

8-1. HOW TO CHECK THE PARTS

PCFY-P40VKM-E PCFY-P63VKM-E

PCFY-P40VKM-ER1

PCFY-P100VKM-E

PCFY-P100VKM-ER1

PCFY-P125VKM-E

PCFY-P125VKM-ER1

Parts name	Check points			
Room temperature thermistor (TH21) Liquid pipe thermistor (TH22) Gas pipe thermistor (TH23)	Disconnect the connector then measure the resistance with a tester. (At the ambient temperature of 10°C~30°C)			
	Normal	Abnormal	(Refer to Thermistor characteristic graph.)	
	4.3kΩ~9.6kΩ	Open or short		
Vane motor (MV)	Measure the resistance between the terminals with a tester. (At the ambient temperature of 20°C~30°C)			
	Connector	Normal	Abnormal	
	Red - Yellow			
	Red - Blue			
	Red - Orange	300Ω	Open or short	
	Red - White			
Drain pump (DP) (Option)	Measure the resistance between the terminals with a tester. (Winding temperature 20°C)			
	Normal	Abnormal		
	290Ω	Open or short		
Drain float switch (FS) (Option)	Measure the resistance between the terminals with a tester.			
	State of moving part	Normal	Abnormal	
	UP	Short	Other than short	
	DOWN	Open	Other than open	
Linear expansion valve (LEV)	Disconnect the connector then measure the resistance value with a tester.			
	Normal	Abnormal	Refer to 8-1-2.	
	White-Red	Yellow-Brown	Orange-Red	Blue-Brown
	200Ω ±10%			Open or short

8-1-1. Thermistor

<Thermistor characteristic graph>

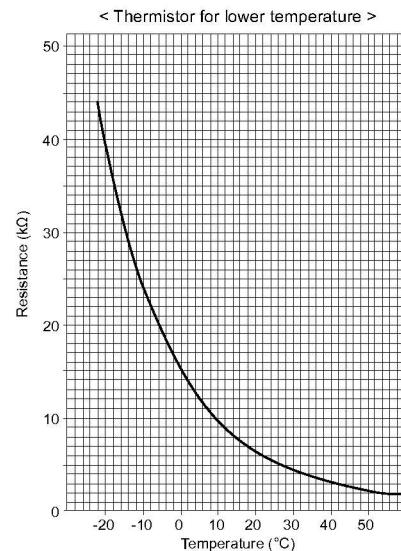
Thermistor for lower temperature

Room temperature thermistor (TH21)
Liquid pipe temperature thermistor (TH22)
Gas pipe temperature thermistor (TH23)

Thermistor $R_0=15\text{k}\Omega \pm 3\%$
Fixed number of $B=3480 \pm 2\%$

$$R_t = 15 \exp \left\{ 3480 \left(\frac{1}{273+t} - \frac{1}{273} \right) \right\}$$

0°C	15kΩ
10°C	9.6kΩ
20°C	6.3kΩ
25°C	5.4kΩ
30°C	4.3kΩ
40°C	3.0kΩ

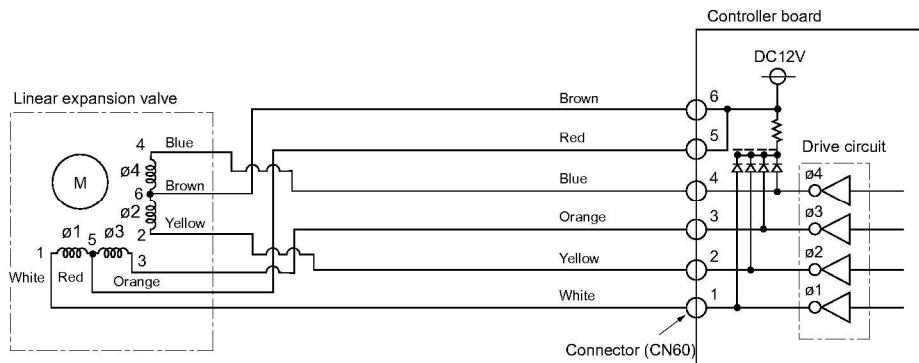


8-1-2. Linear expansion valve

① Operation summary of the linear expansion valve

- Linear expansion valves open/close through the use of a stepping motor after receiving the pulse signal from the indoor controller board.
- Valve position can be changed in proportion to the number of pulse signals.

<Connection between the indoor controller board and the linear expansion valve>

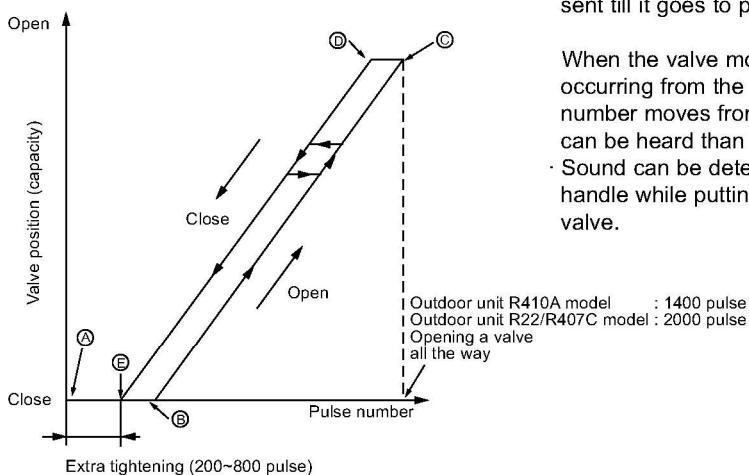


Note : Since the number of the connector at the controller board side and the relay connector are different, follow the color of the lead wire.

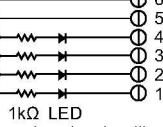
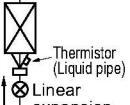
<Output pulse signal and the valve operation>

Output (Phase)	Output			
	1	2	3	4
$\phi 1$	ON	OFF	OFF	ON
$\phi 2$	ON	ON	OFF	OFF
$\phi 3$	OFF	ON	ON	OFF
$\phi 4$	OFF	OFF	ON	ON

② Linear expansion valve operation



③ Troubleshooting

Symptom	Check points	Countermeasures
Operation circuit failure of the micro processor	Disconnect the connector on the controller board, then connect LED for checking.  When power is turned on, pulse signals will output for 10 seconds. There must be some defects in the operation circuit if the LED does not light while the signals are output or keeps lighting even after the signals stop.	Exchange the indoor controller board at drive circuit failure.
Linear expansion valve mechanism is locked.	Motor will idle and make a ticking noise when the motor is operated while the linear expansion valve is locked. This ticking sound is the sign of the abnormality.	Exchange the linear expansion valve.
Short or breakage of the motor coil of the linear expansion valve	Measure the resistance between each coil (white-red, yellow-brown, orange-red, blue-brown) using a tester. It is normal if the resistance is in the range of $200\Omega \pm 10\%$.	Exchange the linear expansion valve.
Valve does not close completely.	To check the linear expansion valve, operate the indoor unit in fan mode and at the same time operate other indoor units in cooling mode, then check the pipe temperature <liquid pipe temperature> of the indoor unit by the outdoor multi controller board operation monitor. During fan operation, linear expansion valve is closed completely and if there is any leaking, detecting temperature of the thermistor will go lower. If the detected temperature is much lower than the temperature indicated in the remote controller, it means the valve is not closed all the way.  It is not necessary to exchange the linear expansion valve, if the leakage is small and not affecting normal operation.	If large amount of refrigerant is leaked, exchange the linear expansion valve.
Wrong connection of the connector or contact failure	Check the color of lead wire and missing terminal of the connector.	Disconnect the connector at the controller board, then check the continuity.

Closing a valve : 1 → 2 → 3 → 4 → 1
Opening a valve : 4 → 3 → 2 → 1 → 4
The output pulse shifts in above order.

Note:

- When linear expansion valve operation stops, all output phase become OFF.
- At phase interruption or when phase does not shift in order, motor does not rotate smoothly and motor will lock and vibrate.
- When the switch is turned on, 2200 pulse closing valve signal will be sent till it goes to point ④ in order to define the valve position.

When the valve moves smoothly, there is no sound or vibration occurring from the linear expansion valves, however, when the pulse number moves from ④ to ① or when the valve is locked, more sound can be heard than in a normal situation.

- Sound can be detected by placing the ear against the screw driver handle while putting the screw driver tip to the linear expansion valve.

8-1-3. DC Fan motor (fan motor/indoor controller circuit board)

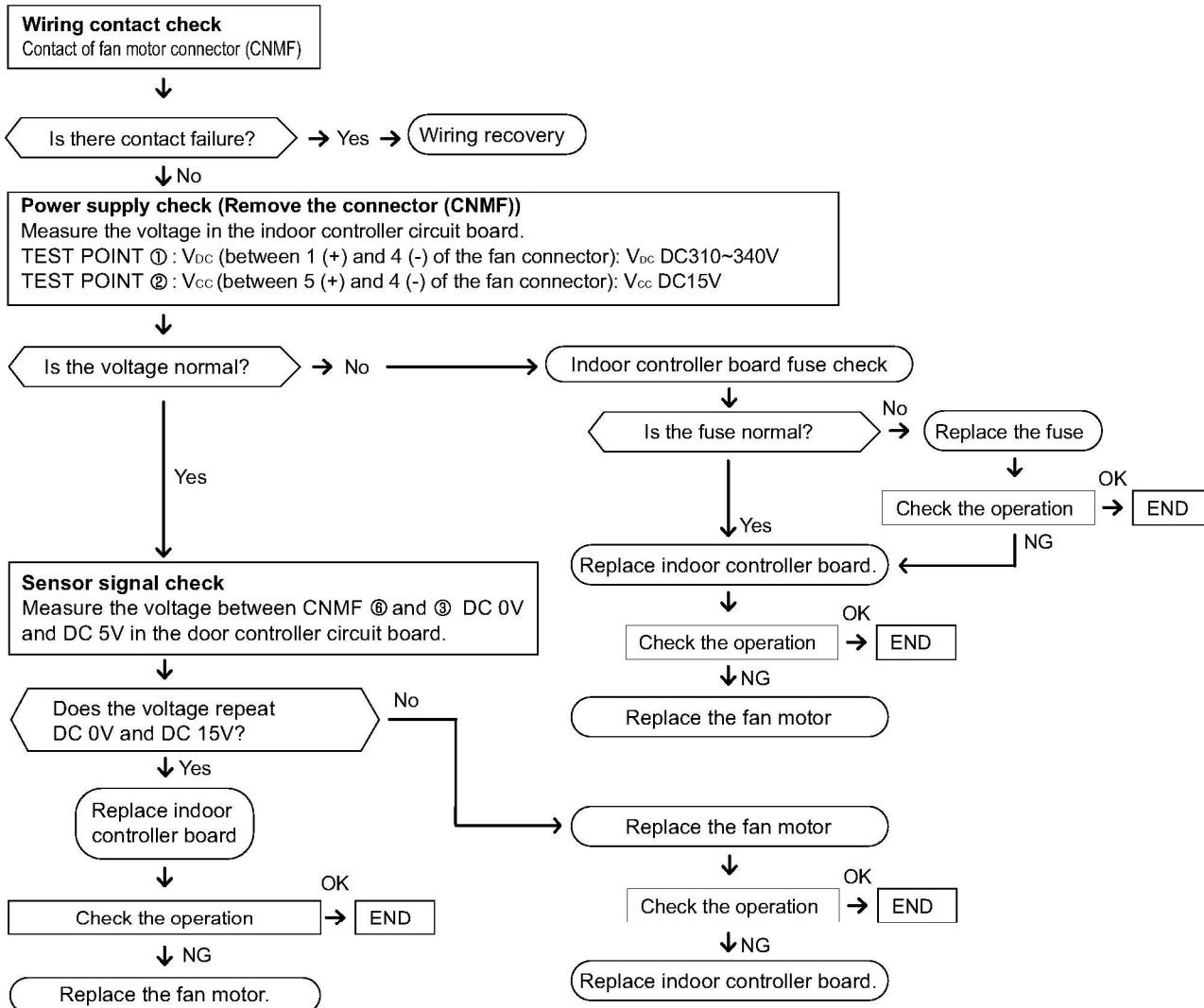
Check method of DC fan motor (fan motor/indoor controller circuit board)

① Notes

- High voltage is applied to the connector (CNMF) for the fan motor. Pay attention to the service.
- Do not pull out the connector (CNMF) for the motor with the power supply on.
(It causes trouble of the indoor controller circuit board and fan motor.)

② Self check

Symptom : The indoor fan cannot turn around.



8-2. FUNCTION OF DIP SWITCH

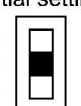
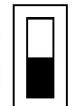
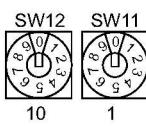
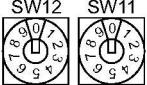
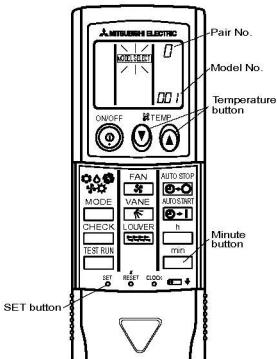
The black square (■) indicates a switch position.

Switch	Pole	Function	Operation by switch		Effective timing	Remarks															
			ON	OFF																	
SW1 Function setting	1	Thermistor <Room temperature detection> position	Built-in remote controller	Indoor unit	Under suspension	<div style="border: 1px solid black; padding: 5px;"> Address board <Initial setting> </div> <div style="margin-top: 5px;">Note : *1 Fan operation at heating mode *2 Thermo ON operation at heating mode *3 <table border="1" style="margin-left: 20px; border-collapse: collapse;"> <tr><td>SW1-7</td><td>SW1-8</td><td></td></tr> <tr><td>OFF</td><td>OFF</td><td>Extra low</td></tr> <tr><td>ON</td><td>OFF</td><td>Low</td></tr> <tr><td>OFF</td><td>ON</td><td>Setting airflow</td></tr> <tr><td>ON</td><td>ON</td><td>Stop</td></tr> </table> </div>	SW1-7	SW1-8		OFF	OFF	Extra low	ON	OFF	Low	OFF	ON	Setting airflow	ON	ON	Stop
SW1-7	SW1-8																				
OFF	OFF	Extra low																			
ON	OFF	Low																			
OFF	ON	Setting airflow																			
ON	ON	Stop																			
2	Filter clogging detection	Provided	Not provided																		
3	Filter cleaning	2,500 hr	100 hr																		
4	Fresh air intake	Effective	Not effective																		
5	Switching remote display	Thermo ON signal display	Indicating fan operation ON/OFF																		
6	Humidifier control	Always operated while the heat in ON *1	Operated depends on the condition *2																		
7	Airflow set in case of Heat thermo OFF at heating mode	Low *3	Extra low *3																		
8		Setting air flow *3	Depends on SW1-7																		
9	Auto restart function	Effective	Not effective																		
10	Power ON/OFF by breaker	Effective	Not effective																		
SW2 Capacity code setting	1~6	<table border="1" style="margin-left: 100px; border-collapse: collapse;"> <tr><td>Capacity</td><td>SW 2</td><td>Capacity</td><td>SW 2</td><td></td></tr> <tr><td>P40</td><td>ON </td><td>P63</td><td>ON </td><td></td></tr> <tr><td>P100</td><td>ON </td><td>P125</td><td>ON </td><td></td></tr> </table>				Capacity	SW 2	Capacity	SW 2		P40	ON	P63	ON		P100	ON	P125	ON		
Capacity	SW 2	Capacity	SW 2																		
P40	ON	P63	ON																		
P100	ON	P125	ON																		
SW3 Function setting	1	Heat pump/Cooling only	Cooling only	Heat pump	Under suspension	<div style="border: 1px solid black; padding: 5px;"> Indoor controller board Set while the unit is off. <Initial setting> </div> <div style="margin-top: 5px;">Set for each capacity.</div>															
	2	Louver	Available	Not available																	
	3	Vane	Available	Not available																	
	4	Vane swing function in heating (wave-flow)	Available	Not available																	
	5	Vane horizontal angle	Second setting *4	First setting *4																	
	6	Vane cooling limit angle setting	Horizontal	Setting A,B,C,D																	
	7	Changing the opening of linear expansion valve	Effective	Not effective																	
	8	4-deg up (Heating mode)	Not effective	Effective																	
	9	Superheat setting temperature *5	—	—																	
	10	Sub cool setting temperature *5	—	—																	
SW4 Model Selection	1~5	When replacing the indoor controller board, make sure to set the switch to the initial setting, which is shown below.																			

Note : *4 SW3-5

SW3-5	Vane setting	Initial setting	Setting	Vane position
OFF	Set up ①	●	Standard	Standard
ON	Set up ②		Less draft *	Upward position than the standard

The black square (■) indicates a switch position.

Switch	Pole	Operation by switch	Effective timing	Remarks																											
SWA Ceiling height selector	1~3	(High ceiling) 3 (Standard) 2 (Silent) 1  * Ceiling height can be changed depending on SWA setting. <table border="1" data-bbox="567 354 1024 460"> <tr> <th>SWA</th> <th>①</th> <th>②</th> <th>③</th> </tr> <tr> <td>Silent</td> <td>Standard</td> <td>High ceiling</td> <td></td> </tr> <tr> <td>P40, P63</td> <td>2.5m</td> <td>2.7m</td> <td>3.5m</td> </tr> <tr> <td>P100, P125</td> <td>2.6m</td> <td>3.0m</td> <td>4.2m</td> </tr> </table>	SWA	①	②	③	Silent	Standard	High ceiling		P40, P63	2.5m	2.7m	3.5m	P100, P125	2.6m	3.0m	4.2m	Under operation or suspension	Address board <Initial setting> 											
SWA	①	②	③																												
Silent	Standard	High ceiling																													
P40, P63	2.5m	2.7m	3.5m																												
P100, P125	2.6m	3.0m	4.2m																												
SWC Option selector	2	② オプ (Option) ① 標 (Standard)  * In this model it is not necessary to change SWC to ②.	Under operation or suspension	Address board <Initial setting> 																											
SW11 1s digit address setting SW12 10ths digit address setting	Rotary switch	 How to set address Example : If address is "3", remain SW12 (for over 10) at "0", and match SW11 (for 1 to 9) with "3".	Before power supply ON	Address board Address can be set while the unit is stopped. <Initial setting> 																											
SW14 Branch No. setting	Rotary switch	 How to set branch number SW14 (Series R2 only) Match the indoor unit's refrigerant pipe with the BC controller's end connection number Remain other than series R2 at "0".	Before power supply ON	Address board <Initial setting> 																											
J41, J42 Wireless remote controller Pair No.	Jumper	<ul style="list-style-type: none"> To operate each indoor unit by each remote controller when installed 2 indoor units or more are near, Pair No. setting is necessary. ① Pair No. setting is available with the 4 patterns (Setting patterns A to D). ② Make setting for J41, J42 of indoor controller board and the Pair No. of wireless remote controller. <p>You may not set it when operating it by 1 remote controller.</p> <p>① Setting for indoor unit Jumper wire J41, J42 on the indoor controller board are cut according to the table below.</p> <p>② Wireless remote controller pair number: Setting operation</p> <ol style="list-style-type: none"> Press the SET button (using a pointed implement). Check that the remote controller's display has stopped before continuing. MODEL SELECT flashes, and the model No. (3 digits) appears (steadily-lit). Press the MINUTE button twice. The pair number appears flashing. Press the temperature ① ② buttons to select the pair number to set. Press the SET button (using a pointed implement). The set pair number is displayed (steadily-lit) for 3 seconds, then disappears. <table border="1" data-bbox="328 1564 980 1755"> <thead> <tr> <th rowspan="2">Setting pattern</th> <th colspan="2">Indoor controller Jumper wire</th> <th rowspan="2">Pair No. of wireless remote controller *</th> <th rowspan="2">Factory setting</th> </tr> <tr> <th>J41</th> <th>J42</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>—</td> <td>—</td> <td>0</td> <td>Factory setting</td> </tr> <tr> <td>B</td> <td>Cut</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>C</td> <td>—</td> <td>Cut</td> <td>2</td> <td>—</td> </tr> <tr> <td>D</td> <td>Cut</td> <td>Cut</td> <td>3</td> <td>—</td> </tr> </tbody> </table> <p>* Pair No. 4-9 of wireless remote controller is setting pattern D.</p>	Setting pattern	Indoor controller Jumper wire		Pair No. of wireless remote controller *	Factory setting	J41	J42	A	—	—	0	Factory setting	B	Cut	—	1	—	C	—	Cut	2	—	D	Cut	Cut	3	—	Under operation or suspension	<Initial setting> Pattern A 
Setting pattern	Indoor controller Jumper wire			Pair No. of wireless remote controller *	Factory setting																										
	J41	J42																													
A	—	—	0	Factory setting																											
B	Cut	—	1	—																											
C	—	Cut	2	—																											
D	Cut	Cut	3	—																											
SWE Test run for Drain pump (Option)	Connector	Drain pump and fan are activated simultaneously after the connector SWE is set to ON and turn on the power.  →  The connector SWE is set to OFF after test run.	Under operation	<Initial setting> 																											

8-3. TEST POINT DIAGRAM

8-3-1. Indoor controller board

PCFY-P40VKM-E

CN60
Linear expansion valve (LEV)
output
12VDC pulse output

CN52
Remote indicator
①-②: Status lamp 12VDC (① : +)
Fan motor output (SW1-5 OFF)
Thermostat ON (SW1-5 ON)
①-③: Cooling/Dry status lamp
12VDC (① : +)
①-④: Heating status lamp
12VDC (① : +)

CN51
Centrally control
①-② : Control signal
12VDC pulse input (① : +)
③-④ : Operation indicator
12VDC (③ : +)
③-⑤ : Malfunction indicator
12VDC (③ : +)

CN44
Pipe temperature thermistor
①-② : Liquid (TH22)
③-④ : Gas (TH23)

CN4F
Drain float switch (FS)

CN20
Room temperature
thermistor (TH21)

CN27
Damper signal output
12VDC (① : +)

CN90
Connect to the wireless
remote controller board
(W.B.)

LED1
Main power supply
(Indoor unit : 220-240V)

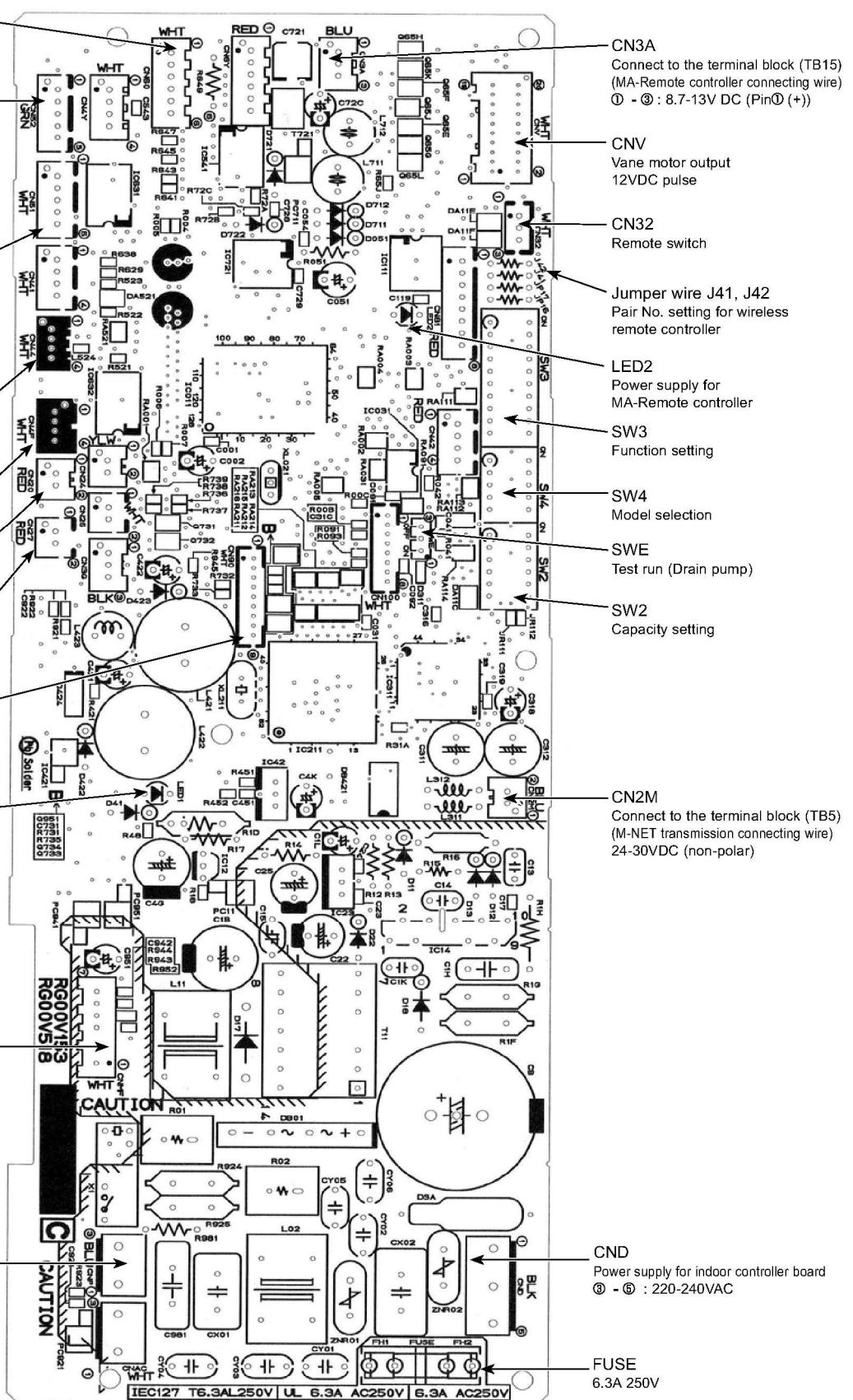
CNMF
Connect to the
fan motor (MF)
①-④ : DC310~340V
⑤-④ : DC15V
⑥-④ : DC0~6V
⑦-④ : DC0 or DC15V

CNP
Drain pump output (DP)
①-③ : 220-240VAC

PCFY-P63VKM-E

PCFY-P100VKM-E

PCFY-P125VKM-E

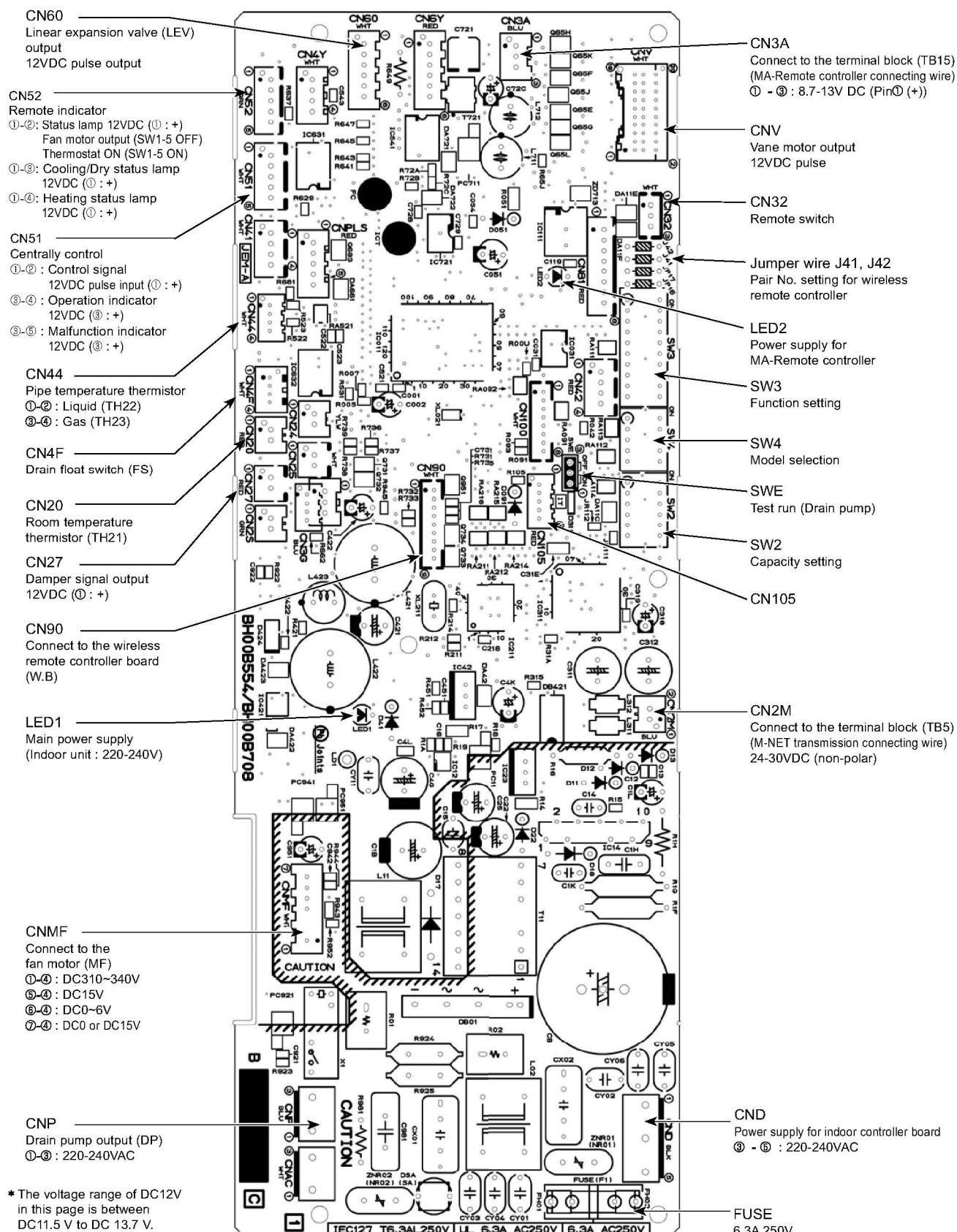


PCFY-P40VKM-ER1

PCFY-P63VKM-ER1

PCFY-P100VKM-ER1

PCFY-P125VKM-ER1



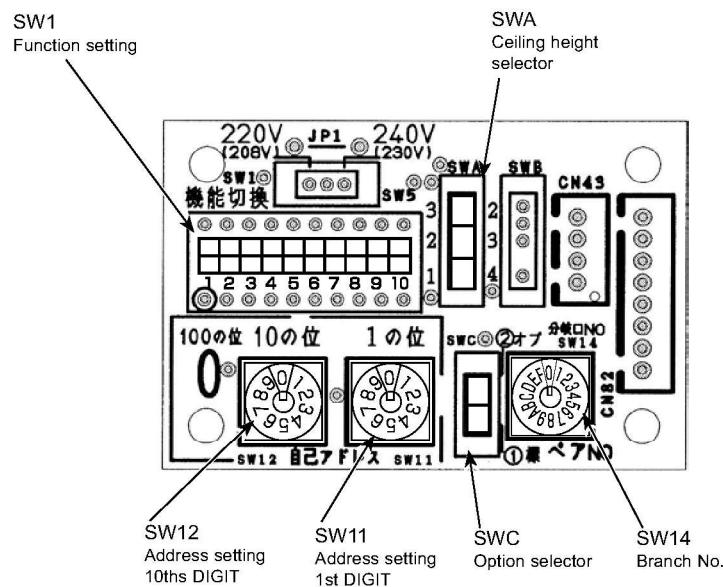
8-3-2. Address board

PCFY-P40VKM-E
PCFY-P40VKM-ER1

PCFY-P63VKM-E
PCFY-P63VKM-ER1

PCFY-P100VKM-E
PCFY-P100VKM-ER1

PCFY-P125VKM-E
PCFY-P125VKM-ER1



**PCFY-P40VKM-E
PCFY-P40VKM-ER1**

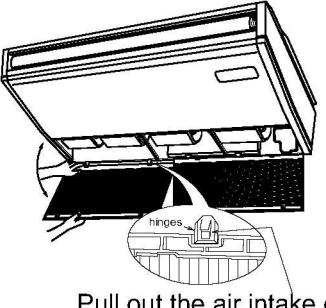
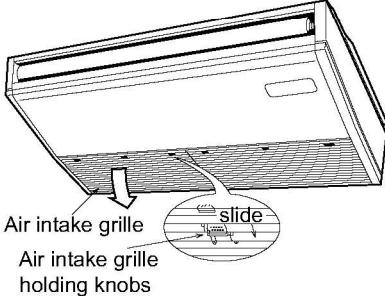
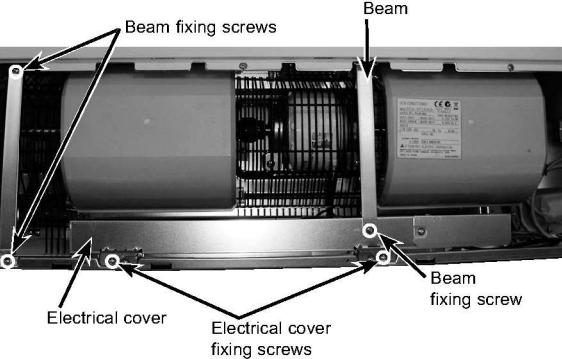
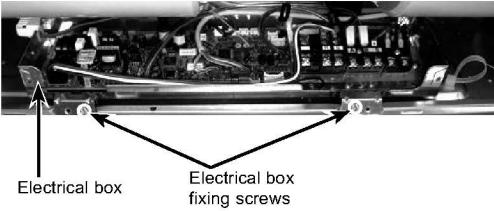
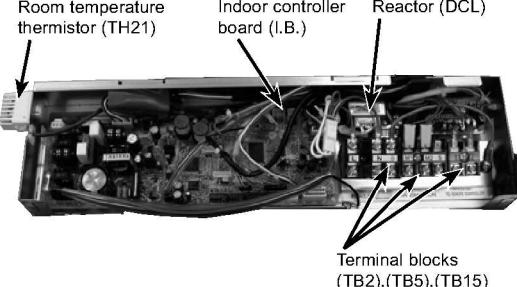
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PCFY-P63VKM-ER1**

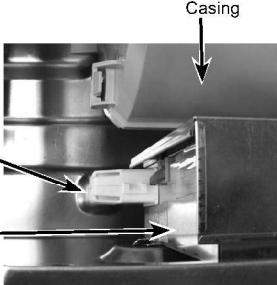
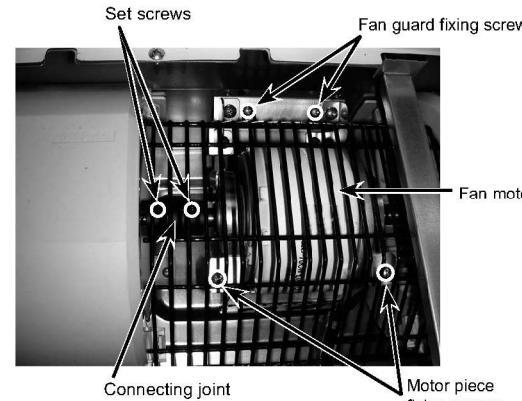
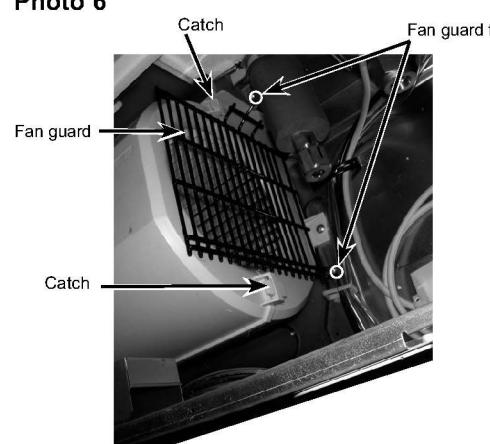
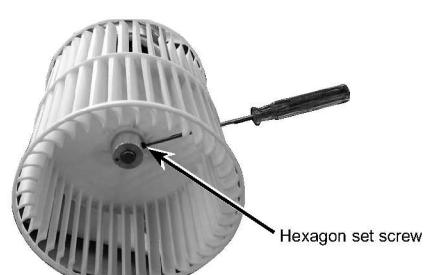
**PCFY-P100VKM-E
PCFY-P100VKM-ER1**

**PCFY-P125VKM-E
PCFY-P125VKM-ER1**

Be careful when removing heavy parts.

(Photo: PCFY-P125VKM-E)

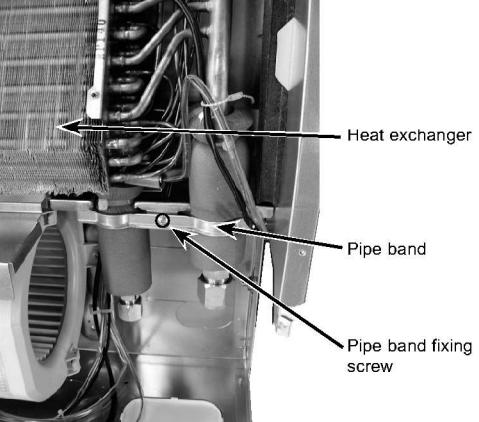
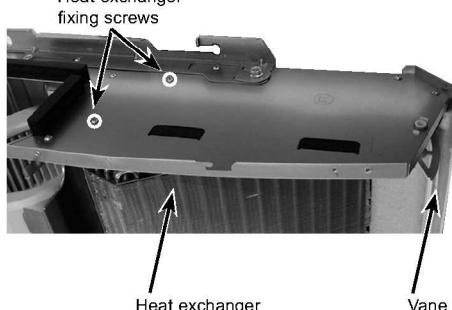
OPERATING PROCEDURE	PHOTOS & ILLUSTRATIONS
<p>1. Removing the air intake grille</p> <p>(1) Slide the air intake grille holding knobs (at 2 or 3 locations) to the rear to open the air intake grille. (See Figure 1)</p> <p>(2) While the air intake grille left open, push the stoppers on the rear hinges (at 2 or 3 locations) to pull out the air intake grille. (See Figure 2)</p> <p>Figure 2</p> 	<p>Figure 1</p> 
<p>2. Removing the indoor controller board and the electrical box</p> <p>(1) Remove the air intake grille. (See Figure 1,2)</p> <p>(2) Remove the screw from the beam and remove the beam. (See Photo 1)</p> <p>(3) Remove 2 screws from the electrical cover, and remove the electrical cover.</p> <p>(4) Remove 2 screws from the electrical box and pull the electrical box downward.</p> <p>Temporarily secure the electrical box using 2 hooks in the back of electrical box.</p> <p>(5) Disconnect the connectors on the indoor controller board.</p> <p>[Removing the electrical box]</p> <p>(6) Disconnect the wires from the terminal blocks and pull out the electrical box. (See Photo 2)</p> <p>[Removing the indoor controller board]</p> <p>(6) Remove the 6 supports from the indoor controller board and remove the indoor controller board. (See Photo 3)</p>	<p>Photo 1</p>  <p>Photo 2</p>  <p>Photo 3</p> 

OPERATING PROCEDURE	PHOTOS & ILLUSTRATIONS
<p>3. Removing the room temperature thermistor (TH21)</p> <ol style="list-style-type: none"> (1) Remove the air intake grille. (See Figure 1, 2) (2) Remove the screw from the beam and remove the beam. (See Photo 1) (3) Remove 2 screws from the electrical cover, and remove the electrical cover. (4) Remove 2 screws from the electrical box and pull the electrical box downward. Temporarily secure the electrical box using 2 hooks in the back of electrical box. (5) Disconnect the connector CN20 (red) from the indoor controller board. (6) Remove the sensor holder from the electrical box and remove the thermistor form the holder. 	<p>Photo 4</p> 
<p>4. Removing the fan motor and right side fan</p> <ol style="list-style-type: none"> (1) Remove the air intake grille. (See Figure 1, 2) (2) Remove the screw from the beam and remove the beam. (See Photo 1) (3) Remove 2 screws from the electrical cover, and remove the electrical cover. (4) Remove 2 screws from the electrical box and pull the electrical box downward. (5) Temporarily secure the electrical box using 2 hooks in the back of electrical box. (6) Remove 4 screws fixing fan guard of the fan motor. (2 screws : See Photo 5 / 2 screws : Upper the electrical box) (7) Remove 2 screws fixing fan guard of piping side and remove the fan guard. (See Photo 6) (8) Remove the lower casing while pressing the 4 catches of the casing (right side of the fan motor). (9) Loosen the 2 set screws (2 hexagon set screws) of connecting joint and slide the fan motor to the left. (See Photo 5) (10) Remove the motor piece (left and right, each 1 screw). (See Photo 5) (11) Remove the fan motor and right side fan together. (12) Loosen the set screw (hexagon set screw) of fan and remove the fan from the shaft. (See Photo 7, 8) 	<p>Photo 5</p>  <p>Photo 6</p>  <p>Photo 8</p> 

OPERATING PROCEDURE	PHOTOS & ILLUSTRATIONS
<p>5. Removing the fan (3 connection)</p> <p>(1) Remove the air intake grille. (See Figure 1, 2) (2) Remove the screw from the beam and remove the beam. (See Photo 1) (3) Remove 2 screws from the electrical cover, and remove the electrical cover. (4) Remove 2 screws from the electrical box and pull the electrical box downward. Temporarily secure the electrical box using 2 hooks in the back of electrical box. (5) Remove 4 screws from the fan guard of the fan motor. (See Photo 5) (6) Remove 2 screws from the left side beam and remove the beam. (See Photo 1) (7) Remove the 3 screws from center fan guard and remove the fan guard. (2 screws : See Photo 9 / 1 screw : Drain pan side) (8) Remove 2 screws from the left fan guard and remove the fan guard. (See Photo 10) (9) Loosen 2 set screws (2 hexagon set screws) of connecting joint. (See Photo 5) (10) Remove 3 lower casings while pressing each 4 catches of the casing. (11) Remove the 4 screws from the bearing support. (See Photo 11) (12) Slide the connecting joint to the left and remove the fans and shaft together. (See Photo 12) (13) Remove the fan from the shaft. (See Photo 7, 8)</p>	<p>Photo 9</p> <p>Photo 10</p>
<p>Photo 12</p>	<p>Photo 11</p>
<p>6. Removing the side panel</p> <p>(1) Remove the air intake grille. (See Figure 1, 2) (2) Remove the screw from the side panel, and remove the side panel by sliding the panel to the front.</p>	<p>Figure 3</p>

OPERATING PROCEDURE	PHOTOS & ILLUSTRATIONS
<p>7. Removing the vane motor</p> <ul style="list-style-type: none"> (1) Remove the air intake. (See Figure 1, 2) (2) Remove the right side panel. (See Figure 3) (3) Remove the connector of vane motor. (4) Remove 2 screws of vane motor cover , then remove vane motor. 	<p>Photo 13</p>
<p>8. Removing the under panel</p> <ul style="list-style-type: none"> (1) Remove the air intake grille. (See Figure 1, 2) (2) Remove the left and right side panels. (See Figure 3) (3) Remove the beam. (See Photo 1) (4) Remove the electrical cover. (See Photo 1) (5) Pull the electrical box downward. (See Photo 2) (6) (Wireless remote controller receiver type only) Disconnect the connector CNB from the PCB for wireless remote controller and remove the clamp and strap for wires. (7) Remove 8 screws from the under panel. (8) Move the under panel forward by about 10mm and remove the under panel. 	<p>Photo 14</p>
<p>9. Removing the drain pan</p> <ul style="list-style-type: none"> (1) Remove the air intake grille. (See Figure 1, 2) (2) Remove the side panel (right and left). (See Figure 3) (3) Remove the under panel. (See Photo 14) Remove the screws of the right and left side drain pan. (See Photo 15) (4) Remove 2 insulation in center of the drain pan, and after removing 2 screws with washer, remove the drain pan. (See Photo 16, 17) <p>(Note) Please be aware that there might be some drainage left in the drain pan when you remove the drain pan.</p>	<p>Photo 15</p> <p>Photo 16</p>
<p>Photo 17</p>	

OPERATING PROCEDURE	PHOTOS & ILLUSTRATIONS
<p>10. Removing the pipe thermistors / Liquid (TH22) and Gas (TH23)</p> <ol style="list-style-type: none"> (1) Remove the air intake grille. (See Figure 1, 2) (2) Remove the left and right side panels. (See Figure 3) (3) Remove the under panel. (See Photo 14) (4) Remove the drain pan. (See Photo 15, 16, 17) (5) Disconnect the connector CN44 (white) from the indoor controller board. (6) Remove 6 screws from the pipe cover and remove the pipe cover. (See Photo 15, 18) (7) Remove the fastener for wires and remove the thermistors (liquid and gas) from each holder. (See Photo 19) 	<p>Photo 18</p> <p>Photo 19</p>
<p>11. Removing the guide vane</p> <ol style="list-style-type: none"> (1) Remove the intake grille. (See Figure 1, 2) (2) Remove the side panel (right and left). (See Figure 3) (3) Remove the under panel. (See Photo 14) (4) Remove the drain pan. (See Photo 15, 16, 17) (5) Remove the screw from the guide vane, then remove the guide vane. 	<p>Photo 20</p>
<p>12. Removing the Auto vane</p> <ol style="list-style-type: none"> (1) Remove the intake grille. (See Figure 1, 2) (2) Remove the right side panel. (See Figure 3) (3) Remove the vane motor and cover. (See Photo 13) (4) Slide the auto vane to the vane motor side. (5) Remove 2 axes from each vane support pushing the vane support to the vane sleeve side. 	<p>Photo 21</p>

OPERATING PROCEDURE	PHOTOS & ILLUSTRATIONS
<p>13. Removing the heat exchanger and LEV</p> <p>(1) Remove the air intake grille. (See Figure 1, 2) (2) Remove the beam. (See Photo 1) (3) Remove the electrical cover. (See Photo 1) (4) Pull the electrical box downward. (See Photo 2) (5) Disconnect the connector CN60 (white) from the indoor controller board. (6) Remove the left and right side panels. (See Figure 3) (7) Remove the under panel. (See Photo 14) (8) Remove the drain pan. (See Photo 15, 16, 17) (9) Remove the pipe cover. (See Photo 18) (10) Remove the pipe thermistors (TH22 and TH23) from each holder. (See Photo 19) (11) Remove the pipe band fixing screw and remove the pipe band. (See Photo 22) (12) Remove 2 screws from the heat exchanger and remove the heat exchanger with LEV.</p>	<p>Photo 22</p>  <p>Photo 23</p> 

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