



Si091659E

# REMOVAL PROCEDURE



S E R V I C E M A N U A L

## 9000/12000/18000 Btu/h



Indoor Unit



Inverter



Ceiling Mounted Cassette  
Type (Single Flow)



# **Service Manual Removal Procedure**

## **Indoor Unit**

### **●Heat Pump**

**CCXS09PVM**

**CCXS12PVM**

**CCXS18PVM**

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**Note:** ♦ The illustrations may be slightly different depending on the model.

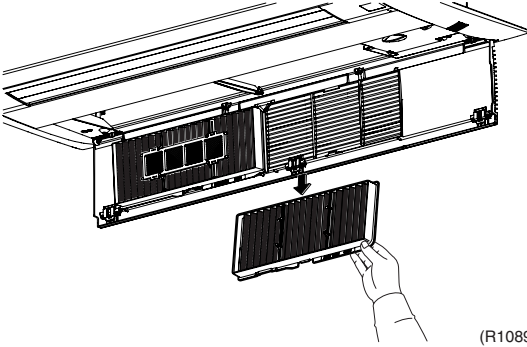
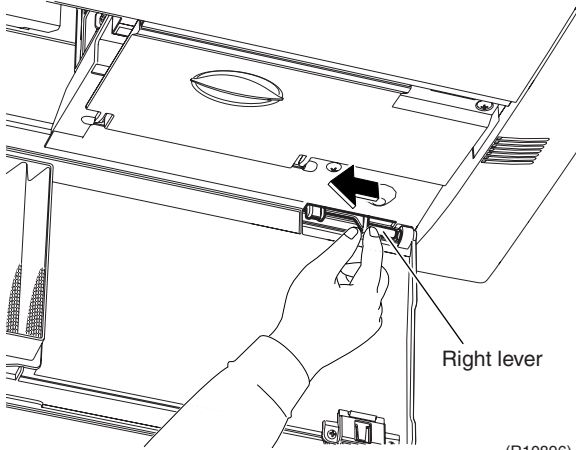
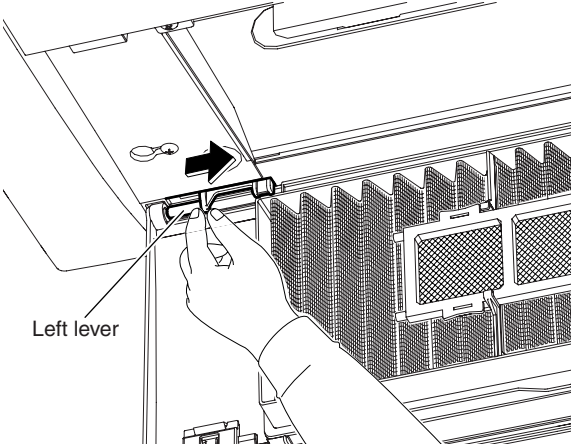
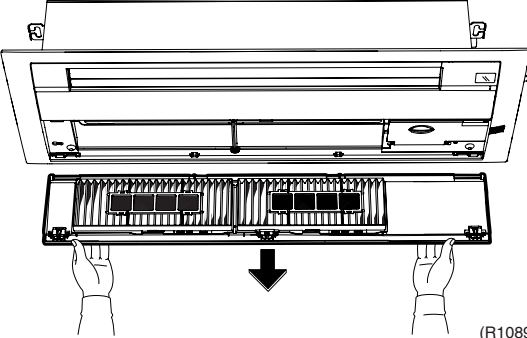
# 1. Air Filters / Front Grille



**Warning**

◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Remove the air filters.		
1	Unfasten the 3 hooks of the front grille.	
	<p>Front grille</p> <p>(R10891)</p>	
2	Open the front grille.	
	<p>Front grille</p> <p>(R10892)</p>	
3	Unfasten the 4 hooks and remove the Titanium apatite photocatalytic air-purifying filter.	
	<p>Hook</p> <p>Hook</p> <p>Titanium apatite photocatalytic air-purifying filter</p> <p>(R10893)</p>	
4	Unfasten the hook at the center of the air filter.	
	<p>Air filter</p> <p>(R10894)</p>	

Step	Procedure	Points
5	Remove the air filter.	
6	Remove the other air filter in the same way.	
 <p style="text-align: right;">(R10895)</p>		<ul style="list-style-type: none"> <li>■ Do not completely open the front grille. The shaft may become stuck if the front grille is opened too widely.</li> <li>■ The front grille can be removed without removing air filters.</li> </ul>
<p>2. Remove the front grille.</p> <p>1 Slide the right and left levers toward the inside while holding the front grille with one hand.</p>		 <p style="text-align: right;">(R10896)</p>  <p style="text-align: right;">(R10897)</p>
2	Pull down slightly and remove the front grille.	 <p style="text-align: right;">(R10898)</p>

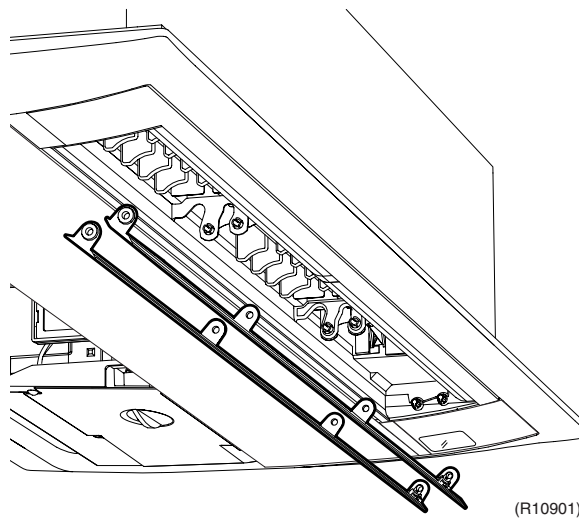
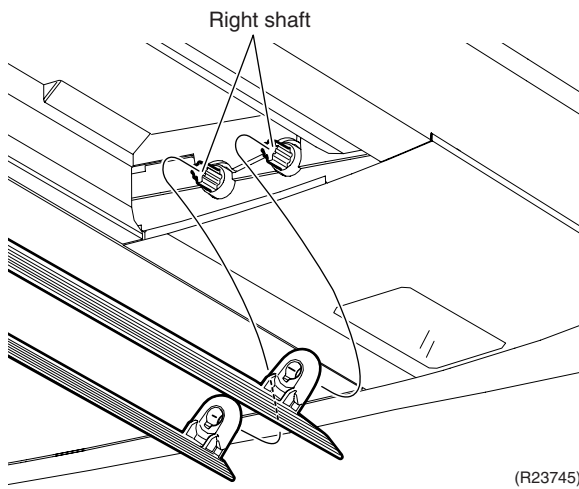
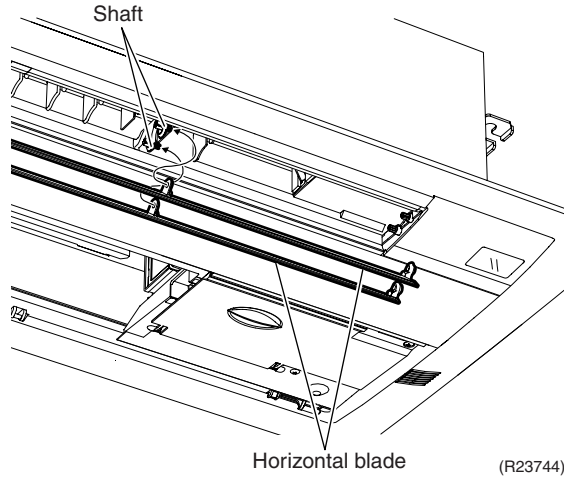
## 2. Horizontal Blades



**Warning**

♦ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

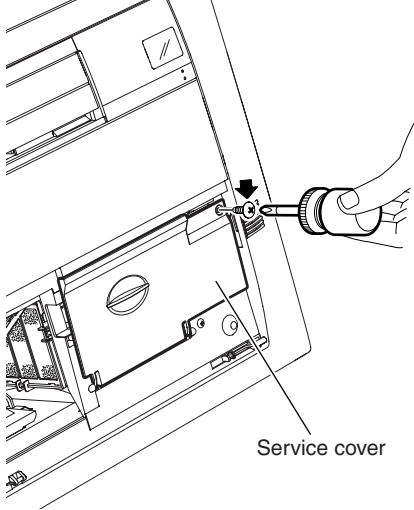
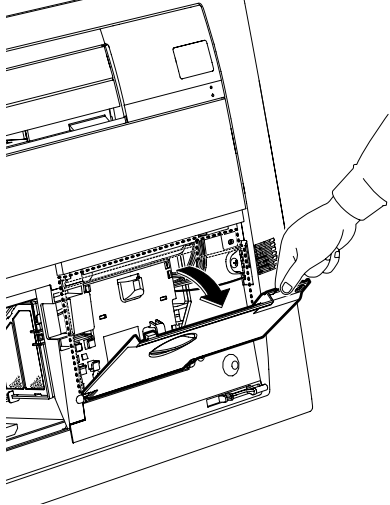
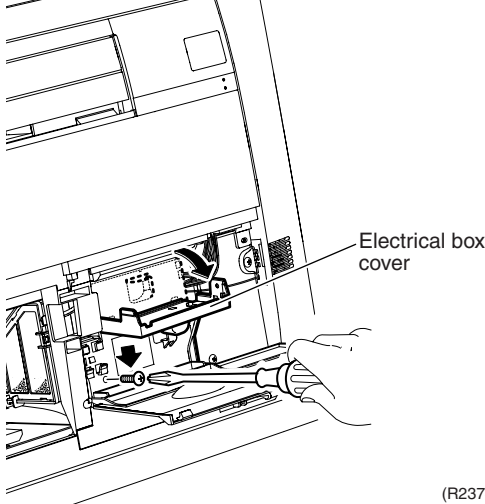
Step	Procedure	Points
1	Open the horizontal blades.	
2	Bend the horizontal blades and release the 2 center shafts for each blade.	
3	Release the left and right shafts for each blade.	<p>■ Installation procedure</p> <ol style="list-style-type: none"> <li>1. Fit the horizontal blade to the right shaft first. Make sure to rotate the horizontal blade so the shaft fits correctly.</li> <li>2. Fit the horizontal blade to the center and left shafts.</li> </ol>

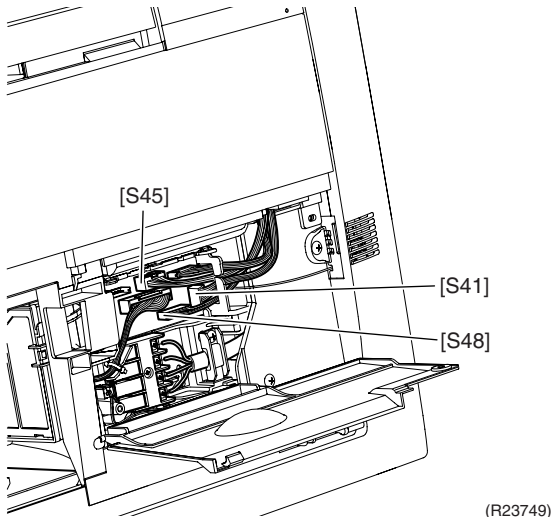
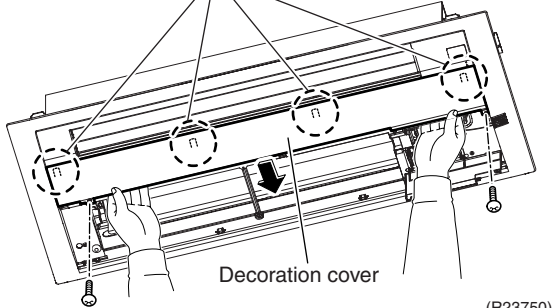


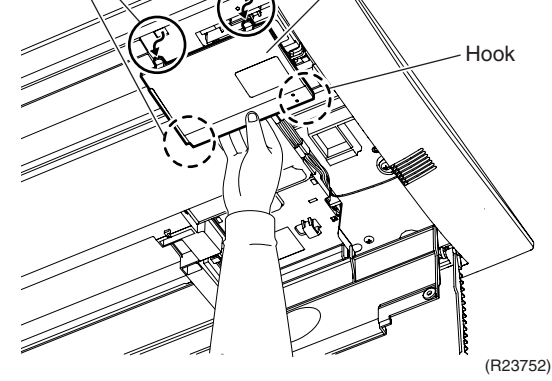
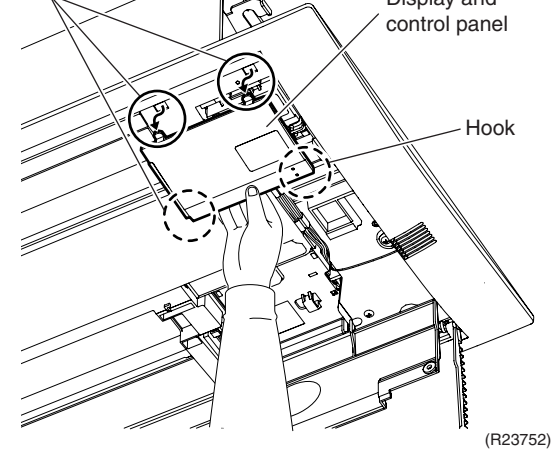


### 3. Decoration Panel ASSY


**Warning**

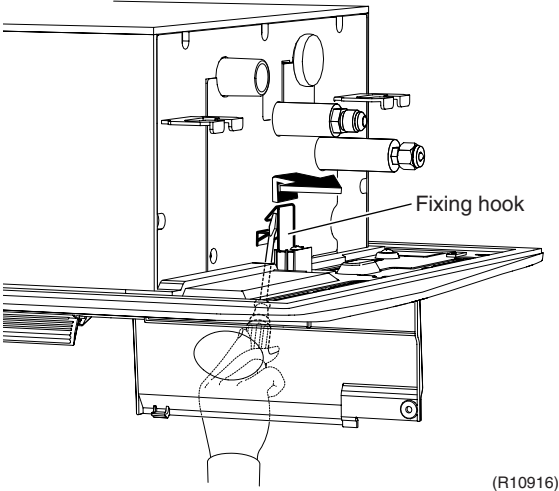
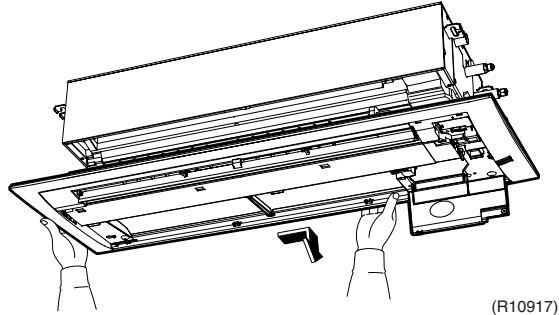
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Release the harnesses.	 <p style="text-align: right;">Service cover (R23746)</p>	
2. Open the service cover.	 <p style="text-align: right;">(R23747)</p>	
3. Remove the screw of the electrical box cover.	 <p style="text-align: right;">Electrical box cover (R23748)</p>	

Step	Procedure	Points	
4	<p>Disconnect each connector and release the harnesses.</p>		<p>[S41]: sensor PCB (Room temperature thermistor)                  [S45]: swing motors                  [S48]: display/signal receiver PCB</p>
2.	<p>Remove the decoration cover.</p>	<p>■ The screw on the right side runs through the service cover.</p>	
1	<p>Remove the 2 screws of the decoration cover.</p>		<p>■ The screw on the right side runs through the service cover.</p>
2	<p>Slide the decoration cover horizontally to release the 4 hooks.</p>		
3	<p>Slide the decoration cover to release the 2 hooks on the left.</p>		
4	<p>Remove the decoration cover.</p>		
3.	<p>Remove the display and control panel.</p>	<p>■ You can remove the signal receiver unit without removing the decoration panel ASSY.</p>	
1	<p>Unfasten the 4 hooks of the display and control panel.</p>		<p>■ You can remove the signal receiver unit without removing the decoration panel ASSY.</p>



Step	Procedure	Points
4. Remove the decoration panel.	<div data-bbox="512 232 1050 510"> <p>Horizontal blade</p> <p>Left Center Right</p> <p>(R23753)</p> </div> <div data-bbox="512 600 1066 958"> <p>Center</p> <p>Screw cover</p> <p>(R23754)</p> </div> <div data-bbox="512 1032 922 1509"> <p>Left</p> <p>(R23755)</p> </div> <div data-bbox="512 1581 1066 2033"> <p>Right</p> <p>Service cover</p> <p>(R23756)</p> </div>	<p>■ Loosen the screws until they come out about 25 ~ 30mm.</p>

Step	Procedure	Points
5	Insert a flat screwdriver into the decoration panel ASSY fixing hook, and then release the fixing hook.	
	 <p>(R10916)</p>	
6	Slide the decoration panel ASSY to the right to remove.	
	 <p>(R10917)</p>	

## 4. Air Outlet ASSY



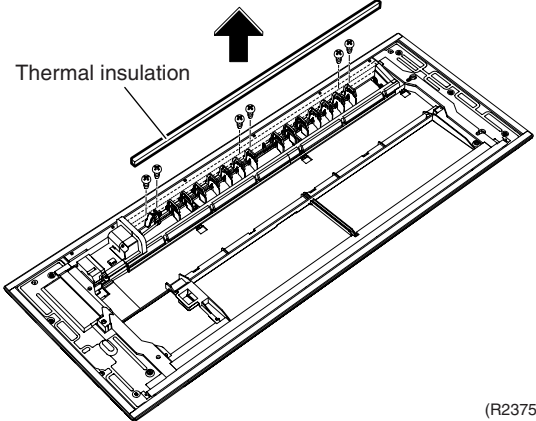
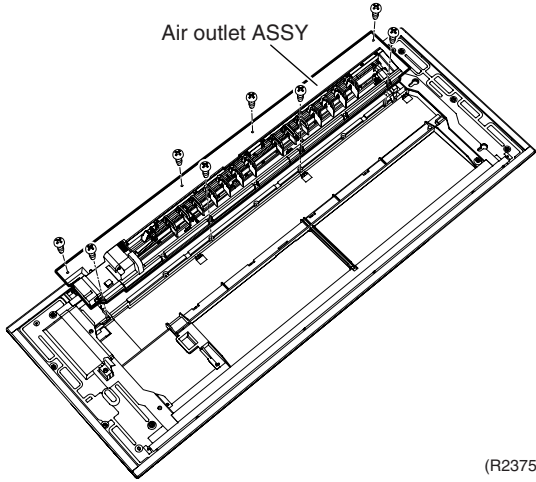
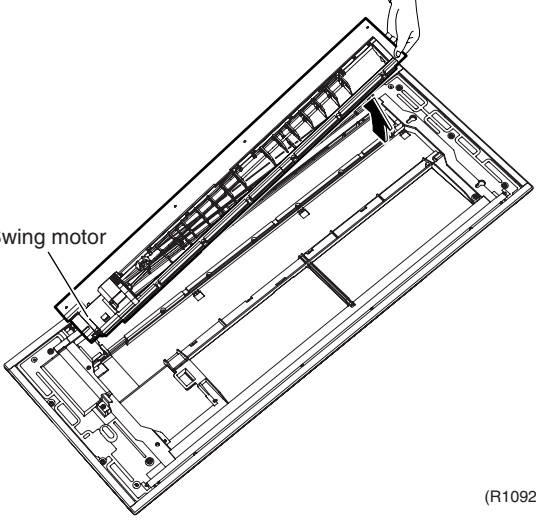
### Warning

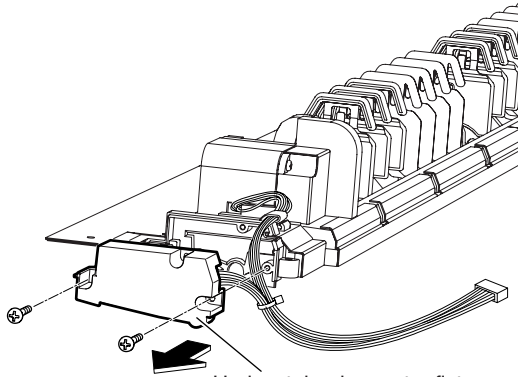
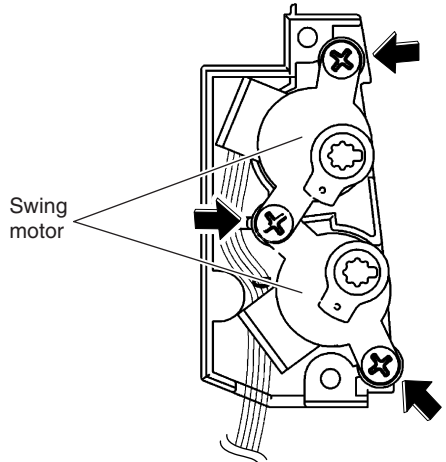
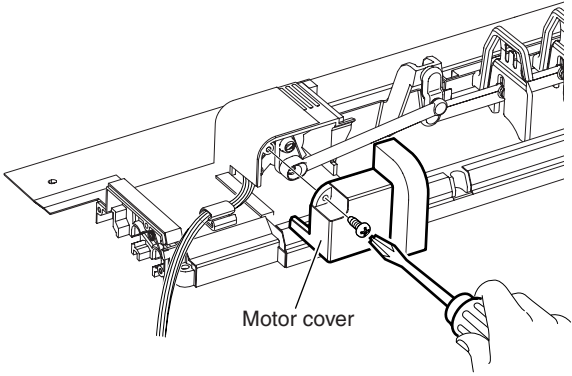
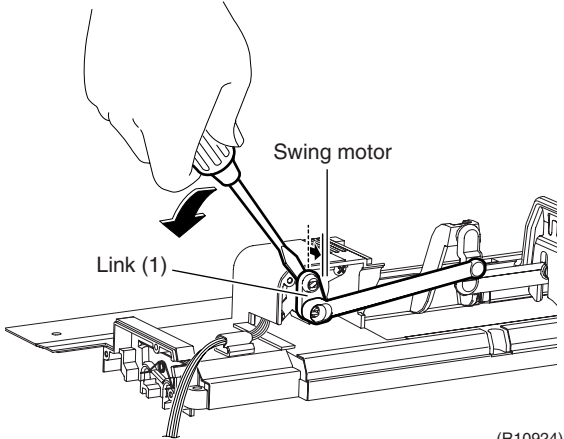
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

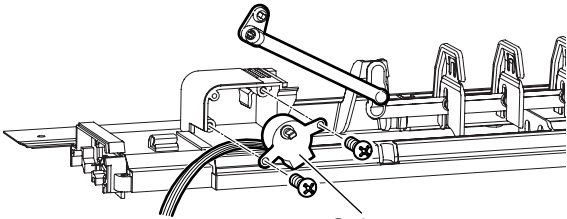
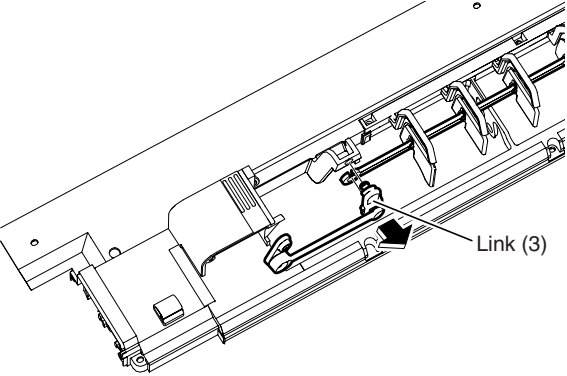
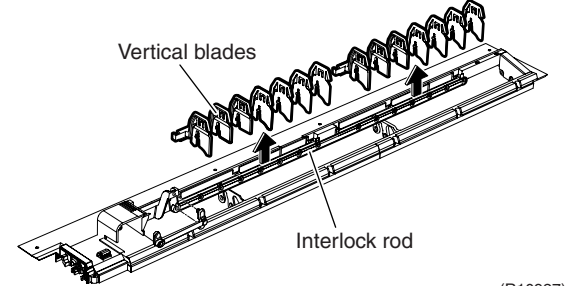


### Caution

- ◆ When reassembling, do not confuse the installing order of the 2 motors for horizontal blades and the colors of the connectors.  
If you set the connectors or motors opposite, the horizontal blades do not move smoothly or noise may be heard.

Step	Procedure	Points
1. Remove the air outlet ASSY.	 <p>Thermal insulation</p> <p>(R23757)</p>	<ul style="list-style-type: none"> <li>■ When replacing the air outlet ASSY, replace the thermal insulation as well.</li> </ul>
2. Remove the 8 screws of the air outlet ASSY.	 <p>Air outlet ASSY</p> <p>(R23758)</p>	
3. Lift the air outlet ASSY and remove it.	 <p>Swing motor</p> <p>(R10920)</p>	<ul style="list-style-type: none"> <li>■ Lift the air outlet ASSY from the side opposite the swing motor.</li> </ul>

Step	Procedure	Points
<p>2. Remove the swing motor for the horizontal blades.</p>	<p>1 Remove the 2 screws, and then the horizontal swing motor fixture.</p>  <p>Horizontal swing motor fixture (R23759)</p> <p>2 Remove the 3 screws, and then remove the swing motors.</p>  <p>Swing motor (R23760)</p>	
<p>3. Remove the swing motor for the vertical blades.</p>	<p>1 Remove the screw, and then the motor cover for the vertical blades.</p>  <p>Motor cover (R10923)</p> <p>2 Release the link (1) from the swing motor with a flat screwdriver.</p>  <p>Swing motor Link (1) (R10924)</p>	

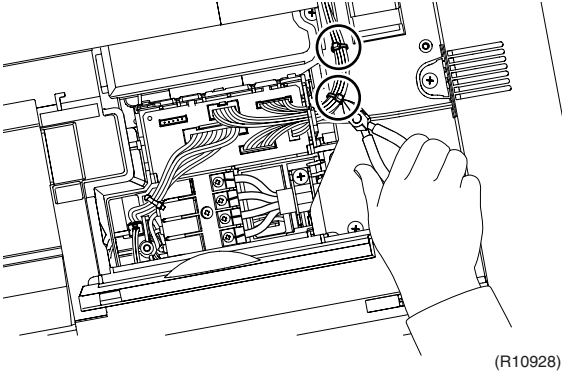
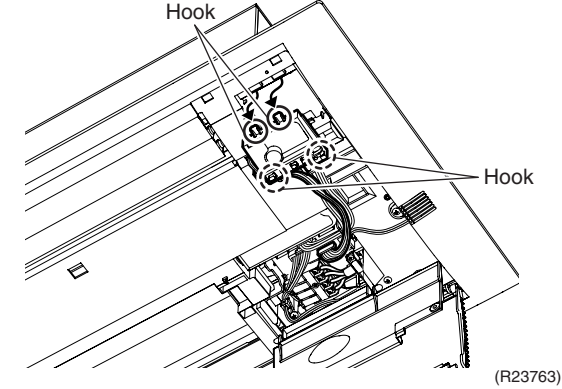
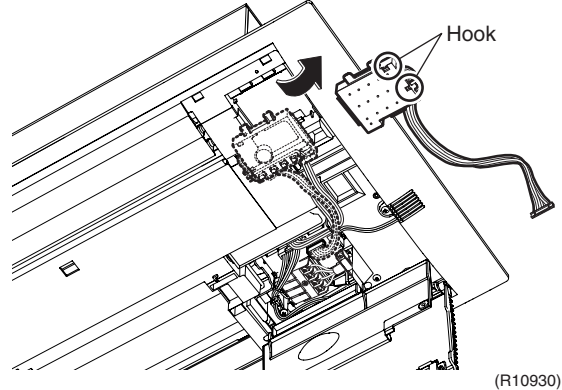
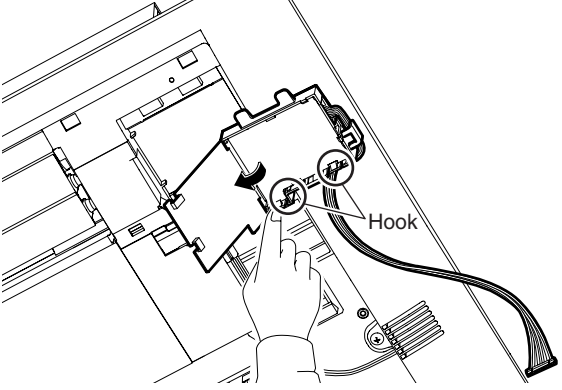
Step	Procedure	Points
3	Remove the 2 screws, and then the swing motor.	
	 <p style="text-align: center;">Swing motor</p> <p style="text-align: right;">(R23761)</p>	
4	Release the link (3).	
	 <p style="text-align: right;">Link (3)</p> <p style="text-align: right;">(R23762)</p>	
5	Remove the vertical blades.	
6	Remove the interlock rod for the vertical blades.	
	 <p style="text-align: center;">Vertical blades</p> <p style="text-align: center;">Interlock rod</p> <p style="text-align: right;">(R10927)</p>	

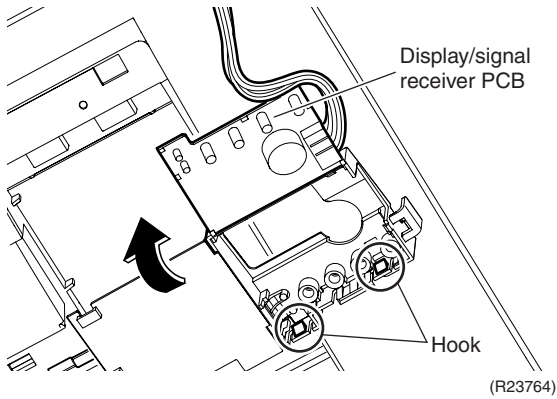
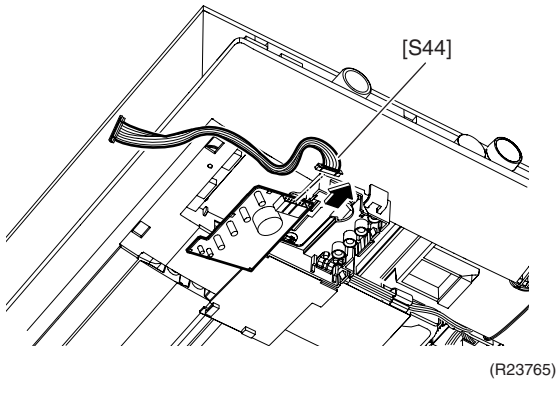
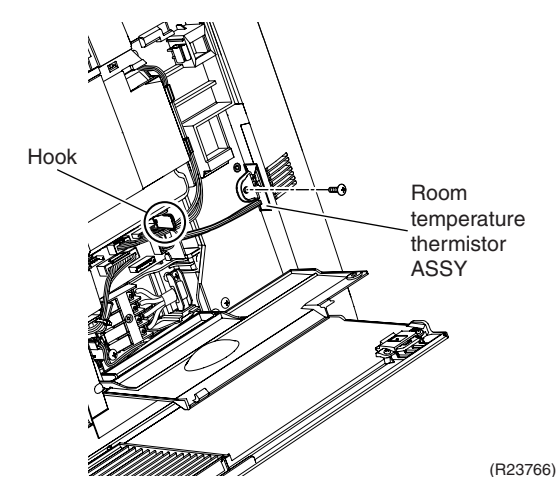
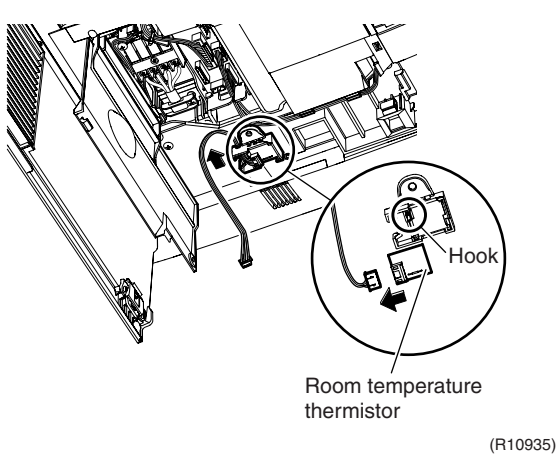
# 5. PCB / Thermistor



**Warning**

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Step	Procedure	Points
1.	Remove the signal receiver unit.	
1	Cut the 2 clamps.	
	 <p>(R10928)</p>	
2	Remove the 4 hooks, and then the signal receiver unit.	
	 <p>(R23763)</p>	
3	Unfasten the 2 hooks on the back of the signal receiver unit.	
	 <p>(R10930)</p>	
4	Open the cover and unfasten the 2 hooks for the display/signal receiver PCB.	
	 <p>(R10931)</p>	

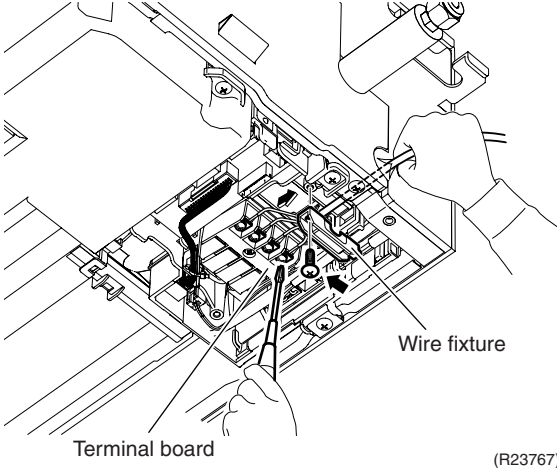
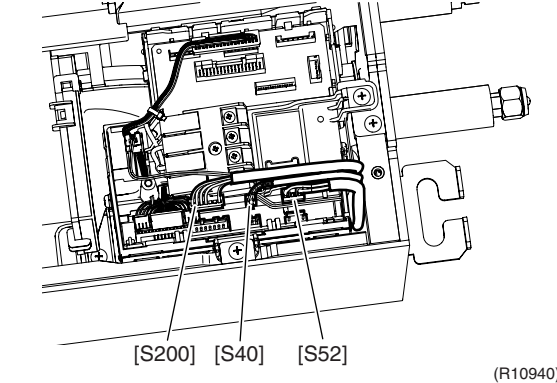
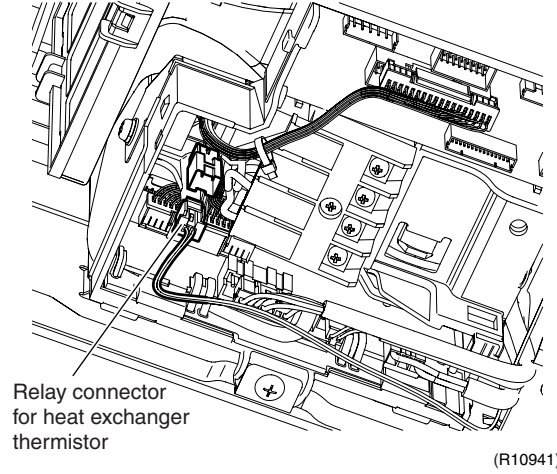
Step	Procedure	Points	
5	Lift and remove the display/signal receiver PCB.		<p>[S44]: service PCB</p>
6	Disconnect the connector [S44].		
2. Remove the room temperature thermistor ASSY.	<p data-bbox="153 1202 169 1225">1</p> <p data-bbox="197 1202 456 1296">Remove the screw and release the harnesses from the hook.</p>  <p data-bbox="153 1615 169 1637">2</p> <p data-bbox="197 1615 456 1740">Disconnect the connector and remove the room temperature thermistor.</p> 	<p>■ The room temperature thermistor is a part of the sensor PCB.</p>	

# 6. Electrical Box



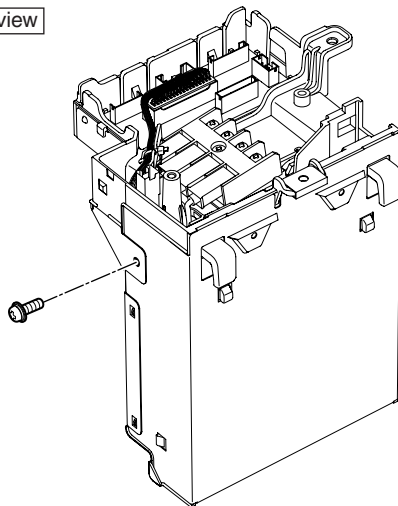
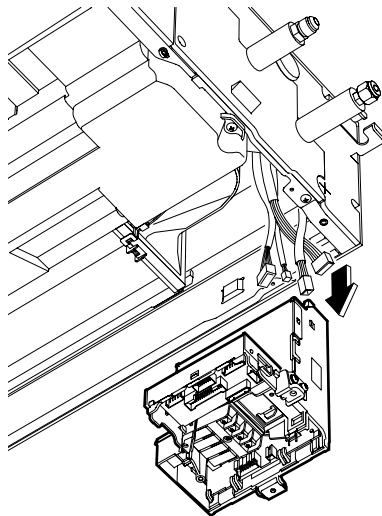
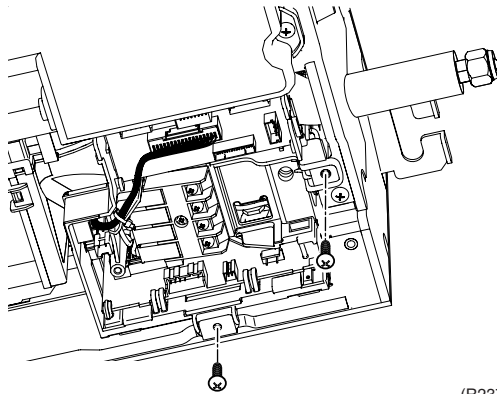
**Warning**

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Step	Procedure	Points
1. Remove the electrical box.	 <p>Terminal board (R23767)</p>	<p>[H1]: power supply, black                  [H2]: power supply, white                  [H3]: transmission, red</p>
1 Remove the screw, and then the wire fixture.	<p>2 Remove the screws of the power supply wire and connecting wire on the terminal board.</p>	
3 Disconnect the connectors [S200] [S40] [S52].	 <p>[S200] [S40] [S52] (R10940)</p>	<p>[S40] : float switch of drain pump                  [S52] : drain pump unit                  [S200]: DC fan motor</p>
4 Disconnect the relay connector for the heat exchanger thermistor.	 <p>Relay connector for heat exchanger thermistor (R10941)</p>	

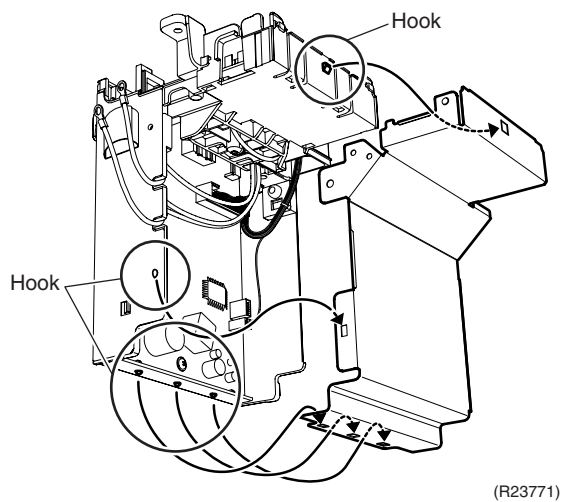
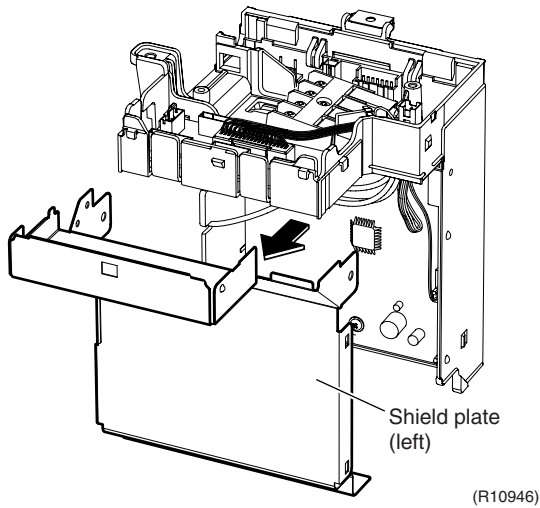
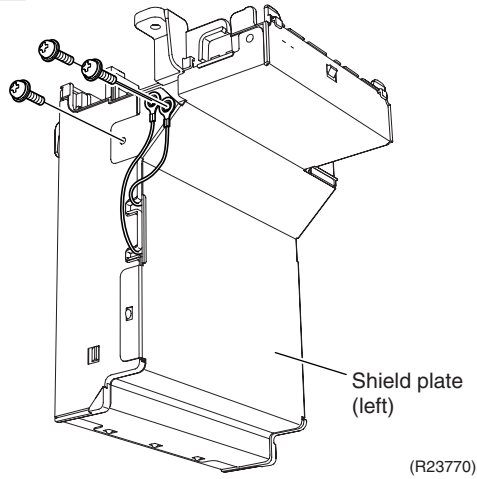


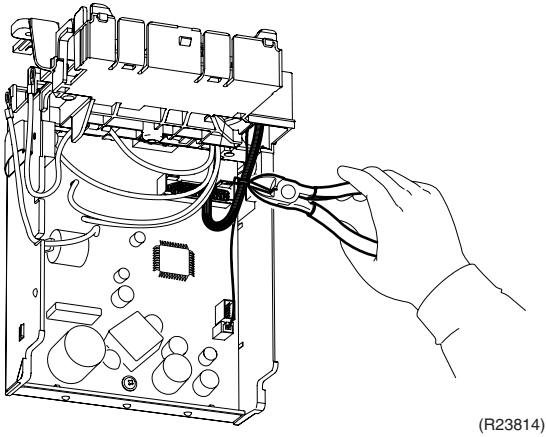
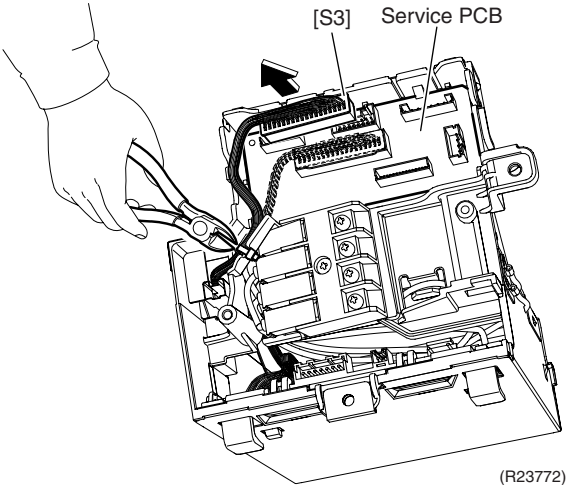
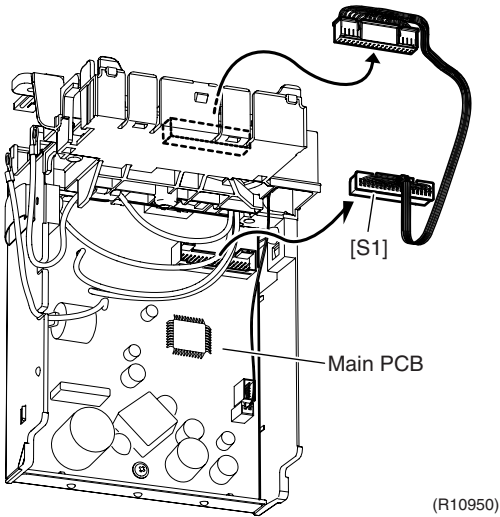
Step	Procedure	Points
5	Remove the 2 screws of the electrical box.	(R23768)
6	Pull out the electrical box.	(R10943)
2. Remove the shield plate (left).	Right view	(R23769)
1	Remove the 4 screws.	



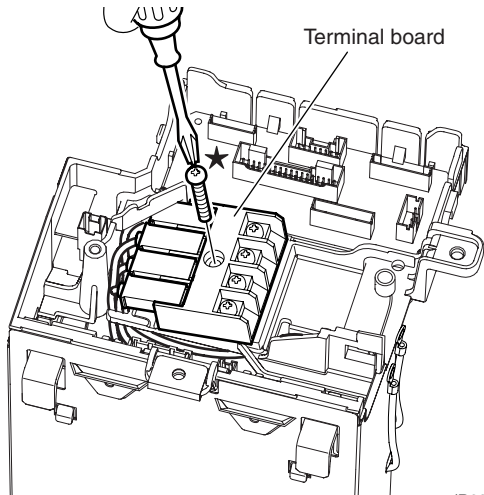
Step	Procedure	Points
2	<p>Unfasten the 5 hooks from the bottom and remove the shield plate (left).</p>	

Left view

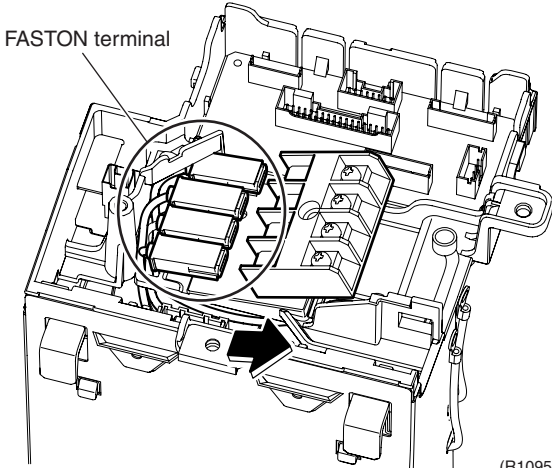


Step	Procedure	Points
3. Remove the PCBs.		
1	Cut the clamp.	
	 <p>(R23814)</p>	
2	Cut the clamp.	[S3]: main PCB
3	Disconnect the connector [S3] on the service PCB.	
	 <p>(R23772)</p>	
4	Disconnect the connector [S1] on the main PCB.	[S1]: service PCB
	 <p>(R10950)</p>	

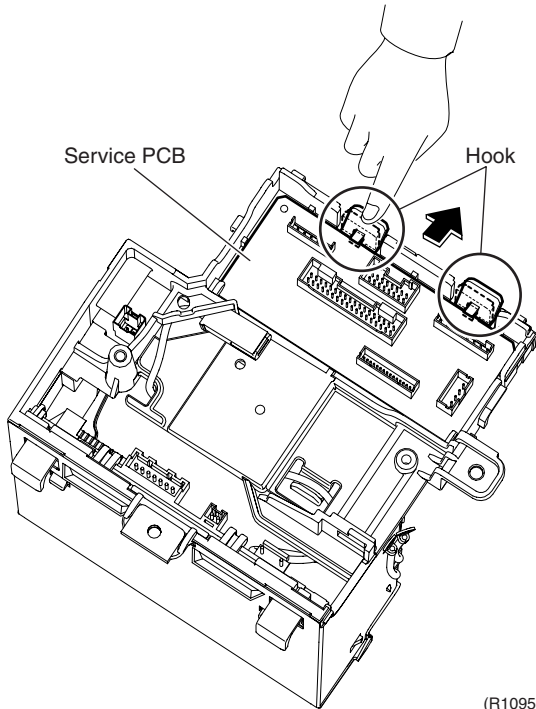
Step	Procedure	Points
5	Remove the screw, and then the terminal board.	★ M4 × 25
6	Pull out the FASTON terminals from the terminal board.	
7	Unfasten the 2 hooks and remove the service PCB.	



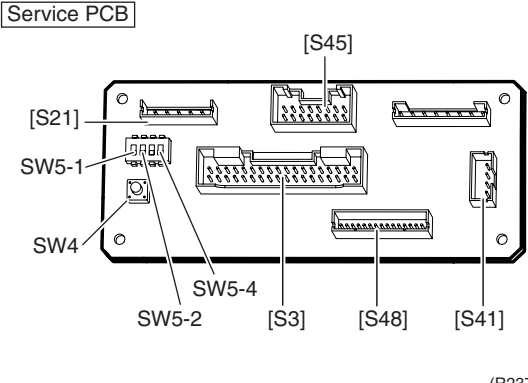
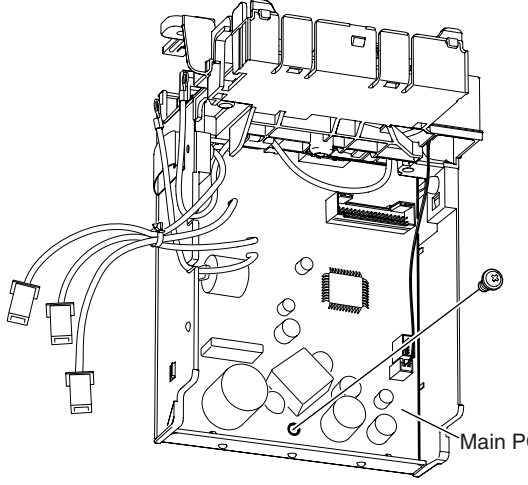
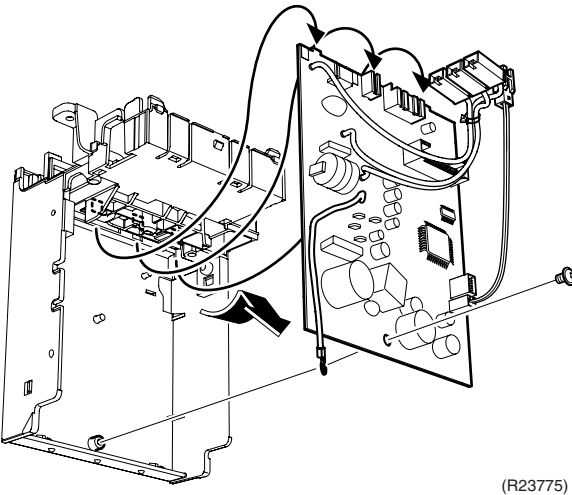
(R23815)



(R10952)



(R10953)

Step	Procedure	Points
8	<p>Remove the screw of the main PCB.</p>  	<p>[S3] : main PCB                  [S21] : HA                  [S41] : sensor PCB (Room temperature thermistor)                  [S45] : swing motors                  [S48] : display/signal receiver PCB</p> <p>■ Setting switch                  SW4 : switch for drain pump operation</p>
9	<p>Lift and remove the main PCB.</p> 	<p>SW5-1: address setting switch                  SW5-2: panel setting switch                  SW5-4: high ceiling setting switch</p>

# 7. Drain Pan



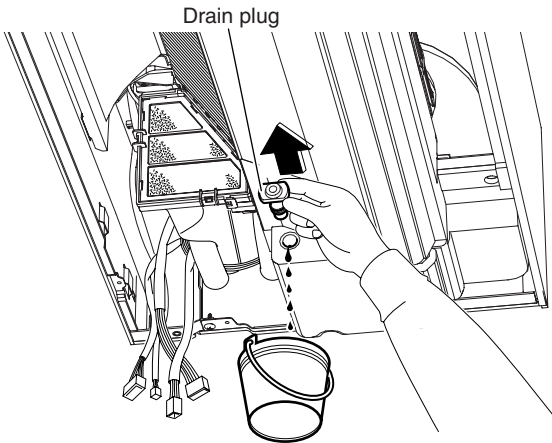
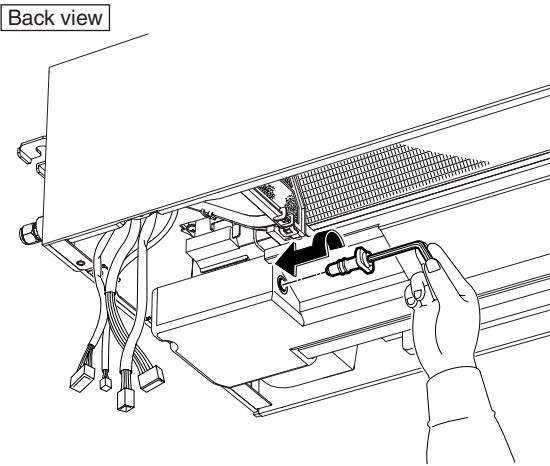
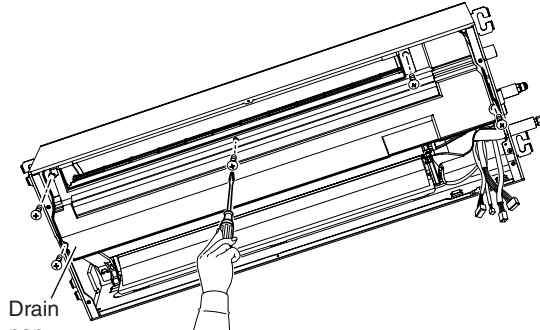
**Warning**

- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

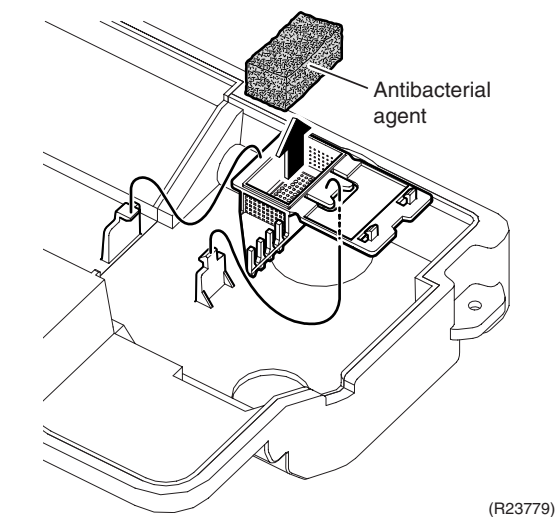
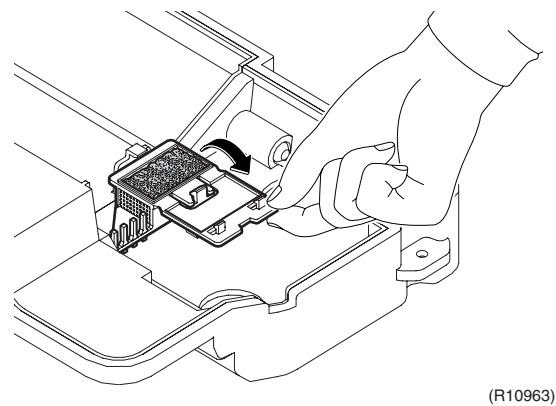
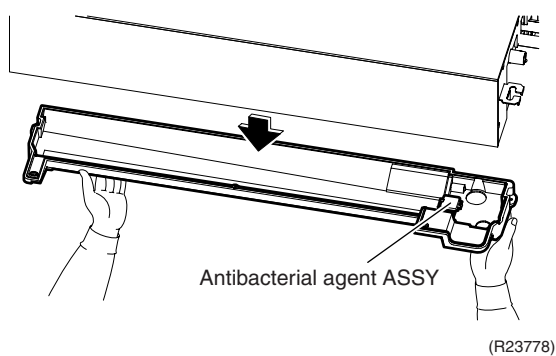
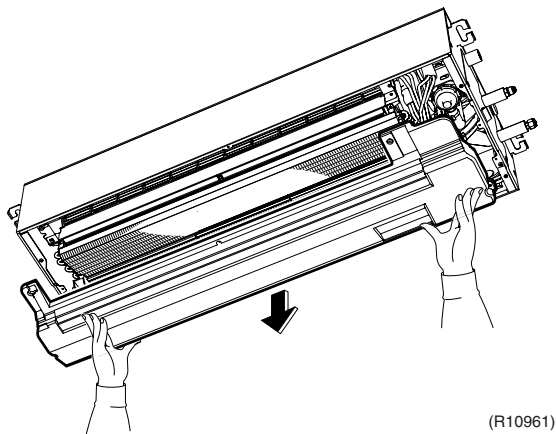


**Caution**

- ◆ Do not insert the drain plug by a sharp tool such as screwdriver. (A sharp tool may cause damage and water leakage.)
- ◆ Support the drain pan while removing the screws to avoid the drain pan fall out.

Step		Procedure	Points
1	Pull out the drain plug and remove the remaining drain.	 <p style="text-align: right;">(R10958)</p>	
2	Reinsert the drain plug.	<p>Back view</p>  <p style="text-align: right;">(R23776)</p>	Use a 4mm wrench.
3	Remove the 5 screws of the drain pan.	 <p style="text-align: right;">(R23777)</p>	

Step	Procedure	Points
4	Remove the drain pan.	
5	There is an antibacterial agent at the inner side of the drain pan.	<ul style="list-style-type: none"> <li>■ Replace the antibacterial agent as ASSY.</li> </ul>



# 8. Drain Pump

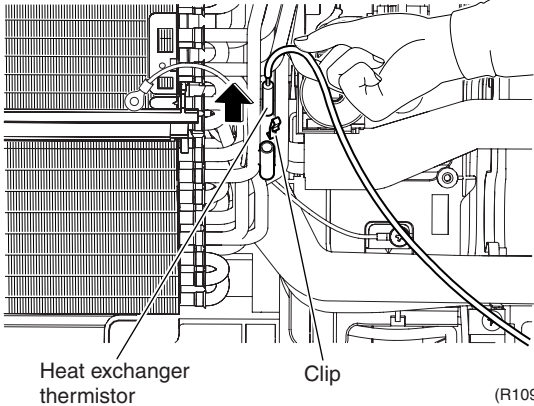
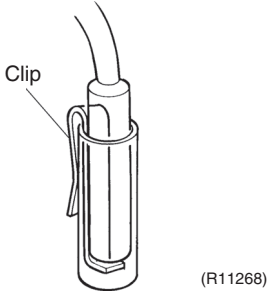
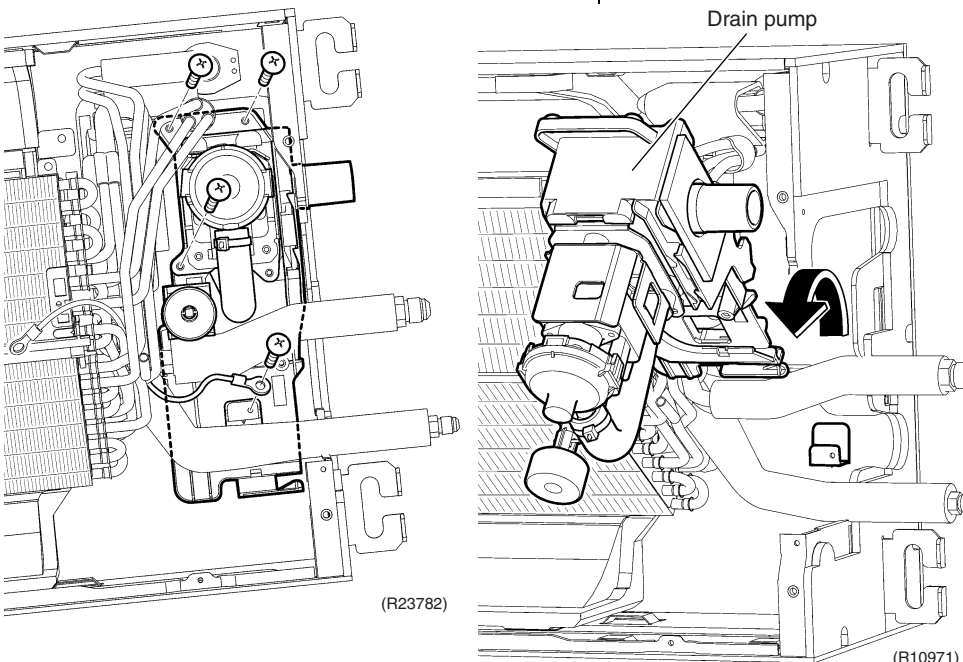
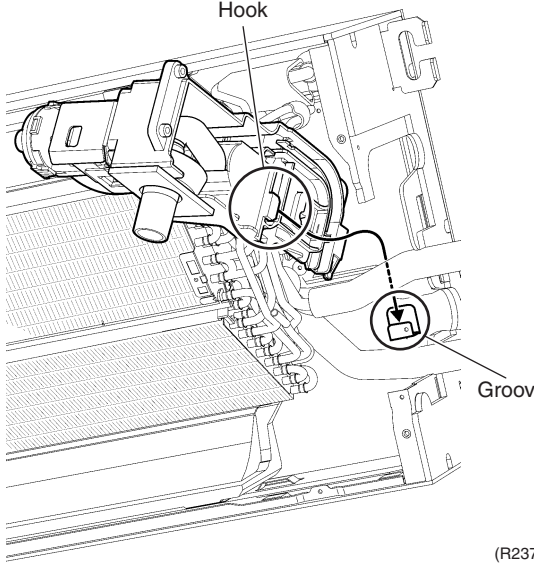


**Warning**

◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Remove the drip proof plate (right).	<p>Drip proof plate (right)</p> <p>(R23780)</p>	
1 Remove the screw of the drip proof plate (right).	<p>Hook</p> <p>(R10966)</p>	
2 Unfasten the hook.	<p>(R10967)</p>	
3 Remove the drip proof plate (right).		
2. Remove the earth/ground wire and the heat exchanger thermistor.	<p>Earth/ground wire</p> <p>(R23781)</p>	
1 Remove the screw of the earth/ground wire.		



Step	Procedure	Points
2	Pull out the heat exchanger thermistor.	<ul style="list-style-type: none"> <li>Be careful not to lose the clip for the thermistor.</li> </ul>
		
3. Remove the drain pump ASSY.		
1	Remove the 3 screws and the screw of the earth/ground wire from the drain pump.	
2	Remove the drain pump ASSY avoiding the pipes.	
3	Unfasten the hook and remove the drain pump ASSY.	<ul style="list-style-type: none"> <li>When reassembling, make sure to insert the hook into the groove.</li> </ul>
		

## 9. Heat Exchanger



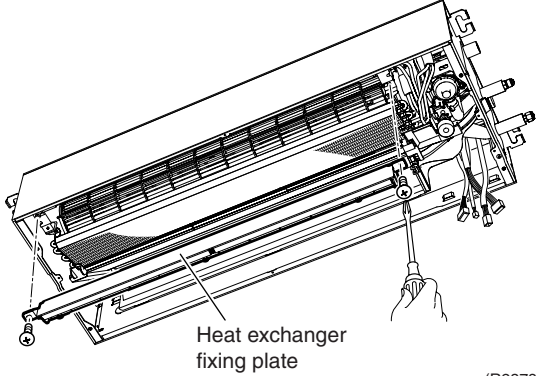
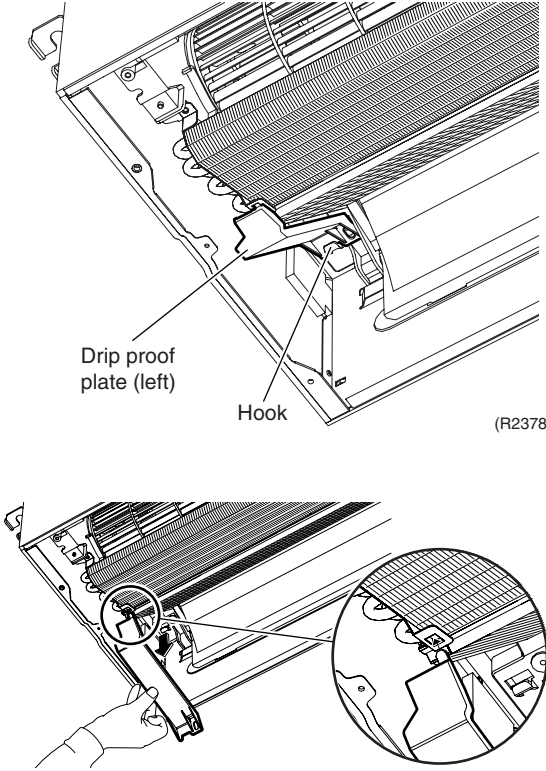
### Warning

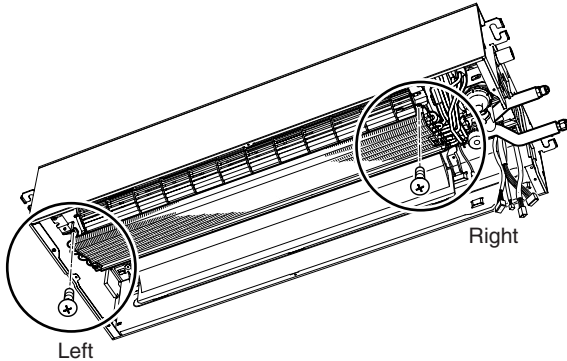
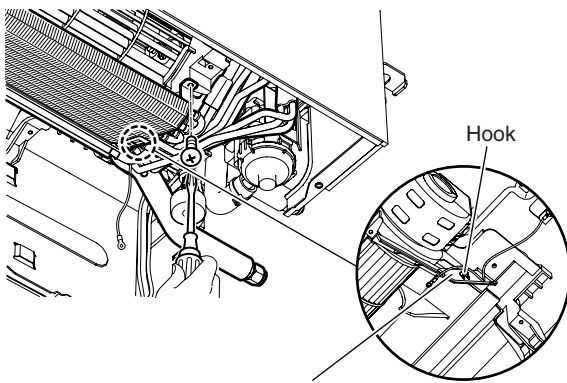
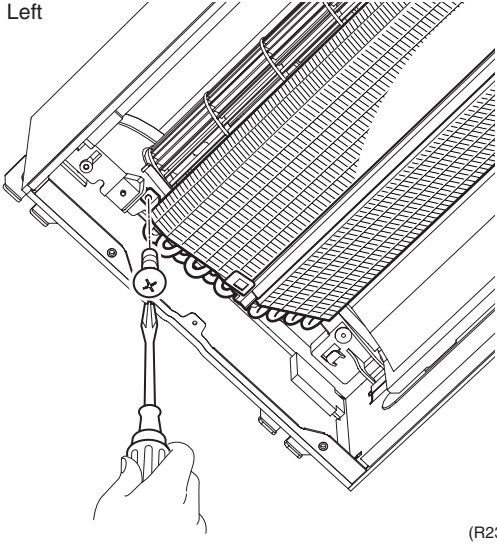
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.
- ◆ In pump-down work, be sure to stop the compressor before disconnecting the refrigerant pipe. If the refrigerant pipe is disconnected with the compressor operating and the stop valve open, air may be sucked in and may generate an over-pressure in refrigeration cycle, thus resulting in pipe rupture or accidental injury.
- ◆ When removing or reinstalling the indoor heat exchanger, be sure to wear gloves or wrap the indoor heat exchanger with cloths. (You may be injured by the fins.)



### Caution

- ◆ Be sure to conduct pump down operation before disassembling the refrigerant pipe.
- ◆ If the refrigerant leaks, repair the spot of leaking, then collect all refrigerant from the unit. After conducting vacuum drying, recharge proper amount of refrigerant.
- ◆ From the viewpoint of global environmental protection, make sure to use a vacuum pump for air purging.

Step	Procedure	Points
1. Remove the heat exchanger fixing plate.  1 Remove the 2 screws. Remove the heat exchanger fixing plate.	 <p style="text-align: right;">(R23784)</p>	
2. Remove the drip proof plate (left).  1 Unfasten the hooks and remove the drip proof plate (left).	 <p style="text-align: right;">(R23785)</p> <p style="text-align: right;">(R10975)</p>	

Step	Procedure	Points
3. Remove the heat exchanger.	 <p data-bbox="995 607 1066 629">(R23786)</p>  <p data-bbox="735 1077 884 1099">Right side plate</p> <p data-bbox="995 1106 1066 1128">(R23787)</p>  <p data-bbox="528 1200 571 1223">Left</p> <p data-bbox="995 1720 1066 1742">(R23788)</p>	<ul style="list-style-type: none"> <li>■ There is a hook to fix the heat exchanger on the right side plate.</li> </ul>

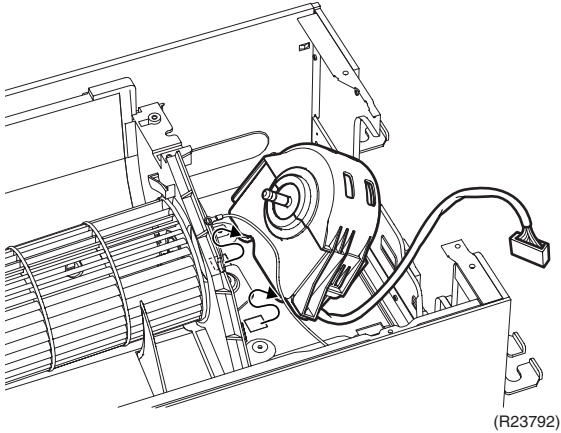
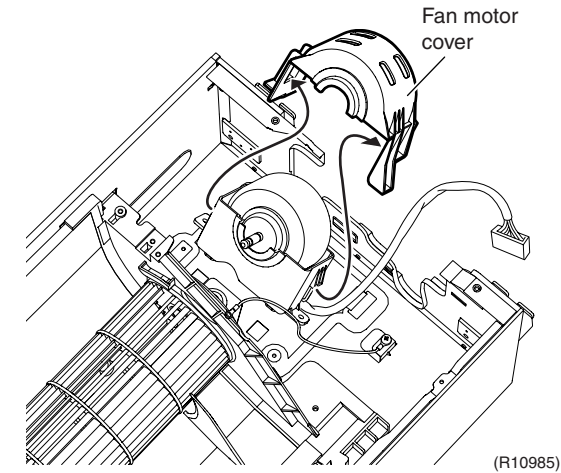
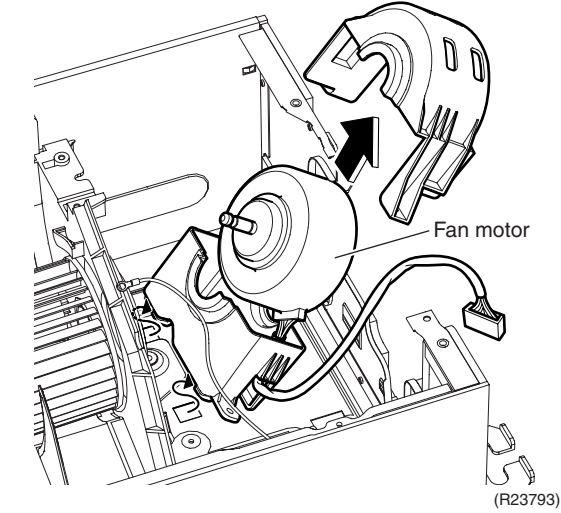
# 10.Fan Motor



**Warning**

◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Remove the fan rotor.	<p>Fan rotor</p> <p>(R23789)</p>	
2. Remove the 2 screws of the fan motor cover.	<p>Fan motor cover</p> <p>(R23790)</p>	
3. Remove the 2 screws of the left side panel.	<p>Left side panel</p> <p>(R23791)</p>	
4. Remove the fan rotor.	<p>Hook</p> <p>(R10983)</p>	

Step	Procedure	Points
2. Remove the fan motor.	 <p>(R23792)</p>	<ul style="list-style-type: none"> <li>■ The harness is a part of the fan motor.</li> </ul>
1 Unfasten the 2 hooks.	 <p>Fan motor cover</p> <p>(R10985)</p>	
2 Unfasten the 2 hooks and remove the fan motor cover.	 <p>Fan motor</p> <p>(R23793)</p>	
3 Remove the fan motor from the fan motor cover.		

# Revision History

Month / Year	Version	Revised contents
09 / 2016	Si091659E	First edition

Warning



- Daikin products are manufactured for export to numerous countries throughout the world. Prior to purchase, please confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

### Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

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