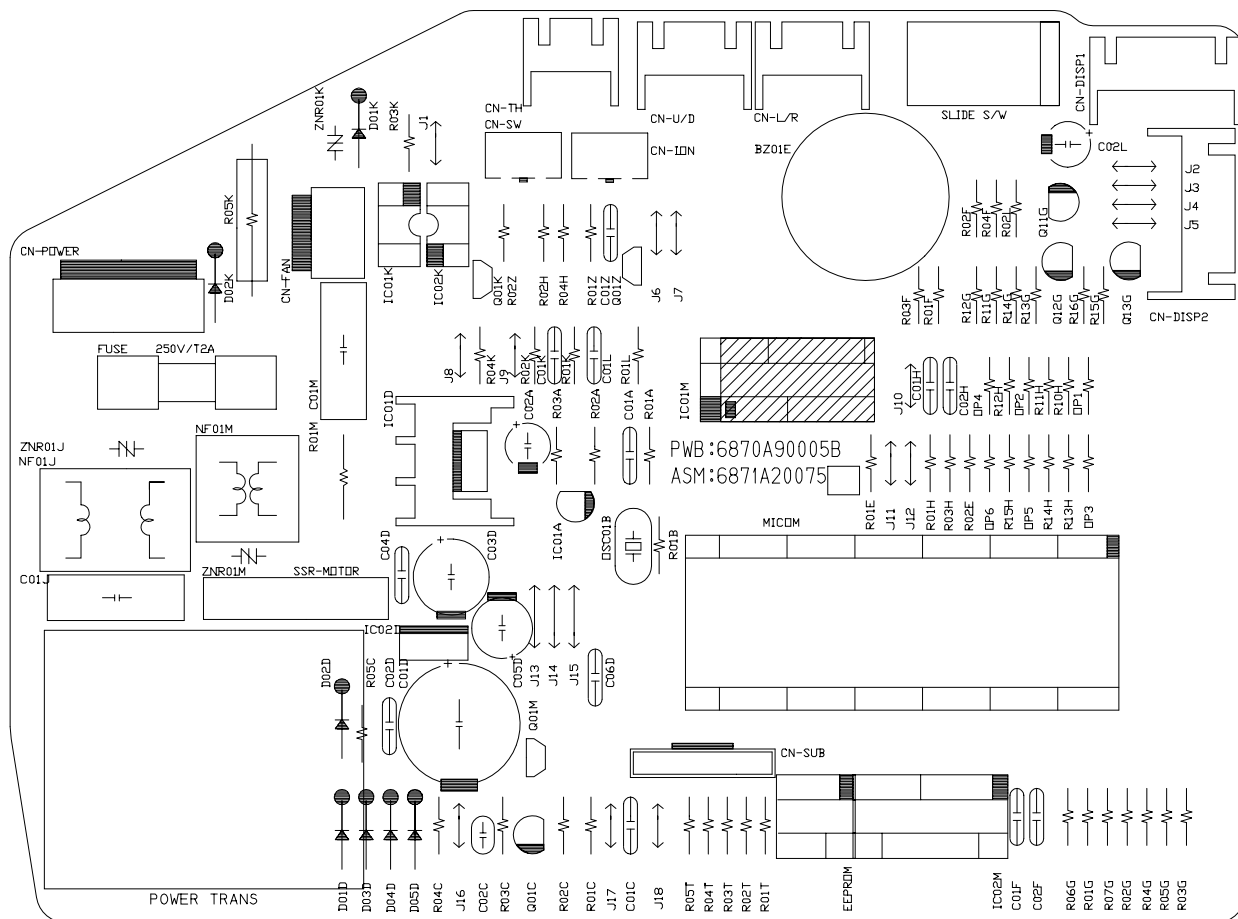
8. Communication error

- The control data can be transmitted or received between indoor and outdoor unit with one signal cable.
- If the data be disturbed by any noise level, the unit will be operated incorrectly. In this case, the indoor unit blinks the operation and operation LED on display and indoor fan, outdoor fan, COMP are not operated.
- The unit can be reoperated by On/Off control of Remocon.

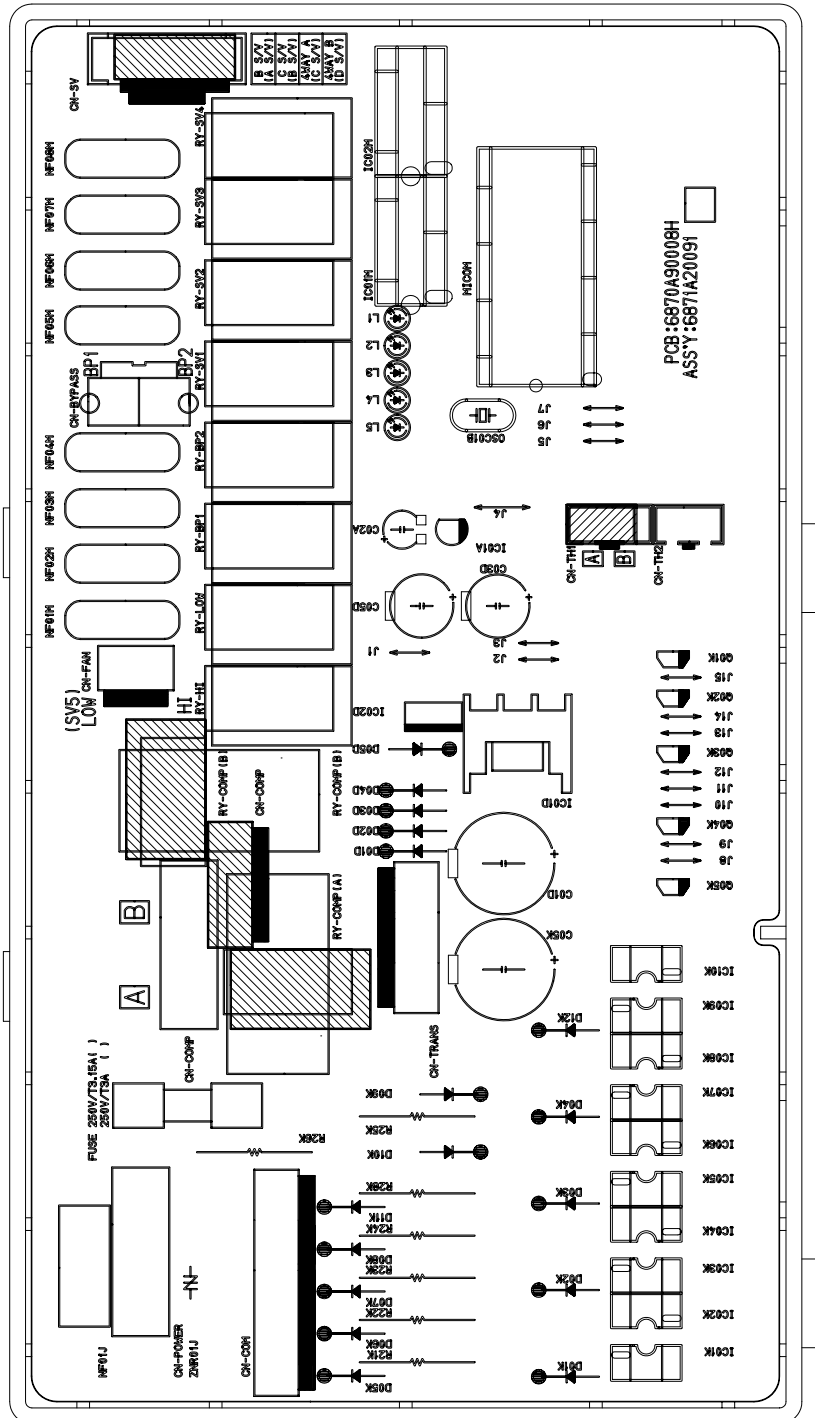
Electronic Control Device

1. Indoor

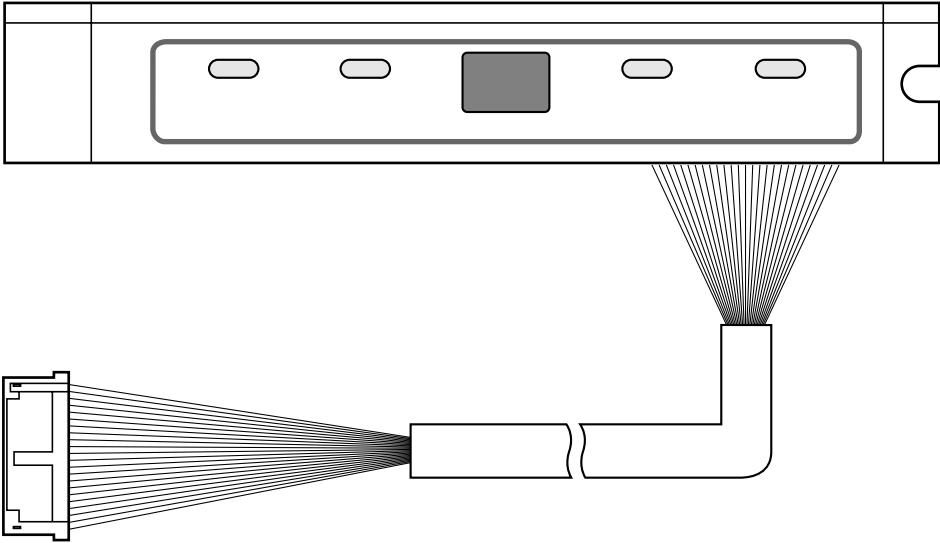
• MAIN P.C.B ASM



• MAIN P.C.B ASM(LM-2860C5L, LM-3060H4L/M)



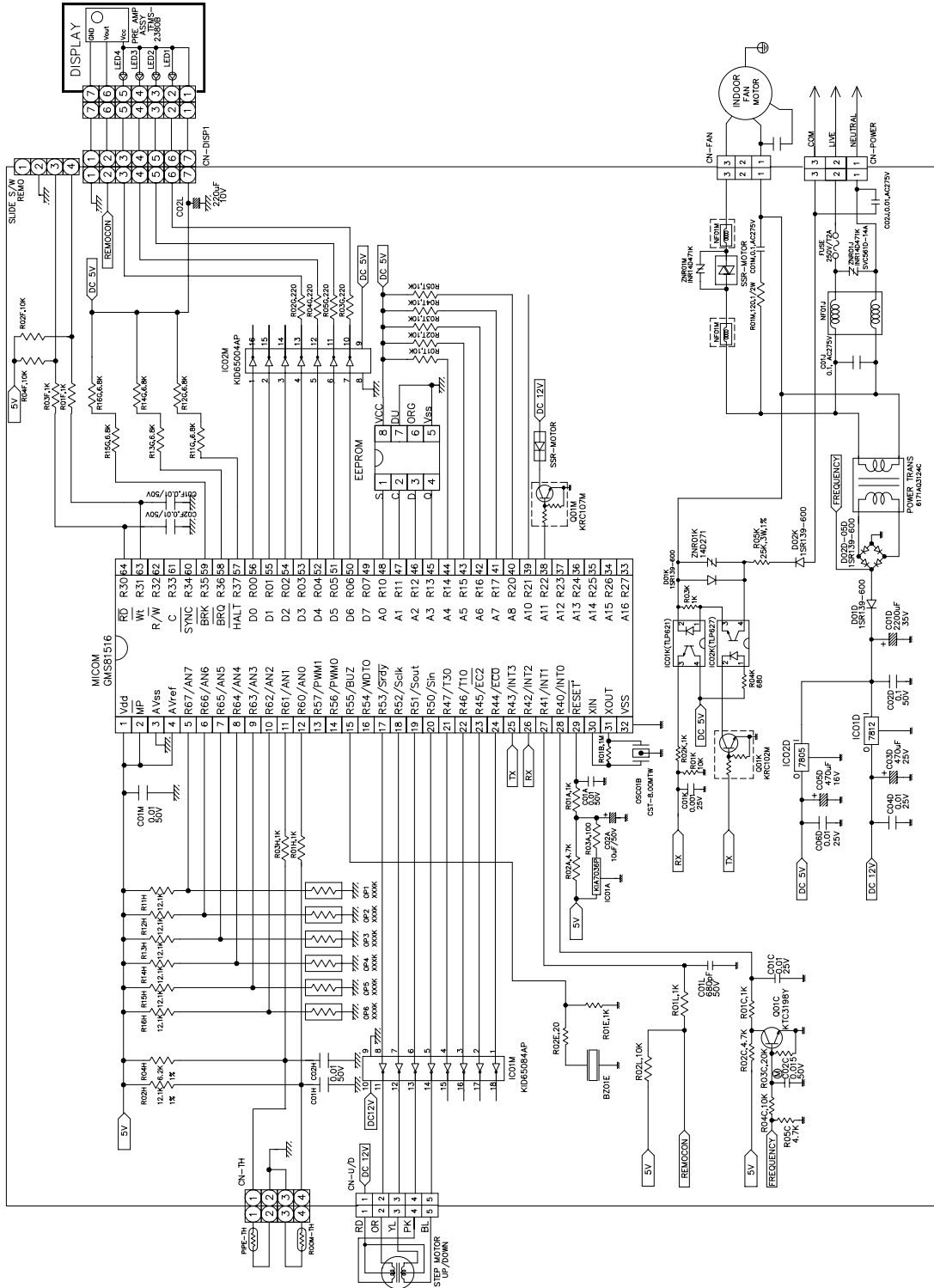
3. Display Ass'y



Schematic Diagram

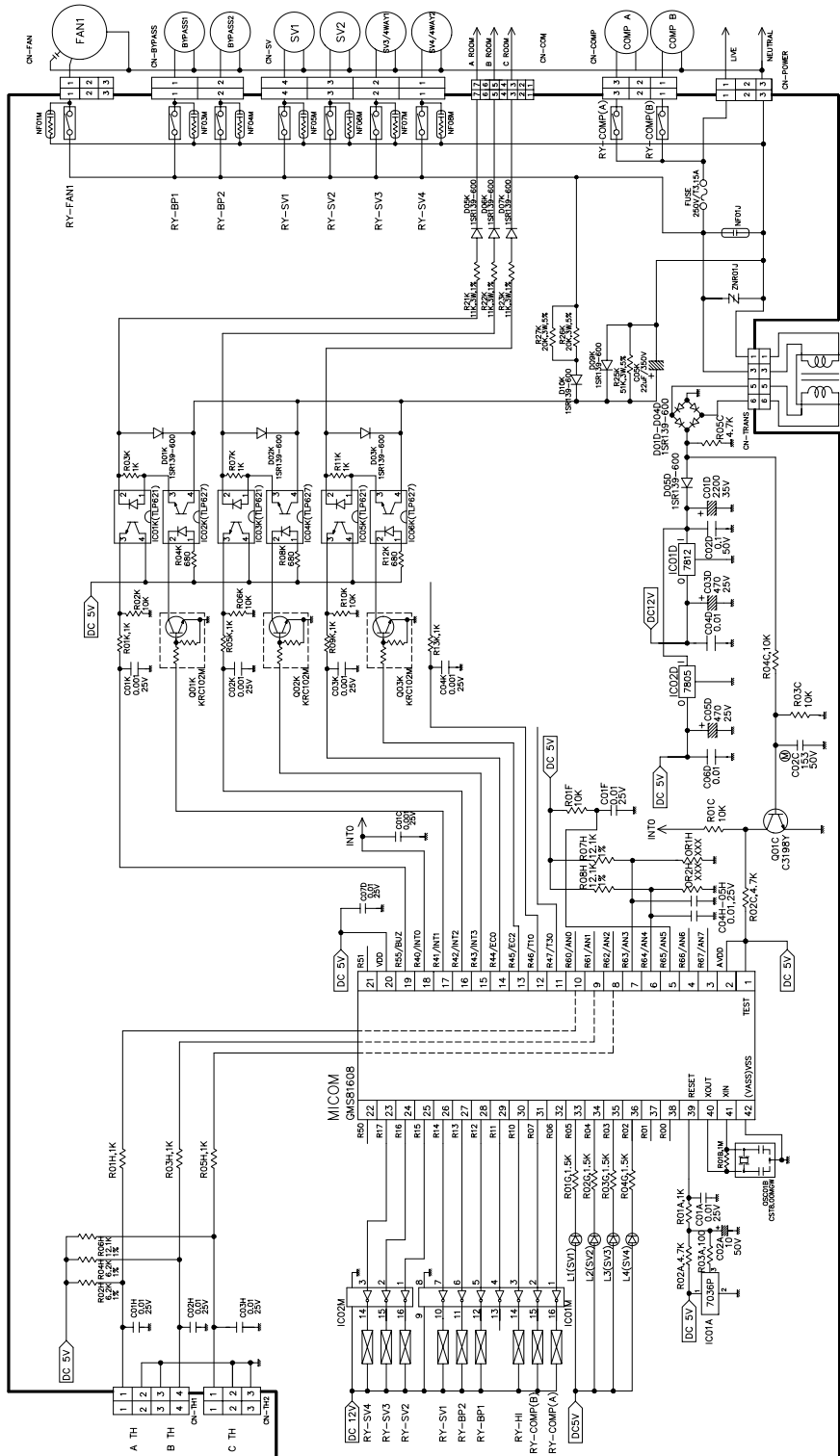
1. Indoor

- LM-2561C3L, LM-2860C5L, LM-3060H4L/M, LM-4260H3L/M

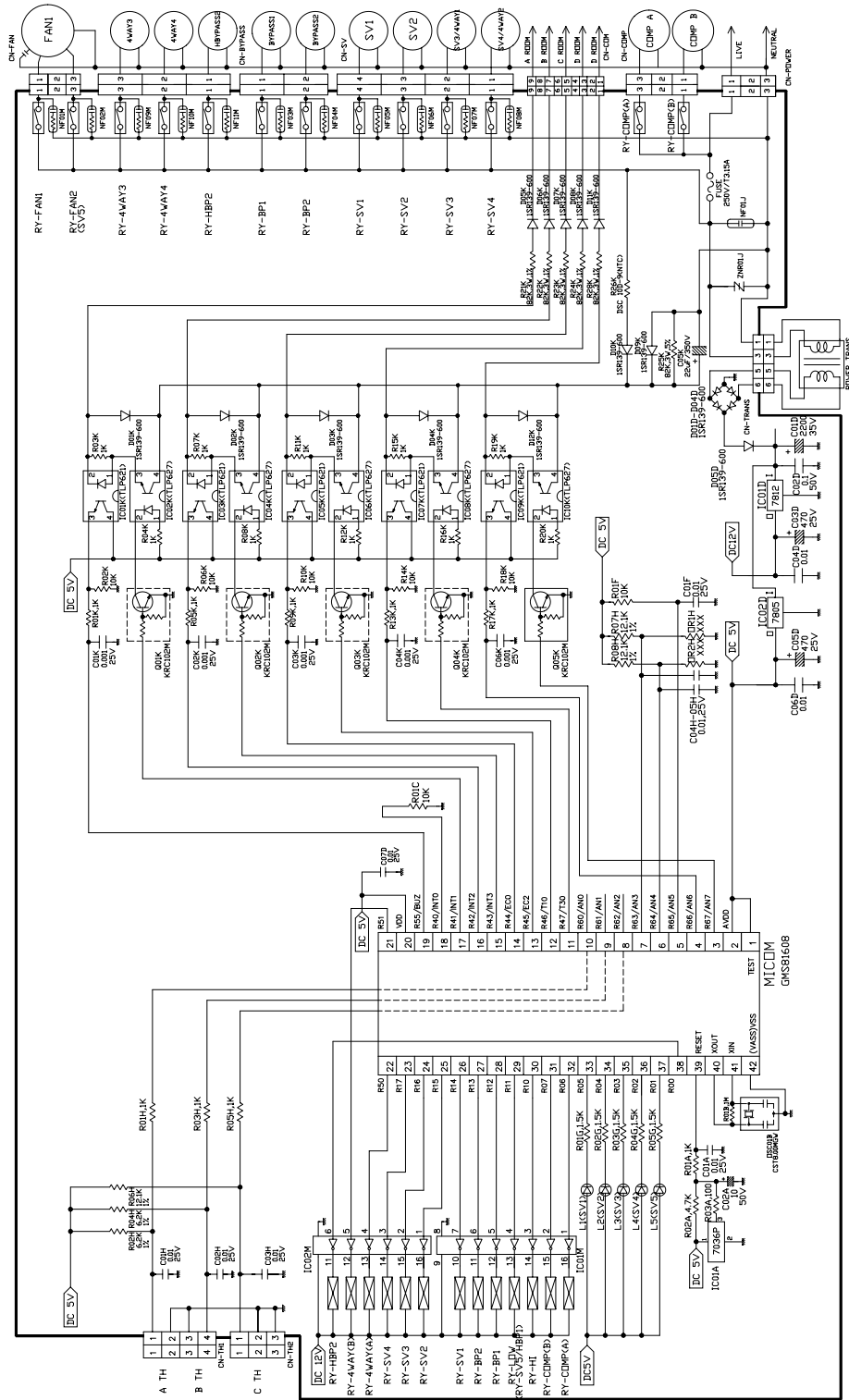


2. Outdoor

- LM-2561C3L, LM-4260H3L/M

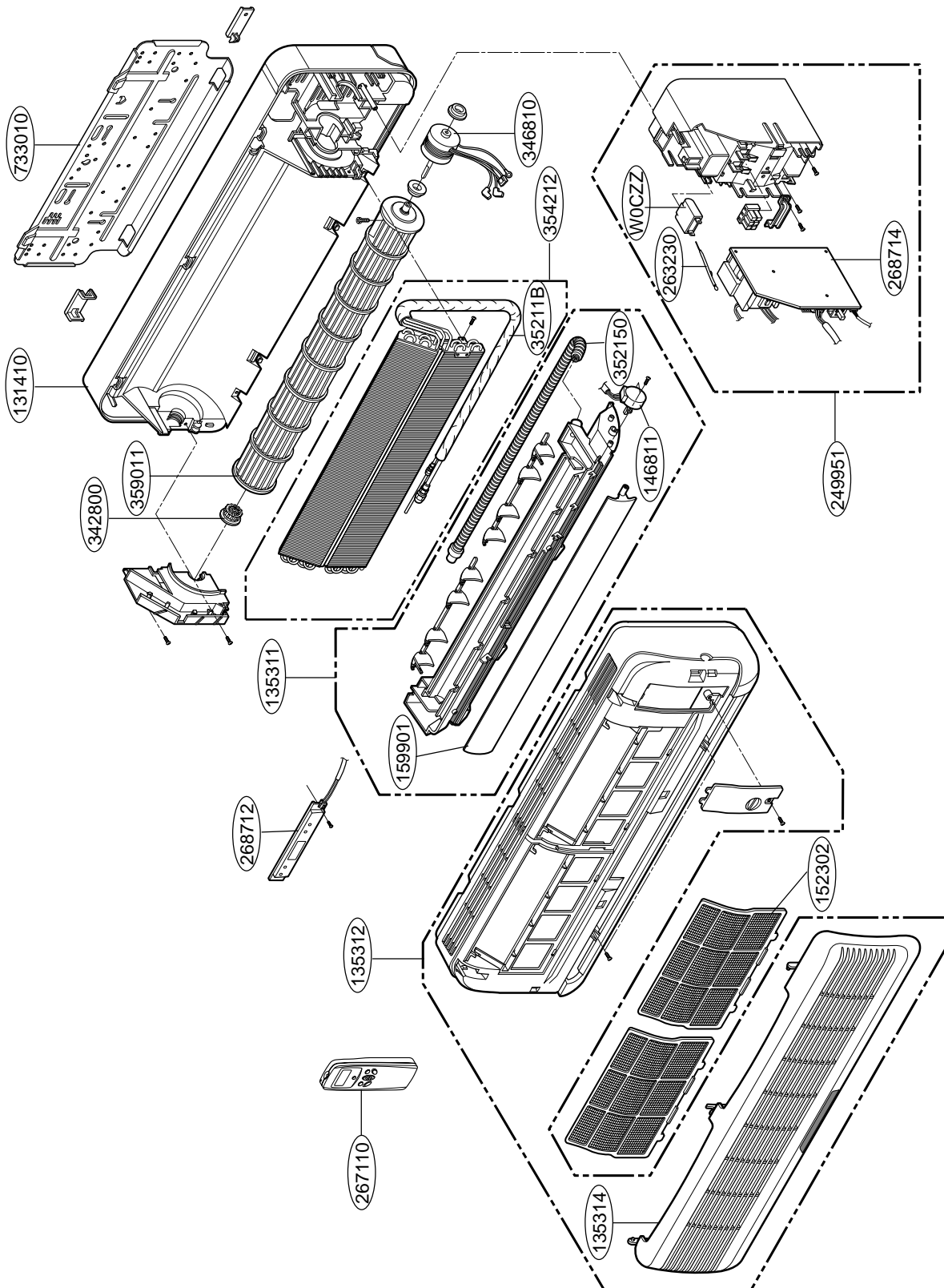


• LM-2860C5L, LM-3060H4L/M



Exploded View and Replacement Parts List

1. Indoor Unit (6K, 7K, 8K, 9K Btu Models)



Parts List(Indoor Unit)**■ LM-2860C5L**

LOCATION NO	PART NO	DESCRIPTION	REMARKS
131410	3141A20001B	CHASSIS ASSY	R
135311	3531A10005A	GRILLE ASSY, DISCHARGE(INDOOR)	R
135312	3531A10001W	GRILLE ASSY, FRONT(INDOOR)	R
146811	4681AR2727H	MOTOR ASSY, STEP	R
152302	5230AR2630A	FILTER(MECH), A/C	R
152313	5231AR2412T	FILTER ASSY, DEODORIZER	R
159901	5990AR7225A	VANE, HORIZONTAL	R
249951	4995A20024X	CONTROL BOX ASSY, INDOOR	R
263230	6323A20003A	THERMISTOR ASSY	R
267110	6711A20010A	REMOTE CONTROLLER ASSY	R
268712	6871A30009G	PWB(PCB) ASSY, DISPLAY	R
268714	6871A20075M	PWB(PCB) ASSY, MAIN	R
342800	3H02821B	BEARING	R
346810	4681A20003C	MOTOR ASSY, INDOOR	R
35211B	5211AR7288A	TUBE ASSY, TUBING	R
352150	5251AR2575A	HOSE ASSY, DRAIN	R
354212	5421AR6176P	EVAPORATOR ASSY, FINAL	R
359011	5901AR6141A	FAN ASSY, CROSS FLOW	R
733010	3300A10002A	PLATE	R
W0CZZ	3H01487A	CAPACITOR, DRAWING	R

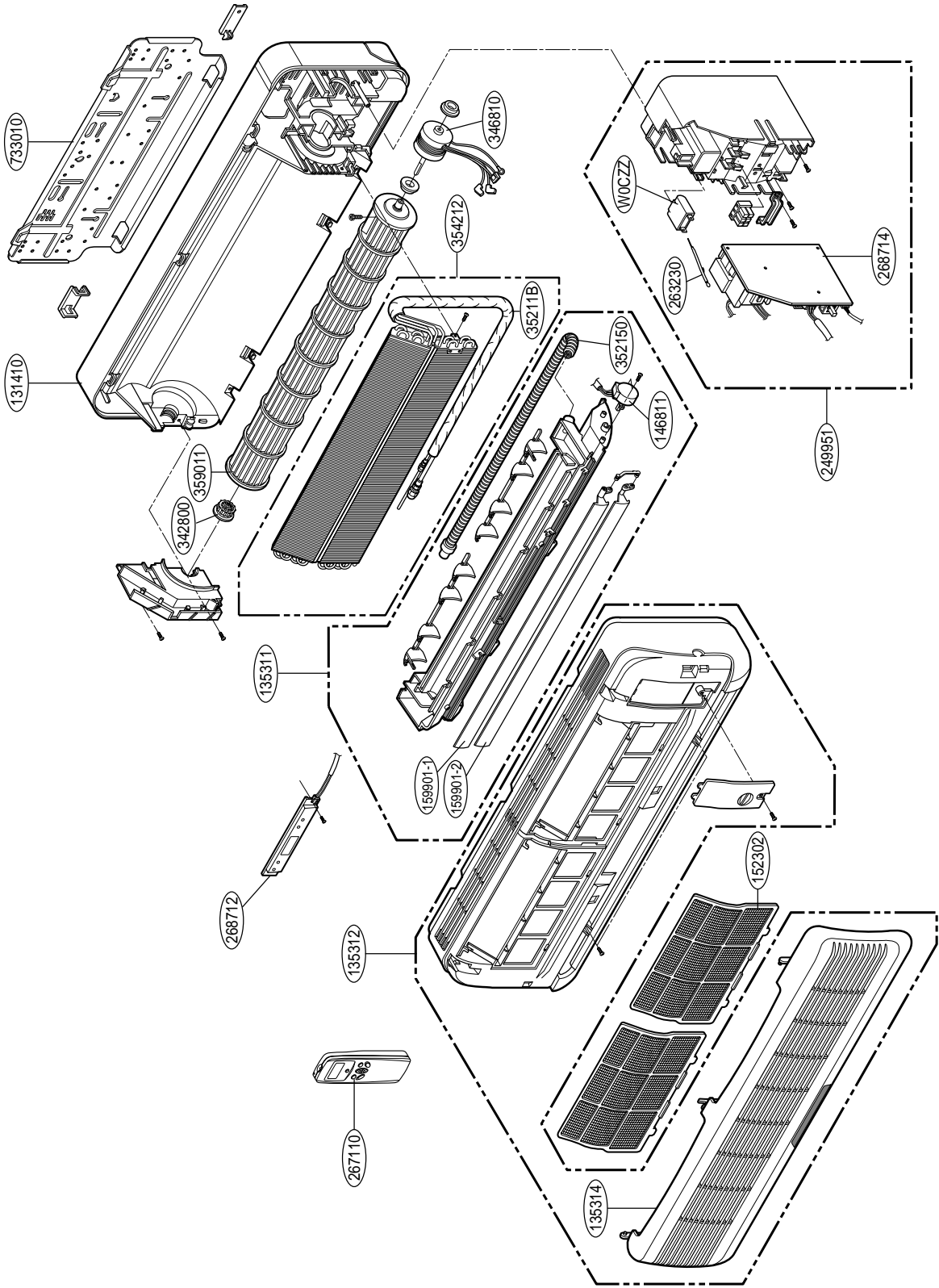
Parts List(Indoor Unit)**■ LM-2561C3L**

LOCATION NO	PART NO	DESCRIPTION	REMARKS
131410	3141A20001B	CHASSIS ASSY	R
135311	3531A10005A	GRILLE ASSY, DISCHARGE(INDOOR)	R
135312	3531A10001W	GRILLE ASSY, FRONT(INDOOR)	R
146811	4681AR2727H	MOTOR ASSY, STEP	R
152302	5230AR2630A	FILTER(MECH), A/C	R
152313	5231AR2412T	FILTER ASSY, DEODORIZER	R
159901	5990AR7225A	VANE, HORIZONTAL	R
249951	4995A20024R	CONTROL BOX ASSY, INDOOR	R
263230	6323A20003A	THERMISTOR ASSY	R
267110	6711A20010A	REMOTE CONTROLLER ASSY	R
268712	6871A30009G	PWB(PCB) ASSY, DISPLAY	R
268714	6871A20075F	PWB(PCB) ASSY, MAIN	R
342800	3H02821B	BEARING	R
346810	4681A20003C	MOTOR ASSY, INDOOR	R
35211B	5211AR7288A	TUBE ASSY, TUBING	R
352150	5251AR2575A	HOSE ASSY, DRAIN	R
354212	5421AR6176P	EVAPORATOR ASSY, FINAL	R
359011	5901AR6141A	FAN ASSY, CROSS FLOW	R
733010	3300A10002A	PLATE	R
W0CZZ	3H01487A	CAPACITOR, DRAWING	R

Parts List(Indoor Unit)**■ LM-3060H4L/M**

LOCATION NO	PART NO	DESCRIPTION	REMARKS
346810	4681A20003C	MOTOR ASSY, INDOOR	R
131410	3141A20001D	CHASSIS ASSY	R
135311	3531A10005C	GRILLE ASSY, DISCHARGE(INDOOR)	R
135312	3531A10001Y	GRILLE ASSY, FRONT(INDOOR)	R
146811	4681AR2727H	MOTOR ASSY, STEP	R
152302	5230AR2630A	FILTER(MECH), A/C	R
152313	5231AR2412T	FILTER ASSY, DEODORIZER	R
159901	5990AR7225D	VANE, HORIZONTAL	R
249951	4995A20024Z	CONTROL BOX ASSY, INDOOR	R
263230	6323A20003A	THERMISTOR ASSY	R
267110	6711A20010B	REMOTE CONTROLLER ASSY	R
268712	6871A30009C	PWB(PCB) ASSY, DISPLAY	R
268714	6871A20109F	PWB(PCB) ASSY, MAIN	R
342800	3H02821B	BEARING	R
35211B	5211AR7288A	TUBE ASSY, TUBING	R
352150	5251AR2575A	HOSE ASSY, DRAIN	R
354212	5421AR6176D	EVAPORATOR ASSY, FINAL	R
359011	5901AR6141A	FAN ASSY, CROSS FLOW	R
733010	3300A10002A	PLATE	R
W0CZZ	3H01487A	CAPACITOR, DRAWING	R

2. Indoor Unit (10K, 11K, 12K Btu Models)



Parts List(Indoor Unit)**■ LM-2561C3L**

LOCATION NO	PART NO	DESCRIPTION	REMARKS
131410	3141A20003D	CHASSIS ASSY	R
135311	3531A10023B	GRILLE ASSY, DISCHARGE(INDOOR)	R
135312	3531A10024J	GRILLE ASSY, FRONT(INDOOR)	R
135314	3531A20028D	GRILLE ASSY, INLET SUB	R
146811	4681AR2727H	MOTOR ASSY, STEP	R
152302	5230A20004A	FILTER(MECH), A/C	R
152313	5231AR2412T	FILTER ASSY, DEODORIZER	R
159901-1	5990A30006A	VANE, HORIZONTAL	R
159901-2	5990A30007A	VANE, HORIZONTAL	R
249951	4995A20082J	CONTROL BOX ASSY, INDOOR	R
263230	6323A20003A	THERMISTOR ASSY	R
267110	6711A20010A	REMOTE CONTROLLER ASSY	R
268712	6871A30009H	PWB(PCB) ASSY, DISPLAY	R
268714	6871A20075G	PWB(PCB) ASSY, MAIN	R
342800	3H02821B	BEARING	R
346810	4681A20003P	MOTOR ASSY, INDOOR	R
35211B	2H02449M	TUBE ASSY, TUBING	R
352150	5251AR2575A	HOSE ASSY, DRAIN	R
354212	5421A20031H	EVAPORATOR ASSY, FINAL	R
359011	5901AR6141C	FAN ASSY, CROSS FLOW	R
733010	1H00843A	PLATE ASSY, INSTALL	R
W0CZZ	3H01487A	CAPACITOR, DRAWING	R

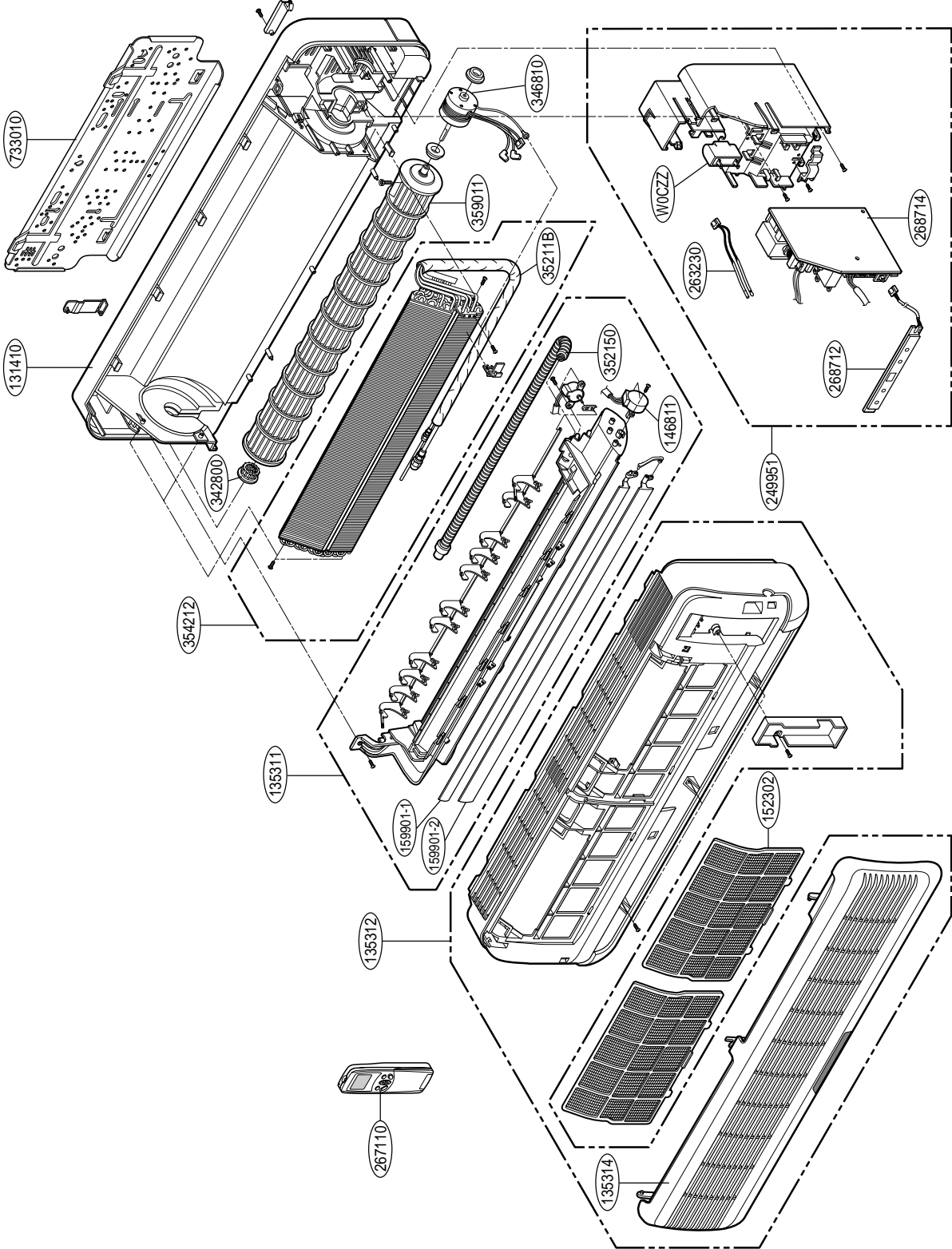
Parts List(Indoor Unit)**■ LM-3060H4L/M**

LOCATION NO	PART NO	DESCRIPTION	REMARKS
131410	3141A20003B	CHASSIS ASSY	R
135311	3531A10023A	GRILLE ASSY, DISCHARGE(INDOOR)	R
135312	3531A10024M	GRILLE ASSY, FRONT(INDOOR)	R
135314	3531A20028F	GRILLE ASSY, INLET SUB	R
146811	4681AR2727H	MOTOR ASSY, STEP	R
152302	5230A20004A	FILTER(MECH), A/C	R
152313	5231AR2412T	FILTER ASSY, DEODORIZER	R
159901-1	5990A30006B	VANE, HORIZONTAL	R
159901-2	5990A30007B	VANE, HORIZONTAL	R
249951	4995A20143B	CONTROL BOX ASSY, INDOOR	R
263230	6323A20003A	THERMISTOR ASSY	R
267110	6711A20010B	REMOTE CONTROLLER ASSY	R
268712	6871A30009E	PWB(PCB) ASSY, DISPLAY	R
268714	6871A20109G	PWB(PCB) ASSY, MAIN	R
342800	3H02821B	BEARING	R
346810	4681A20003P	MOTOR ASSY, INDOOR	R
35211B	2H02449J	TUBE ASSY, TUBING	R
352150	5251AR2575A	HOSE ASSY, DRAIN	R
354212	5421A20031G	EVAPORATOR ASSY, FINAL	R
359011	5901AR6141C	FAN ASSY, CROSS FLOW	R
733010	1H00843A	PLATE ASSY, INSTALL	R
W0CZZ	3H01487A	CAPACITOR, DRAWING	R

Parts List(Indoor Unit)**■ LM-4260H3L/M**

LOCATION NO	PART NO	DESCRIPTION	REMARKS
131410	3141A20003B	CHASSIS ASSY	R
135311	3531A10023A	GRILLE ASSY, DISCHARGE(INDOOR)	R
135312	3531A10024M	GRILLE ASSY, FRONT(INDOOR)	R
135314	3531A20028F	GRILLE ASSY, INLET SUB	R
146811	4681AR2727H	MOTOR ASSY, STEP	R
152302	5230A20004A	FILTER(MECH), A/C	R
152313	5231AR2412T	FILTER ASSY, DEODORIZER	R
159901-1	5990A30006B	VANE, HORIZONTAL	R
159901-2	5990A30007B	VANE, HORIZONTAL	R
249951	4995A20143A	CONTROL BOX ASSY, INDOOR	R
263230	6323A20003A	THERMISTOR ASSY	R
267110	6711A20010B	REMOTE CONTROLLER ASSY	R
268712	6871A30009E	PWB(PCB) ASSY, DISPLAY	R
268714	6871A20109E	PWB(PCB) ASSY, MAIN	R
342800	3H02821B	BEARING	R
346810	4681A20003P	MOTOR ASSY, INDOOR	R
35211B	2H02449J	TUBE ASSY, TUBING	R
352150	5251AR2575A	HOSE ASSY, DRAIN	R
354212	5421A20031G	EVAPORATOR ASSY, FINAL	R
359011	5901AR6141C	FAN ASSY, CROSS FLOW	R
733010	1H00843A	PLATE ASSY, INSTALL	R
W0CZZ	3H01487A	CAPACITOR, DRAWING	R

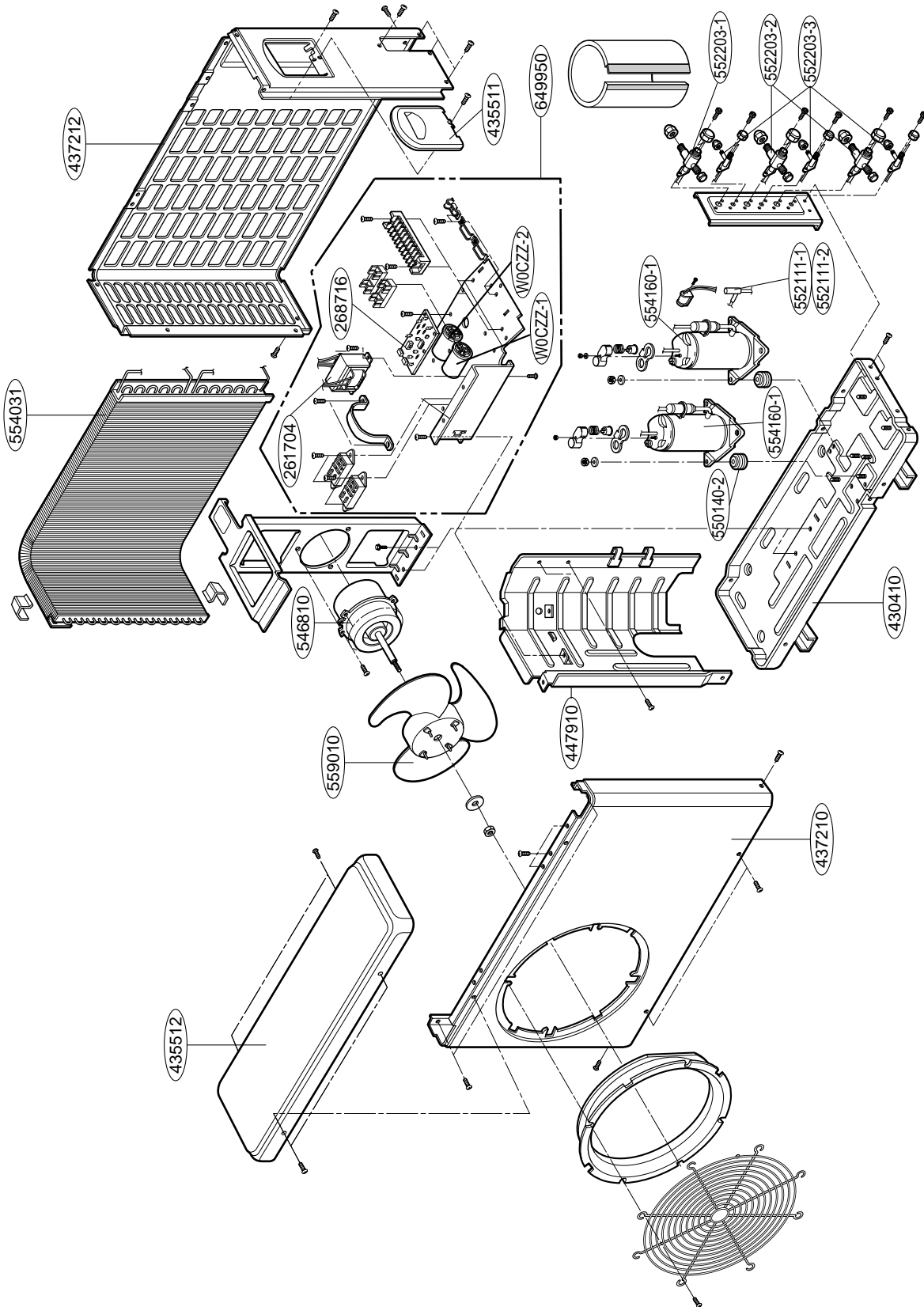
3. Indoor Unit (18K Btu Models)



Parts List(Indoor Unit)**■ LM-4260H3L/M**

LOCATION NO	PART NO	DESCRIPTION	REMARKS
131410	3141A20002H	CHASSIS ASSY	R
135311	3531A10008H	GRILLE ASSY, DISCHARGE(INDOOR)	R
135312	3531A10033E	GRILLE ASSY, FRONT(INDOOR)	R
135314	3531A20011M	GRILLE ASSY, INLET SUB	R
146811	4681AR2727H	MOTOR ASSY, STEP	R
152302	5230A20001A	FILTER(MECH), A/C	R
152313	5231AR2595G	FILTER ASSY, DEODORIZER	R
159901-1	5990A30001B	VANE, HORIZONTAL	R
159901-2	5990A30002B	VANE, HORIZONTAL	R
249951	4995A20091H	CONTROL BOX ASSY, INDOOR	R
263230	6323A20003A	THERMISTOR ASSY	R
267110	6711A20010B	REMOTE CONTROLLER ASSY	R
268712	6871A30009D	PWB(PCB) ASSY, DISPLAY	R
268714	6871A20109A	PWB(PCB) ASSY, MAIN	R
342800	3H02821B	BEARING	R
346810	4681A20003D	MOTOR ASSY, INDOOR	R
35211B	5211A30038E	TUBE ASSY, TUBING	R
352150	5251AR2575A	HOSE ASSY, DRAIN	R
354212	5421A20011L	EVAPORATOR ASSY, FINAL	R
359011	5901AR2441E	FAN ASSY, CROSS FLOW	R
733010	1H00843A	PLATE ASSY, INSTALL	R
W0CZZ	3H01487G	CAPACITOR, DRAWING	R

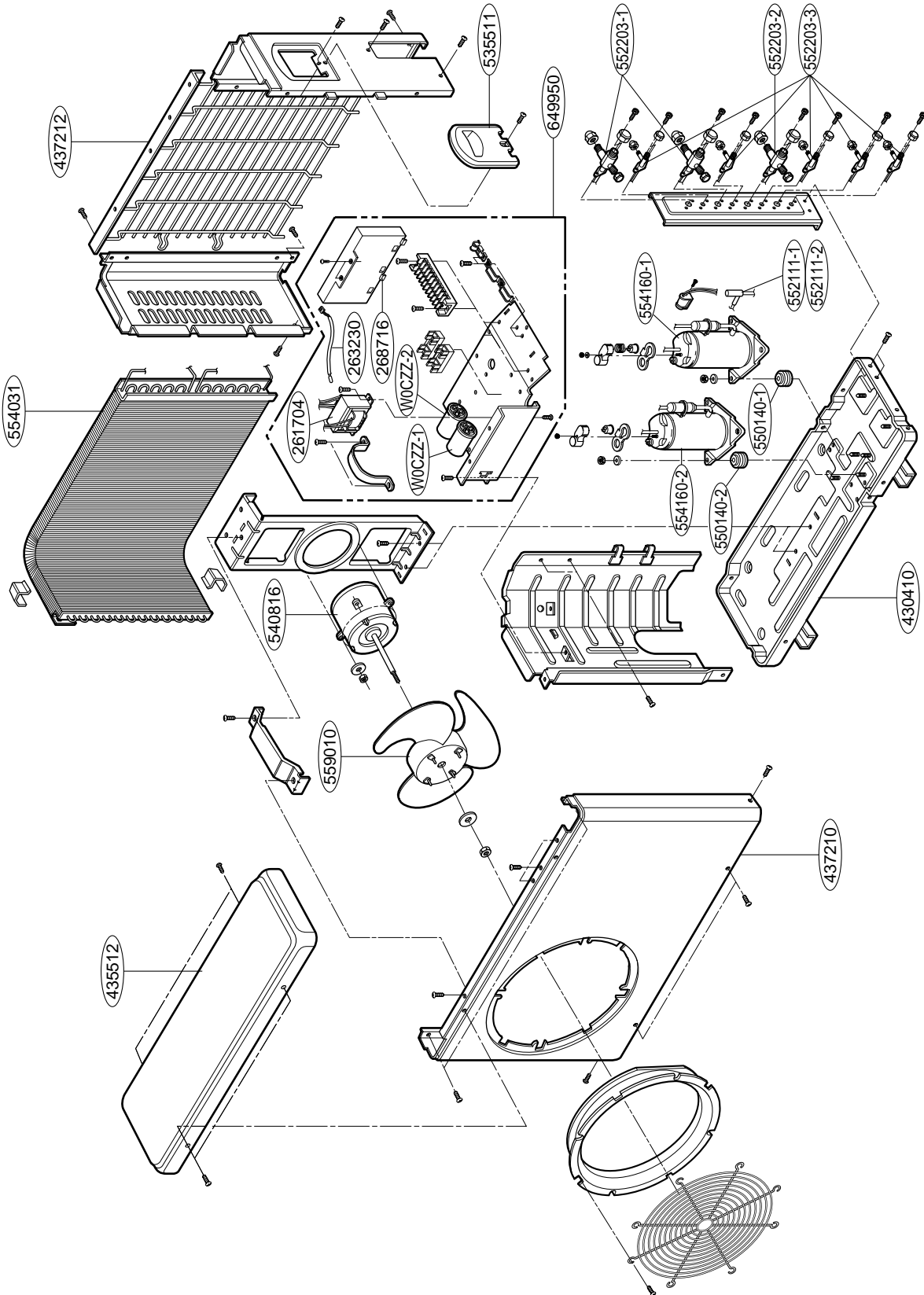
4. Outdoor Unit (LM-2561C3L)



Parts List(Outdoor Unit)**■ LM-2561C3L**

LOCATION NO	PART NO	DESCRIPTION	REMARKS
261704	6171AQ3198A	TRANSFORMER, POWER	R
268716	6871A20031N	PWB(PCB) ASSY, MAIN(OUTDOOR)	R
430410	3041AP2741H	BASE ASSY, OUTDOOR	R
435511	3551A30028C	COVER ASSY, CONTROL(OUTDOOR)	R
435512	3H03266K	COVER ASSY, TOP(OUTDOOR)	R
437210	3721A20004K	PANEL ASSY, FRONT SUB	R
437212	3720AP0003F	PANEL ASSY, REAR	R
447910	4791A30004C	BARRIER ASSY, OUTDOOR	R
546810	4681A20013A	MOTOR ASSY, OUTDOOR	R
550140-1	4984AR4361A	ISOLATOR, COMP	R
550140-2	4H00982E	ISOLATOR, COMP	R
552111-1	5211A10016A	TUBE ASSY, CAPILLARY	R
552111-2	5211A10030A	TUBE ASSY, CAPILLARY	R
552203-1	2A00393A	VALVE, SERVICE	R
552203-2	2A00393S	VALVE, SERVICE	R
552203-3	2H02479D	VALVE, SERVICE	R
554031	5403AP2740Y	CONDENSER ASSY, BENT	R
554160-1	2520UMLP2AA	COMPRESSOR SET	R
554160-2	2H02229X	COMPRESSOR ASSY, FINAL	R
559010	1A00195B	FAN ASSY, PROPELLER	R
649950	4995AP2886C	CONTROL BOX ASSY, OUTDOOR	R
W0CZZ-1	3A00988B	CAPACITOR	R
W0CZZ-2	6120AR2194F	CAPACITOR, DRAWING	R

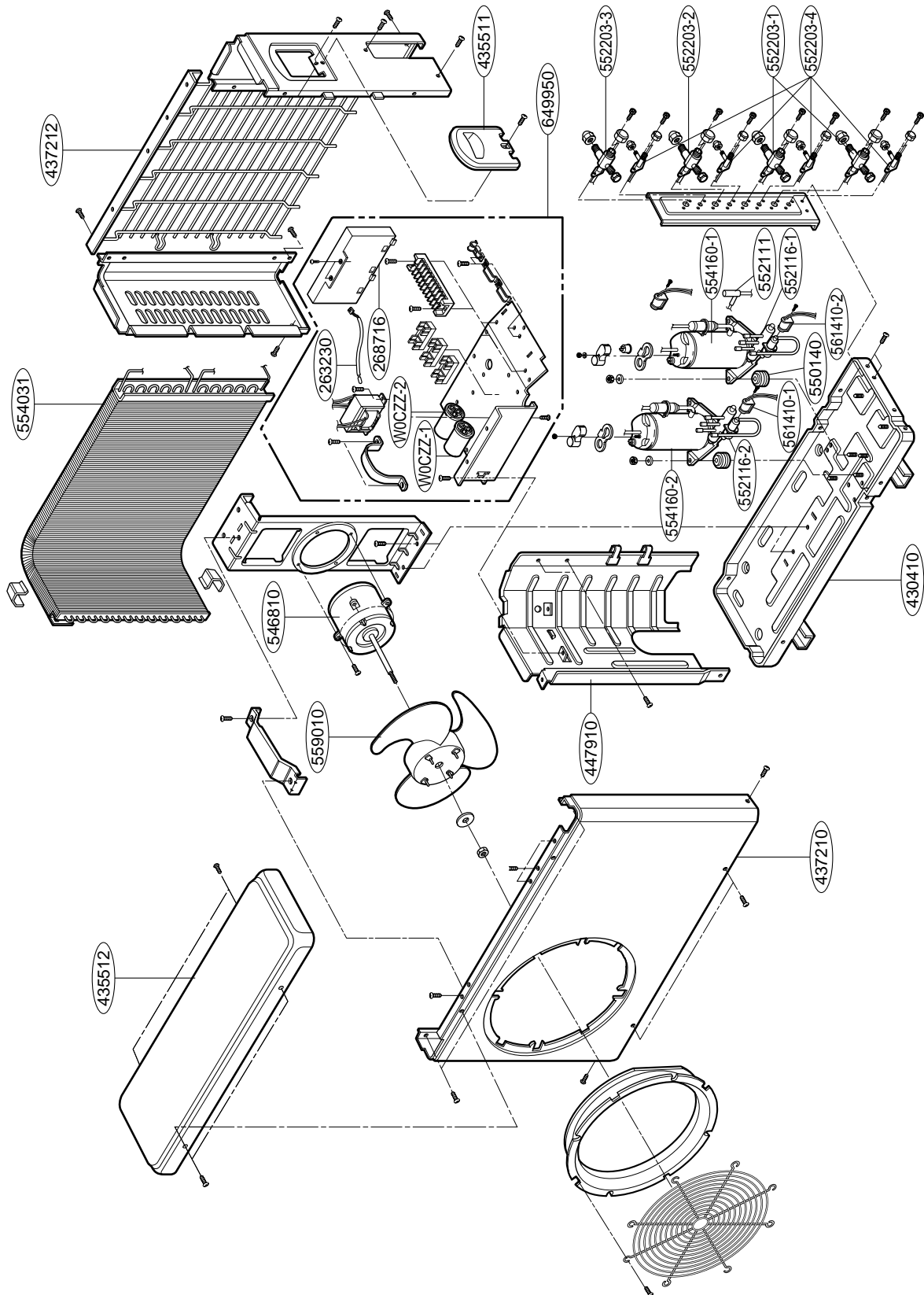
5. Outdoor Unit (LM-2860C5L)



Parts List(Outdoor Unit)**■ LM-2860C5L**

LOCATION NO	PART NO	DESCRIPTION	REMARKS
261704	6171AQ3198A	TRANSFORMER, POWER	R
263230	6323A20002A	THERMISTOR ASSY	R
268716	6871A20091A	PWB(PCB) ASSY, MAIN(OUTDOOR)	R
430410	3041AP2741H	BASE ASSY, OUTDOOR	R
435511	3551A30028K	COVER ASSY, CONTROL(OUTDOOR)	R
435512	3H03266H	COVER ASSY, TOP(OUTDOOR)	R
437210	1A00197C	PANEL ASSY, FRONT SUB	R
437212	1A00208D	GRILLE, REAR	R
447910	4791A30004D	BARRIER ASSY, OUTDOOR	R
546810	4681A20013A	MOTOR ASSY, OUTDOOR	R
550140-1	4984AR4361A	ISOLATOR, COMP	R
550140-2	4H00982E	ISOLATOR, COMP	R
552111-1	5211A10036A	TUBE ASSY, CAPILLARY	R
552111-2	5211A10037A	TUBE ASSY, CAPILLARY	R
552203-1	2A00393S	VALVE, SERVICE	R
552203-2	2H01890H	VALVE, SERVICE	R
552203-3	2H02479D	VALVE, SERVICE	R
554031	6140AP2096U	CONDENSER ASSY, BENT	R
554160-1	5416AR2760K	COMPRESSOR	R
554160-2	5416A20003L	COMPRESSOR	R
559010	1A00195B	FAN ASSY, PROPELLER	R
649950	4781AP2746K	CONTROL BOX ASSY, OUTDOOR	R
W0CZZ-1	3A00988B	CAPACITOR	R
W0CZZ-2	6120AR2194D	CAPACITOR, DRAWING	R

6. Outdoor Unit (LM-3060H4L/M)

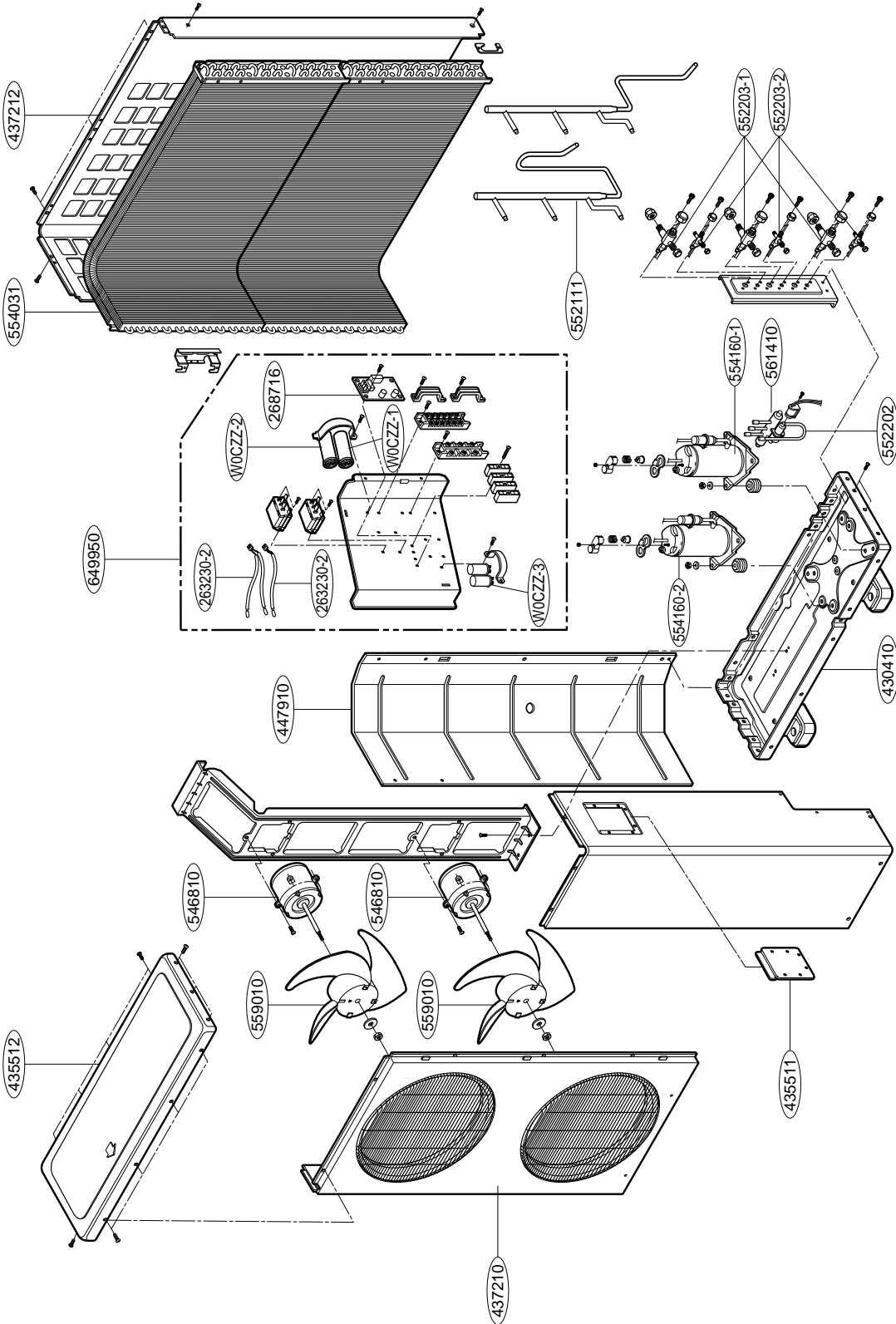


Parts List(Outdoor Unit)

■ LM-3060H4L/M

LOCATION NO	PART NO	DESCRIPTION	REMARKS
263230	66323A20002A	THERMISTOR ASSY	
268716	6871A20091B	PWB(PCB) ASSY, MAIN(OUTDOOR)	
430410	3041AP7177D	BASE ASSY, WELD[OUTDOOR]	
435511	3551A30028R	COVER ASSY, CONTROL(OUTDOOR)	
435512	3H03266H	COVER ASSY, TOP(OUTDOOR)	
437210	1A00197C	PANEL ASSY, FRONT SUB	
437212	1A00208D	GRILLE, REAR	
447910	4791A30004B	BARRIER ASSY, OUTDOOR	
546810	4681A20008N	MOTOR ASSY, OUTDOOR	
550140	4H00982E	ISOLATOR, COMP	
552111-1	5211A20278B	TUBE ASSY, CAPILLARY	
552111-2	5211A20279B	TUBE ASSY, CAPILLARY	
552116-1	5211A20269B	TUBE ASSY, REVERSING	
552116-2	5211A20270B	TUBE ASSY, REVERSING	
552202	3A02027A	VALVE, REVERSING	
552203-1	2A00393K	VALVE, SERVICE	
552203-2	2A00393S	VALVE, SERVICE	
552203-3	2H01890Q	VALVE, SERVICE	
552203-4	2H02479D	VALVE, SERVICE	
552560	5256A30003H	MUFFLER	
554031	6140AP2096W	CONDENSER ASSY, BENT	
554160-1	2520UMAP2DA	COMPRESSOR SET	
554160-2	5416AR1581C	COMPRESSOR	
559010	1A00195B	FAN ASSY, PROPELLER	
561410-1	6141AR3509A	COIL ASSY, REVERSING VALVE	
561410-2	6141AR3509B	COIL ASSY, REVERSING VALVE	
649950	4781AP2746P	CONTROL BOX ASSY, OUTDOOR	
W0CZZ	2A00986G	CAPACITOR, DRAWING	
W0CZZ	6120AR2194F	CAPACITOR, DRAWING	

7. Outdoor Unit (LM-4260H3L/M)



Parts List(Outdoor Unit)**■ LM-4260H3L/M**

LOCATION NO	PART NO	DESCRIPTION	REMARKS
263230-1	6323AQ2333P	THERMISTOR ASSY	
263230-2	6323AQ3214J	THERMISTOR ASSY	
268716	6871A20031X	PWB(PCB) ASSY, MAIN(OUTDOOR)	
430410	3041AP2569J	BASE ASSY, WELD[OUTDOOR]	
435511	3551A30009T	COVER ASSY, CONTROL(OUTDOOR)	
435512	3550AP1213B	COVER ASSY, TOP(OUTDOOR)	
437210	3720AP1212B	PANEL ASSY, FRONT SUB	
437212	3720AP1202F	PANEL ASSY, REAR	
447910	4760AP1216A	BARRIER, OUTDOOR	
546810	4681A20008N	MOTOR ASSY, OUTDOOR	
552111-1	5211A10117A	TUBE ASSY, CAPILLARY	
552111-2	5211A20261A	TUBE ASSY, CAPILLARY	
552111-3	5211A30375A	TUBE ASSY, CAPILLARY	
552201	3A01020H	VALVE, CHECK	
552202	3A02027B	VALVE, REVERSING	
552203-1	2H01890D	VALVE, SERVICE	
552203-2	2H02479D	VALVE, SERVICE	
552560	5257A20004A	MUFFLER ASSY	
554031-1	5403AP2378P	CONDENSER ASSY, BENT	
554031-2	5403AP2378R	CONDENSER ASSY, BENT	
554160-1	5416AR1581C	COMPRESSOR	
554160-2	5417A90002A	COMPRESSOR ASSY, FINAL	
559010	1A00195B	FAN ASSY, PROPELLER	
561410-1	6141AR3509B	COIL ASSY, REVERSING VALVE	
561410-2	6141AR3509C	COIL ASSY, REVERSING VALVE	
649950	4995A20047E	CONTROL BOX ASSY, OUTDOOR	
W0CZZ-1	2A00986S	CAPACITOR, DRAWING	
W0CZZ-2	2A00986W	CAPACITOR, DRAWING	
W0CZZ-3	3H00611R	CAPACITOR, DRAWING	

