




# REMOVAL PROCEDURE



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

### 6.0/7.1 kW Class

-  Indoor Unit
-  Inverter
-  Floor Standing Type



# **Service Manual Removal Procedure**

## **Indoor Unit**

### **●Heat Pump**

**FVXD60FV2CW**

**FVXD60FV2CN**

**FVXD71FV2CW**

**FVXD71FV2CN**

**FVXS71FV2CN**

**FVXS71FV2CW**

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

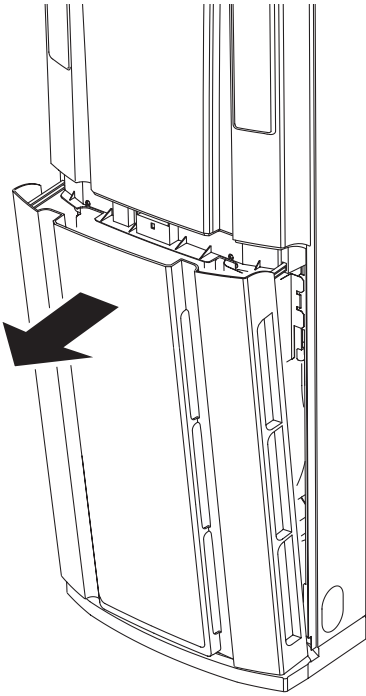
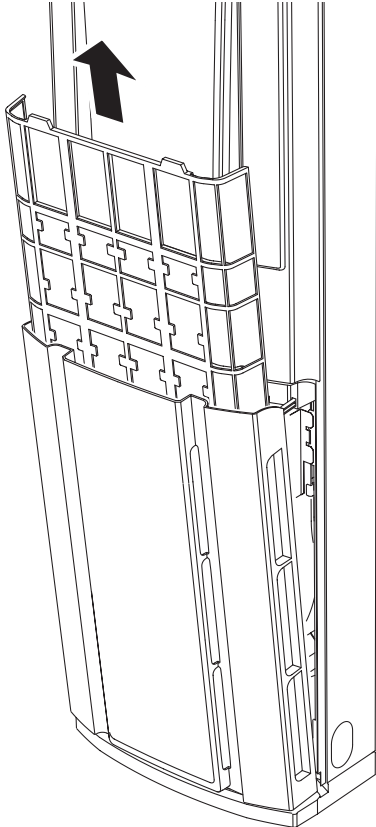
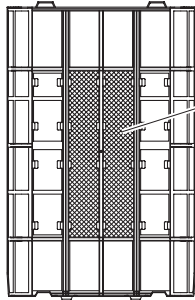
# 1. Removal of Air Filter

**Procedure**



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

| Step        | Procedure                              | Points  |
|-------------|--|---|
| 1. Features | <p>(R4618)</p>                         | <p>■ If the system gets in trouble, an error code appears on the temperature display.</p> |
|             | <p>■ <b>Display</b></p> <p>(R4619)</p> |   |

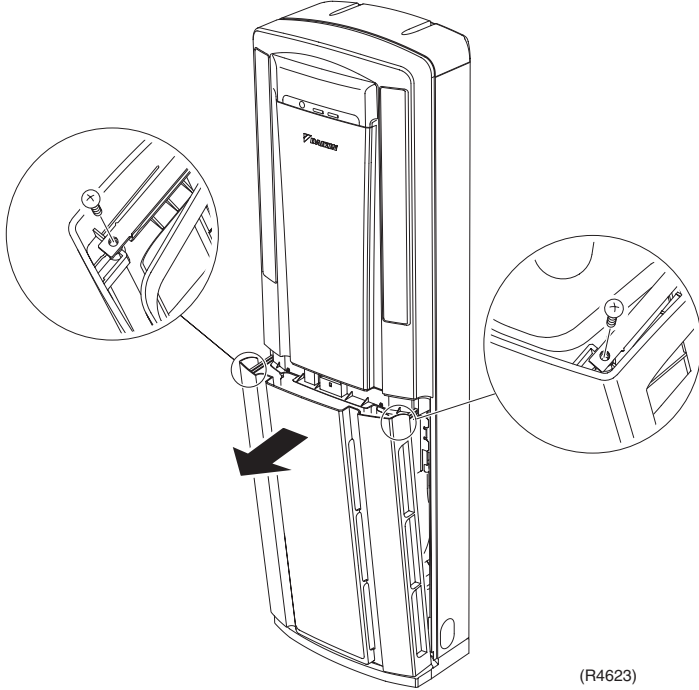
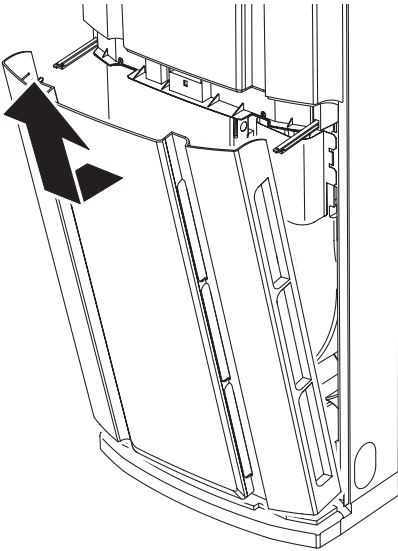
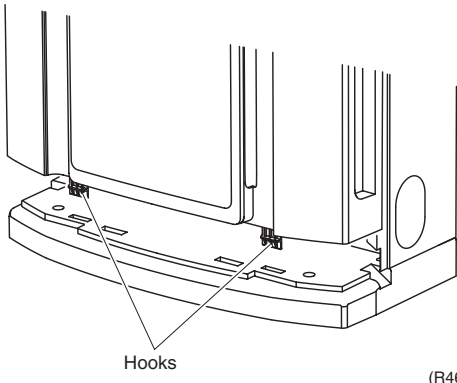
| Step                      | Procedure   | Points  |
|---------------------------|---|---|
| 2. Remove the air filter. |   |   |
| 1                         | <p>Put your fingers on the right and left air inlets, and open the suction grille.</p>  <p>(R4620)</p> | <p><b>Warning :</b><br/>                 Make sure the vertical blades are closed. Otherwise the air filter cannot be pulled out. (These blades shut themselves when the system stops.)</p> <p><b>Note :</b><br/>                 Do not force the suction grille open. It may come off, and you may get injured by the internal fan or the unit may fall down.</p> |
| 2                         | <p>Grip the top knob, and draw up and out the air filter.</p>  <p>(R4621)</p>                        | <p>■ The Titanium apatite photocatalytic air purifying filters are located behind the air filter.</p>  <p>(R4622)</p>  |

## 2. Removal of Suction Grille

**Procedure**



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

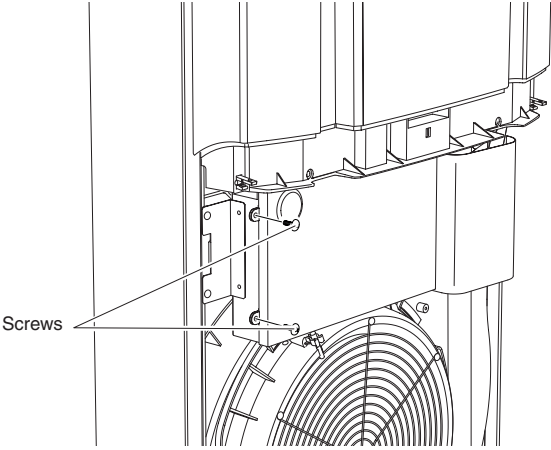
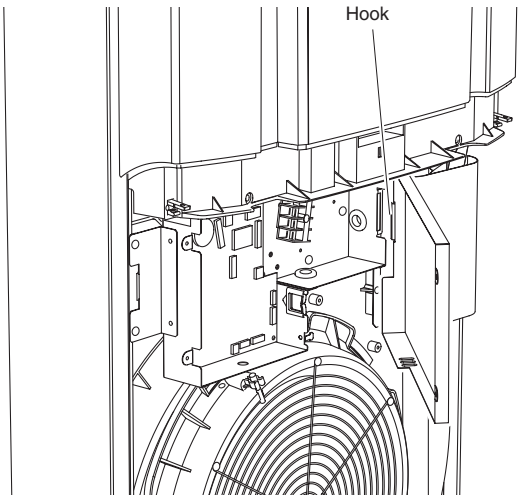
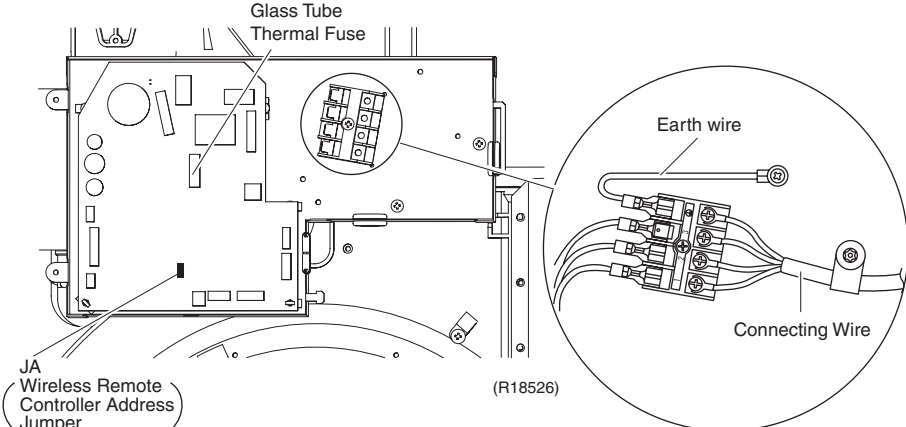
| Step                          | Procedure  | Points  |
|-------------------------------|--|---|
| 1. Remove the suction grille. | <p data-bbox="156 412 464 506">1 Open the suction grille, and loosen the 2 screws.</p>  <p data-bbox="156 1111 464 1305">2 Tilt the suction grille deep toward yourself first and then lift it out of position. (Unfasten the 2 hooks at the bottom of the suction grille.)</p>   | <p data-bbox="1086 1059 1145 1081">(R4623)</p> <p data-bbox="995 1675 1054 1697">(R4624)</p> <p data-bbox="970 2085 1029 2107">(R4625)</p> <ul style="list-style-type: none"> <li data-bbox="1098 1939 1453 2033">■ When placing the suction grille back in position, fit the hooks at the bottom first.</li> </ul> |

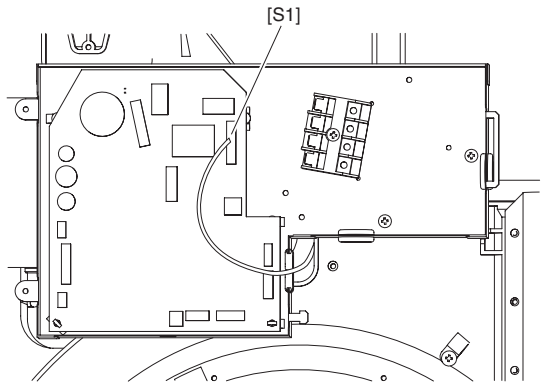
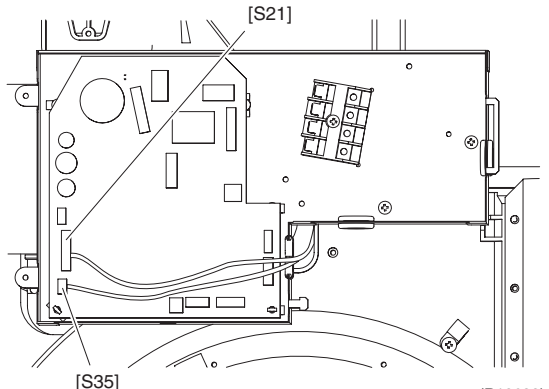
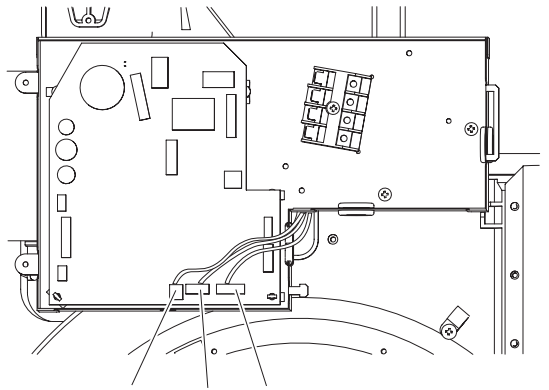
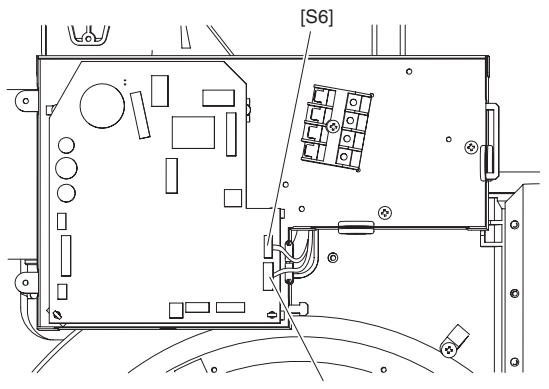
# 3. Removal of Control PCB

**Procedure**



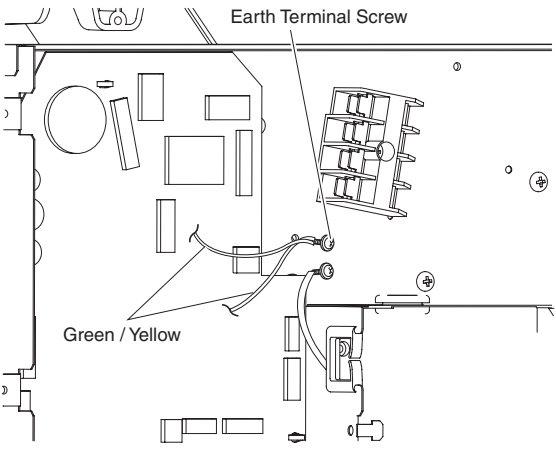
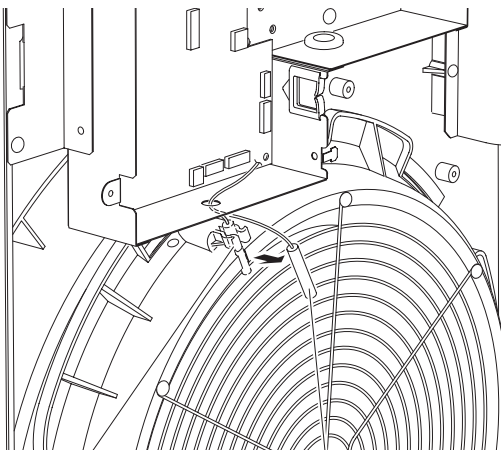
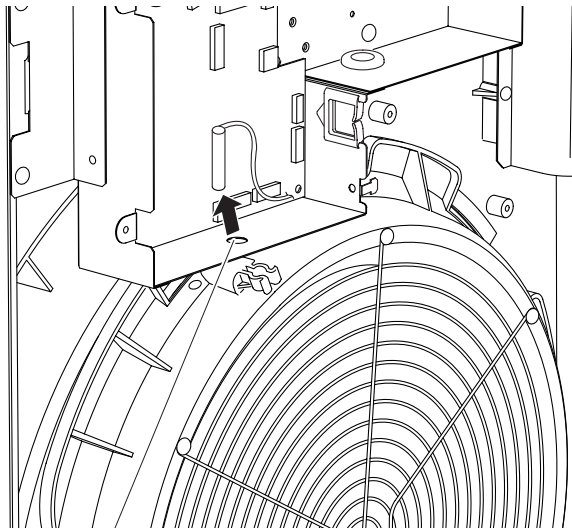
**Warning** Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

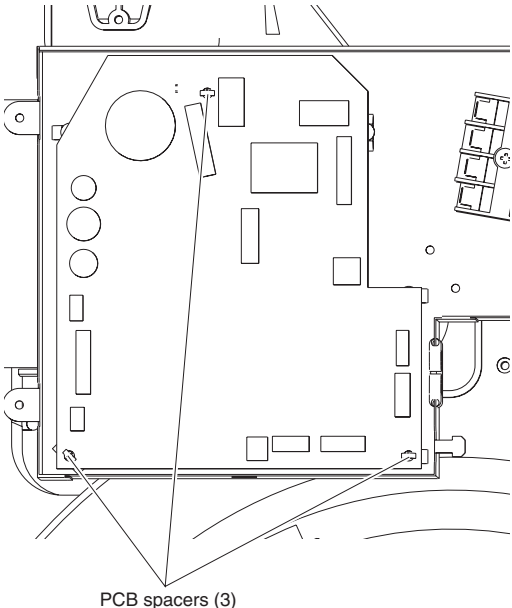
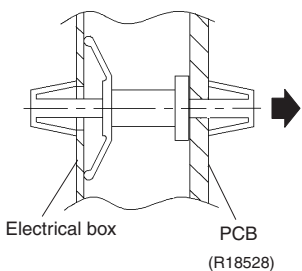
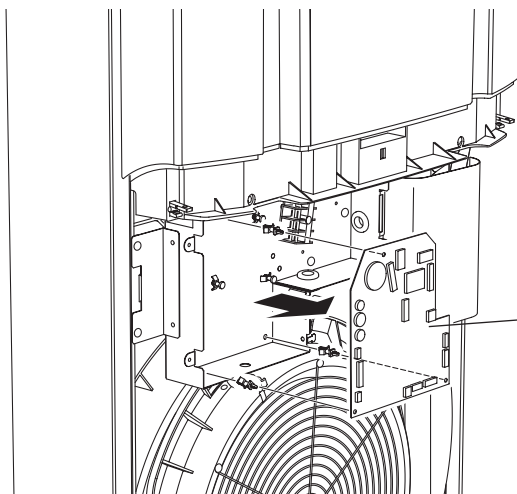
| Step                       | Procedure  | Points  |
|----------------------------|--|---|
| 1. Remove the control PCB. | <p>■ Remove the suction grille.</p> <p>1 Remove the 2 screws (top and bottom on the left) off the electrical box cover.</p>  <p style="text-align: right;">(R4626)</p> |   |
| 2                          | <p>Open the electrical box cover, and undo the right-hand hook.</p>  <p style="text-align: right;">(R4627)</p>  |   |
| 3                          | <p>The figure at right shows the control PCB. Disconnect the harnesses from the terminal strip board.</p>  <p style="text-align: right;">(R18526)</p>                | <p>■ Terminal strip board for power supply<br/>           1-black<br/>           2-white<br/>           3-red<br/>           ⊕-green/yellow</p> |

| Step | Procedure   | Points   |
|------|---|--|
| 4    | Disconnect the connector for fan motor [S1].  |  <p>(R18637)</p>   |
| 5    | Disconnect the connectors [S21] [S35].  |  <p>(R18638)</p>  |
| 6    | Disconnect the connectors [S26] [S28] and the connector for indoor heat exchanger thermistor [S32]. |  <p>(R18639)</p> |
| 7    | Disconnect the connectors for swing motor [S6] [S8].  |  <p>(R18640)</p> |

■ Connector [S6] : White  
[S8] : Red



| Step | Procedure  | Points |
|------|--|--------|
| 8    | <p>Remove the screw and disconnect the earth terminal.</p>  <p>(R10046)</p>                            |        |
| 9    | <p>Release the room temperature thermistor from the holder.</p>  <p>(R4634)</p>                       |        |
| 10   | <p>Pull out the room temperature thermistor from the hole of the electrical box.</p>  <p>(R4635)</p> |        |

| Step | Procedure   | Points  |
|------|---|---|
| 11   | <p>Pull the 3 PCB spacers out of the control PCB.</p>  <p>PCB spacers (3)</p> <p>(R18527)</p> | <ul style="list-style-type: none"> <li>■ Preferably use long-nose pliers to easily draw out the PCB spacers.</li> </ul>  <p>Electrical box</p> <p>PCB (R18528)</p> <p>Section view</p> |
| 12   | <p>Remove the control PCB.</p>  <p>Control PCB</p> <p>(R4637)</p>                            |   |

# 4. Removal of Piping Cover

**Procedure**



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

| Step  | Procedure       | Points  |
|---|-----------------|---|
| 1. Detach the piping cover.                       | <p>(R18530)</p> |   |
| ■ Remove the suction grille.                      | <p>(R4639)</p>  |   |
| 1 Remove the screw and detach the piping cover.   | <p>(R18529)</p> | <p>■ The drain hose and the drain pan are integrated and inseparable.</p> |
| 2 The figure at right shows the pipe connections. |                 |   |

# 5. Removal of Electrical Box

**Procedure**



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

| Step   | Procedure       | Points  |
|--|-----------------|---|
| <p>1. Remove the electrical box.</p> <p>■ Remove the electrical box cover.</p>   | <p>(R18531)</p> | <ul style="list-style-type: none"> <li>■ The wire harnesses of the connectors are tied up with the clamp.</li> <li>■ The room temperature thermistor is fixed to the holder.</li> </ul> |
| <p>1 Remove the screws and disconnect the earth terminals (green / yellow-striped wire harness).</p> <p>2 Release the room temperature thermistor. Disconnect the connectors and terminal strip for power supply, all from the power supply / control PCB.</p> | <p>(R18532)</p> | <ul style="list-style-type: none"> <li>■ The wire harnesses of the connectors are tied up with the clamp.</li> <li>■ The room temperature thermistor is fixed to the holder.</li> </ul> |
| <p>3 Remove the 4 fixing screws off the electrical box.</p>  | <p>(R18523)</p> |   |
| <p>4 Pull out the electrical box toward yourself.</p>  | <p>(R2464)</p>  |   |

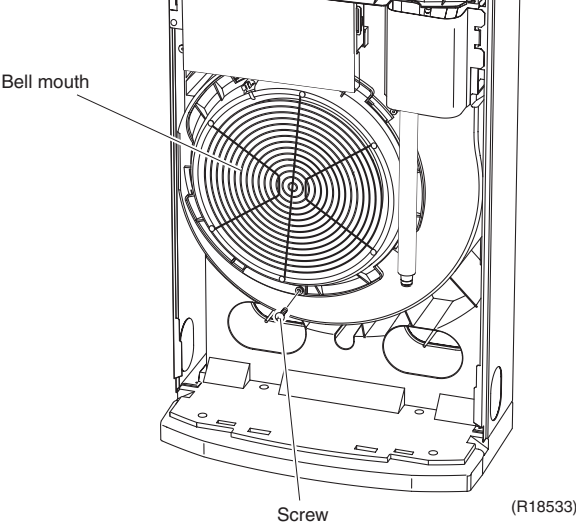
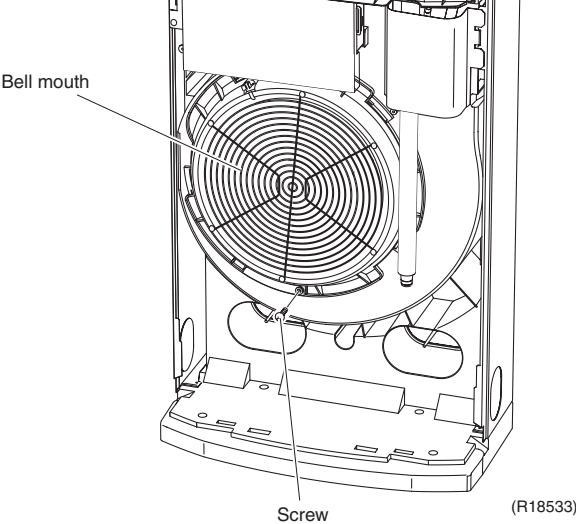
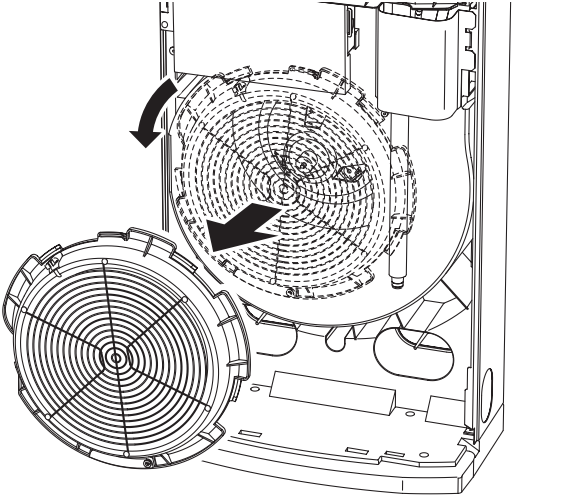
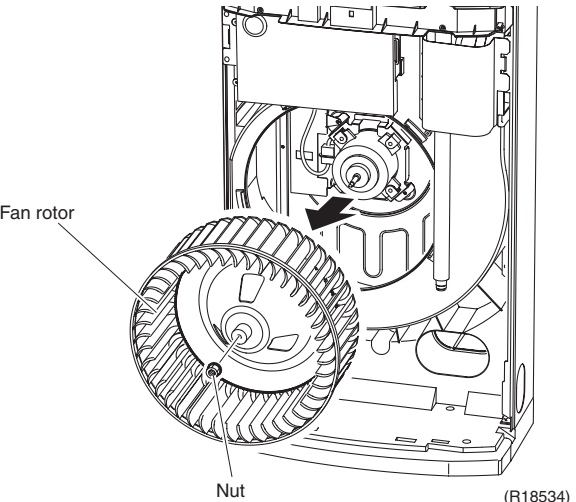
## 6. Removal of Fan Rotor / Fan Motor

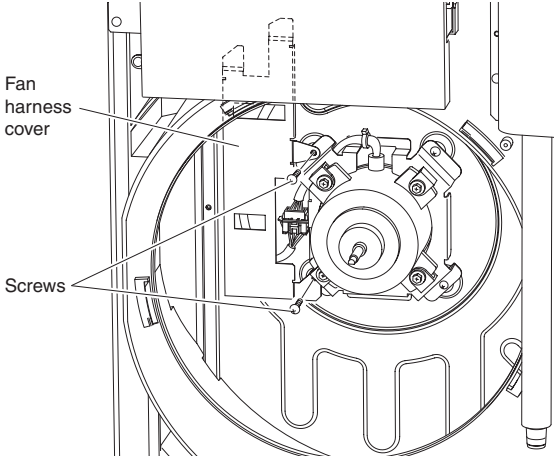
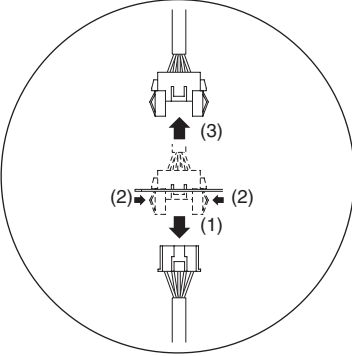
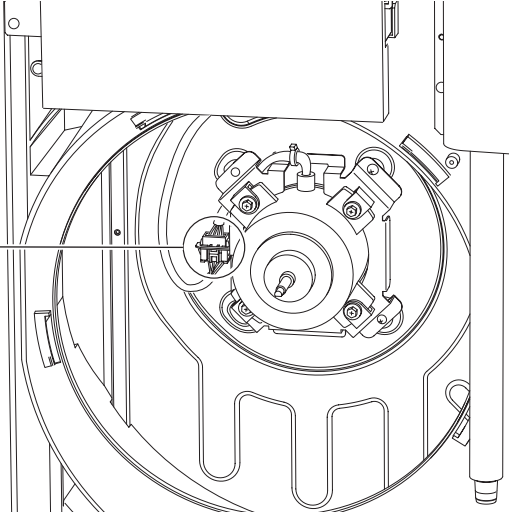
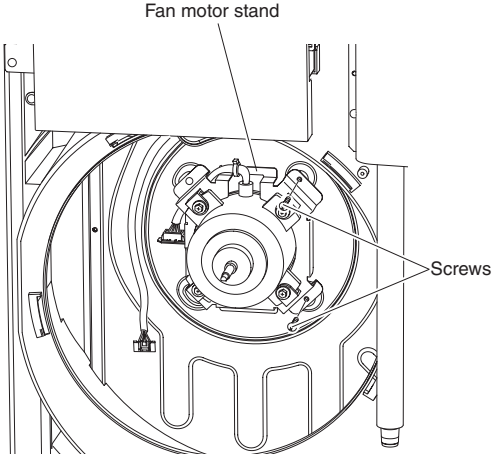
### Procedure

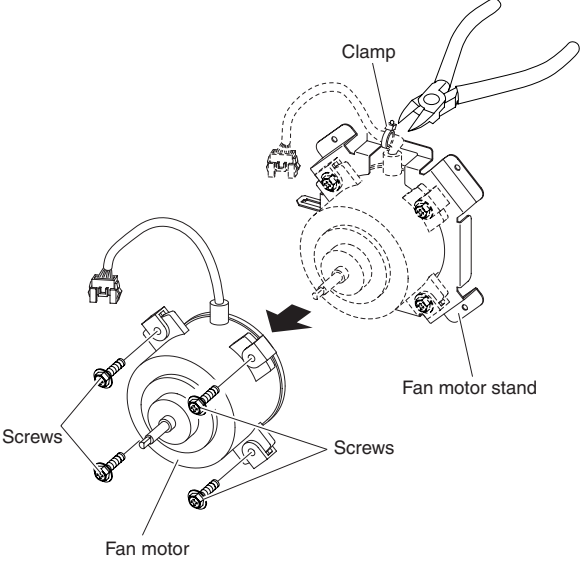


### Warning

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

| Step  | Procedure  | Points |
|---|--|--------|
| 1. Detach the fan rotor.<br>■ Remove the suction grille, electrical box and piping fixture. |    |        |
| 1 Remove the screw of the bell mouth.   |    |        |
| 2 Turn the bell mouth to the left and pull it out.  |   |        |
| 3 Remove the nut and pull out the fan rotor.  |  |        |

| Step                     | Procedure   | Points  |
|--------------------------|---|---|
| 2. Detach the fan motor. |   |   |
| 1                        | <p>Remove the 2 screws on the left side and remove the fan harness cover.</p>  <p>(R18535)</p>  | <p>&lt;Attention in the fan motor installation&gt;<br/>Before you tighten screws, be sure that the rubber vibration isolators (front, back) of the fan motor firmly fit into the both holes of the installation board and fan motor cover when you install a fan motor.</p> |
| 2                        | <p>(1) Disconnect the relay harness.<br/>(2) Pinch the both sides of the spring.<br/>(3) Pull out the connector from the plate.</p>   <p>(R4647)</p> |   |
| 3                        | <p>Remove the 2 screws on the right side and remove the fan motor stand.<br/>The left 2 screws, which tighten the fan harness cover, have been already removed at procedure 1.</p>  <p>(R18536)</p>                                   |   |

| Step   | Procedure   | Points |
|--------|---|--------|
| 4<br>5 | <p data-bbox="201 219 448 342">Cut the clamp and release the harness from the fan motor stand.</p> <p data-bbox="201 353 448 454">Remove the 4 screws and remove the fan motor from the stand.</p>  <p data-bbox="1007 824 1074 846">(R18537)</p> |        |

# 7. Removal of Front Panel

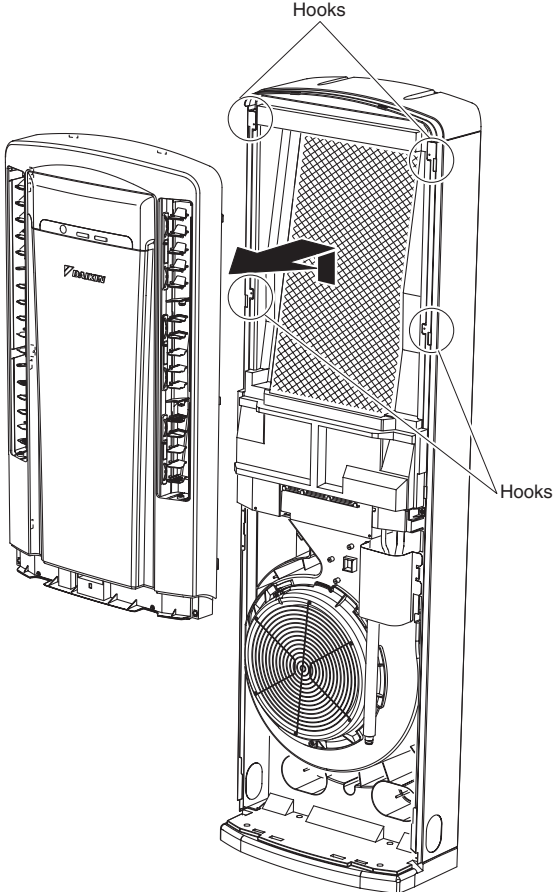
**Procedure**



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

| Step        | Procedure   | Points          |
|-------------|---|-----------------|
| 1.          | Detach the front panel.   |                 |
| 1<br>2<br>3 | <p>1 Release the 2 hooks in the middle of the vertical blade.</p> <p>2 Release the upper shaft of the vertical blade and lift the blade up to remove.</p> <p>3 Remove either vertical blades in the same way.</p> | <p>(R18538)</p> |
| 4<br>5<br>6 | <p>4 Remove the 4 screw covers.</p> <p>5 Remove the 6 screws.</p> <p>6 Release the harness from the hook.</p>   | <p>(R4651)</p>  |



| Step | Procedure  | Points |
|------|--|--------|
| 7    | <p data-bbox="201 215 472 309">Lift the front panel up to undo the 4 hooks and pull it out.</p>  <p data-bbox="1007 1167 1070 1189">(R4652)</p> |        |

# 8. Removal of Display PCB

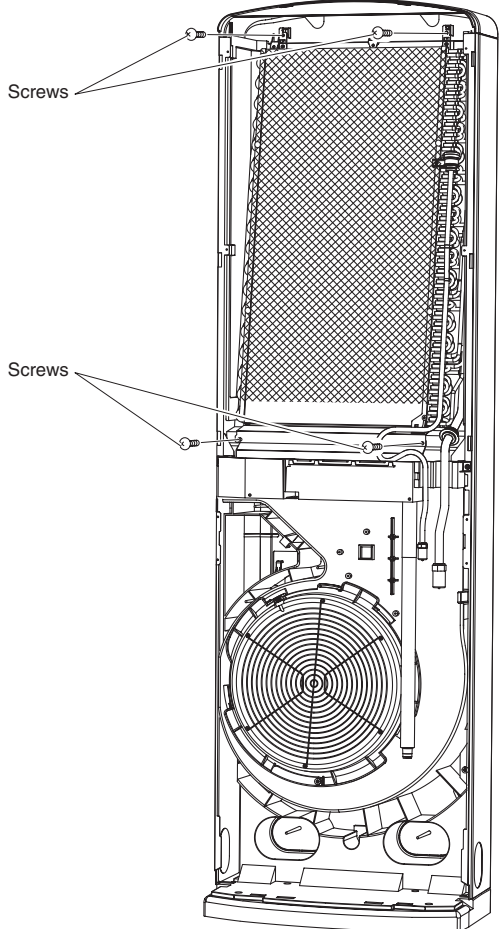
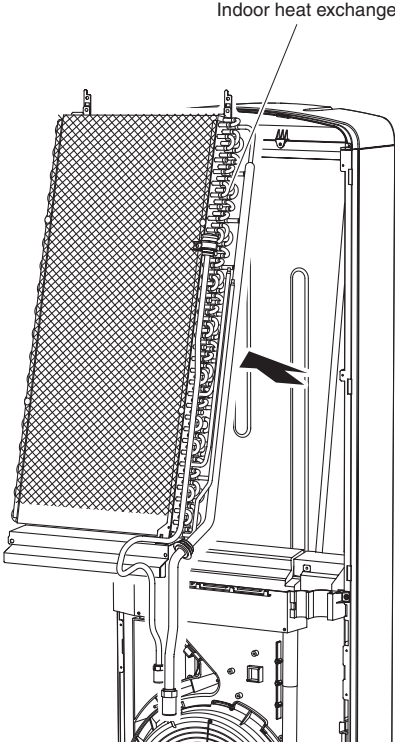
**Procedure**

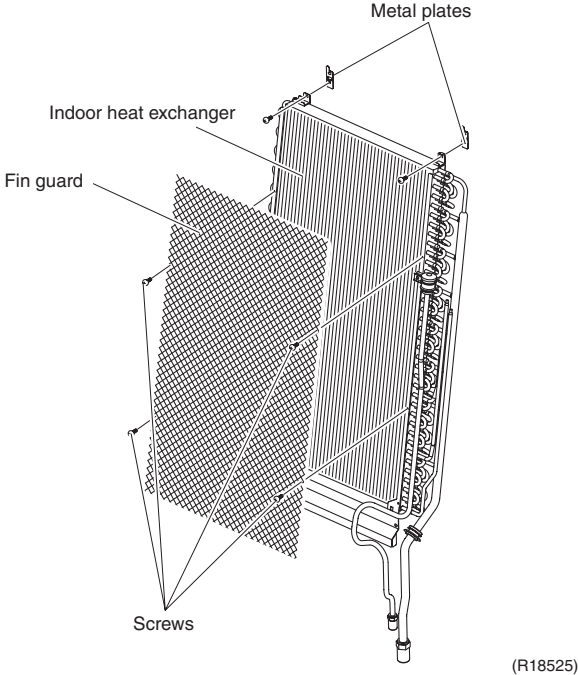


**Warning** Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

| Step  | Procedure | Points   |
|---|-----------|--|
| 1. Remove the display PCB.  |           | <ul style="list-style-type: none"> <li>■ Take out the display PCB from behind the front panel.</li> </ul>                      |
| <ul style="list-style-type: none"> <li>■ Detach the front panel.</li> </ul>   |           | <ul style="list-style-type: none"> <li>■ The screws have washers. When reassembling, be sure to attach the washers.</li> </ul> |
| <ol style="list-style-type: none"> <li>1 Remove the 6 cylindrical heat insulators.</li> <li>2 Remove the 8 screws.</li> <li>3 Remove the heat insulator.</li> </ol> |           |  |
|   |           | <p style="text-align: right;">(R10048)</p>   |
| 4 Release the 4 hooks and pull out the PCB case assembly.   |           |  |
|   |           | <p style="text-align: right;">(R18539)</p>   |
| 5 Release the 7 hooks and remove the back cover.  |           |  |
| 6 Peel off the filament tapes.  |           |  |
| 7 Release the 6 hooks and pull out the display PCB from the display case.   |           |  |
|   |           | <p style="text-align: right;">(R18540)</p>   |



| Step   | Procedure   | Points |
|--|---|--------|
| <p>4 Remove the 4 screws of the indoor heat exchanger.</p> |  <p>(R4658)</p>  |        |
| <p>5 Lift up and remove the indoor heat exchanger.</p>     |  <p>(R18524)</p> |        |

| Step   | Procedure   | Points |
|--------|---|--------|
| 6<br>7 | <p data-bbox="204 219 472 277">Loosen the 4 screws to remove the fin guard.</p> <p data-bbox="204 286 472 448">When replacing indoor heat exchanger, detach the metal plates and attach them to the new one.</p> <div data-bbox="491 264 1072 936"><p>The diagram illustrates the assembly of an indoor heat exchanger. It shows a central indoor heat exchanger unit with a fin guard attached to its front. Four metal plates are shown being attached to the top of the heat exchanger using screws. Labels with leader lines identify the 'Metal plates', 'Indoor heat exchanger', 'Fin guard', and 'Screws'. The reference code '(R18525)' is located at the bottom right of the diagram area.</p></div> |        |

# Revision History

| Month / Year | Version  | Revised contents |
|--------------|----------|------------------|
| 07 / 2013    | Si06-760 | 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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