




# REMOVAL PROCEDURE



SERVICE  
MANUAL

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

## 2.8/4.2/5.0 kW Class

-  Indoor Unit
-  Inverter
-  Wall Mounted Type



# **Service Manual Removal Procedure**

## **Indoor Unit**

### **●Heat Pump**

**FTXR28KVMA**

**FTXR42KVMA**

**FTXR50KVMA**

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**Note:**

- ♦ The illustrations may be slightly different depending on the model.

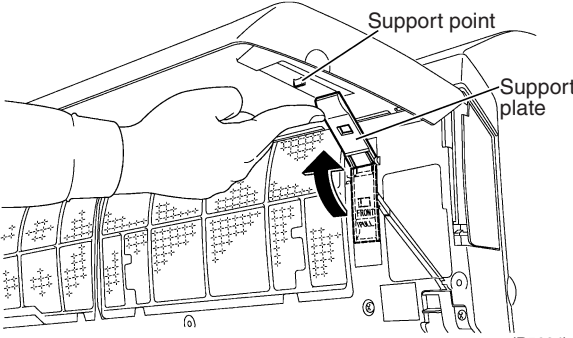
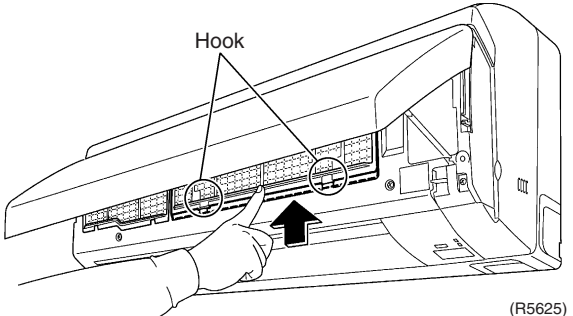
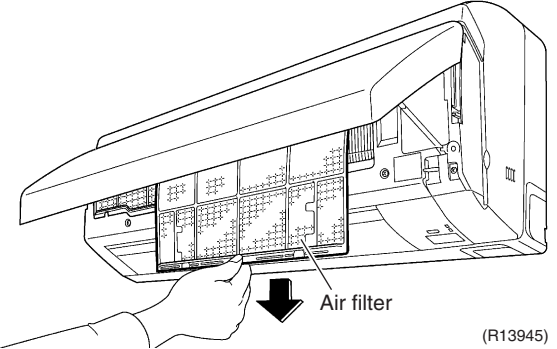
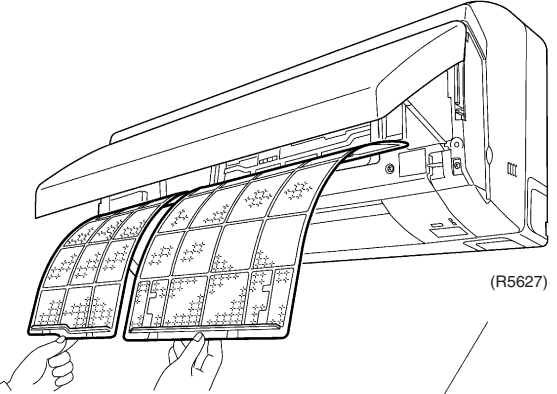
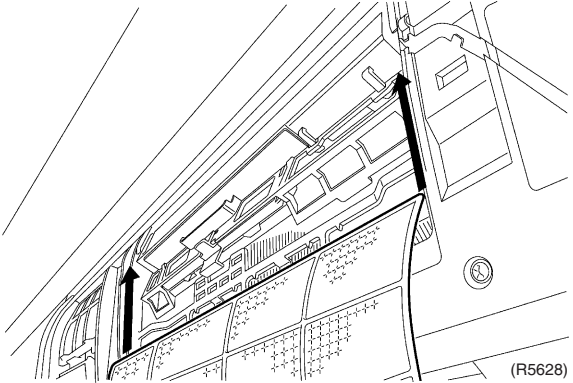
# 1. Removal of Air Filters / Front panel

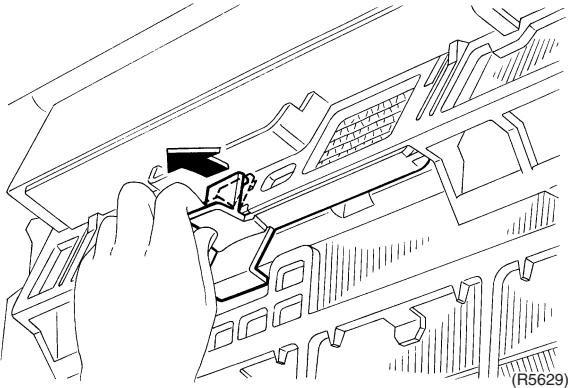
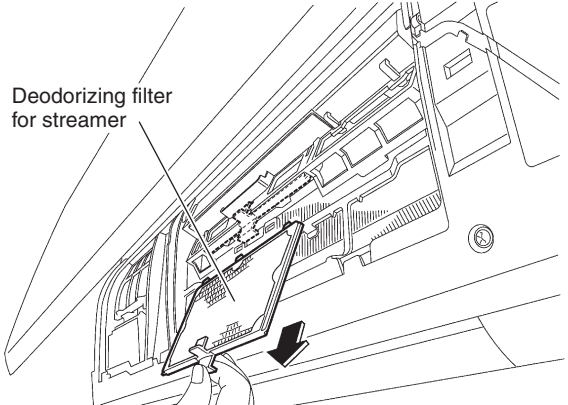
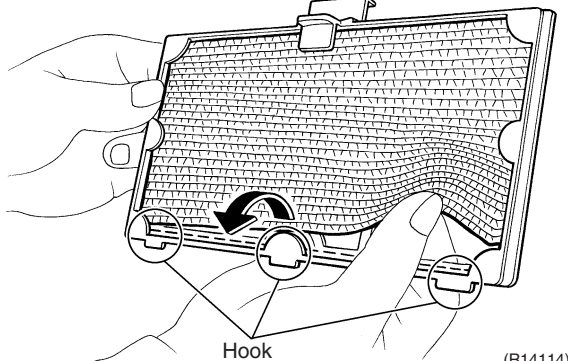
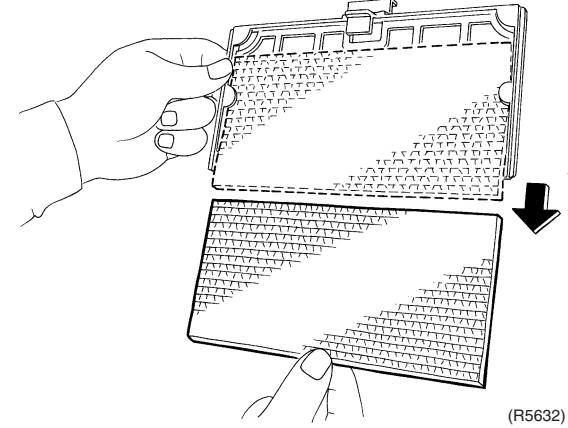
**Procedure**

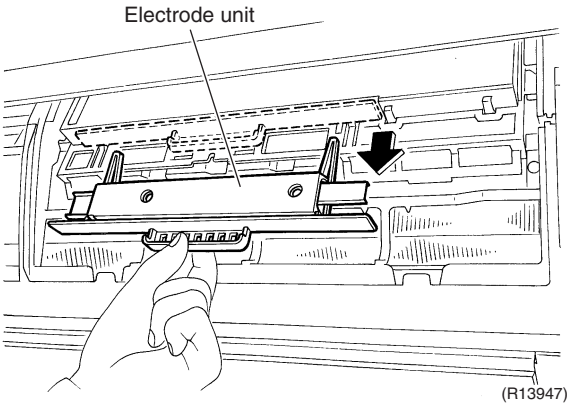
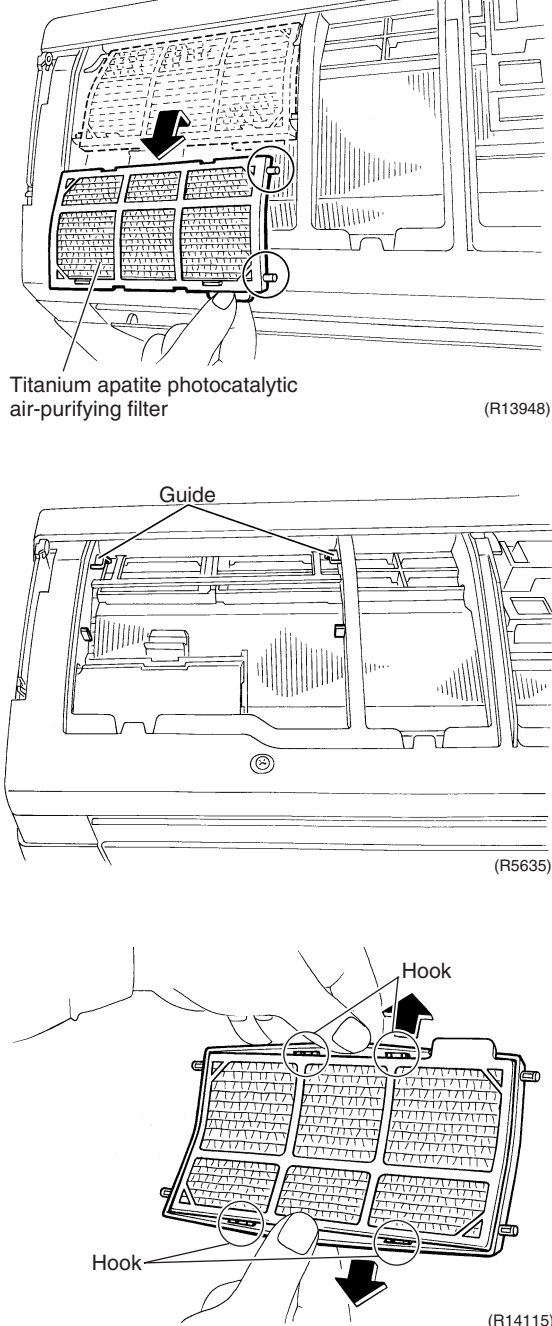


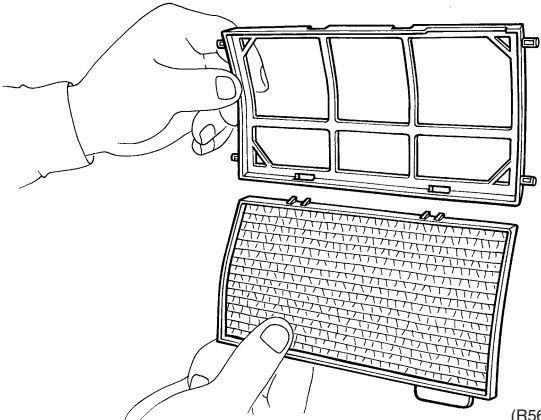
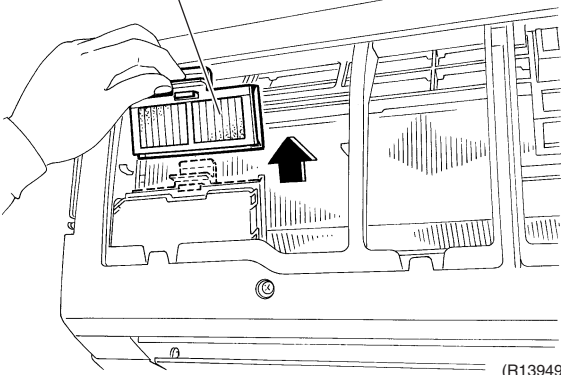
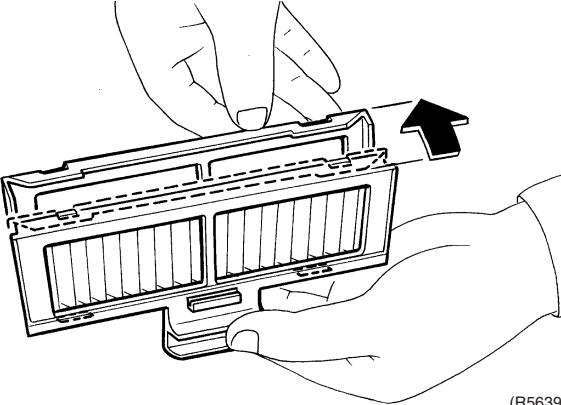
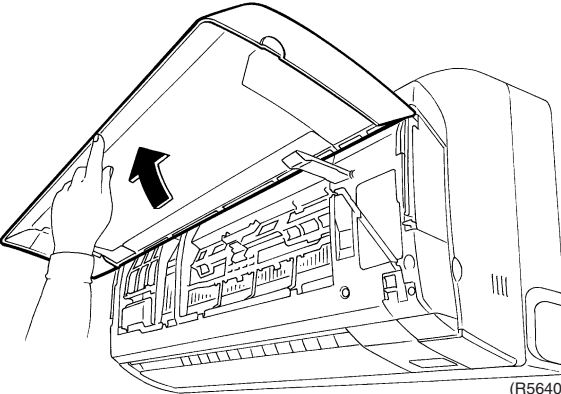
**Warning** Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
<p>1. External appearance</p>		<ul style="list-style-type: none"> <li>■ Multi-colored indicator lamp changes its color according to the operation mode.</li> <li>■ Remote controller is interactive communication type.</li> </ul>
<p>2. Remove the air filters.</p> <p>1 Hold the front panel on both sides and lift it up.</p>		

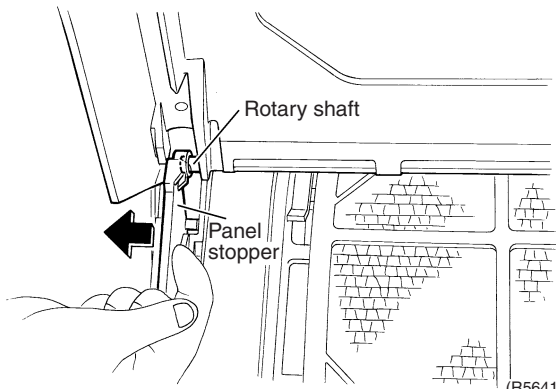
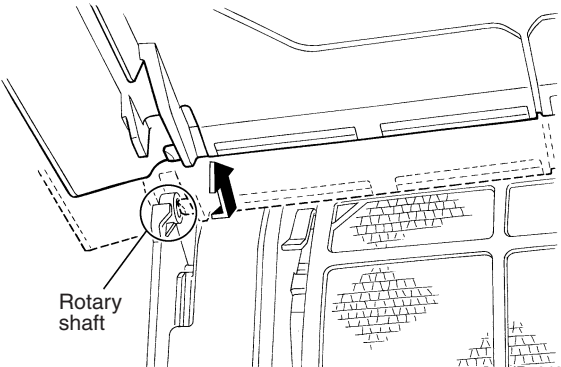
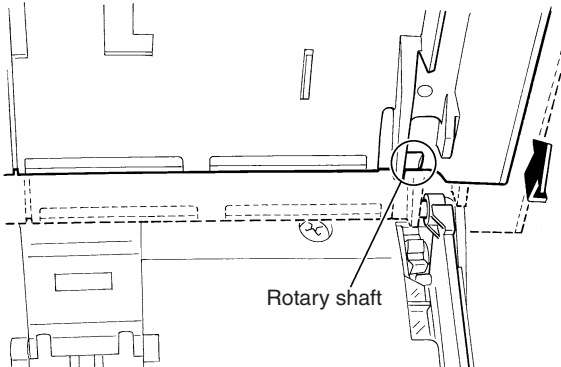
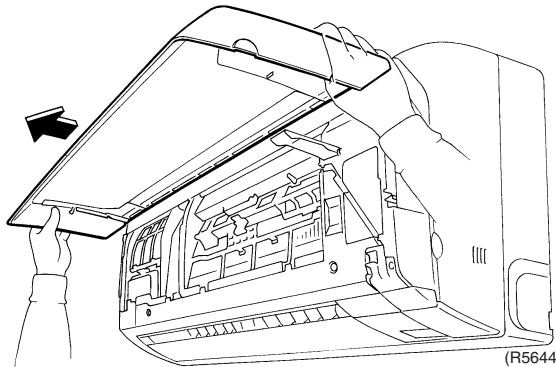
Step	Procedure	Points
2	<p>Keep the front panel open with the support plate.</p> 	
3	<p>Push the center part of the air filter up to unfasten the 2 hooks.</p> 	
4	<p>Remove the air filter.</p> 	
5	<p>The shapes of the right and left filters are different.</p> 	<p>■ Insert the filters along the guide for easy installation.</p> 

Step	Procedure	Points
3.	Remove the deodorizing filter for streamer.	
1	Pull the center knob to unfasten the hook.	
	 <p style="text-align: right;">(R5629)</p>	
2	Pull out the deodorizing filter for streamer.	
	 <p style="text-align: right;">(R13946)</p>	
3	Unfasten the 3 hooks.	<ul style="list-style-type: none"> <li>■ When cleaning, keep the filter with the frame for prevention of breakage.</li> </ul>
	 <p style="text-align: right;">(R14114)</p>	
4	Slide the filter and remove it.	
	 <p style="text-align: right;">(R5632)</p>	

Step	Procedure	Points
<p>4. Remove the electrode unit.</p> <p>1 Pull down the electrode unit with holding the knob.</p>	<p>Electrode unit</p>  <p>(R13947)</p>	
<p>5. Remove the Titanium apatite photocatalytic air-purifying filter.</p> <p>1 Unfasten the projection of the frame of Titanium apatite photocatalytic air-purifying filter and remove it.</p> <p>2 Unfasten the 4 hooks and remove the Titanium apatite photocatalytic air purifying filter.</p>	 <p>Titanium apatite photocatalytic air-purifying filter</p> <p>Guide</p> <p>Hook</p> <p>Hook</p> <p>(R13948)</p> <p>(R5635)</p> <p>(R14115)</p>	<ul style="list-style-type: none"> <li>■ Insert the filter along the guide for easy installation.</li> </ul>

Step	Procedure	Points
	 <p style="text-align: right;">(R5637)</p>	
<p>6. Remove the air supply filter.</p> <p>1 Lift the air supply filter up and take it out.</p> <p>2 Unfasten the 2 hooks to open the frame and remove the air supply filter.</p>	<p style="text-align: center;">Air supply filter</p>  <p style="text-align: right;">(R13949)</p>  <p style="text-align: right;">(R5639)</p>	<ul style="list-style-type: none"> <li>■ Insert the filter along the guide for easy installation.</li> <li>■ Install the air supply filter correctly so that the front mark comes front.</li> <li>■ Humidifying operation without installing the air supply filter may form condensation inside the front panel and it causes water leakage.</li> <li>■ There are 4 hooks for the air supply filter.</li> </ul>
<p>7. Remove the front panel.</p> <p>1 Open the front panel over the stopping position.</p>	 <p style="text-align: right;">(R5640)</p>	



Step	Procedure	Points
2	<p>Push the panel stoppers outward on both sides to detach the rotary shafts from the holes.</p> 	
3	<p>Slide the rotary shaft on the left to the right and pull it out.</p> 	
4	<p>Slide the rotary shaft on the right to the left and pull it out.</p> 	
5	<p>Remove the front panel.</p> 	

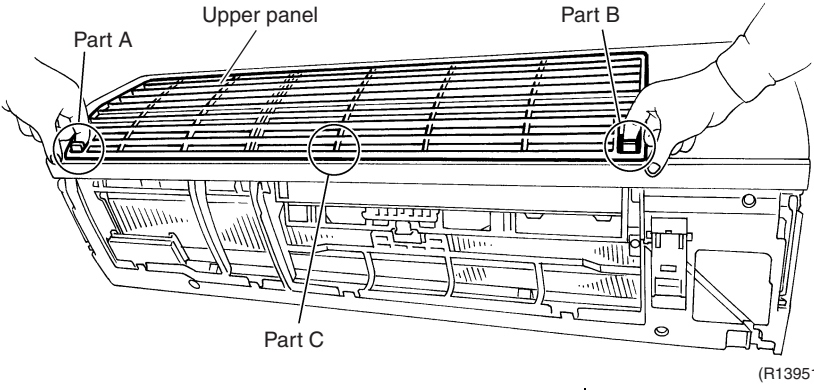
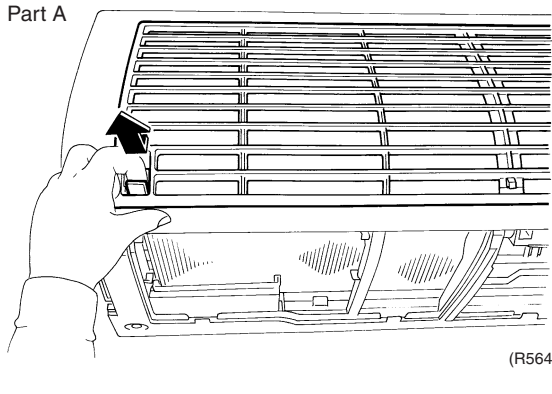
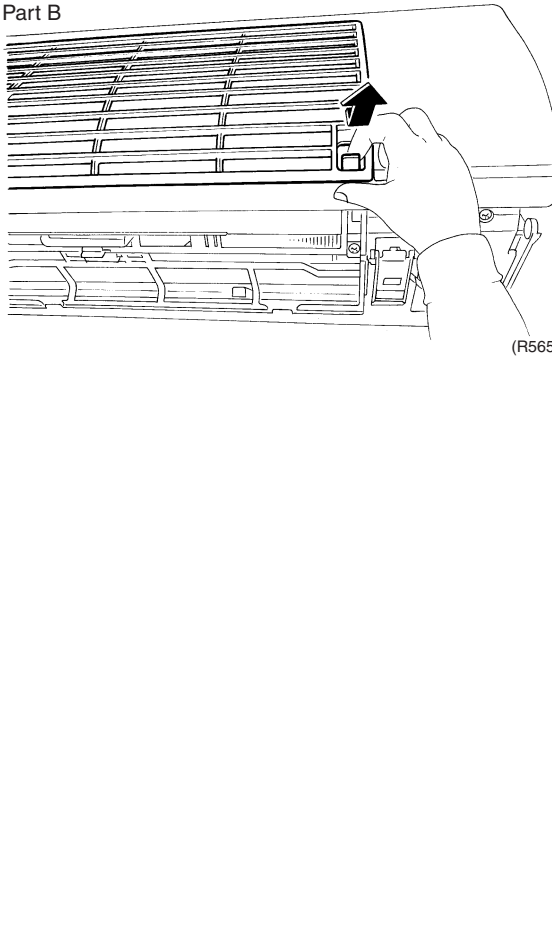
## 2. Removal of Upper Panel

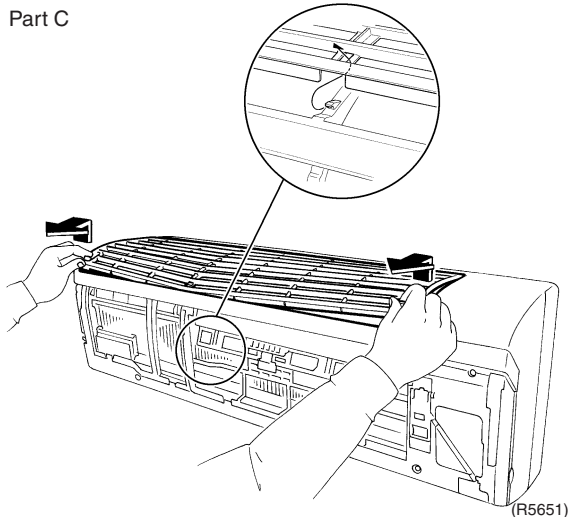
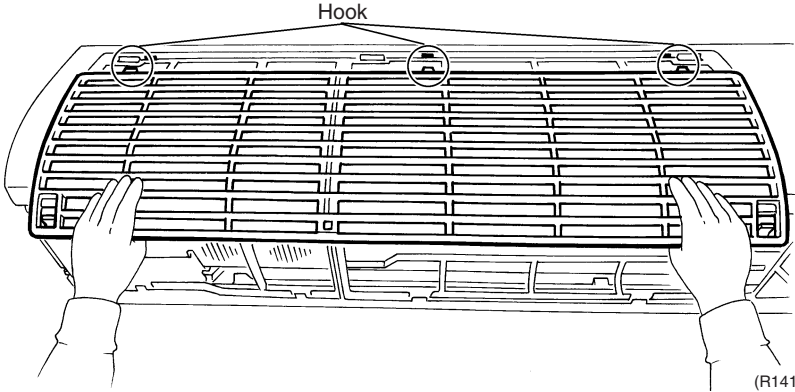
**Procedure**



**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 service cover.	<p>(R5645)</p>	
2. Slide the service cover downward to unfasten the hook on the back side.	<p>Service cover (R5646)</p>	
3. Remove the service cover.	<p>Hook Back side hook (R13950)</p>	<p>■ When reassembling, catch the 2 hooks on the far side first, and close the cover.</p>

Step	Procedure	Points
2. Remove the upper panel.		
1	<p>The upper panel has 3 hooks at the front.</p> 	
2	<p>In part A, pinch and unfasten the hook.</p> 	
3	<p>In part B, pinch and unfasten the hook as in part A.</p> 	

Step	Procedure	Points
4	<p>In part C, lift the right and left sides to bend the upper panel and slightly pull it to unfasten the hook.</p> 	
5	<p>Pull the upper panel and remove it.</p> 	<ul style="list-style-type: none"> <li>■ When reassembling, make sure to catch the far side hooks.</li> </ul>

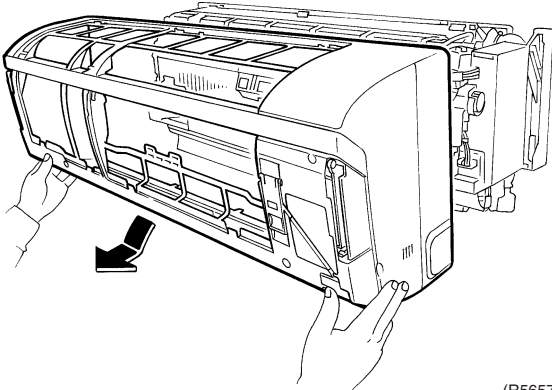
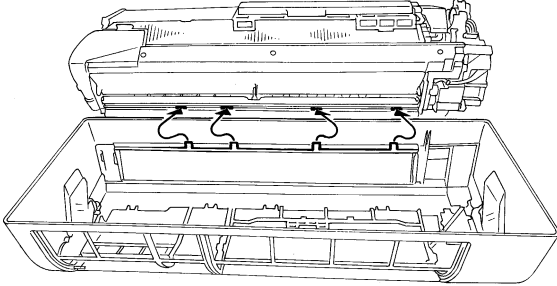
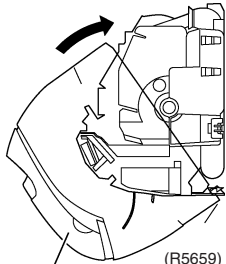
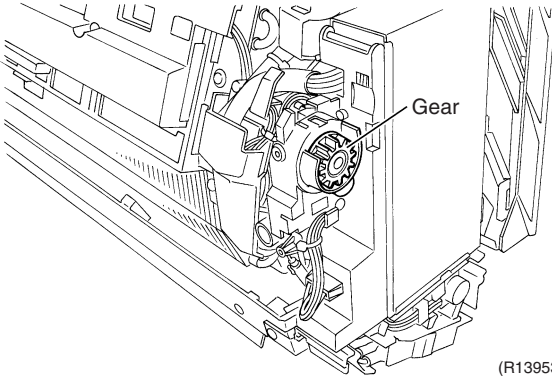
### 3. Removal of Front Grille

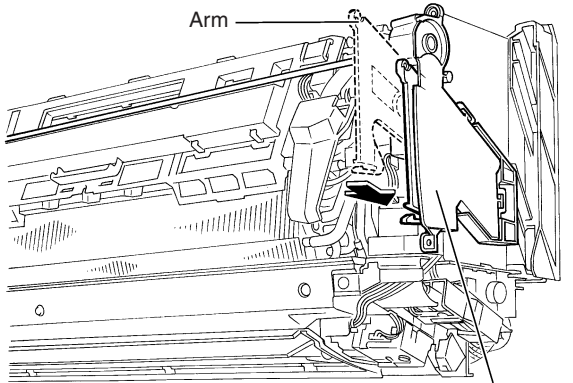
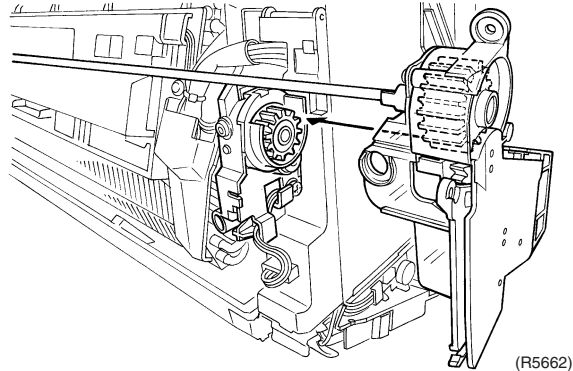
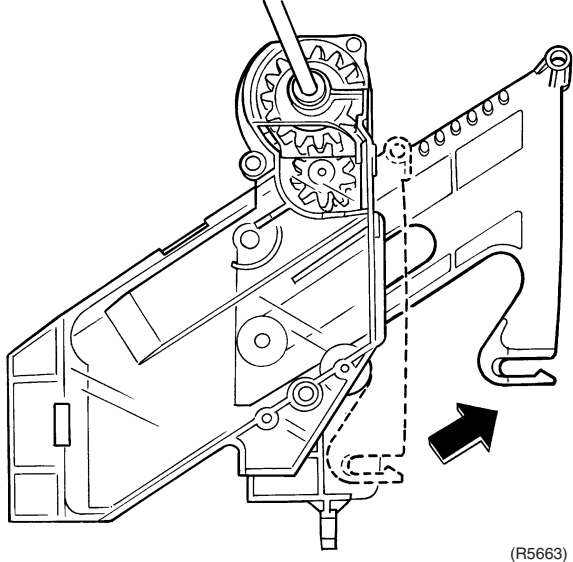
**Procedure**



**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 front grille.		
1	Remove the 3 screws.	
2	Unfasten the upper 3 hooks.	
		<ul style="list-style-type: none"> <li>■ If the hooks are hard to be unfasten, use a flat screwdriver.</li> <li>■ The convex marks (...) on the front panel indicate the position of the hooks.</li> </ul>
3	<p>Open the horizontal blade (large) fully for preventing it from getting caught in pulling the front grille out.</p>	

Step	Procedure	Points
4	<p>Remove the front grille.</p>  <p>(R5657)</p>	
2.	<p>Points on installing the front grille</p>	<ul style="list-style-type: none"> <li>■ When reassembling, make sure that the horizontal blade (large) does not come inside.</li> </ul>
1	<p>When reassembling the front grille, fit the 4 lower hooks and push in until they click.</p>  <p>(R5658)</p>	<ul style="list-style-type: none"> <li>■ When reassembling, follow the same steps for removal in reverse.</li> </ul>  <p>Front grille (R5659)</p>
2	<p>There is a gear for front panel driving.</p>  <p>(R13953)</p>	

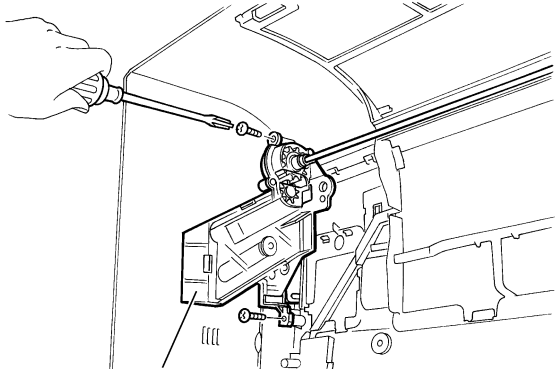
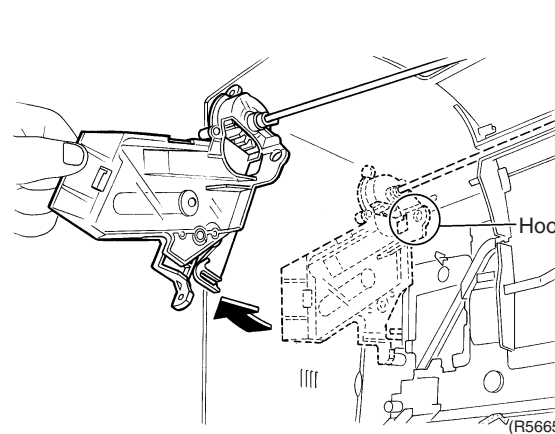
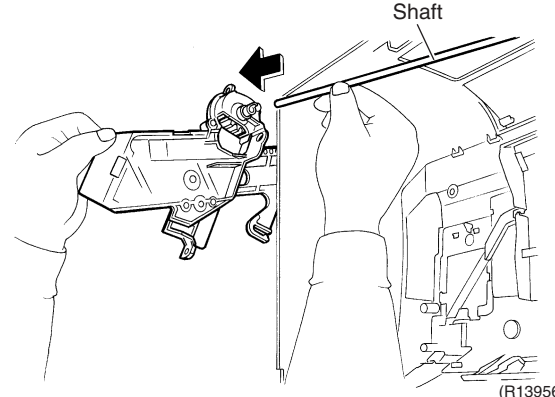
Step		Procedure	Points
3	<p>The front panel mechanism assembly is fixed to the front grille. Check that the arm is in the stored position.</p>	 <p>Arm</p> <p>Front panel mechanism assembly (R13954)</p>	
4	<p>Installation structure</p>	 <p>(R5662)</p>	
5	<p>Movement of the arm</p>	 <p>(R5663)</p>	

# 4. Removal of Front Panel Mechanism Assembly

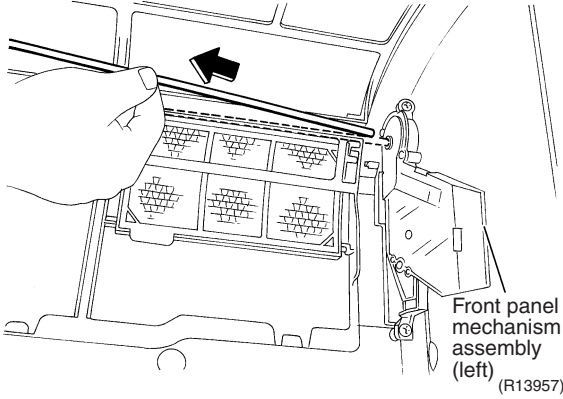
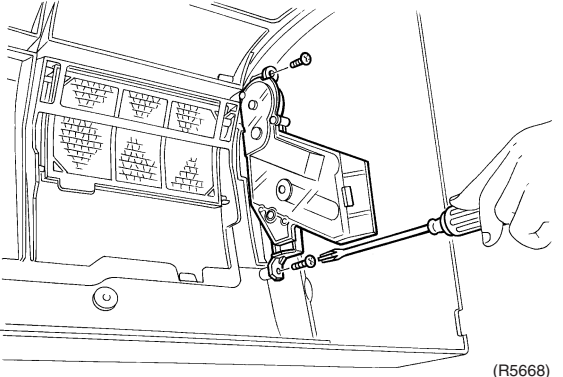
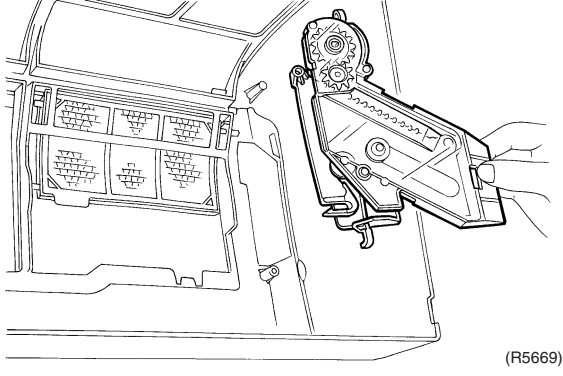
**Procedure**



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

Step	Procedure	Points
<p>1. Remove the front panel mechanism assembly (right).</p>	 <p>Front panel mechanism assembly (right) (R13955)</p>	<p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>Remove the front grille according to "Removal of Front Grille".</li> </ul>
<p>1 Remove the 2 screws.</p>	<p>2 Unfasten the hook while straightening the front panel mechanism assembly (right) and remove it.</p>  <p>Hook (R5665)</p>	<ul style="list-style-type: none"> <li>When reassembling, catch the hook first.</li> </ul>
<p>3 Pull out the front panel mechanism assembly (right) from the shaft.</p>	 <p>Shaft (R13956)</p>	<ul style="list-style-type: none"> <li>Replace the front panel mechanism as an assembly kit.</li> </ul>



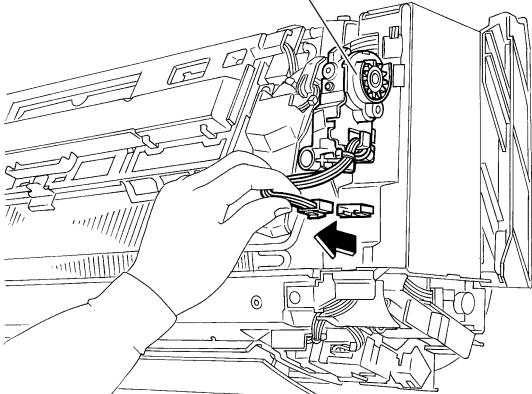
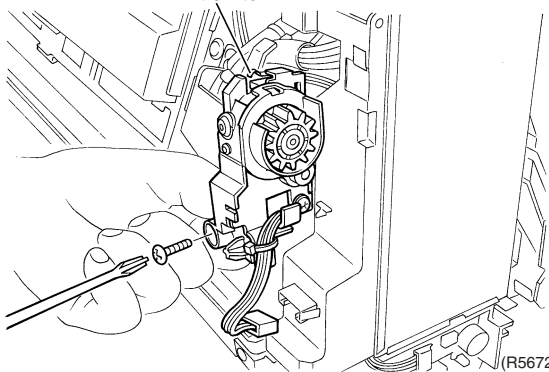
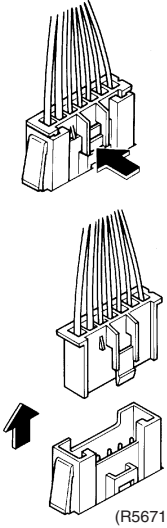
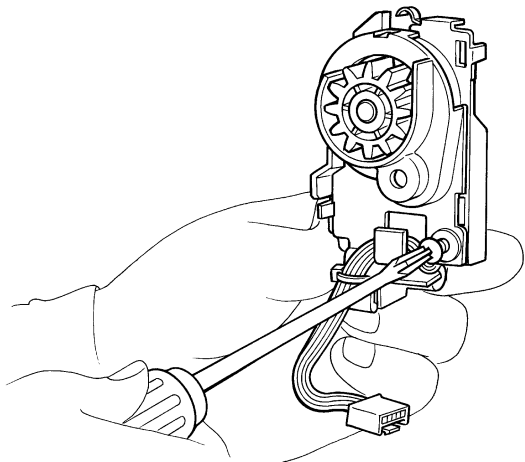
Step	Procedure	Points
2.	Remove the front panel mechanism assembly (left).	
1	Pull out the shaft from the front panel mechanism assembly (left). 	
2	Remove the 2 screws. 	
3	Remove the front panel mechanism assembly (left). 	<ul style="list-style-type: none"> <li>■ Replace the front panel mechanism as an assembly kit.</li> </ul>

# 5. Removal of Reduction Motor Assembly

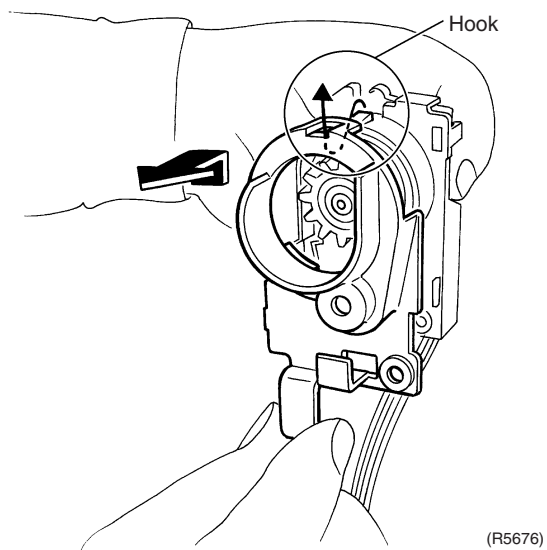
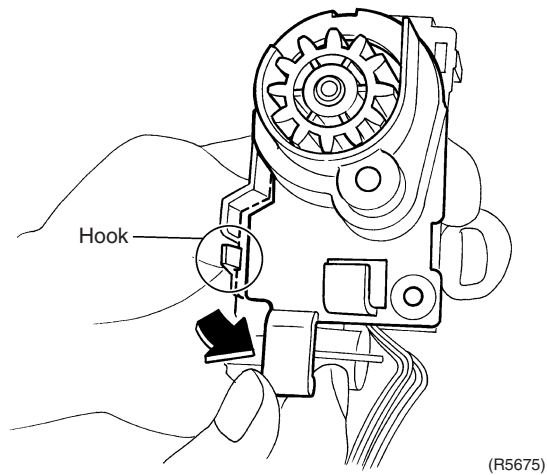
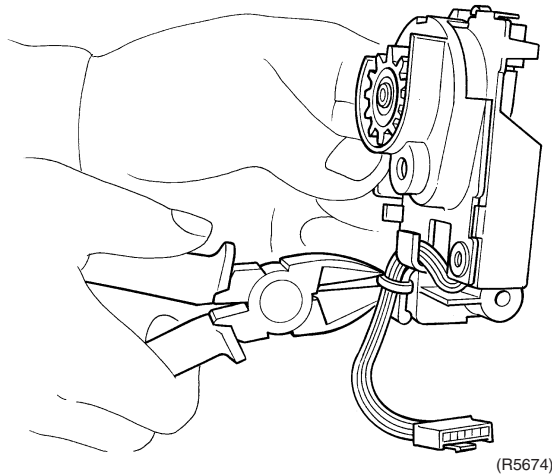
**Procedure**

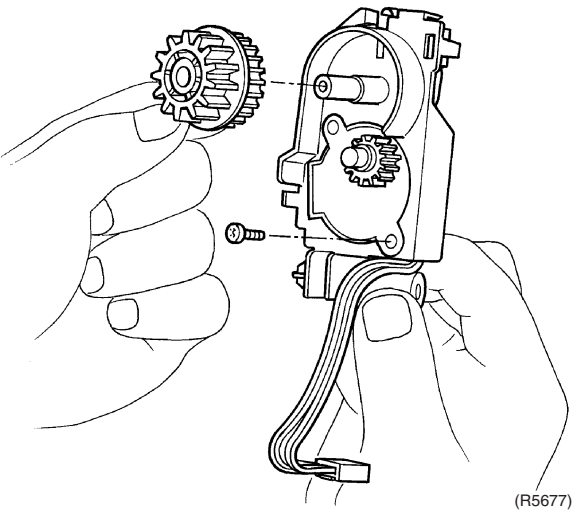
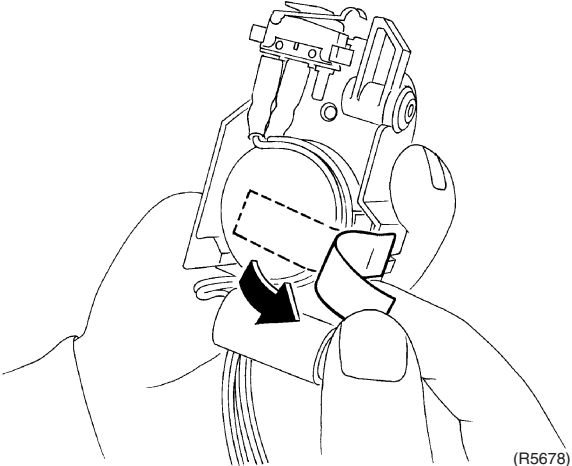
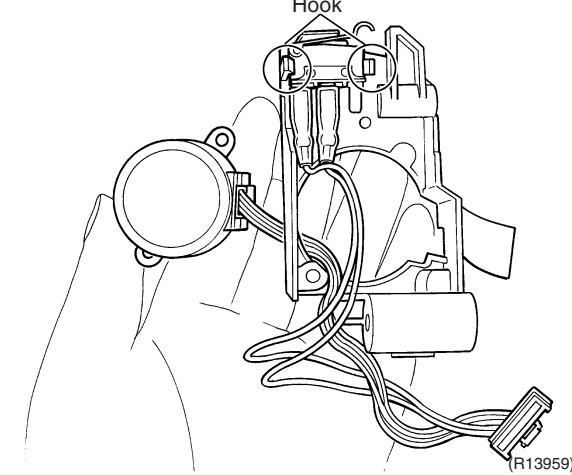


**Warning** Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Remove the reduction motor assembly.		
<p>1 Disconnect the relay connector for the reduction motor.</p> <p>2 Remove the screw and remove the reduction motor assembly.</p>	<p style="text-align: center;">Reduction motor assembly</p>  <p style="text-align: right;">(R13958)</p> <p style="text-align: center;">Limit switch</p>  <p style="text-align: right;">(R5672)</p>	 <p style="text-align: right;">(R5671)</p> <ul style="list-style-type: none"> <li>■ The figure above shows the hook on the connector for the reduction motor assembly.</li> <li>■ When touching the electrical parts like the limit switch, be sure to conduct the work after discharging static electricity of the human body. It may cause trouble of the PCB.</li> </ul>
2. Remove the reduction motor.		
1 Remove the screw.	 <p style="text-align: right;">(R5673)</p>	

Step	Procedure	Points
2	Cut the clamp.	
3	Slide the cover to the right to unfasten the hook.	
4	Lift the cover of the reduction motor up slightly to unfasten the upper hook, and remove it.	



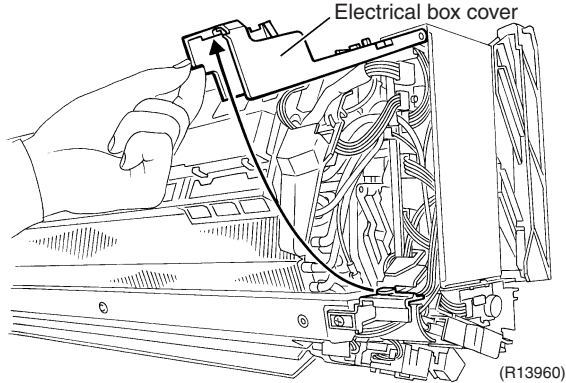
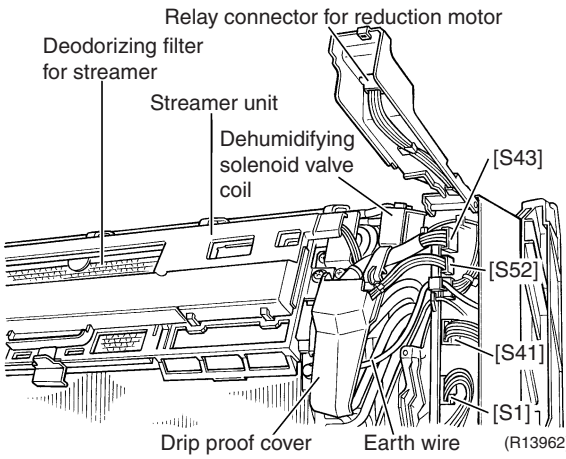
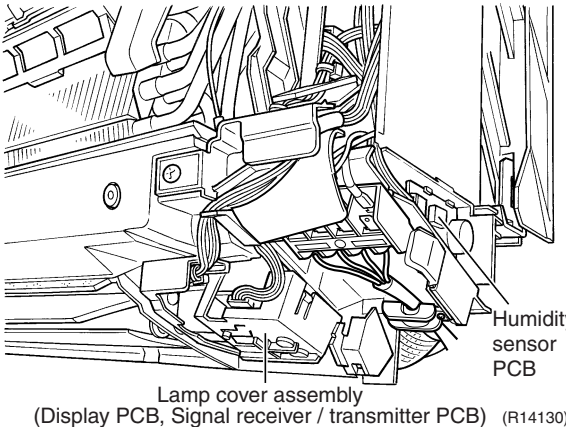
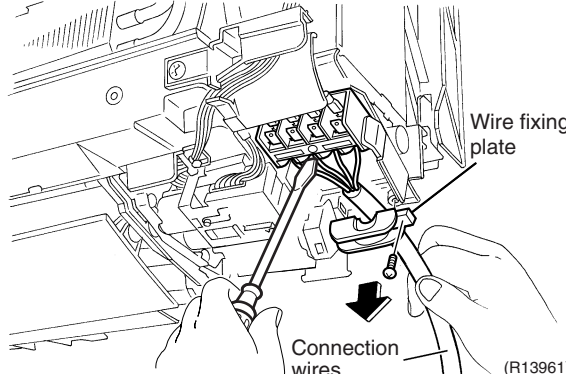
Step	Procedure	Points
5	<p>Pull the gear out to remove. Remove the screw of the reduction motor.</p>  <p style="text-align: right;">(R5677)</p>	
6	<p>Turn the reduction motor assembly over and peel off the tape.</p>  <p style="text-align: right;">(R5678)</p>	
7	<p>Remove the reduction motor.</p>	<p>■ The connector of the reduction motor can be disconnected.</p>
8	<p>Unfasten the 2 hooks and remove the limit switch.</p>  <p style="text-align: right;">(R13959)</p>	

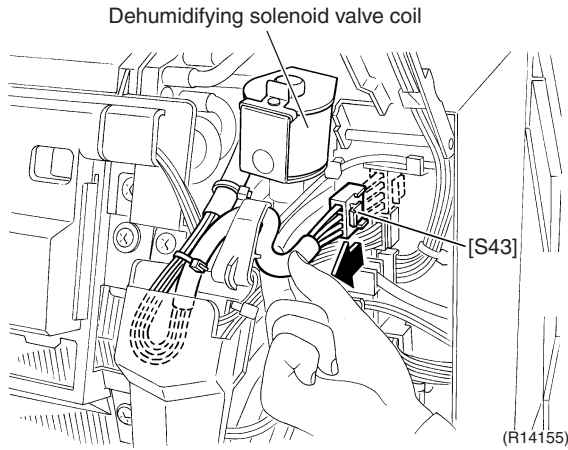
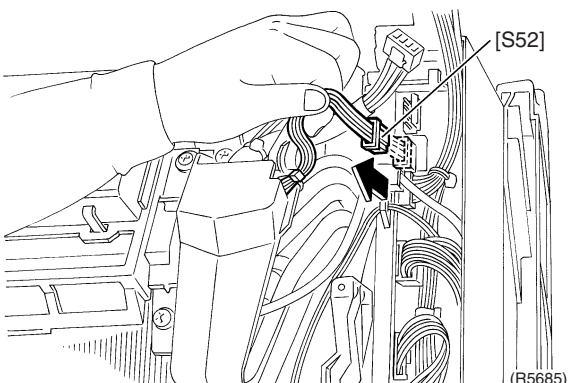
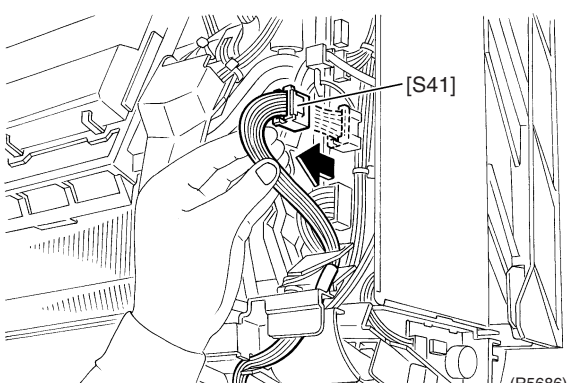
## 6. Removal of Electrical Box

### Procedure



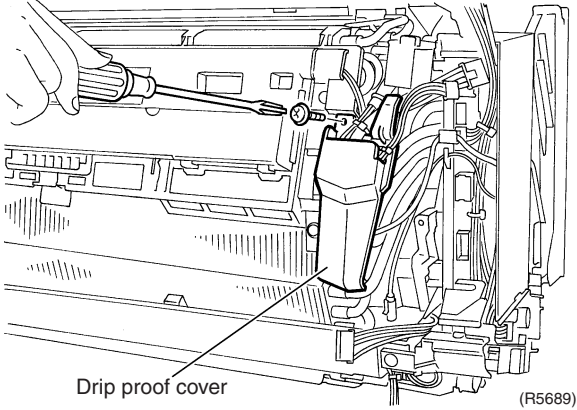
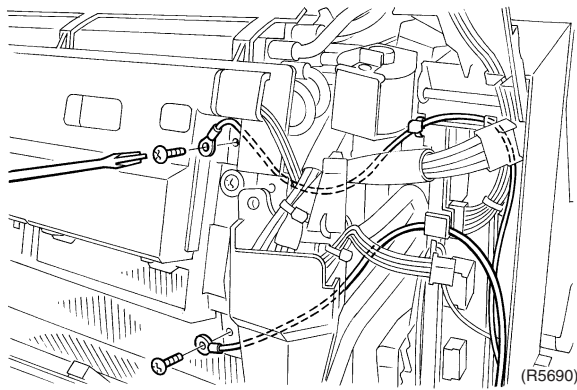
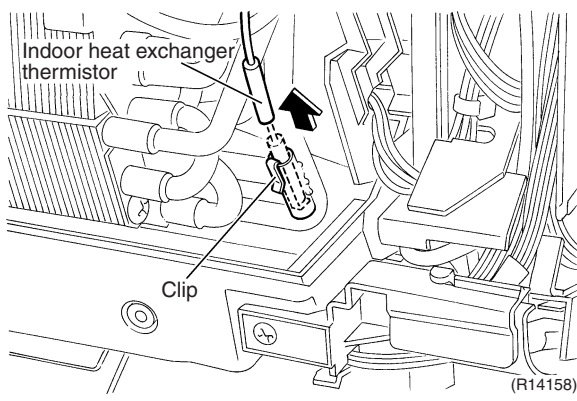
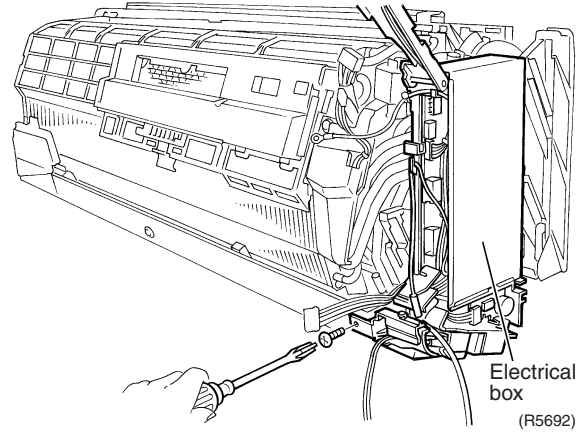
**Warning** Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Disconnect the connectors.		
1	Open the electrical box cover.	
2	<p>The figure shows the arrangement of wiring and names of parts.</p>  	
3	Remove the screw and remove the wire fixing plate.	
4	Remove the screws and disconnect the connection wires.	

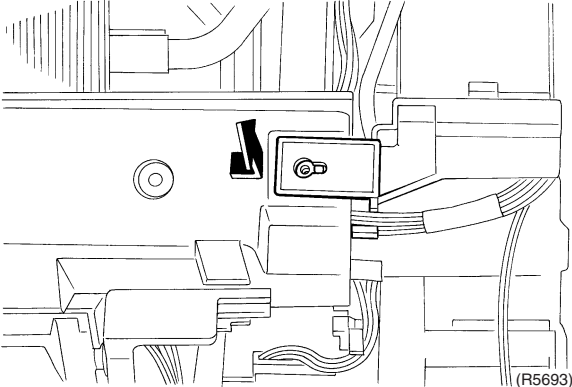
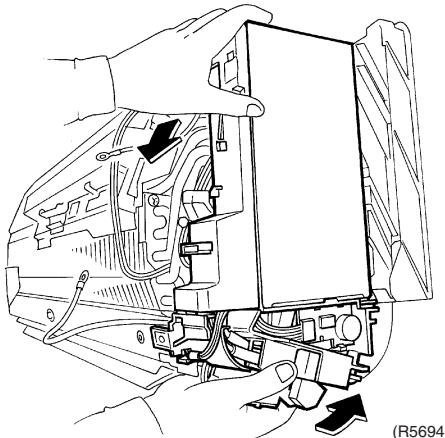
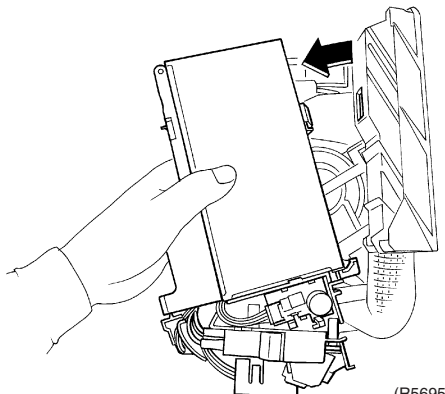
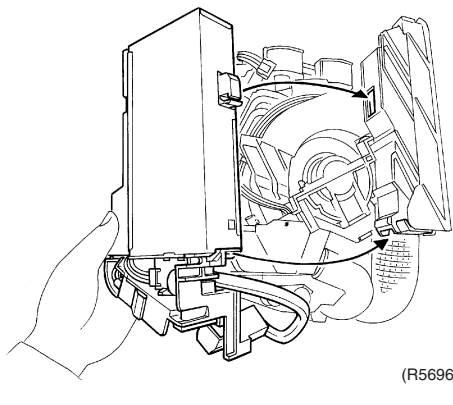
Step	Procedure	Points
5	<p>Disconnect the connector for the dehumidifying solenoid valve coils [S43].</p> 	
6	<p>Disconnect the connector for the streamer unit PCB [S52].</p> 	
7	<p>Disconnect the connector for the swing motors [S41].</p> 	<ul style="list-style-type: none"> <li>■ The connector [S41] is for both horizontal blades and vertical blades.</li> </ul>

Step	Procedure	Points
8	<p data-bbox="210 219 472 376">Disconnect the connector for the fan motor [S1] and release the lead wire from the hook.</p>  	



Step	Procedure	Points
9	<p>Remove the screw and remove the drip proof cover.</p> 	
10	<p>Remove the 2 screws of the earth wires.</p> 	
11	<p>Pull out the indoor heat exchanger thermistor.</p> 	<p>■ Be careful not to lose the clip for the thermistor.</p>
2. Remove the electrical box.		
1	<p>Remove the screw of the electrical box.</p> 	



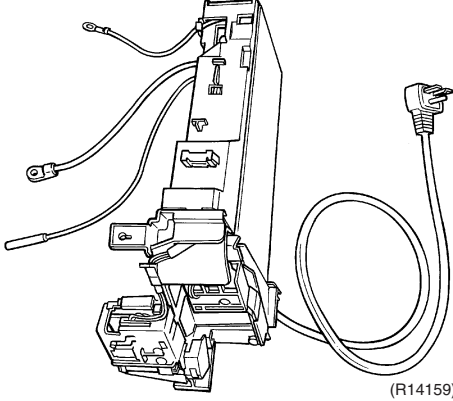
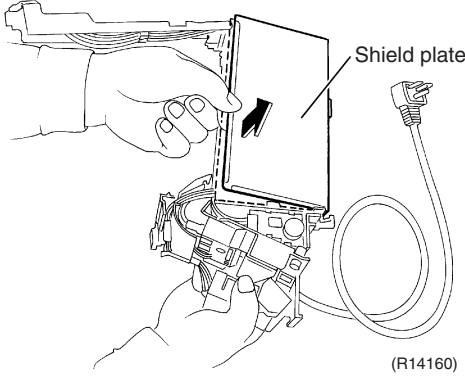
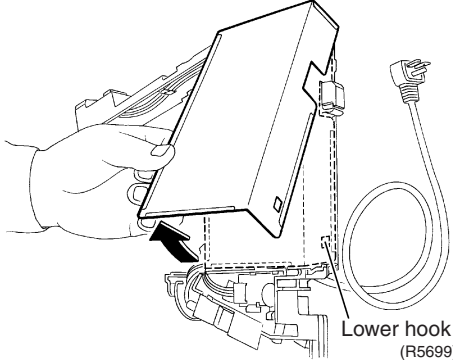
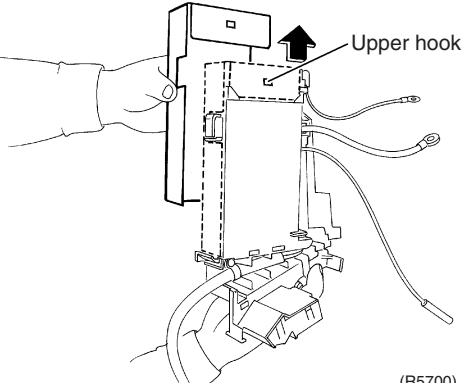
Step	Procedure	Points
2	<p>Close the electrical box cover and slide the electrical box to unfasten the hook in the key hole.</p>  <p>(R5693)</p>	
3	<p>Push up the bottom side of the electrical box or push the bottom frame to the back.</p>  <p>(R5694)</p>	
4	<p>Unfasten the upper hook.</p>  <p>(R5695)</p>	
5	<p>The figure shows the shapes of the hook on the back side.</p>  <p>(R5696)</p>	<ul style="list-style-type: none"> <li>■ When reassembling, insert the upper hook and push slightly, and then make sure to catch the lower hook.</li> </ul>

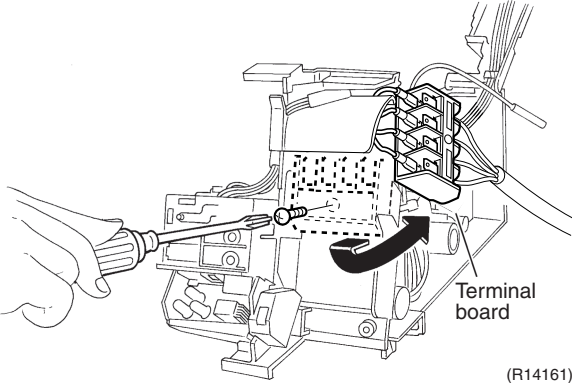
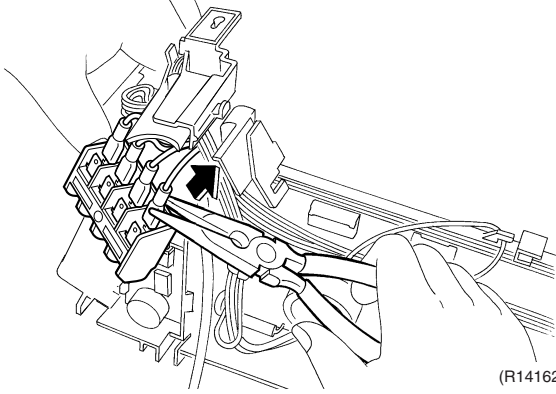
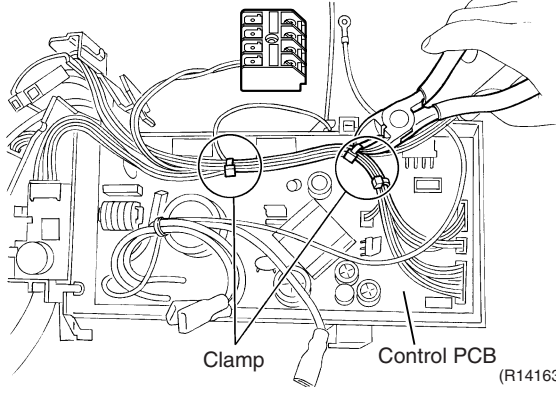
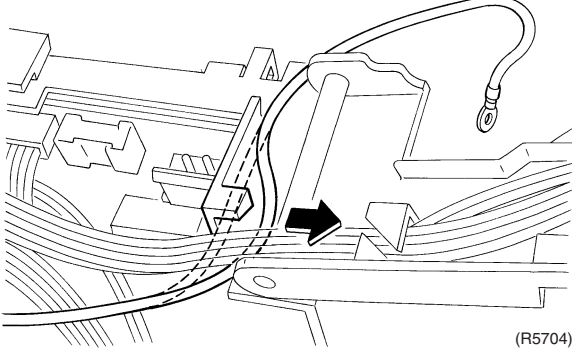
# 7. Removal of PCBs

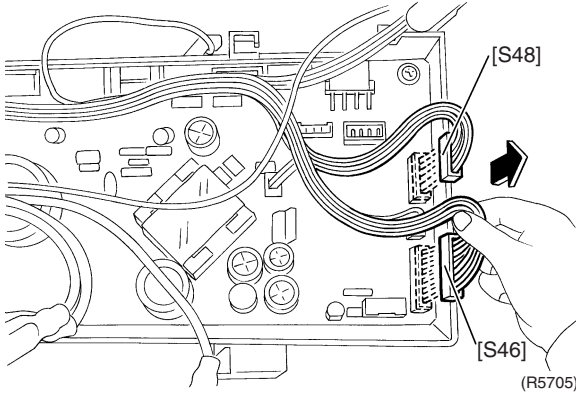
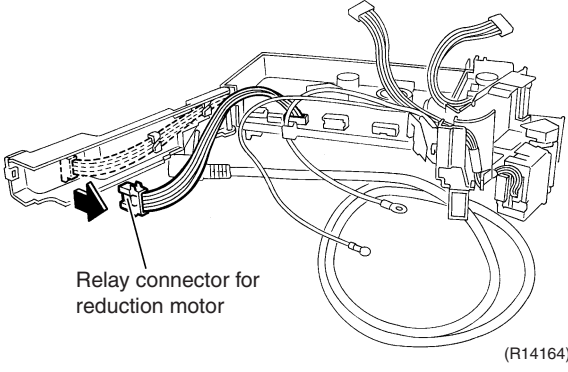
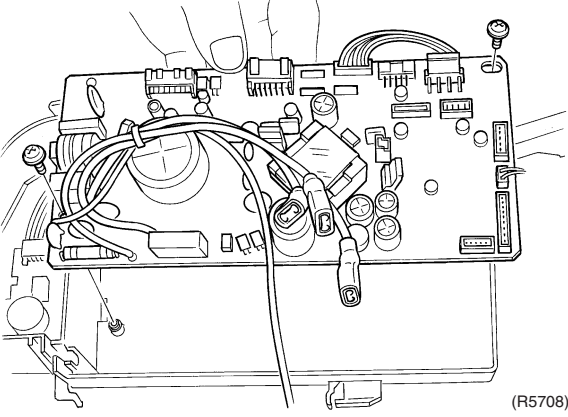
**Procedure**

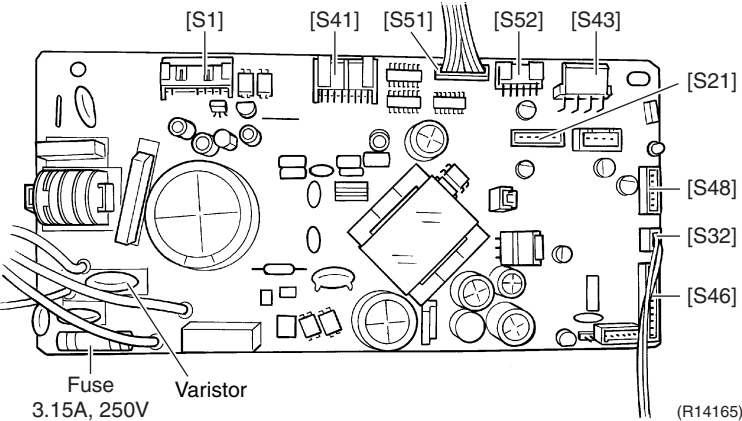
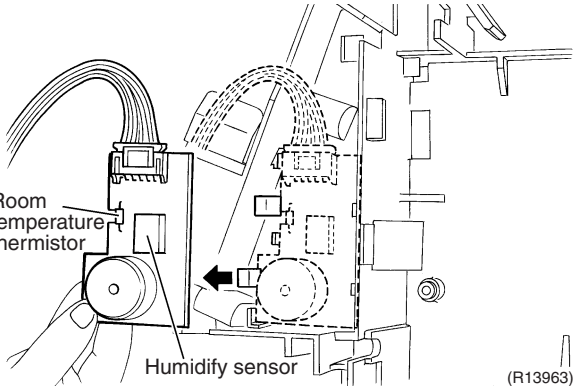
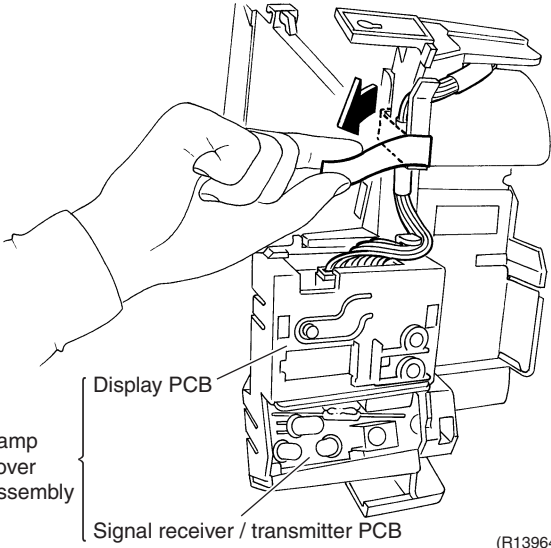


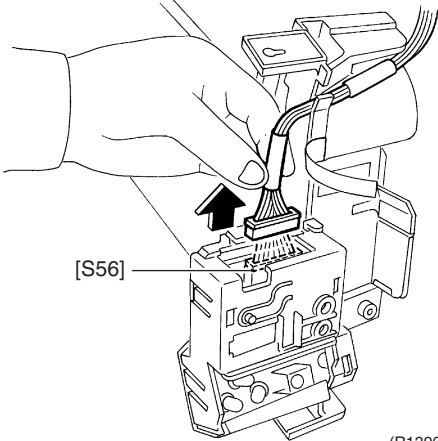
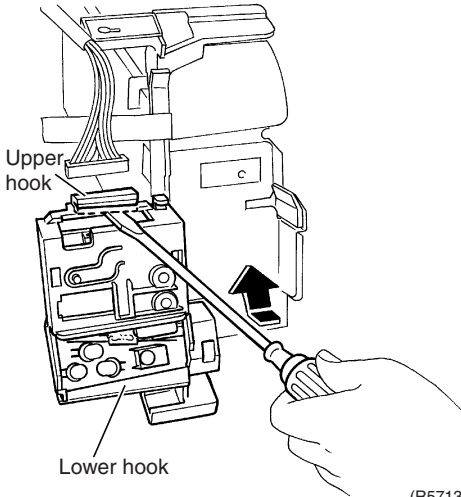
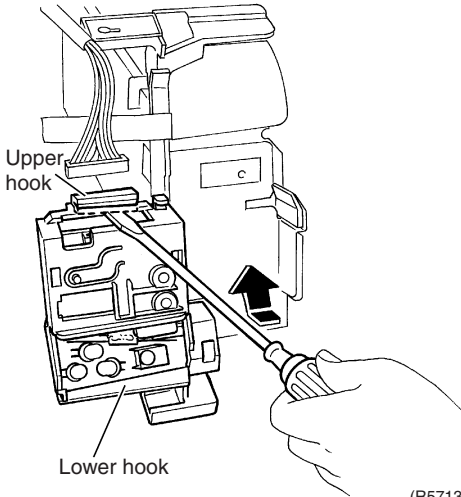
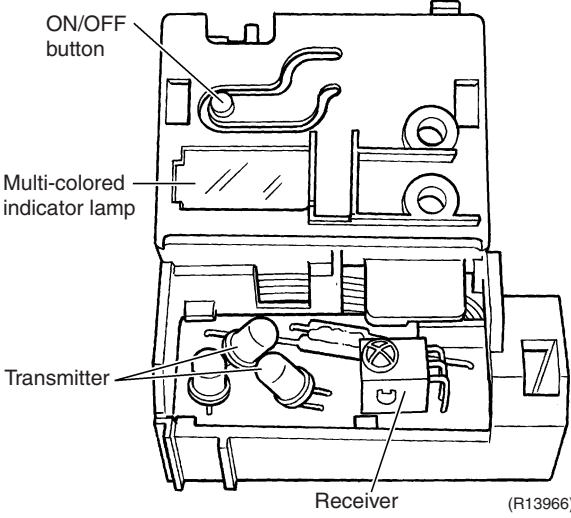
**Warning** Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

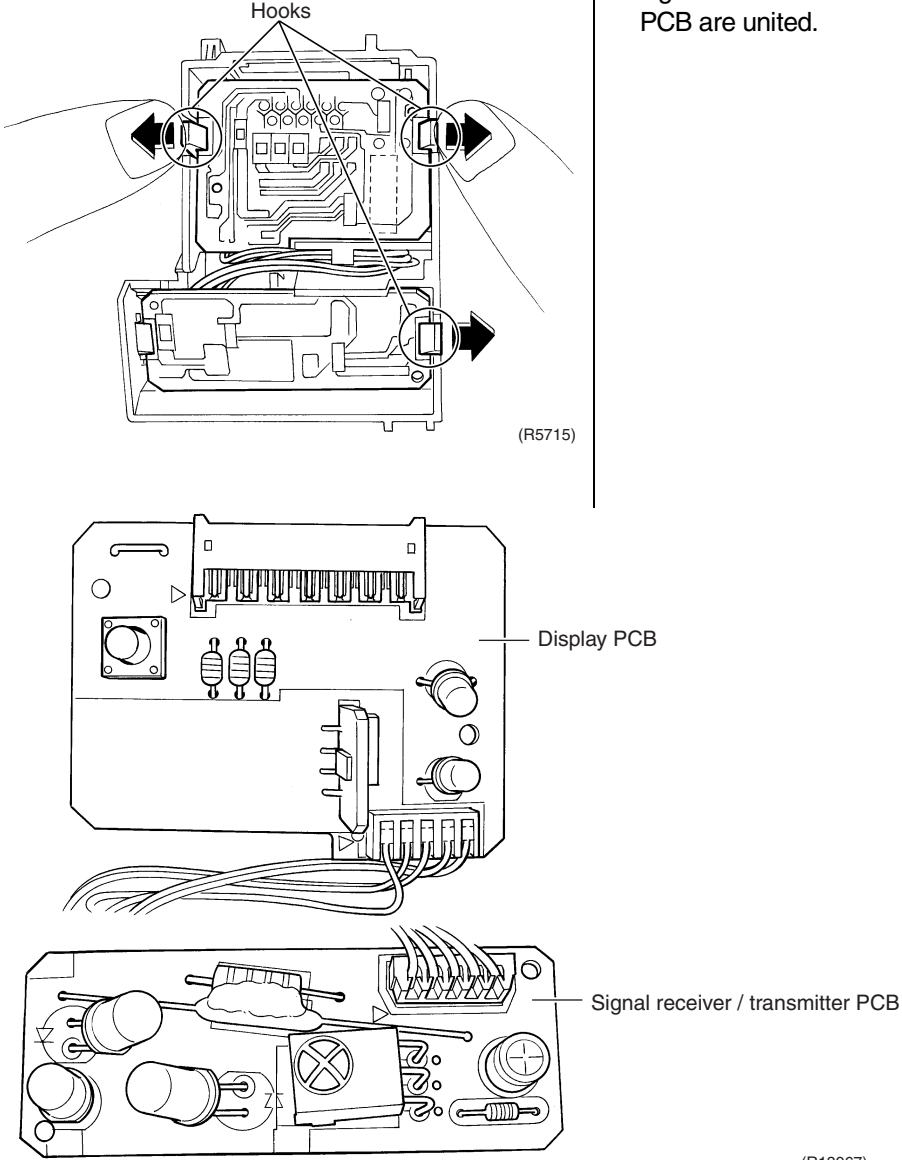
Step	Procedure	Points
<p>1. Remove the shield plate</p> <p>1 External appearance of the electrical box</p> <p>2 Unfasten the hook of the shield plate.</p> <p>3 While opening the shield plate, unfasten the lower hook.</p> <p>4 Lift the shield plate up to unfasten the upper hook and remove it.</p>	 <p>(R14159)</p>  <p>Shield plate</p> <p>(R14160)</p>  <p>Lower hook</p> <p>(R5699)</p>  <p>Upper hook</p> <p>(R5700)</p>	<p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>Remove the electrical box according to "Removal of Electrical Box".</li> </ul>

Step	Procedure	Points
2. Remove the terminal board.	<p data-bbox="209 286 475 376">1 Remove the screw and pull out the terminal board.</p>  <p data-bbox="1007 629 1077 651">(R14161)</p> <p data-bbox="209 674 475 730">2 Disconnect the terminals with pliers.</p>  <p data-bbox="1007 1088 1077 1111">(R14162)</p>	<p data-bbox="1098 674 1406 797">Black..... (1) power supply White ..... (2) power supply Red ..... (3) signal Green..... earth</p>
3. Remove the control PCB.	<p data-bbox="209 1167 475 1200">1 Cut the 3 clamps.</p>  <p data-bbox="1007 1547 1077 1570">(R14163)</p> <p data-bbox="209 1592 475 1648">2 Release the earth wire from the hook.</p>  <p data-bbox="1007 1973 1077 1995">(R5704)</p>	<p data-bbox="1098 1133 1453 1189">■ When reassembling, fix the harnesses with clamps.</p>

Step	Procedure	Points
3	<p>Disconnect the connectors [S46] [S48].</p> 	<p>[S46]: display PCB [S48]: humidity sensor PCB</p>
4	<p>Pull out the relay connector for the reduction motor while pinching the connector from the back side of the electrical box cover.</p> 	
5	<p>Remove the 2 screws and remove the control PCB.</p> 	

Step	Procedure	Points
6	Names of parts of the control PCB	 <p>[S1]: fan motor</p> <p>[S21]: HA</p> <p>[S32]: indoor heat exchanger thermistor</p> <p>[S41]: swing motors</p> <p>[S43]: dehumidifying solenoid valve coils</p> <p>[S46]: display PCB</p> <p>[S48]: humidity sensor PCB</p> <p>[S51]: reduction motor, limit switch</p> <p>[S52]: streamer unit PCB</p> <p>(R14165)</p>
4.	Remove the humidity sensor PCB.	
1	Unfasten the hook and pull out the humidity sensor PCB.	 <p>(R13963)</p>
5.	Remove the display PCB and the signal receiver / transmitter PCB.	
1	Peel off the tape.	 <p>(R13964)</p>

Step		Procedure	Points
2	Disconnect the connector [S56].	 <p>(R13965)</p>	[S56]: control PCB
3	Unfasten the upper hook with a flat screwdriver.	 <p>(R5713)</p>	
4	Unfasten the lower hook.	 <p>(R5713)</p>	
5	Remove the lamp cover assembly.	 <p>(R13966)</p>	

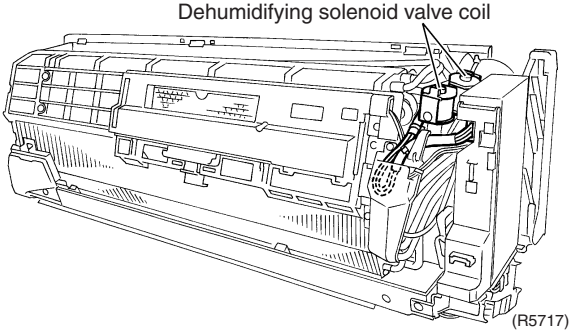
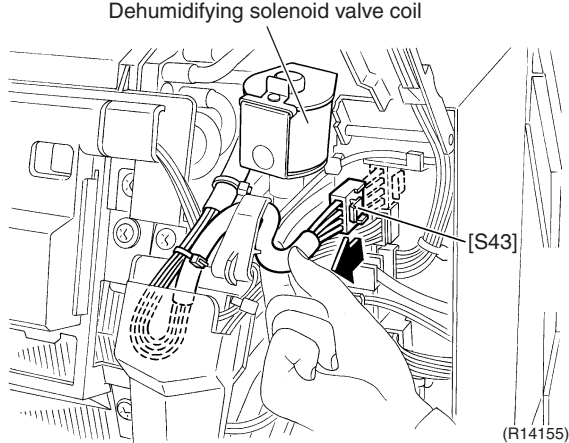
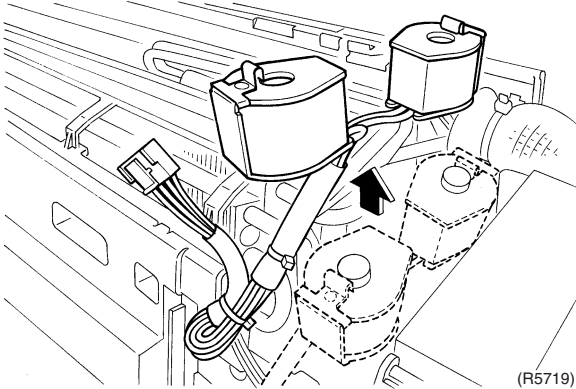
Step	Procedure	Points
6	<p data-bbox="210 219 475 376">Unfasten the 3 hooks and remove the display PCB and the signal receiver / transmitter PCB.</p>  <p data-bbox="746 273 817 295">Hooks</p> <p data-bbox="1018 698 1082 721">(R5715)</p> <p data-bbox="1034 900 1161 922">Display PCB</p> <p data-bbox="1088 1258 1404 1281">Signal receiver / transmitter PCB</p> <p data-bbox="1305 1429 1369 1451">(R13967)</p>	<ul style="list-style-type: none"> <li data-bbox="1104 219 1455 309">■ The display PCB and the signal receiver / transmitter PCB are united.</li> </ul>

# 8. Removal of Dehumidifying Solenoid Valve Coils

**Procedure**



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

Step	Procedure	Points
1	<p>Disconnect the connector for the dehumidifying solenoid valve coils [S43].</p>  	<p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>Remove the front grille according to "Removal of Front Grille".</li> </ul>
2	<p>Pull out the dehumidifying solenoid valve coils to remove.</p> 	<ul style="list-style-type: none"> <li>The dehumidifying solenoid valve coils do not need screws.</li> </ul>

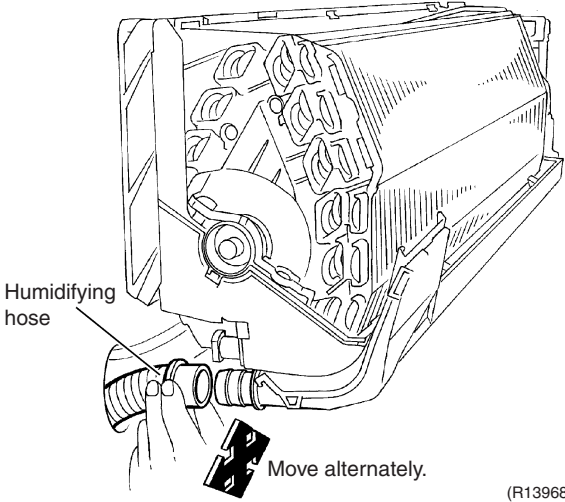
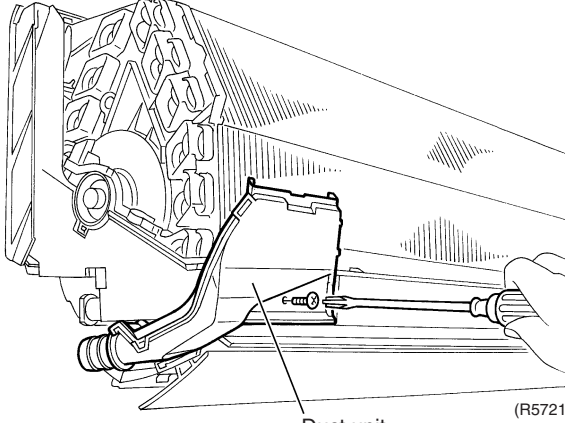
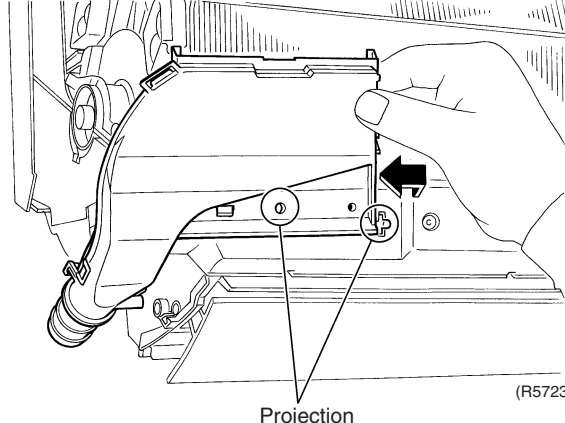


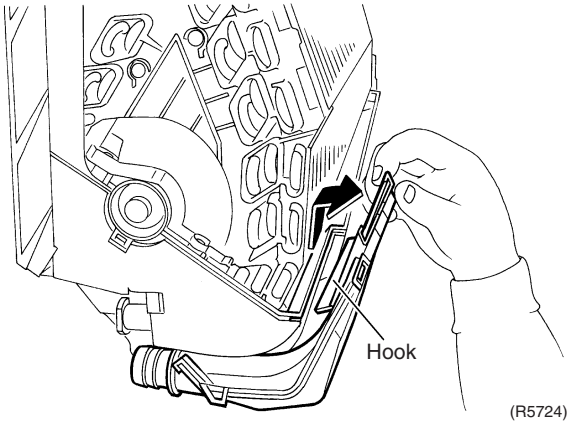
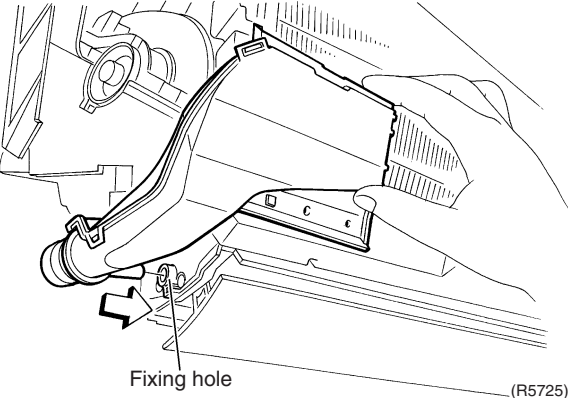
## 9. Removal of Connecting Duct

### Procedure



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

Step	Procedure	Points
1	Detach the humidifying hose from the duct unit. 	<b>Preparation</b> <ul style="list-style-type: none"> <li>■ Remove the front grille according to "Removal of Front Grille".</li> <li>■ Since inside of the humidifying hose has ridges, move the hose up and down to remove.</li> </ul>
2	Remove the screw of the duct unit. 	
3	Lift the right side to unfasten the projections and slide the duct unit to the left. 	

Step	Procedure	Points
4	<p>Pull out the duct unit and remove it.</p>  <p style="text-align: right;">(R5724)</p>	
5	<p>When reassembling, make sure to insert the projection into the fixing hole.</p>  <p style="text-align: right;">(R5725)</p>	

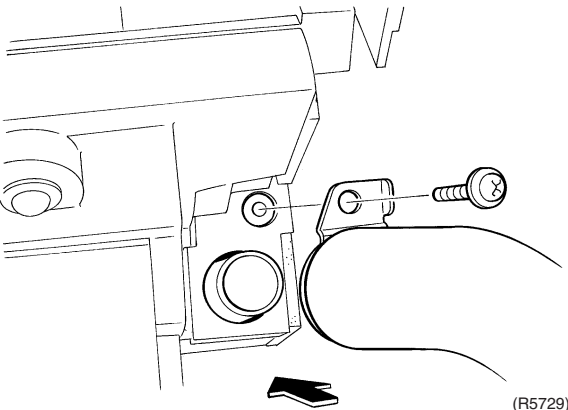
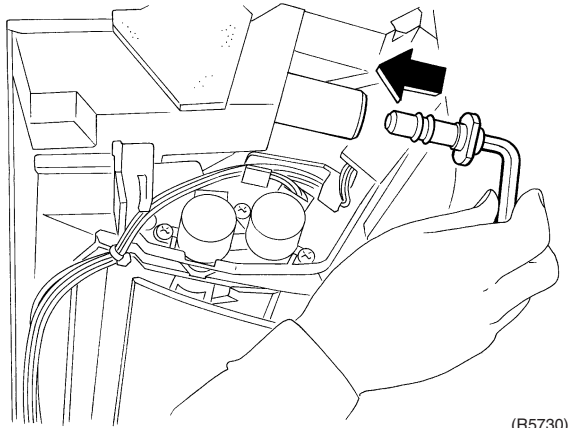
# 10. Removal of Drain Hose

**Procedure**



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

Step	Procedure	Points
<p>1. Remove the drain hose.</p> <p>1 Remove the 2 screws which fix the indoor unit to the installation plate.</p> <p>2 Lift the indoor unit slightly and pull out the drain hose.</p> <p>3 Remove the screw on the back side and pull out the drain hose.</p>	<p style="text-align: right;">(R5726)</p> <p style="text-align: center;">Drain hose</p> <p style="text-align: right;">(R5727)</p>	<ul style="list-style-type: none"> <li>■ Cover the drain hose with plastic bags or the like so as the remaining drain will not wet the floor.</li> <li>■ Part A is fixed by a screw from the back side. When replacing the drain hose, make sure to tighten the screw as there is no gap between the heat insulator and the drain hose.</li> </ul>
<p>2. How to conduct piping to the opposite side</p> <p>1 Detach the drain plug.</p>	<p style="text-align: right;">(R5728)</p>	

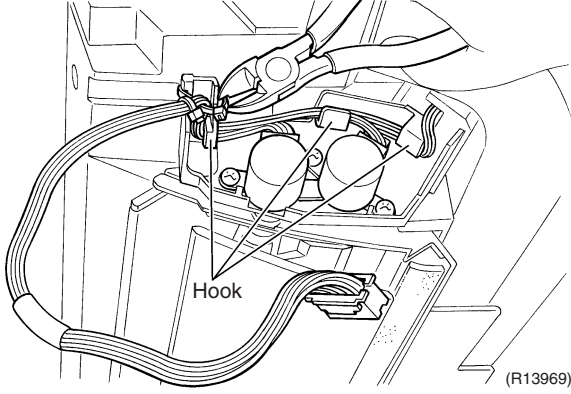
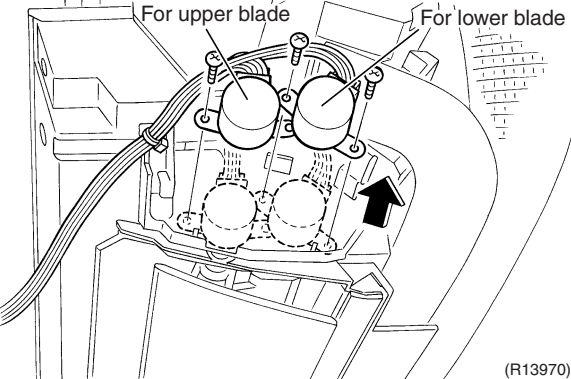

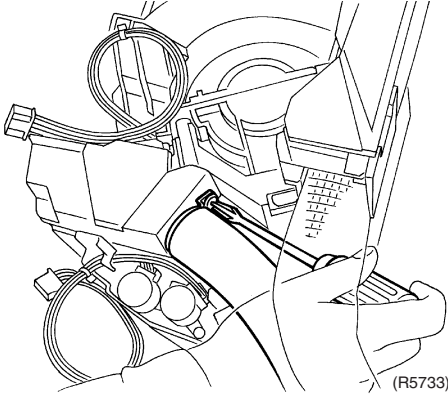
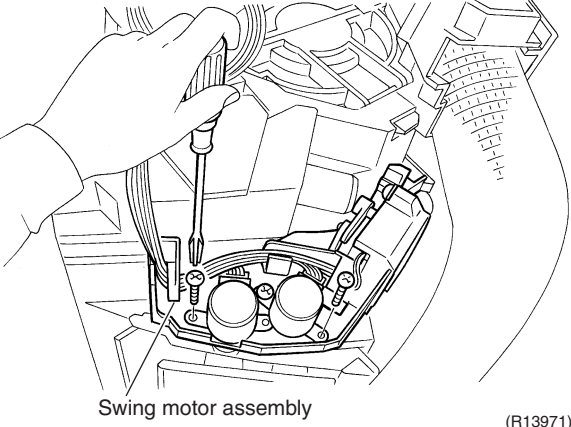
Step	Procedure	Points
2	<p>Insert the drain hose removed in the previous step and tighten the screw.</p>  <p>(R5729)</p>	<ul style="list-style-type: none"> <li>■ Make sure that the drain hose is inserted firmly.</li> </ul>
3	<p>Insert the detached drain plug with a hexagonal wrench (4 mm).</p>  <p>(R5730)</p>	<p><b>⚠ Caution</b>            Do not push the drain plug with a sharp device like a screwdriver. (The drain plug can be damaged and that causes leakage of water.)</p>

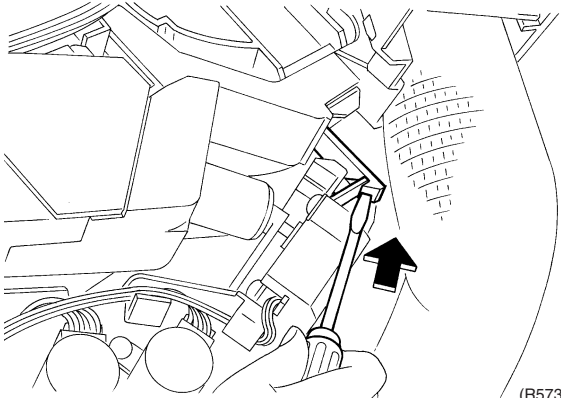
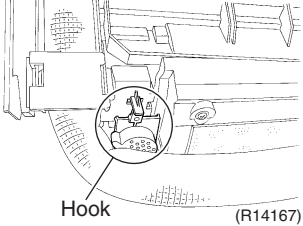
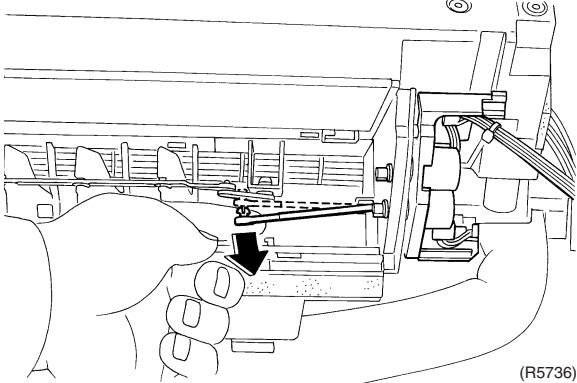
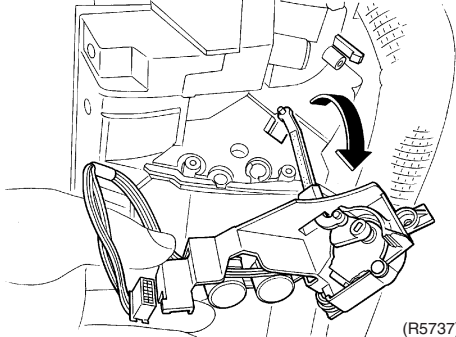
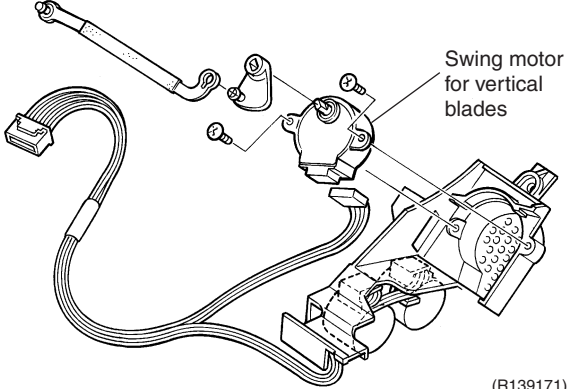
# 11. Removal of Swing Motors

## Procedure



**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 swing motors for horizontal blades.  1 Cut the clamp.  2 Release the lead wire for the swing motors from the 3 hooks.  3 Remove the 2 screws and remove the swing motor for the lower blade (small).  4 Remove the screw and remove the swing motor for the upper blade (large).	 	<b>Preparation</b> ■ Remove the electrical box according to "Removal of Electrical Box".   <b>Caution</b> <b>When reassembling, do not confuse the installing order of the 2 motors and the colors of the connectors. If you set the connectors or motors opposite, the horizontal blades do not move smoothly or the noise may be heard.</b> (1) Set the motor for the upper blade first. (connector: green) (2) Then, set the motor for the lower blade. (connector: red)
2. Remove the swing motor for vertical blades.  1 Remove the screw of the drain hose.  2 Remove the 2 screws of the swing motor assembly.	 	

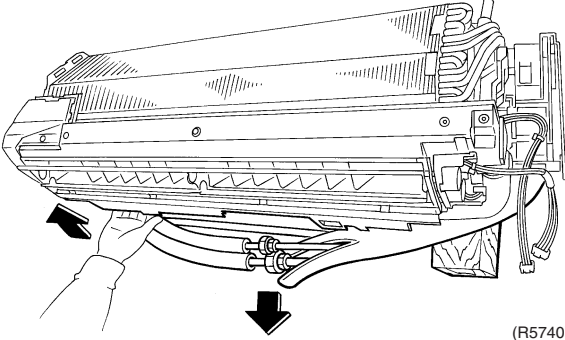
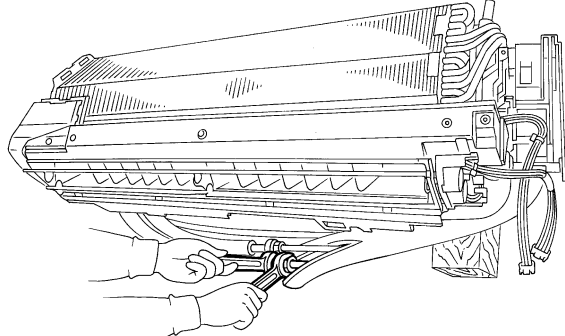
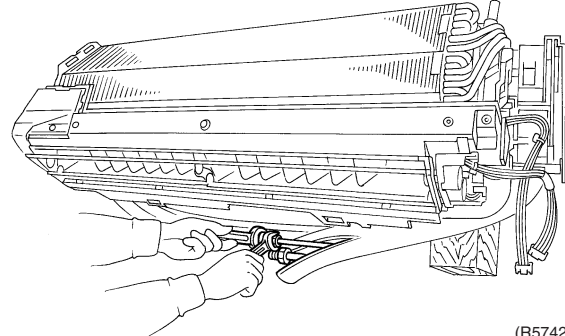
Step	Procedure	Procedure	Points
3	Unfasten the upper hook of the swing motor assembly with a flat screwdriver.	 <p>(R5735)</p>	 <p>Hook (R14167)</p>
4	Unfasten the hook of the connecting shaft for vertical blades.	 <p>(R5736)</p>	
5	Remove the swing motor assembly.	 <p>(R5737)</p>	
6	Remove the 2 screws and remove the swing motor for vertical blades.	 <p>Swing motor for vertical blades</p> <p>(R139171)</p>	

# 12. Removal of Indoor Heat Exchanger

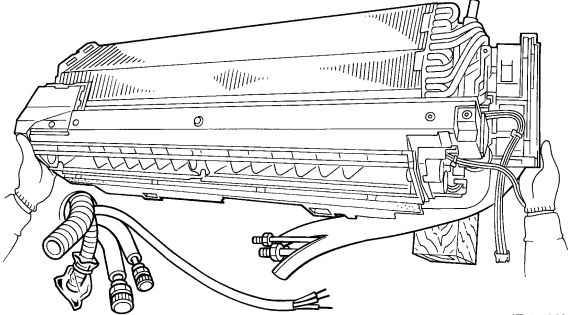
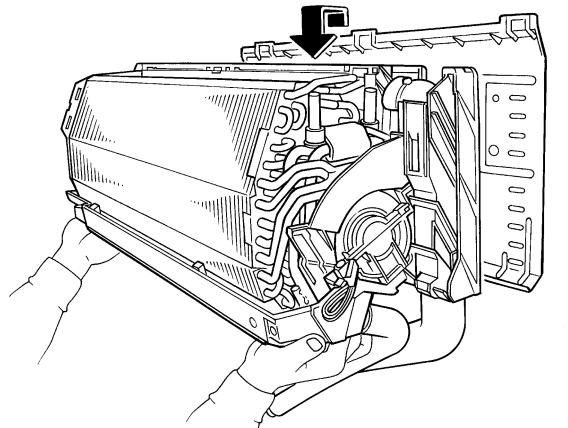
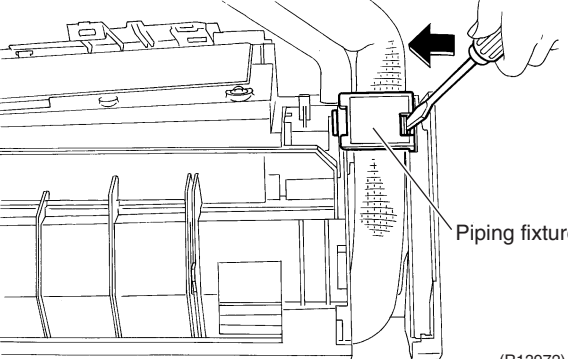
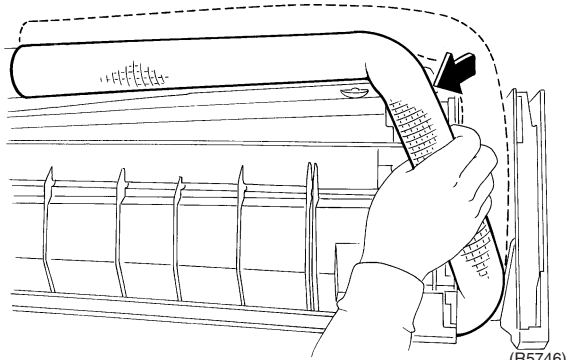
## Procedure



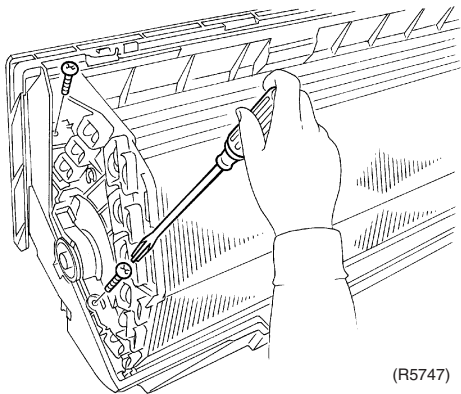
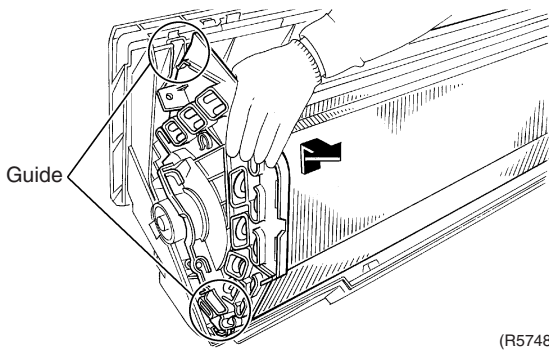
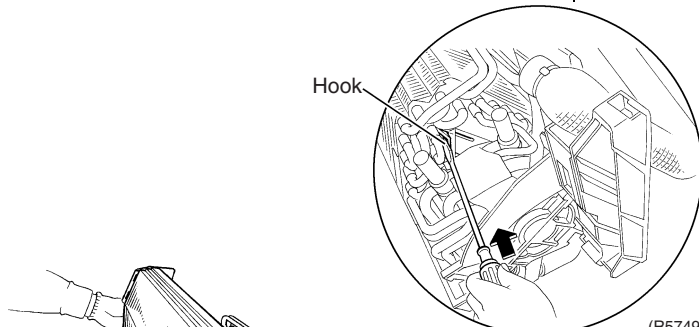
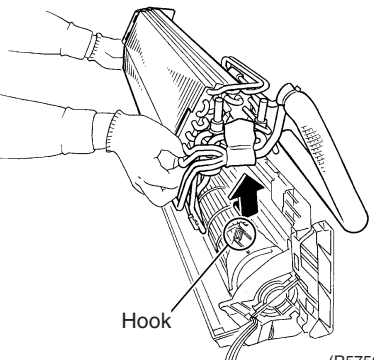
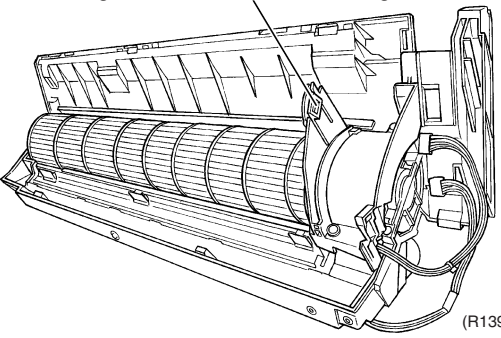
**Warning** Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Disconnect the refrigerant piping.		<b>Preparation</b> <ul style="list-style-type: none"> <li>■ Remove the drain hose according to "Removal of Drain Hose".</li> </ul>
1 Put a wooden block under the indoor unit and pull out the refrigerant piping, drain hose, connection wirings, and so on.	 <p style="text-align: right;">(R5740)</p>	
2 Disconnect the flare nut for gas piping with 2 wrenches.	 <p style="text-align: right;">(R5741)</p>	<p><b>! Caution</b> 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.</p>
3 Disconnect the flare nut for liquid piping with 2 wrenches.	 <p style="text-align: right;">(R5742)</p>	<p><b>! Caution</b> 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 to generate an over-pressure in refrigeration cycle, thus resulting in pipe rupture or accidental injury.</p> <ul style="list-style-type: none"> <li>■ Place a plastic sheet under the drain pan to prevent from wetting the floor with remaining drain.</li> <li>■ If the drain hose is embedded in the wall, disconnect the drain hose beforehand.</li> <li>■ Carry out the removal works with 2 wrenches.</li> <li>■ When the pipes are disconnected, protect both the openings of pipe and unit from entering of moisture.</li> </ul>



Step	Procedure	Points
<p>2. Remove the indoor unit.</p>	<p>1 Remove the indoor unit from the installation plate.</p>  <p>(R5743)</p>  <p>(R5744)</p>	
<p>3. Remove the indoor heat exchanger.</p>	<p>1 Unfasten the hook of the piping fixture at the back of the indoor unit and pull out the pipe.</p>  <p>Piping fixture</p> <p>(R13972)</p> <p>2 Slightly widen the auxiliary pipe.</p>  <p>(R5746)</p>	



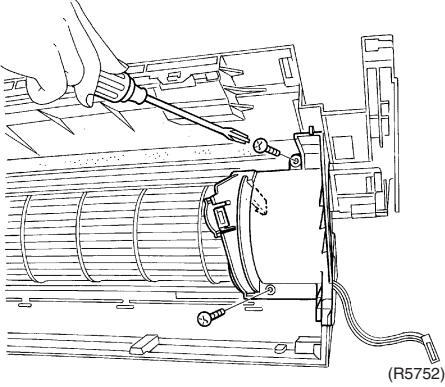
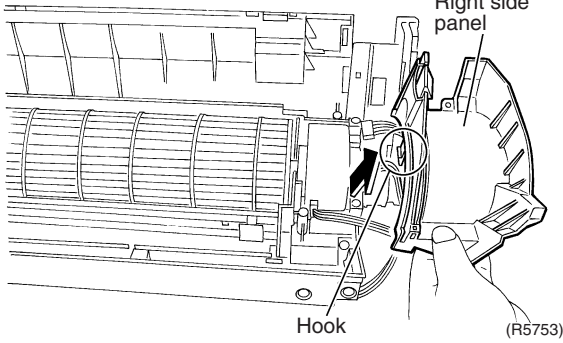
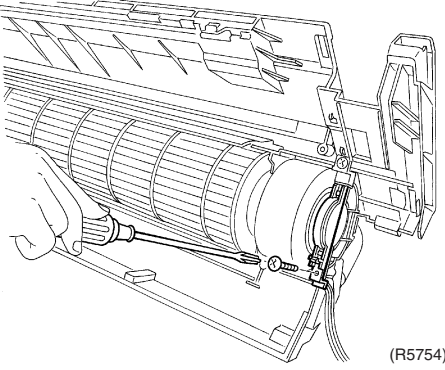
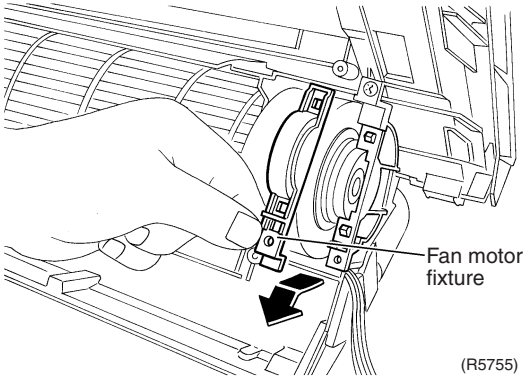
Step	Procedure	Points
3	<p>Remove the 2 screws on the left.</p>  <p>(R5747)</p>	
4	<p>Lift the left side of the indoor heat exchanger, and pull out.</p>  <p>Guide</p> <p>(R5748)</p>	<p><b>! Caution</b>  <b>When removing or reinstalling the indoor heat exchanger, be sure to wear protective gloves or wrap the indoor heat exchanger with cloths. (You may be injured by the fins.)</b></p>
5	<p>Unfasten the hook through the gap of the pipings.</p>  <p>Hook</p> <p>(R5749)</p>	
6	<p>Slide the indoor heat exchanger to the right to unfasten the hook and lift it up.</p>  <p>Hook</p> <p>(R5750)</p> <p>Fixing hook for indoor heat exchanger</p>  <p>(R13973)</p>	<p>■ Be careful so the solenoid valves will not be caught in the hook.</p>

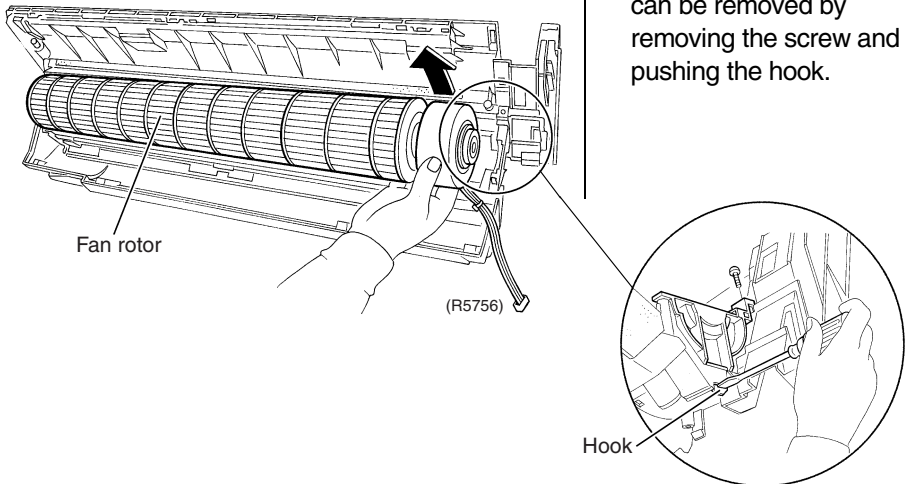
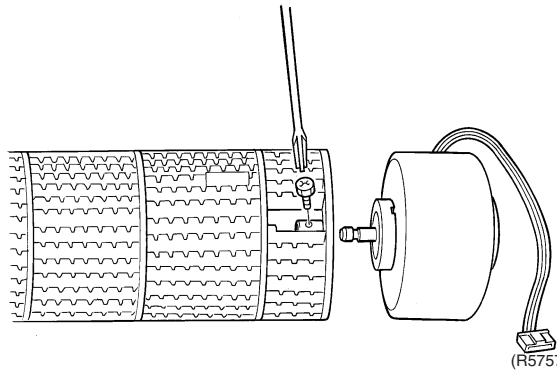
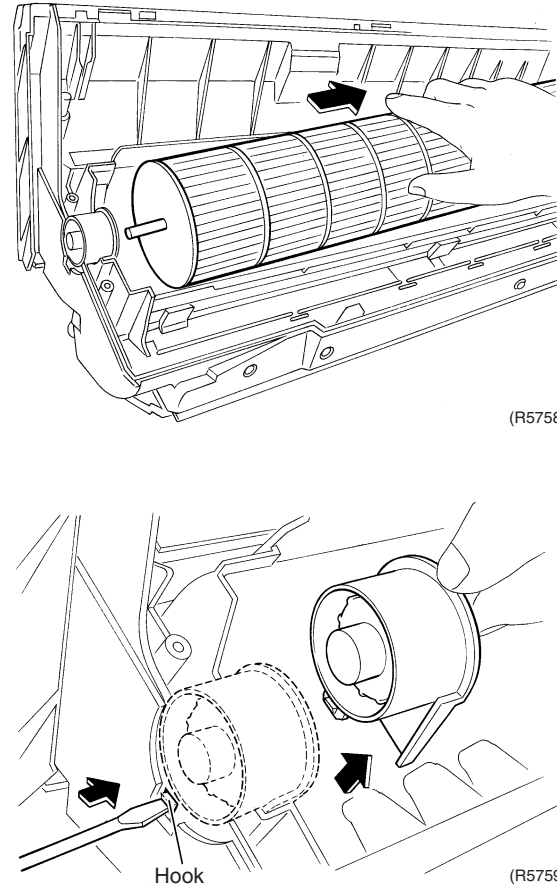
# 13. Removal of Fan Rotor / Fan Motor

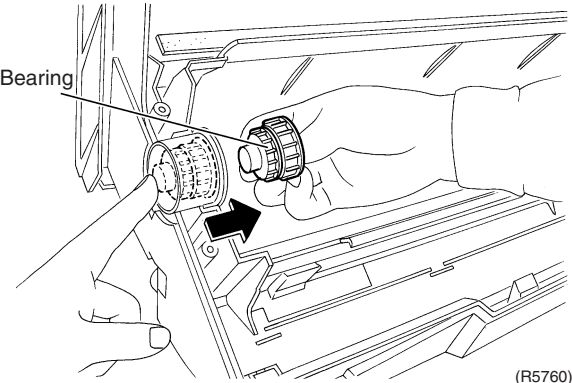
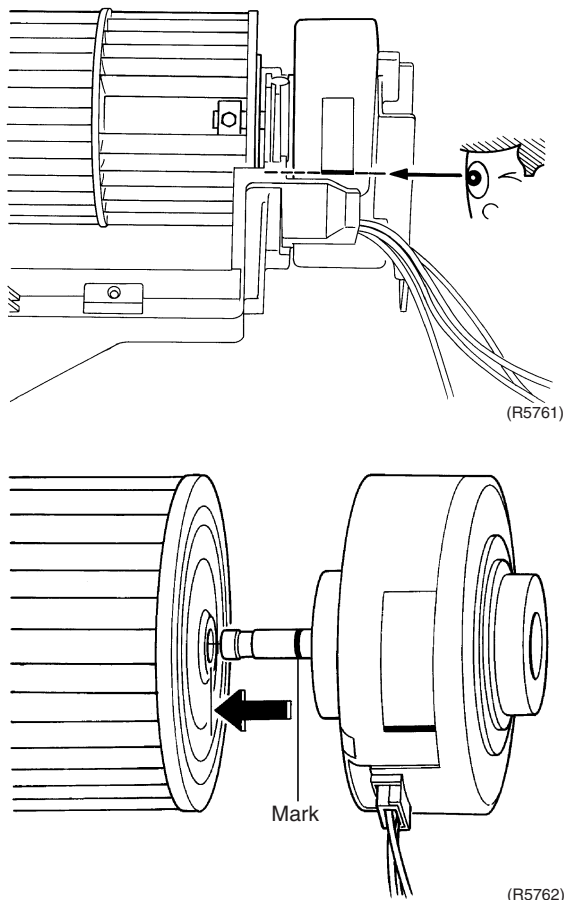
**Procedure**



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

Step	Procedure	Points
<p>1. Remove the right side panel.</p> <p>1 Remove the 2 screws of the right side panel.</p> <p>2 Unfasten the far side hook while pulling out and remove it.</p>	 <p>(R5752)</p>  <p>Right side panel</p> <p>Hook</p> <p>(R5753)</p>	<p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>Remove the indoor heat exchanger according to "Removal of Indoor Heat Exchanger".</li> </ul>
<p>2. Remove the fan rotor.</p> <p>1 Remove the screw of the fan motor fixture.</p> <p>2 Unfasten the 2 hooks and remove the fan motor fixture.</p>	 <p>(R5754)</p>  <p>Fan motor fixture</p> <p>(R5755)</p>	

Step	Procedure	Points
3	<p>Remove the fan motor and fan rotor.</p>  <p>Fan rotor</p> <p>(R5756)</p> <p>Hook</p>	<ul style="list-style-type: none"> <li>■ The fan motor fixture (lower) can be removed by removing the screw and pushing the hook.</li> </ul>
3. Remove the fan motor.	<ol style="list-style-type: none"> <li>1 Loosen the fixing screw.</li> <li>2 Remove the fan motor from the fan rotor.</li> </ol>  <p>(R5757)</p>	
4. Remove the bearing.	<ol style="list-style-type: none"> <li>1 Remove the fan rotor.</li> <li>2 Unfasten the hook of the bearing.</li> </ol>  <p>(R5758)</p> <p>(R5759)</p> <p>Hook</p>	

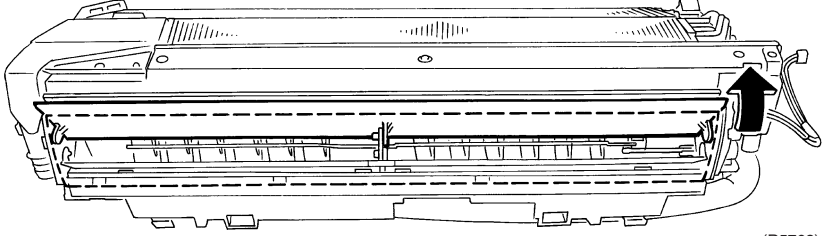
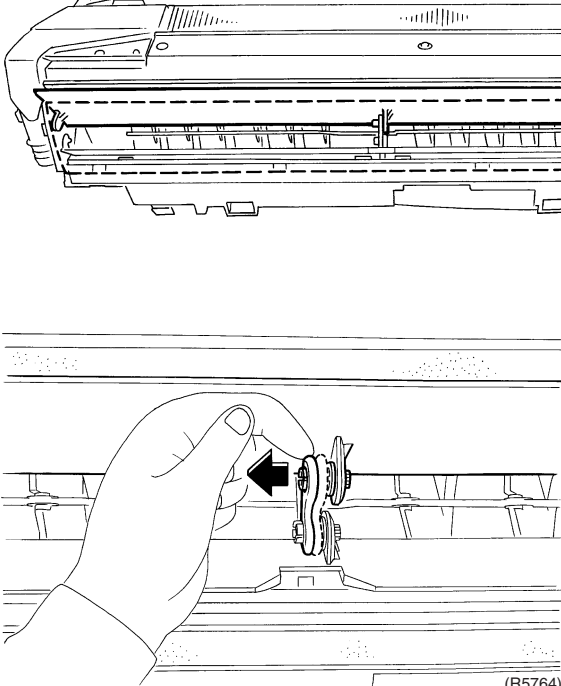
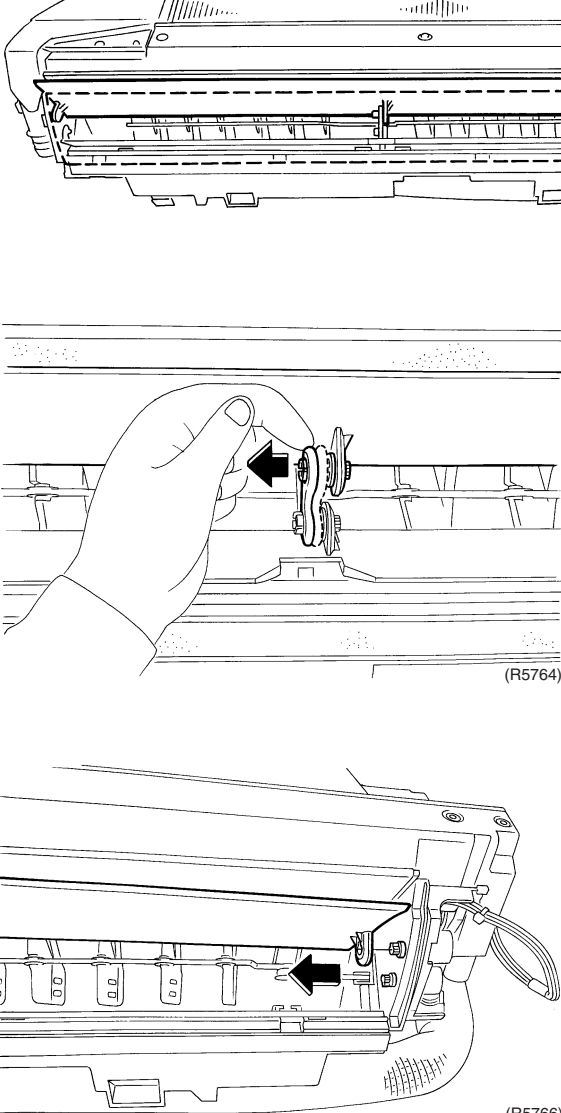
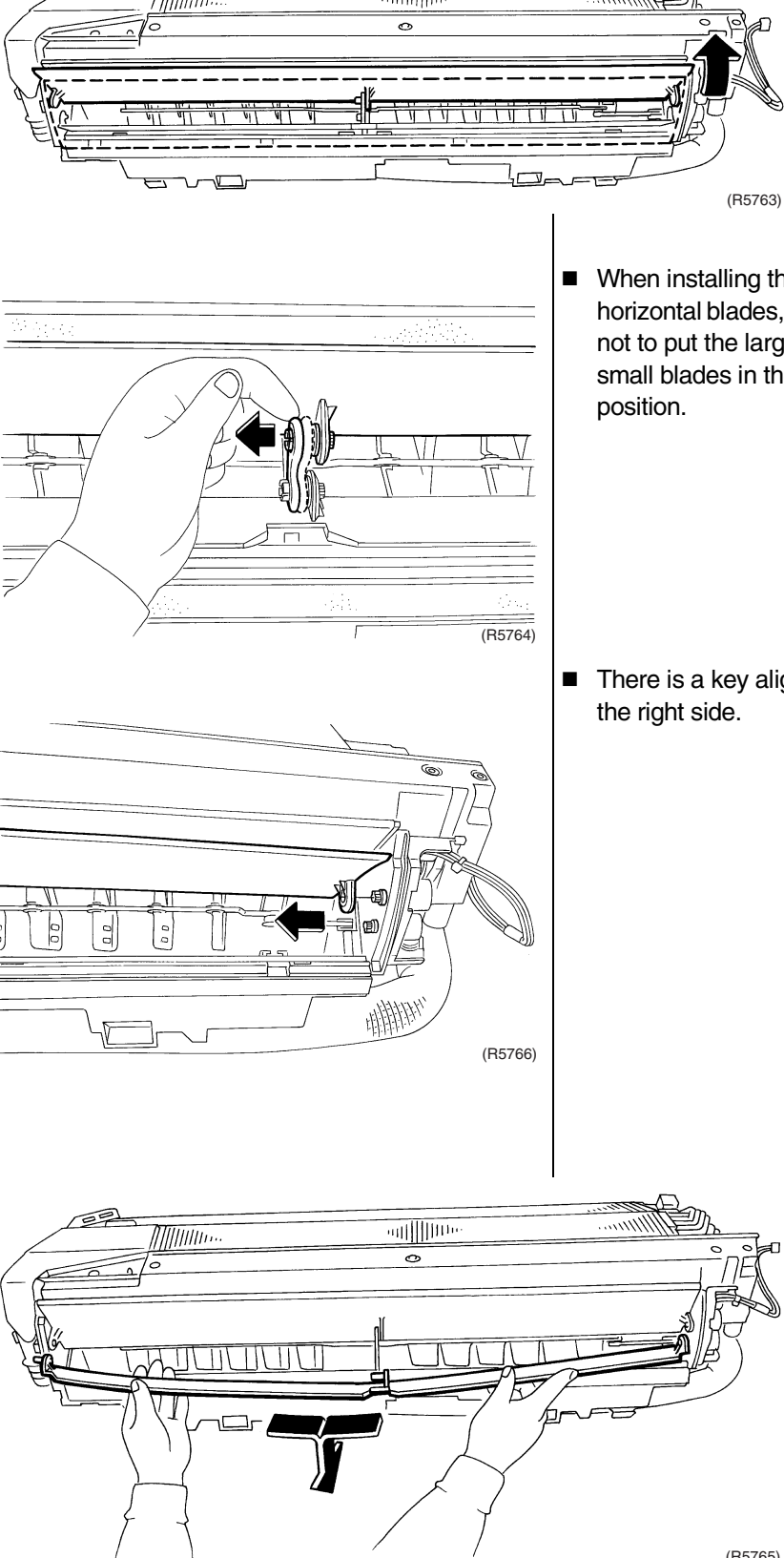
Step	Procedure	Points
3	<p>The bearing is made of rubber. Push it inward firmly and remove it.</p> 	
5. How to install the fan motor	<p>1 When reassembling, align the mark on the shaft.</p> 	

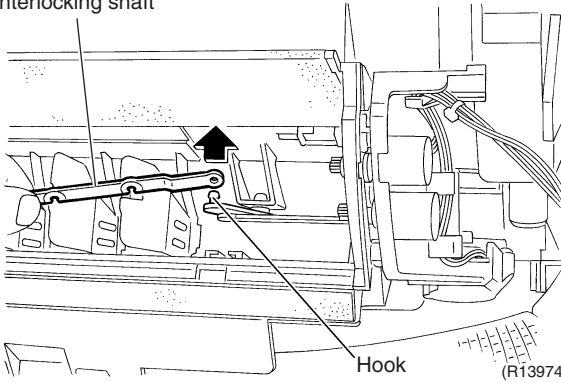
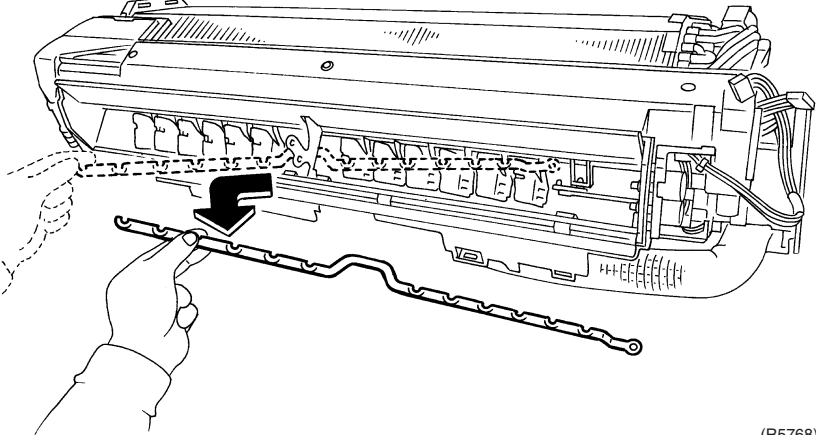
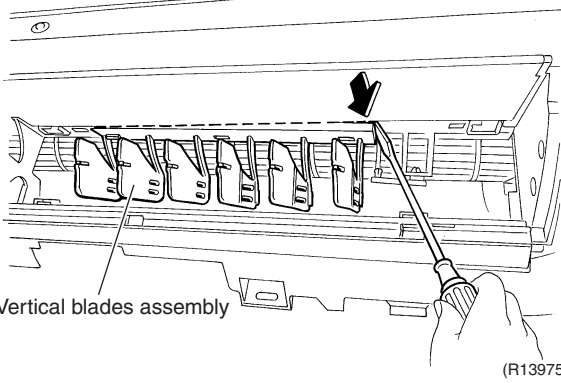
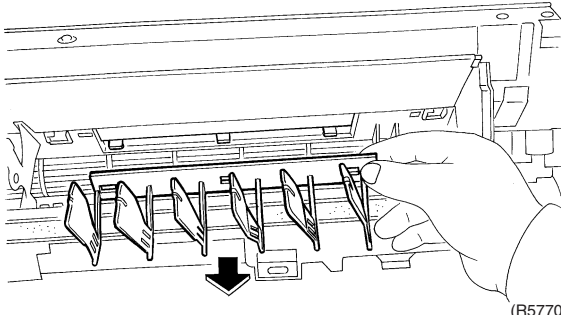
# 14. Removal of Horizontal Blades / Vertical Blades

## Procedure



**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 horizontal blades.		
1	Open the horizontal blade (large).	
	 <p style="text-align: right;">(R5763)</p>	
2	Unfasten the center shaft for the horizontal blade (large).	
3	Unfasten the left shaft while bending the horizontal blade (large) slightly.	
	 <p style="text-align: right;">(R5764)</p>	
4	Unfasten the right shaft and remove the horizontal blade (large).	
	 <p style="text-align: right;">(R5766)</p>	<ul style="list-style-type: none"> <li>■ When installing the horizontal blades, be careful not to put the large and small blades in the wrong position.</li> </ul>
5	Remove the horizontal blade (small) in the same way.	
	 <p style="text-align: right;">(R5765)</p>	<ul style="list-style-type: none"> <li>■ There is a key alignment at the right side.</li> </ul>

Step	Procedure	Points
<p>2. Remove the interlocking shaft.</p> <p>1 Unfasten the hook of the interlocking shaft.</p> <p>2 Remove the interlocking shaft.</p>	<p>Interlocking shaft</p>  <p>Hook (R13974)</p>  <p>(R5768)</p>	
<p>3. Remove the vertical blades.</p> <p>1 Unfasten the 3 hooks of the vertical blades with a flat screwdriver.</p> <p>2 Remove the vertical blades assembly.</p>	<p>Vertical blades assembly</p>  <p>(R13975)</p>  <p>(R5770)</p>	

# 15. Removal of Streamer Unit

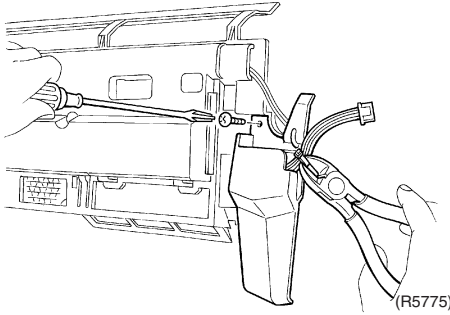
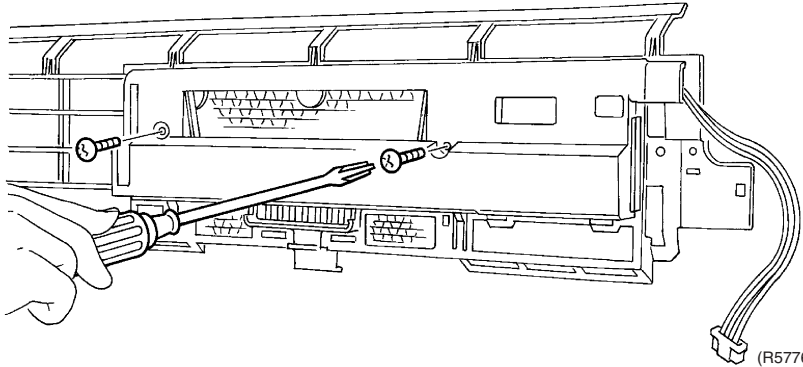
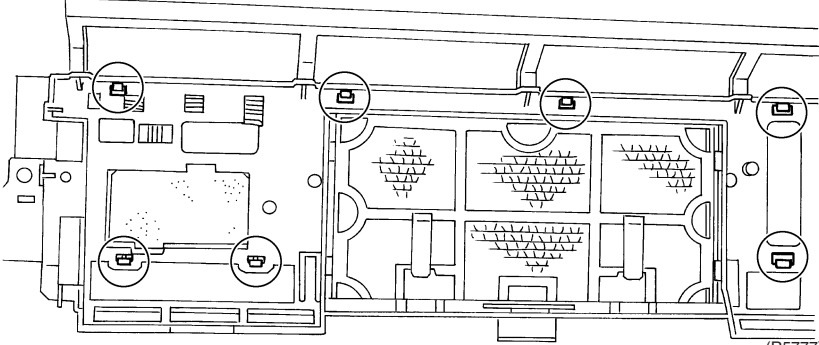
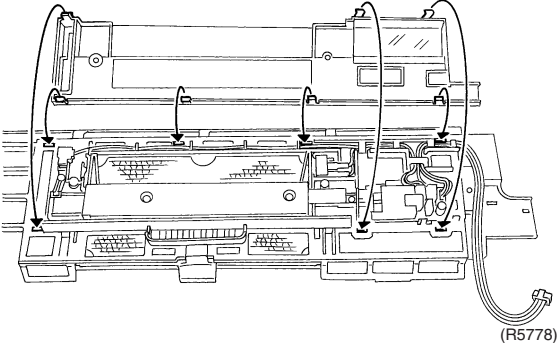
**Procedure**



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

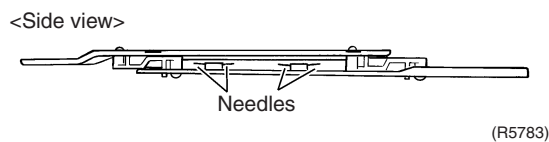
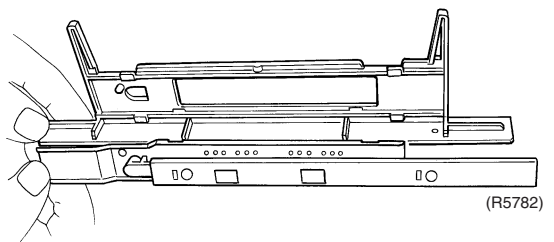
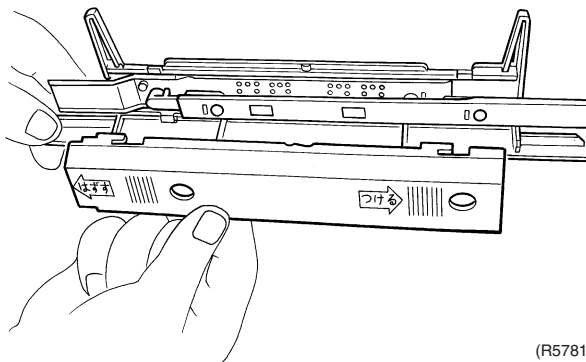
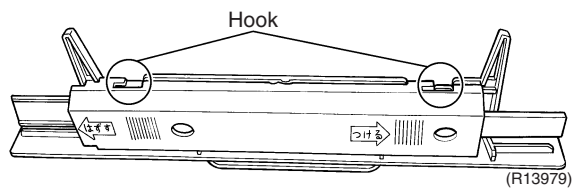
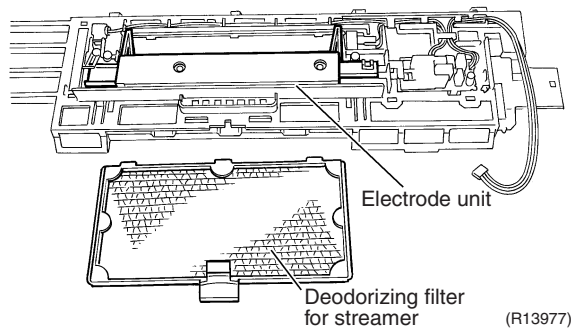
Step	Procedure	Points
1. Remove the streamer unit.	<p>(R13976)</p>	
<p>1 Open the electrical box cover and disconnect the connector for the streamer unit PCB [S52]. Remove the screw of the streamer unit.</p>	<p>(R5772)</p>	
<p>2 Release the wire harness for the dehumidifying solenoid valve coils from the hook of the drip proof cover.</p>	<p>(R5773)</p>	
<p>3 Slide the streamer unit to the right.</p>	<p>(R5773)</p>	
<p>4 Remove the streamer unit.</p>	<p>(R5774)</p>	

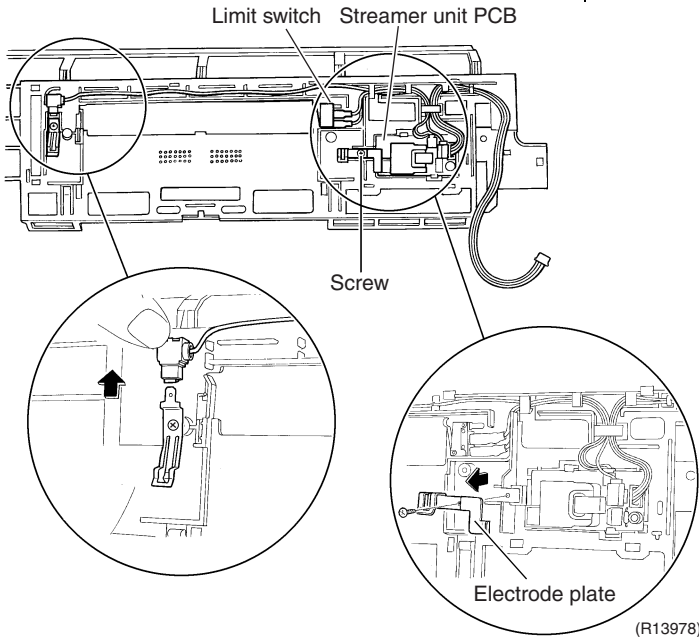
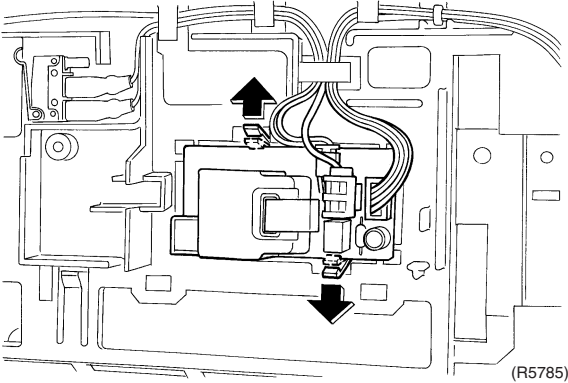
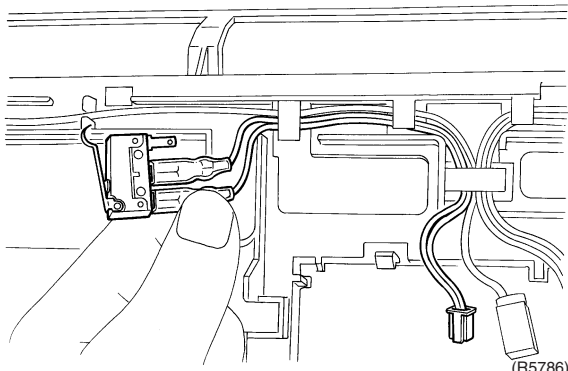


Step	Procedure	Points
5	<p>Cut the clamp and remove the screw of the drip proof cover.</p>  <p>(R5775)</p>	
2.	<p>Remove the cover of the streamer unit.</p>	
1	<p>Remove the 2 screws of the cover.</p>  <p>(R5776)</p>	
2	<p>Turn the streamer unit back and unfasten the 7 hooks.</p>  <p>(R5777)</p>	
3	<p>Remove the cover of the streamer unit.</p>  <p>(R5778)</p>	



Step	Procedure	Points
3.	Remove the deodorizing filter for streamer and the electrode unit.	<ul style="list-style-type: none"> <li>Refer to page 4, 5 for removal of the deodorizing filter for streamer and the electrode unit.</li> </ul>
1	<p>Remove the deodorizing filter for streamer and the electrode unit.</p> <p>2 Slide the cover of the electrode unit to the left and remove it.</p>	<ul style="list-style-type: none"> <li>When reassembling, slide the cover to the right.</li> </ul>



Step	Procedure	Points
4.	Remove the streamer unit PCB.	
1	<p>Remove the screw of the electrode plate with a precise screwdriver.</p>  <p>Limit switch Streamer unit PCB</p> <p>Screw</p> <p>Electrode plate</p> <p>(R13978)</p>	
2	<p>Unfasten the 2 hooks and remove the streamer unit PCB.</p>  <p>(R5785)</p>	
3	<p>Disconnect the connector and remove the limit switch.</p>  <p>(R5786)</p>	

# Revision History

Month / Year	Version	Revised contents
01 / 2013	Si041059	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.

### Dealer

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