




# REMOVAL PROCEDURE



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

### 2.5/3.5 kW Class

-  Indoor Unit
-  Inverter
-  Floor Standing Type



# **Service Manual Removal Procedure**

## **Indoor Unit**

### **●Cooling Only**

**FVKS25BAVMB  
FVKS35BAVMB**

### **●Heat Pump**

**FVXS25BAVMB  
FVXS35BAVMB**

# Table of Contents

1. Removal of the Air Filter / Front Panel .....	2
2. Removal of the Horizontal Blade.....	5
3. Removal of the Electrical Box .....	6
4. Removal of the PCB.....	9
5. Removal of the Heat Exchanger .....	11
6. Removal of the Fan Rotor / Fan Motor.....	13



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

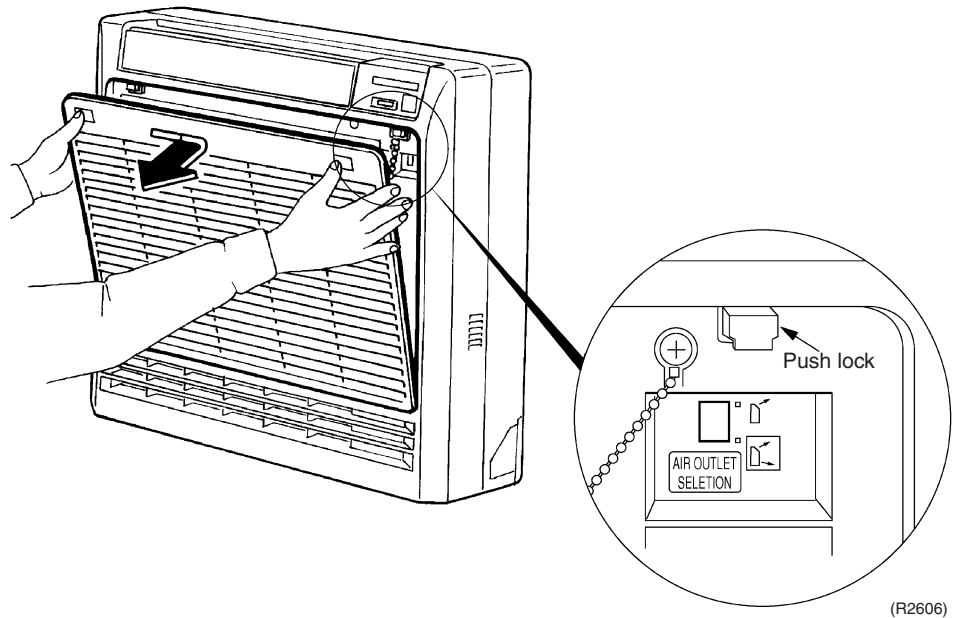
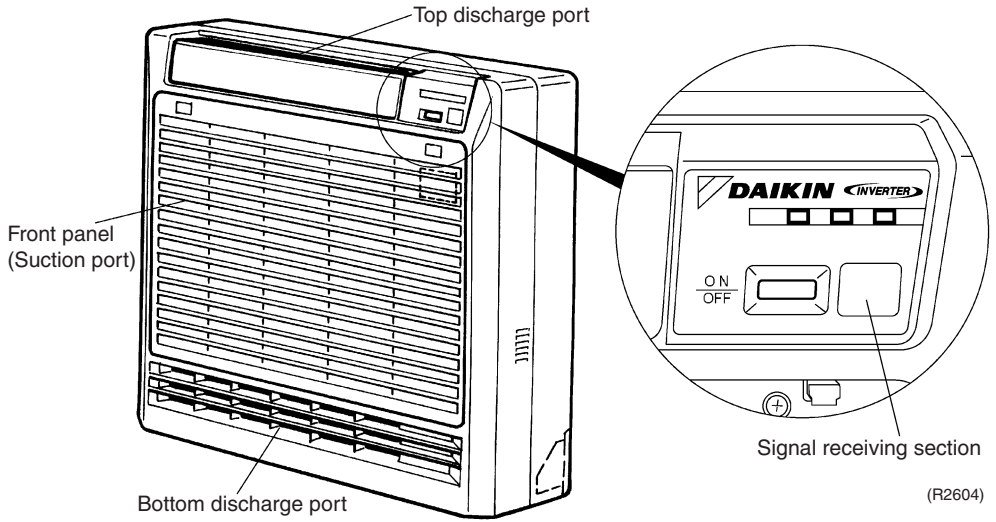
# 1. Removal of the Air Filter / Front Panel

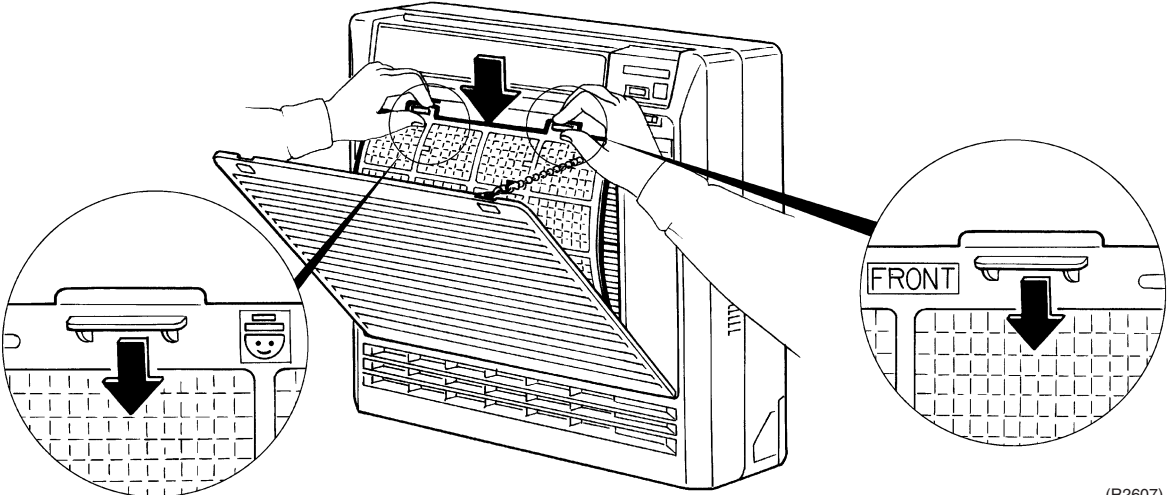
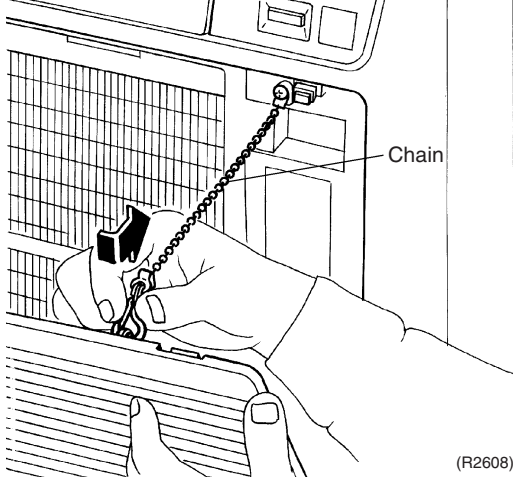
**Procedure**

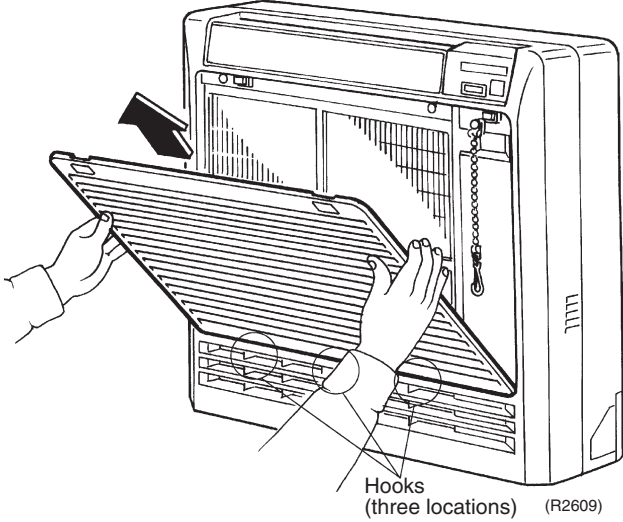
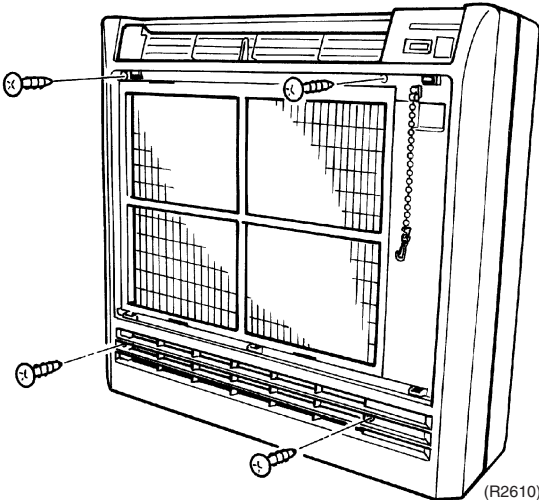
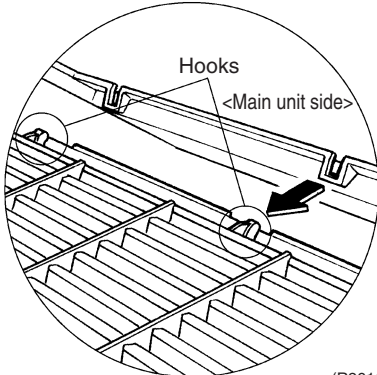


**Warning** Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1	<p>Appearance</p> <ul style="list-style-type: none"> <li>Enlarged illustration shows operation panel section.</li> </ul>	<p>Operation panel</p>
2	<p>Remove the front panel from the unit. Push on the left and right upper parts of the panel marked with "PUSH" to open the front panel.</p>	<p>Motion of push lock</p> <p>When push the knob, the lock plate draws in. (R2605)</p> <p>When push it again, the plate comes out. (R2605)</p>



Step	Procedure	Points
3	<p>Press down the 2 hooks located at left and right side upper parts of the air filter, then bend slightly the air filter to remove it.</p>	 <p>(R2607)</p>
4	<p>Unhook the chain.</p>	 <p>(R2608)</p>

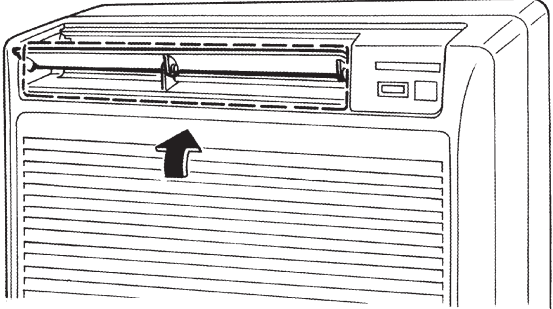
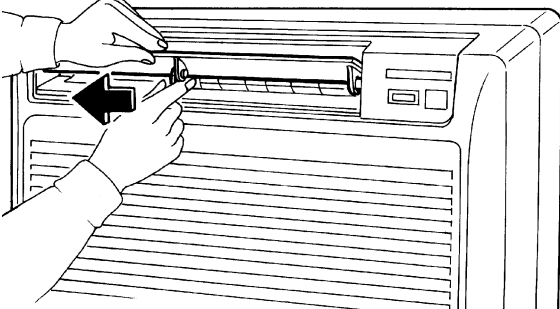
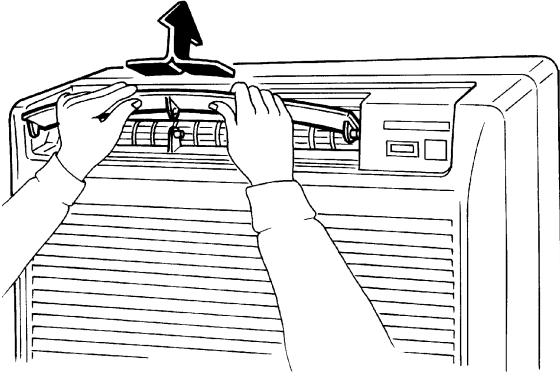
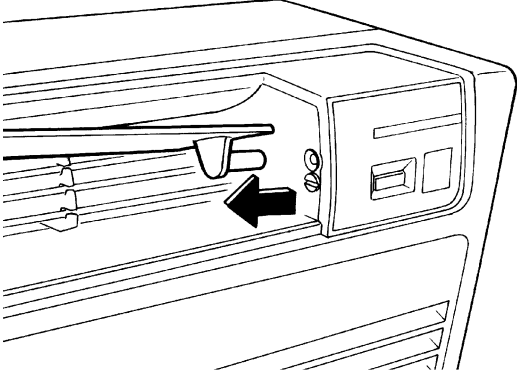
Step	Procedure	Points
5	<p>Undo the 3 hooks on the bottom of the front panel.</p>  <p>Hooks (three locations) (R2609)</p>	
6	<p>Loosen the 4 screws to take out the front grille.</p>   <p>Hooks &lt;Main unit side&gt;</p> <p>(R2611)</p>	<p>■ Mounting screw M4 × 16</p>

## 2. Removal of the Horizontal Blade

### Procedure



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

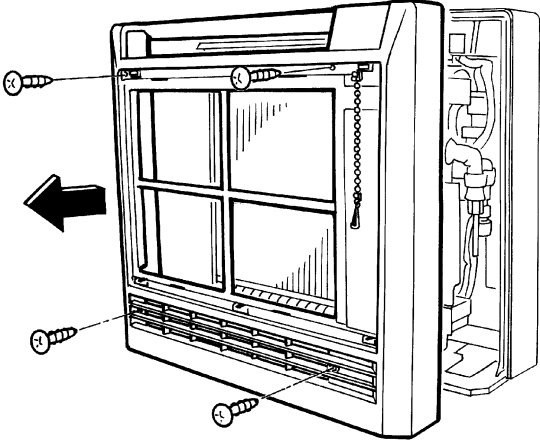
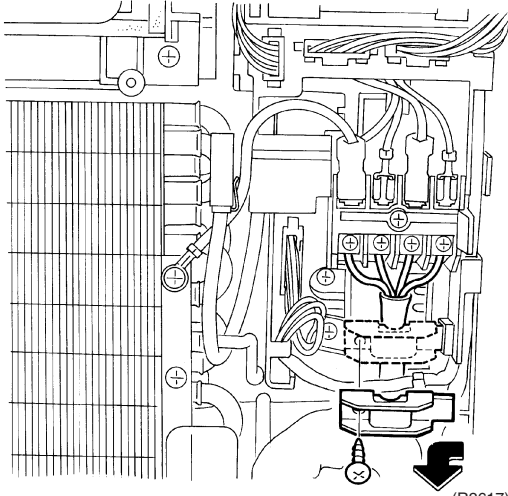
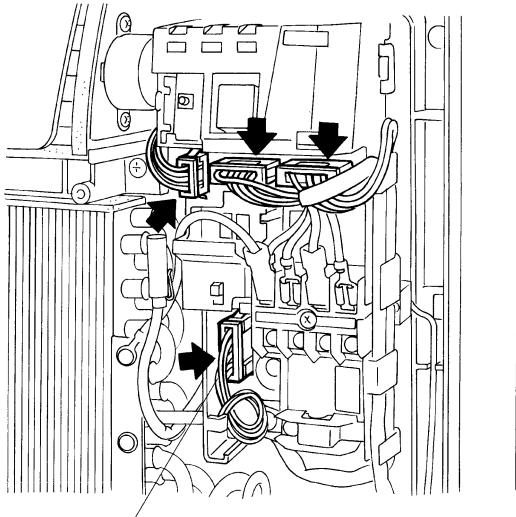
Step	Procedure	Points
1	Open the horizontal blade.  <p style="text-align: right;">(R2612)</p>	
2	Undo the supporting bracket at the center position.  <p style="text-align: right;">(R2613)</p>	
3	Bend the horizontal blade slightly to undo the shafts at left and right side of the blade.  <p style="text-align: right;">(R2614)</p>  <p style="text-align: right;">(R2615)</p>	<ul style="list-style-type: none"> <li>■ For installation, engage the supporting bracket at center of the blade after insert the shafts at both ends to the pivot holes.</li> </ul>

### 3. Removal of the Electrical Box

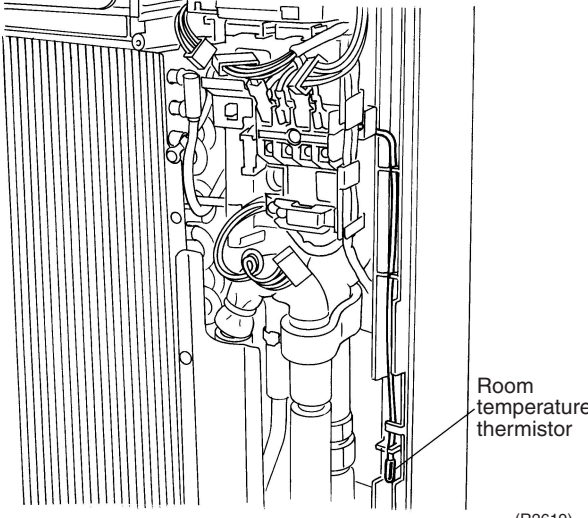
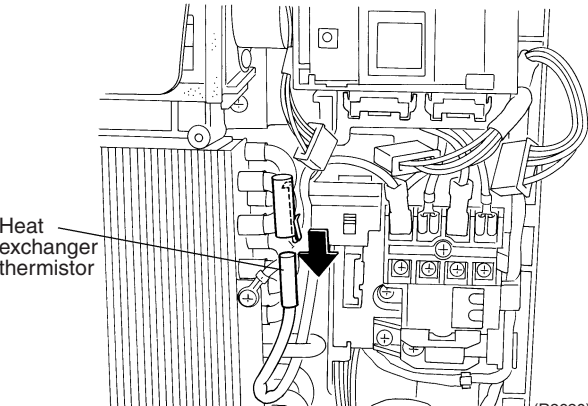
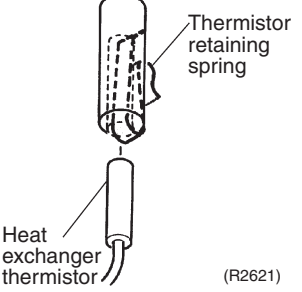
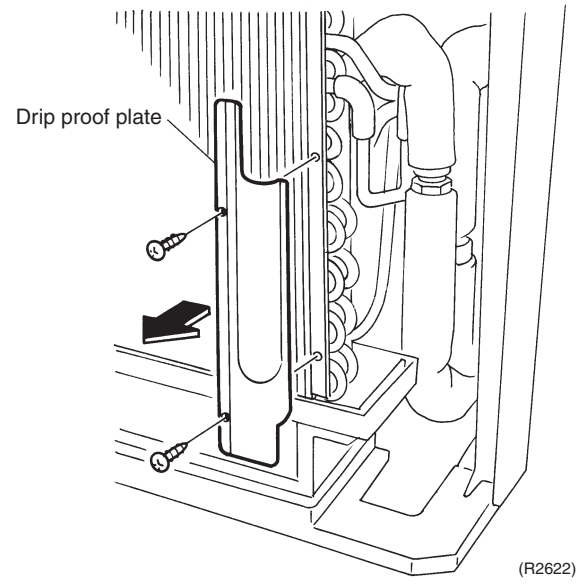
**Procedure**



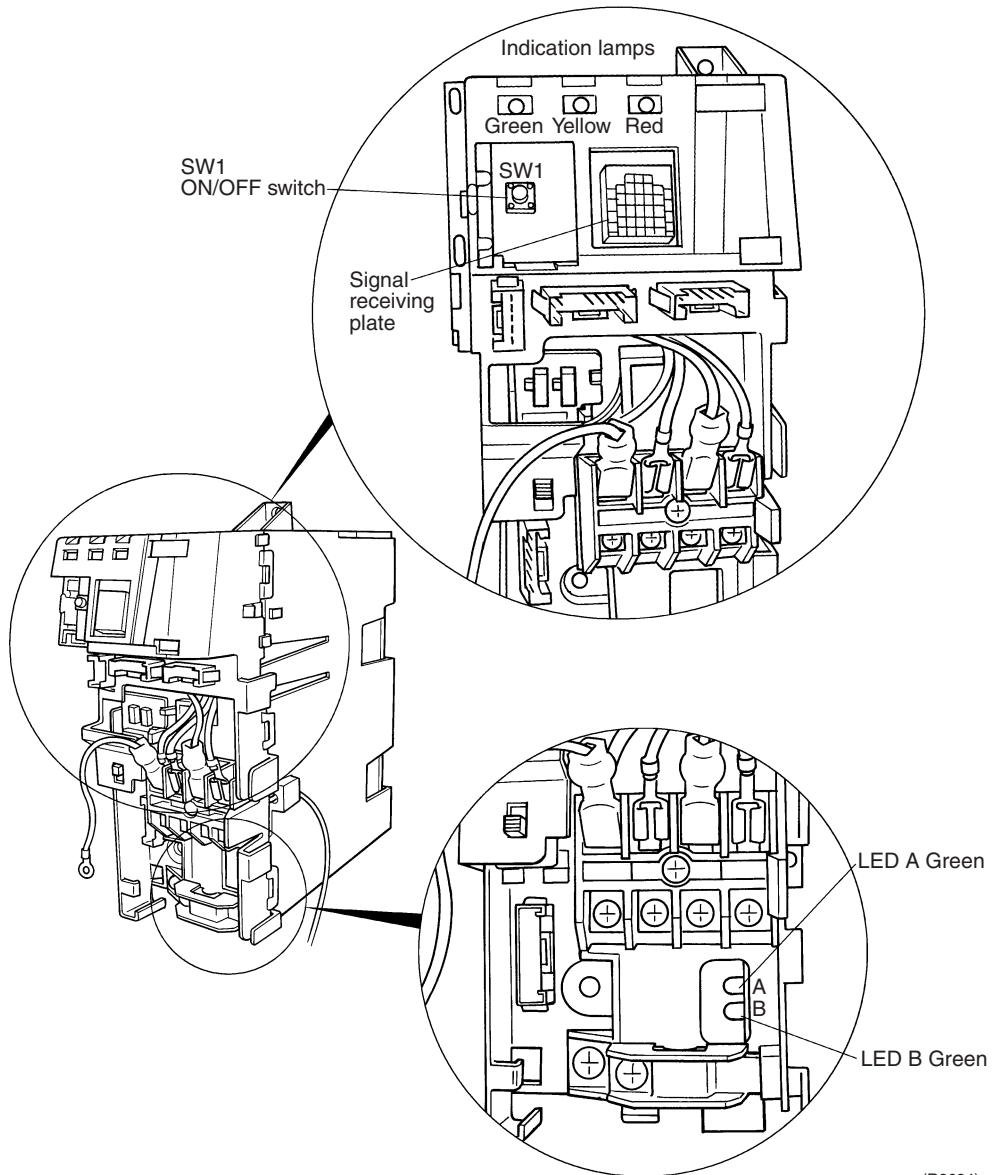
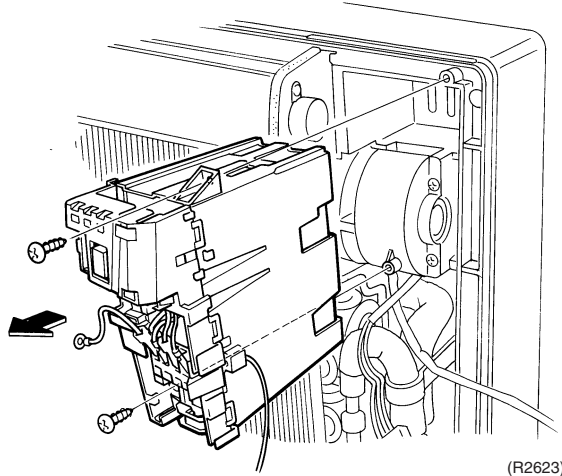
**Warning** Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1	<p>Set the horizontal blade in horizontal position to take out the front grille toward yourself.</p>  <p style="text-align: right;">(R2616)</p>	
2	<p>Loosen the setting screw to remove the wire clamp.</p>  <p style="text-align: right;">(R2617)</p>	
3	<p>Disconnect the 4 connectors of the lead wire.</p>  <p style="text-align: center;">Lead wire for swing motor</p> <p style="text-align: right;">(R2618)</p>	



Step	Procedure	Points
4	<p>Remove the room temperature thermistor.</p>  <p style="text-align: right;">(R2619)</p>	
5	<p>Remove the heat exchanger thermistor.</p>  <p style="text-align: right;">(R2620)</p>	 <p style="text-align: right;">(R2621)</p> <ul style="list-style-type: none"> <li>■ Be sure not to drop the thermistor retaining spring</li> </ul>
6	<p>Loosen the 2 screws to remove the drip proof plate.</p>  <p style="text-align: right;">(R2622)</p>	<ul style="list-style-type: none"> <li>■ Mounting screw M4 × 8</li> </ul>

Step	Procedure	Points
7	To remove the electrical box, loosen the 2 fixing screws and pull out the box forward.	<ul style="list-style-type: none"> <li>■ Mounting screw M4 × 16</li> </ul>
8	The figure shows parts in the electrical box.	

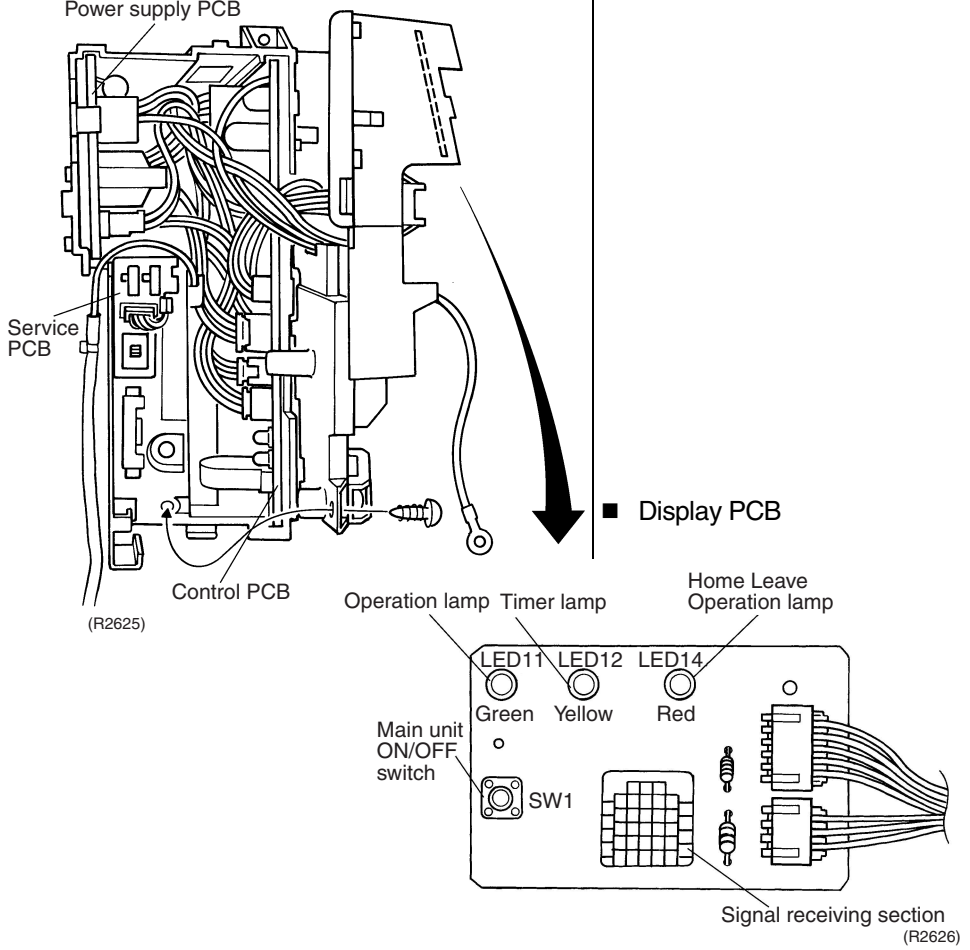
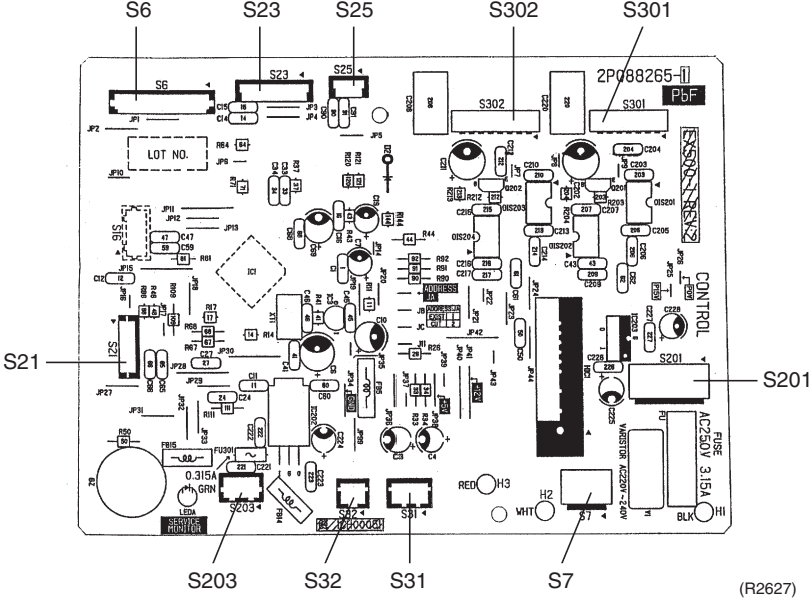


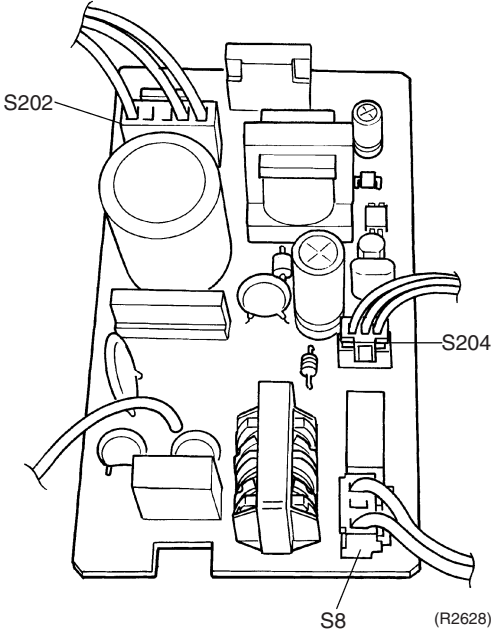
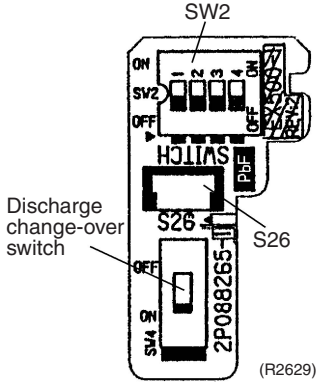
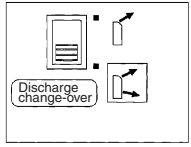




# 4. Removal of the PCB

**Procedure**



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

Step	Procedure	Points
1	<p>Loosen the fixing screw to remove PCBs from the electrical box.</p>  <p>Power supply PCB</p> <p>Service PCB</p> <p>Control PCB (R2625)</p> <p>Operation lamp</p> <p>Timer lamp</p> <p>Home Leave Operation lamp</p> <p>LED11 Green</p> <p>LED12 Yellow</p> <p>LED14 Red</p> <p>Main unit ON/OFF switch SW1</p> <p>Signal receiving section (R2626)</p>	<p>■ Display PCB</p>
2	<p>The figure shows the control PCB (indoor unit).</p>  <p>S6 S23 S25 S302 S301</p> <p>LOT NO.</p> <p>2P088265-1 Pbf</p> <p>CONTROL</p> <p>FUSE AC250V 3.15A</p> <p>WHT H13</p> <p>RED H12</p> <p>BLK H11</p> <p>S21</p> <p>S203 S32 S31 S7</p> <p>(R2627)</p>	

Step	Procedure	Points
<p>3</p>	<p>The figure shows the power supply PCB (indoor unit).</p> 	<ul style="list-style-type: none"> <li>■ SW2</li> <li>SW2-1 : unused</li> <li>SW2-2 : unused</li> <li>SW2-3 : unused</li> <li>SW2-4 :</li> <li>OFF - initial set</li> <li>ON - limit upward air flow</li> </ul>
<p>4</p>	<p>The figure shows the service PCB.</p> 	<p>&lt;Discharge change-over switch&gt;</p>  <p>(R2630)</p> <ul style="list-style-type: none"> <li>■ Select  to discharge air only from top discharge port.</li> <li>■ Select  to discharge air with automatic pattern decided in accordance with operation mode and operation conditions.</li> <li>■ It is recommendable to select .</li> <li>■  has been selected before factory shipment.</li> </ul>

# 5. Removal of the Heat Exchanger

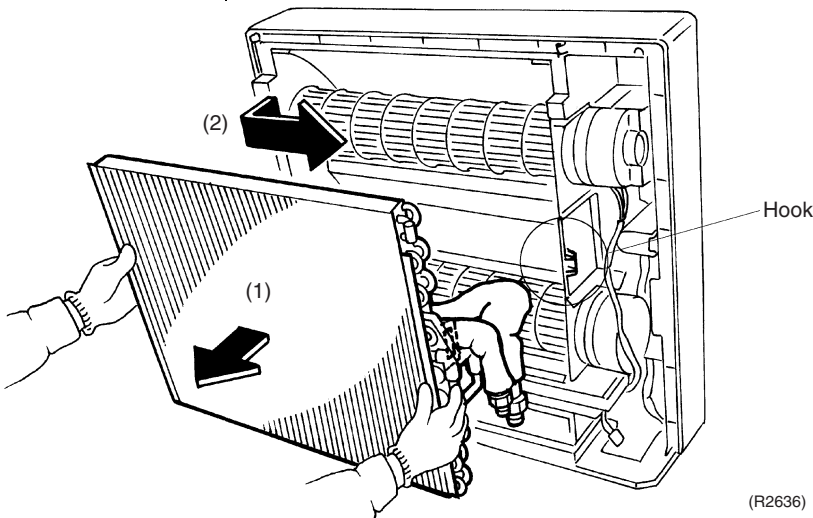
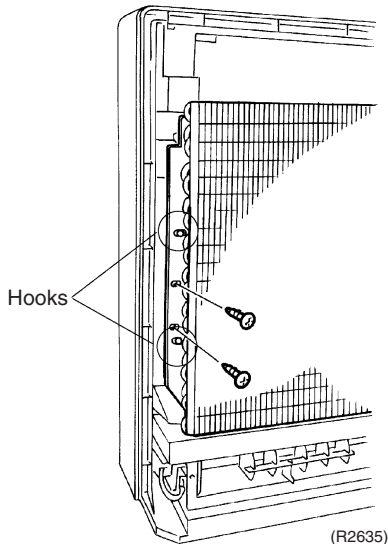
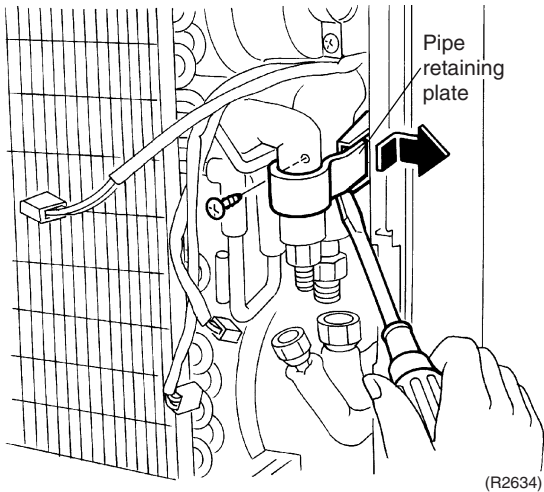
**Procedure**



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

Step	Procedure	Points
<ul style="list-style-type: none"> <li>■ Conduct pump-down operation and check that gas has been purged completely before starting service work.</li> </ul>	<p style="text-align: right;">(R2631)</p>	<ul style="list-style-type: none"> <li>■ Mounting screw M4 × 16</li> </ul>
<p>1 Loosen the 2 screws to remove the top discharge grille.</p>	<p style="text-align: right;">(R2632)</p>	<p><b>Warning</b> If refrigerant gas leaks during service work, ventilate work area. (Toxic gas may be generated when refrigerant gas contacts with flame.)</p> <ul style="list-style-type: none"> <li>■ 14/17 double ended wrench</li> </ul>
<p>2 Remove the heat exchanger.</p>	<p style="text-align: right;">(R2633)</p>	<ul style="list-style-type: none"> <li>■ 17/23 double ended wrench</li> </ul> <p><b>Caution</b> Do not contaminate any gas (including air) other than the specified refrigerant (R-410A) (Contaminating of air or other gas causes abnormal temperature rise in refrigerating cycle, and this results in pipe breakage or personal injuries.)</p> <ul style="list-style-type: none"> <li>■ After pipes are disconnected, close all pipe openings with caps to prevent dust and moisture from entering pipes.</li> </ul>
<p>3 Disconnect the flared joint of liquid pipe using 2 wrenches.</p>		
<p>4 Disconnect the flared joint of gas pipe using 2 wrenches.</p>		

Step	Procedure	Points
5	<p>Loosen the fixing screw to remove the pipe retaining plate of the heat exchanger. Push the pipe retaining plate backward to undo the hook, then open the retaining plate using straight edge of screwdriver to remove the plate.</p>	<p>■ Mounting screw M4 × 16</p>
6	<p>Loosen the 2 screws located at left side of the heat exchanger.</p>	<p>■ Mounting screw M4 × 16</p>
7	<p>Pull left side of the heat exchanger (1) toward yourself, slide to right to undo the hook (2) and remove the heat exchanger.</p>	<p><b>⚠ Caution</b>  <b>When removing or reinstalling heat exchanger, be sure to wear protective gloves or wrap heat exchanger with cloths. (Fins can cut fingers.)</b></p>

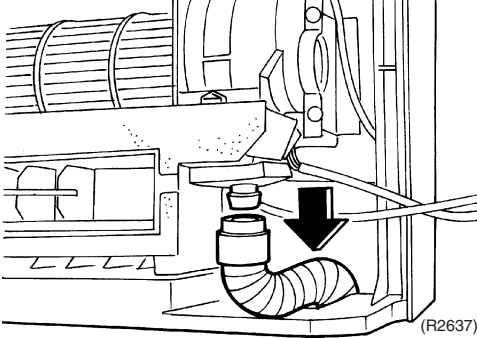
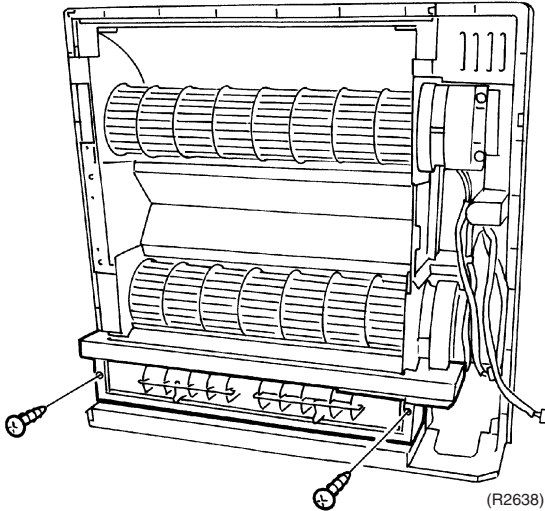
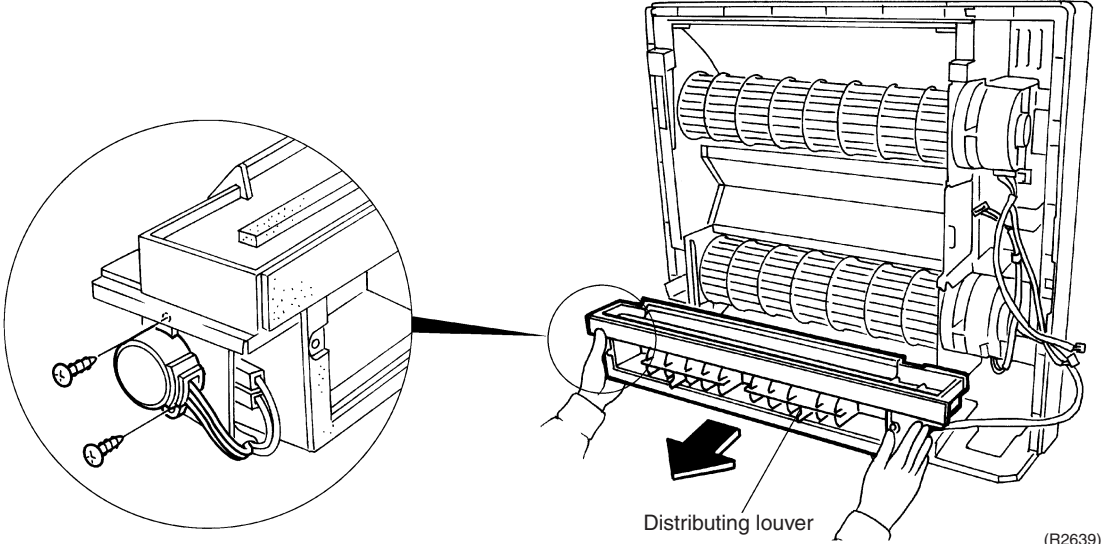


# 6. Removal of the Fan Rotor / Fan Motor

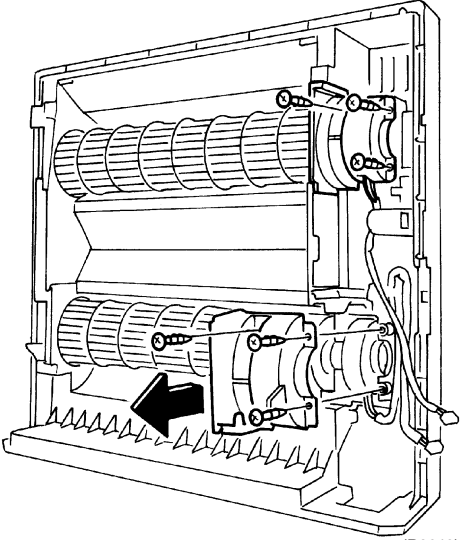
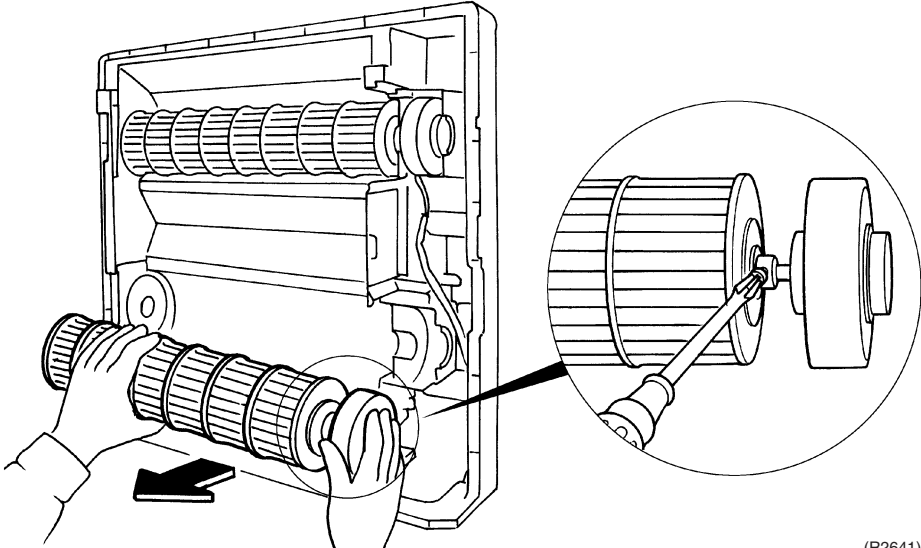
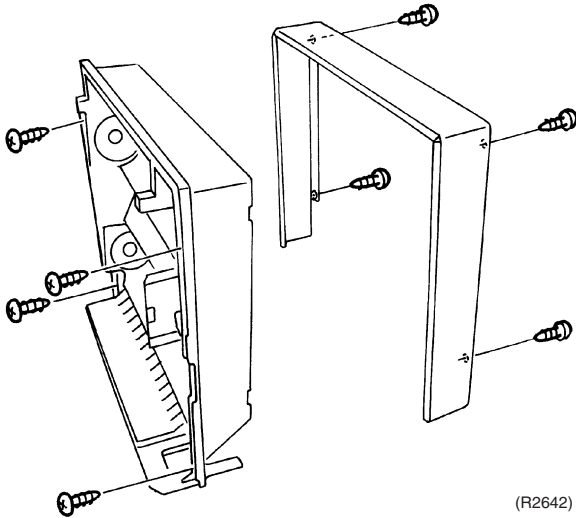
**Procedure**



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

Step	Procedure	Points
1	<p>For removal of the drain pan, disconnect the drain hose, then loosen the 2 screws located at left and right sides.</p>  	<ul style="list-style-type: none"> <li>■ Be careful not to wet the floor with drain water.</li> <li>■ Disengage harness for drain pan from right side hook.</li> </ul>
2	<p>Remove the drain pan.</p>	<ul style="list-style-type: none"> <li>■ This swing motor is for down flow shutter.</li> </ul>
3	<p>To remove the swing motor on discharge port of the drain pan, loosen the 2 fixing screws.</p> 	



Step	Procedure	Points
4	<p>Loosen the 6 screws (3 for the upper side motor and 3 for the bottom one) to remove the fan motors.</p>  <p style="text-align: right;">(R2640)</p>	<ul style="list-style-type: none"> <li>■ Short lead wire: for the upper fan motor</li> <li>Long lead wire: for the bottom fan motor</li> <li>■ Mounting screw M4 × 16</li> </ul>
5	<p>Remove the motors and cross flow fans.</p>  <p style="text-align: right;">(R2641)</p>	<ul style="list-style-type: none"> <li>■ Loosen the fixing screw to separate the fan and motor.</li> </ul>
6	<p>To remove the casing, loosen the 4 screws at front side and the other 4 screws at rear side.</p>  <p style="text-align: right;">(R2642)</p>	<ul style="list-style-type: none"> <li>■ Casing mounting screw</li> <li>Front: M4 × 16</li> <li>Rear: M4 × 14</li> </ul> <p><b>Condition : Casing</b></p> <ul style="list-style-type: none"> <li>Protruded : Not to be removed</li> <li>Semi-sink : To be removed</li> <li>Sink : Not to be removed</li> </ul>



# Revision History

Month / Year	Version	Revised contents
07 / 2013	Si06-763	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

### **DAIKIN INDUSTRIES, LTD.**

Head Office:  
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,  
Kita-ku, Osaka, 530-8323 Japan

Tokyo Office:  
JR Shinagawa East Bldg., 2-18-1, Konan,  
Minato-ku, Tokyo, 108-0075 Japan

[http://www.daikin.com/global\\_ac/](http://www.daikin.com/global_ac/)

©All rights reserved