






Si041255EH

# REMOVAL PROCEDURE



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

## 4.2/5.0/6.0/7.1 kW Class 15000/18000/24000 Btu/h Class

-  Indoor Unit
-  Inverter
-  Wall Mounted Type



# Service Manual

## Removal Procedure

### Indoor Unit

#### ●Cooling Only

ATKC18RV2S  
ATKC24RV2S

CTKM60PV14

CTKM24PV2S

FTKC18NV2S  
FTKC24NV2S

FTKC50NVM  
FTKC60NVM  
FTKC50NVM4  
FTKC60NVM4  
FTKC50NVM4  
FTKC60NVM4  
FTKC50NVM4  
FTKC60NVM4  
FTKC50NVM4  
FTKC60NVM4

FTKD42GVM9  
FTKD50GVM9  
FTKD60GVM9  
FTKD71GVM9

FTKD42GVMV  
FTKD50GVMV  
FTKD60GVMV  
FTKD71GVMV

FTKD42HVMV  
FTKD50HVMV  
FTKD60HVMV  
FTKD71HVMV

FTKM60PVM

FTKS15JV2S

FTKS42JVMG  
FTKS42JVMG9

FTKS50GVM4  
FTKS60GVM4  
FTKS71GVM4

FTKS50GVMV  
FTKS60GVMV  
FTKS71GVMV

FTKS50KAVMA  
FTKS60KAVMA  
FTKS71KAVMA

FTKV50NVM  
FTKV60NVM  
FTKV50NVM4  
FTKV60NVM4  
FTKV50NVM4  
FTKV60NVM4  
FTKV50NVM4  
FTKV60NVM4  
FTKV50NVM4  
FTKV60NVM4

#### ●Heat Pump

FTXS60GV1B  
FTXS71GV1B

FTXS50KAVMA  
FTXS60KAVMA  
FTXS71KAVMA

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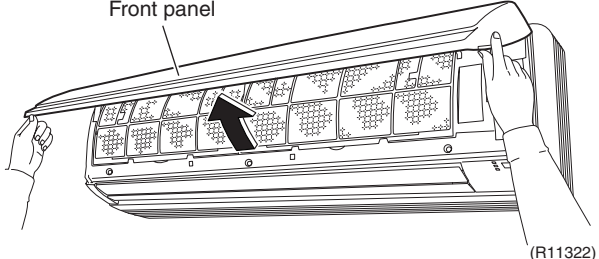
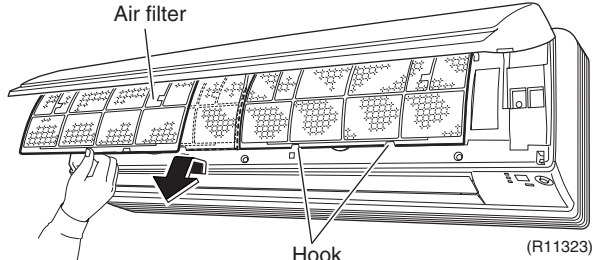
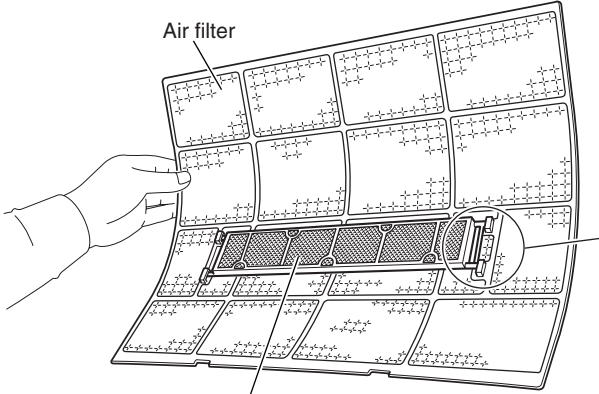
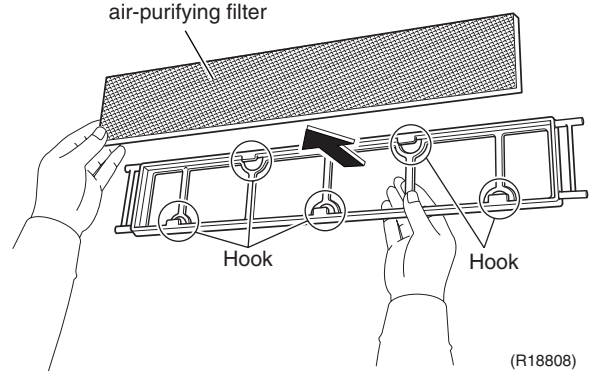
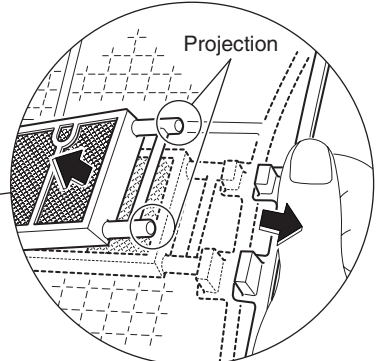
**Note:** ♦ The illustrations may be slightly different depending on the model.

# 1. Air Filters



**Warning**

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

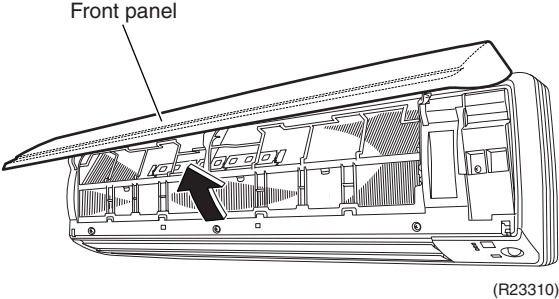
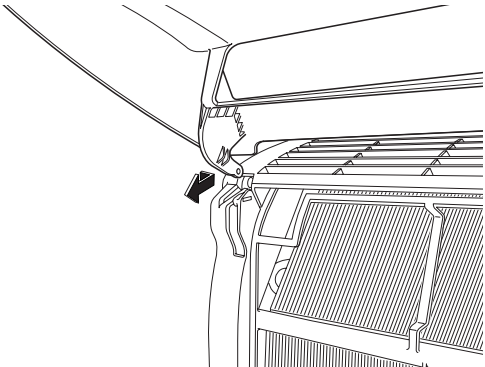
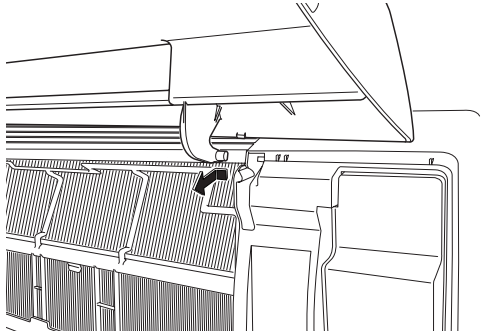
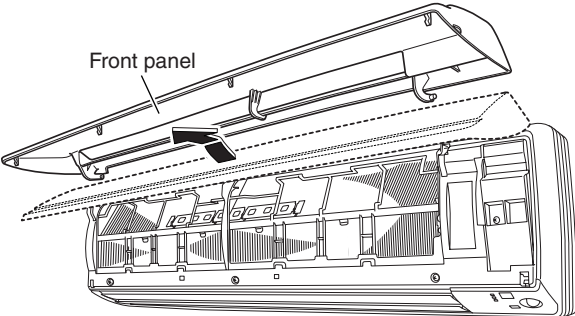
Step	Procedure	Points
<p>1. Remove the air filters.</p> <p>1 Open the front panel to the position where it stops.</p> <p>2 Pull out the air filter downward and remove it.</p>	 <p>Front panel</p> <p>(R11322)</p>  <p>Air filter</p> <p>Hook</p> <p>(R11323)</p>	<ul style="list-style-type: none"> <li>■ The air filter is not marked for difference between the right and left sides.</li> <li>■ Insert the air filter with the "FRONT" mark faced up.</li> <li>■ When reassembling, insert the air filter along the guides.</li> <li>■ Be sure to fit the 2 bottom hooks when installing the air filter.</li> </ul>
<p>2. Remove the Titanium apatite photocatalytic air-purifying filters.</p>	 <p>Air filter</p> <p>Titanium apatite photocatalytic air-purifying filter ASSY</p> <p>(R17672)</p>  <p>Titanium apatite photocatalytic air-purifying filter</p> <p>Hook</p> <p>Hook</p> <p>(R18808)</p>	<ul style="list-style-type: none"> <li>■ The right and left filters are interchangeable.</li> <li>■ Bend the air filter and release the projections from the air filter frame.</li> </ul>  <p>Projection</p>

## 2. Front Panel



### Warning

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

Step	Procedure	Points
1	Open the front panel over the position where it stops.  <p style="text-align: right;">(R23310)</p>	
2	Slide the left rotary shaft to the right and release it.  <p style="text-align: right;">(R11328)</p>	<ul style="list-style-type: none"> <li>■ When reassembling the front panel, fit the right and left rotary shafts one by one into the grooves and fully push them into position.</li> </ul>
3	Slide the right rotary shaft to the left and release it.  <p style="text-align: right;">(R11329)</p>	
4	Remove the front panel.  <p style="text-align: right;">(R18792)</p>	

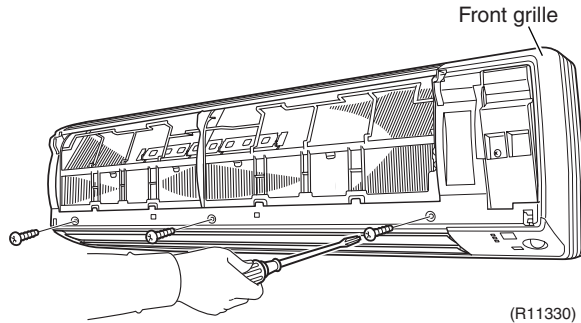
### 3. Front Grille



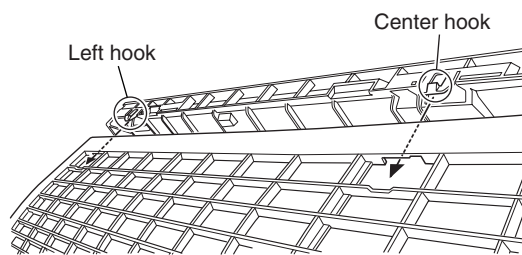
**Warning**

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

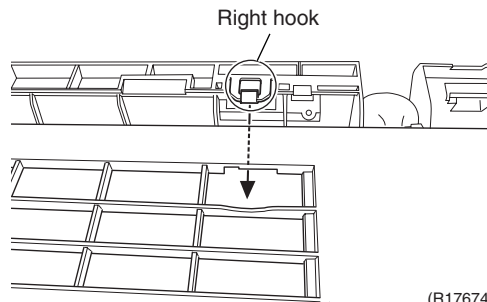
Step	Procedure	Points
1	Remove the 3 screws of the front grille.	
2	Unfasten the 3 hooks on the top of the front grille.	<p>■ The convex marks (...) on the front panel indicate the position of the hooks.</p>
3	Pull out the upper part of the front grille, lift up the lower part, and then remove the front grille.	<p>■ When reassembling, make sure that the 3 hooks are fastened.</p>



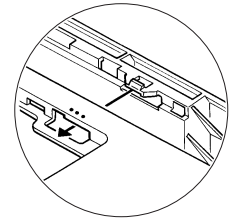
(R11330)



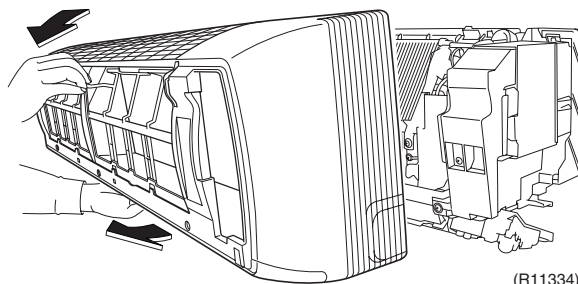
(R17673)



(R17674)



(R12715)



(R11334)

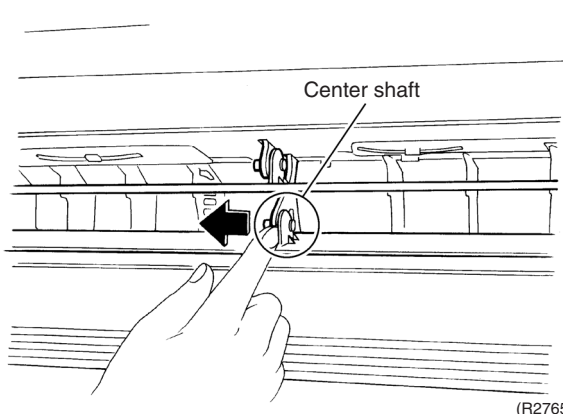
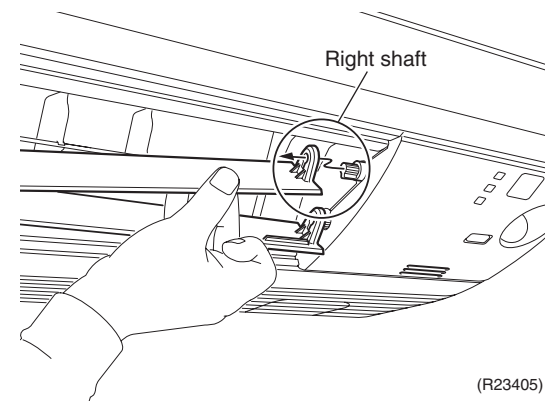
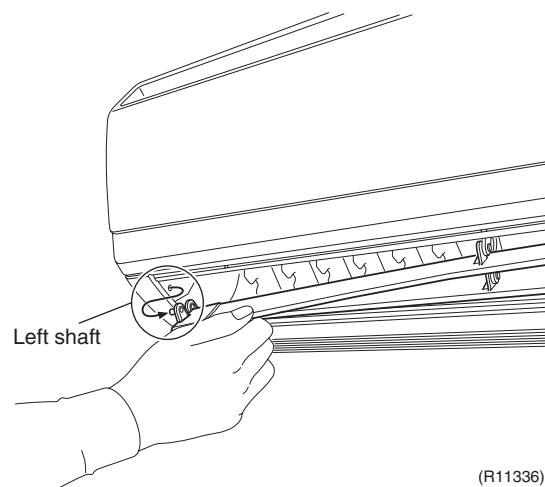
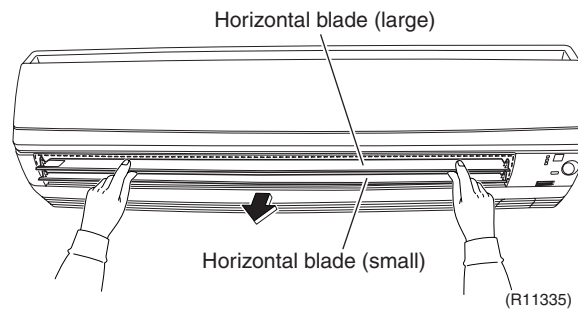
## 4. Horizontal Blades



### Warning

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

Step	Procedure	Points
1	Open the horizontal blades.	<ul style="list-style-type: none"> <li>■ When reassembling, mount the large horizontal blade to the upper position and the small horizontal blade to the lower position.</li> </ul>
2	Release the left shaft of the horizontal blade (large).	<ul style="list-style-type: none"> <li>■ Reassembling procedure</li> <li>1. Fit the horizontal blade to the right shaft first. Make sure to rotate the horizontal blade so the shaft fits correctly.</li> <li>2. Fit the horizontal blade to the center and left shafts.</li> </ul>
3	Release the right shaft of the horizontal blade (large).	
4	Release the 2 center shafts and remove the horizontal blade (large).	
5	Remove the horizontal blade (small) in the same way.	



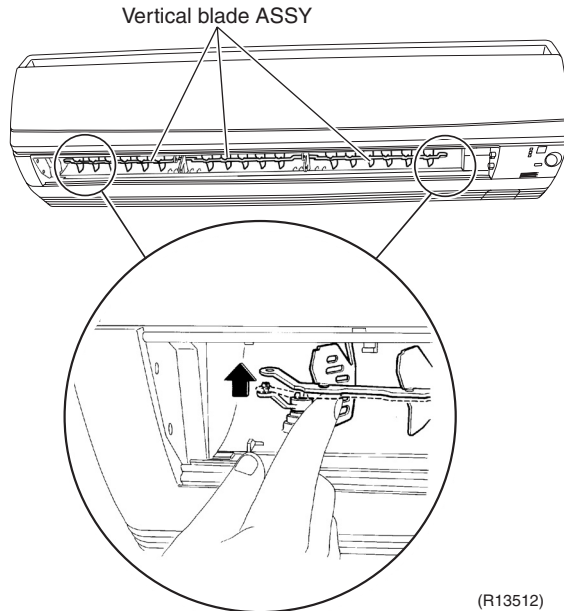
# 5. Vertical Blade ASSYs



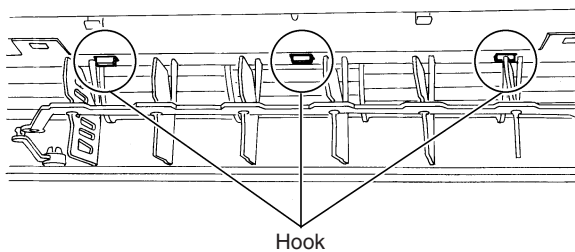
**Warning**

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

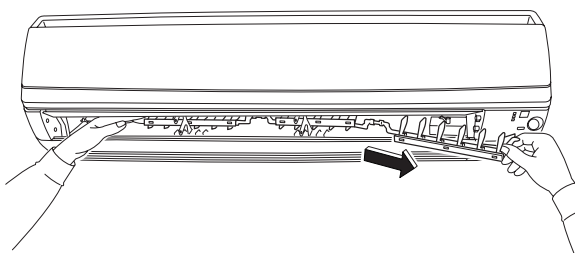
Step	Procedure	Points
1	Release the right and left shafts.	<ul style="list-style-type: none"> <li>■ Some models have fan guards. Remove the fan guards beforehand.</li> <li>■ The unit has 3 sets of vertical blade ASSY linked to one another with interlock rods. For models which have no swing motor for vertical blades, the 3 sets of vertical blade ASSY are not interlinked.</li> </ul>
2	Unfasten the 3 hooks for each set of vertical blade ASSY (9 hooks).	
3	Pull out the vertical blade ASSYs to the right and remove them.	



(R13512)



(R13513)



(R11339)

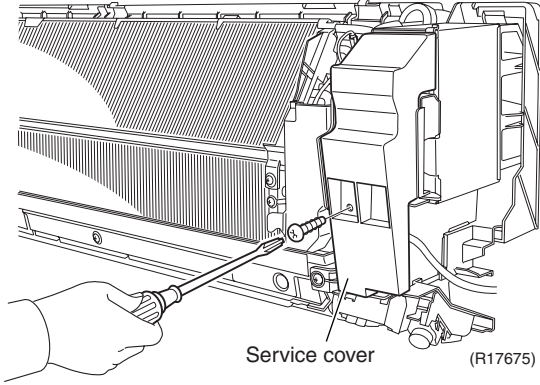
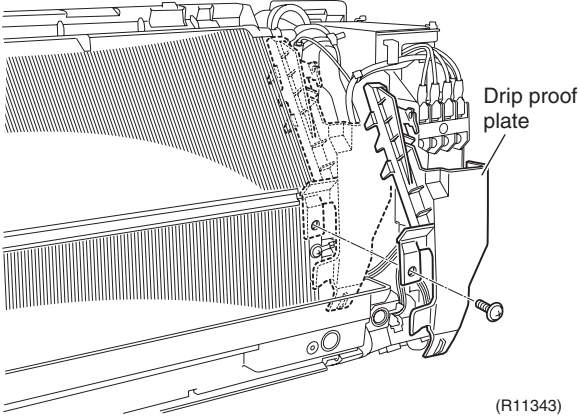
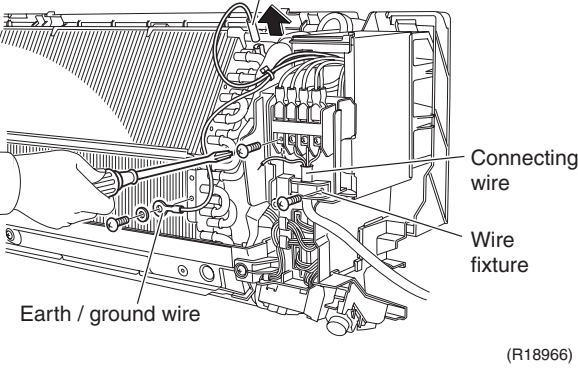
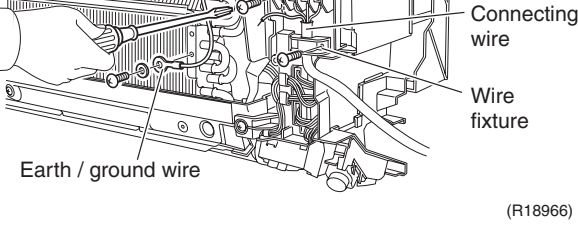
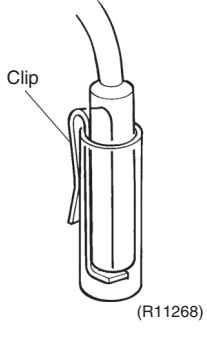


## 6. Electrical Box

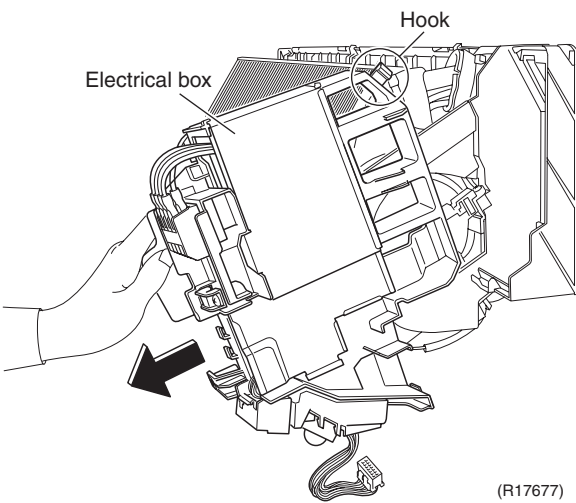
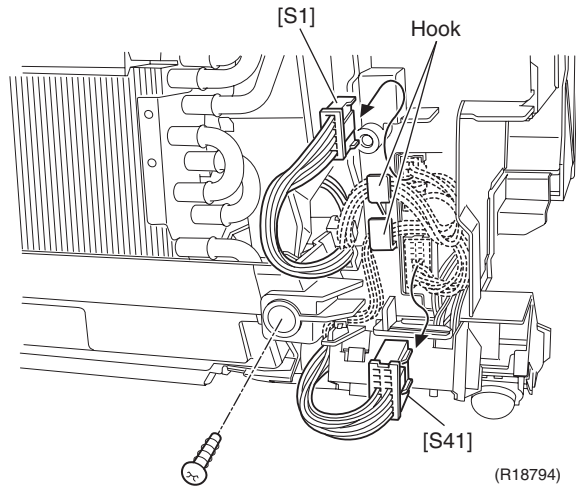


### Warning

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

Step	Procedure	Points
1	Remove the screw and remove the service cover.	
2	Remove the screw and remove the drip proof plate.	
3	Pull out the indoor heat exchanger thermistor.	<ul style="list-style-type: none"> <li>■ Be careful not to lose the clip of the thermistor.</li> </ul>
4	Remove the screw of the earth / ground wire.	
5	Remove the screw of the wire fixture.	
6	Remove the 4 screws of the connecting wires.	

Step	Procedure	Points
7	Disconnect the connectors [S1] [S41] and release the harnesses from the hooks.	[S1]: fan motor [S41]: swing motor(s)
8	Remove the screw of the electrical box.	
9	Unfasten the hook at the back of the electrical box.	<ul style="list-style-type: none"> <li>■ When reassembling, make sure the hook at the back of the electrical box is securely fastened.</li> </ul>
10	Pull out and remove the electrical box.	

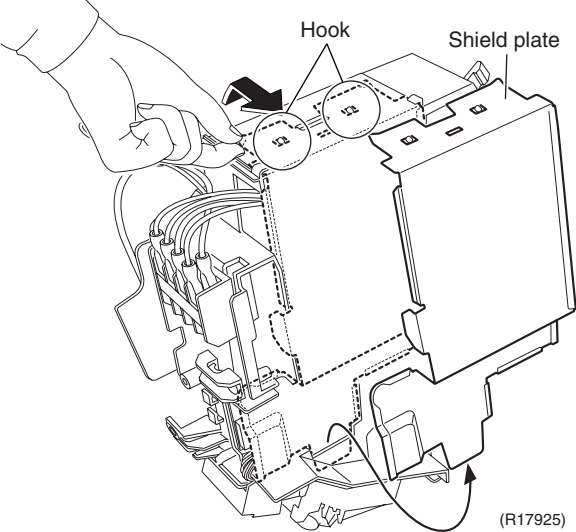
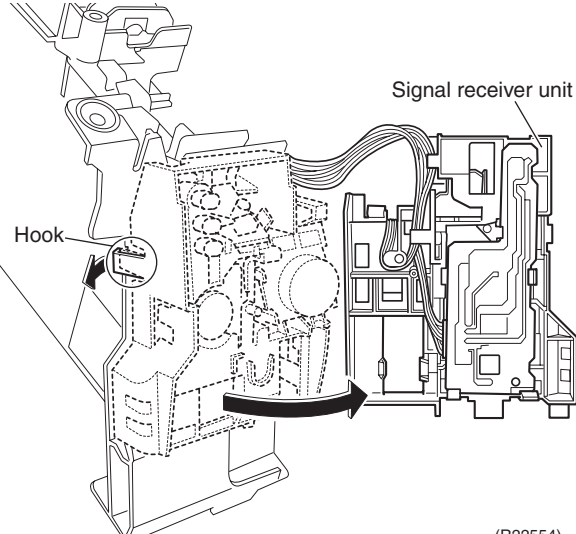
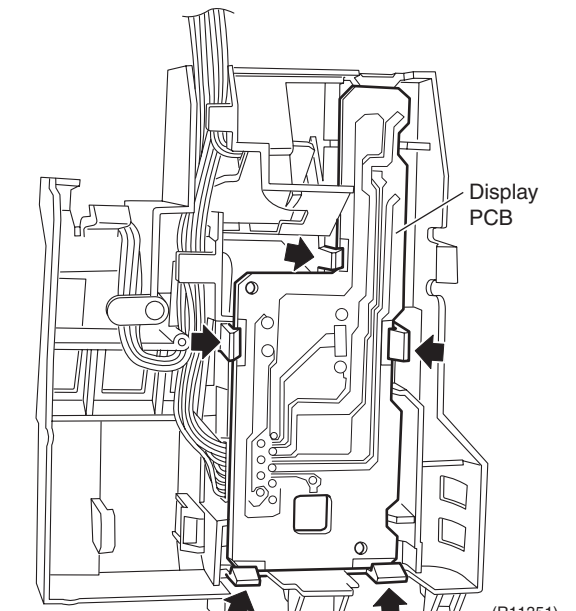


## 7. PCBs

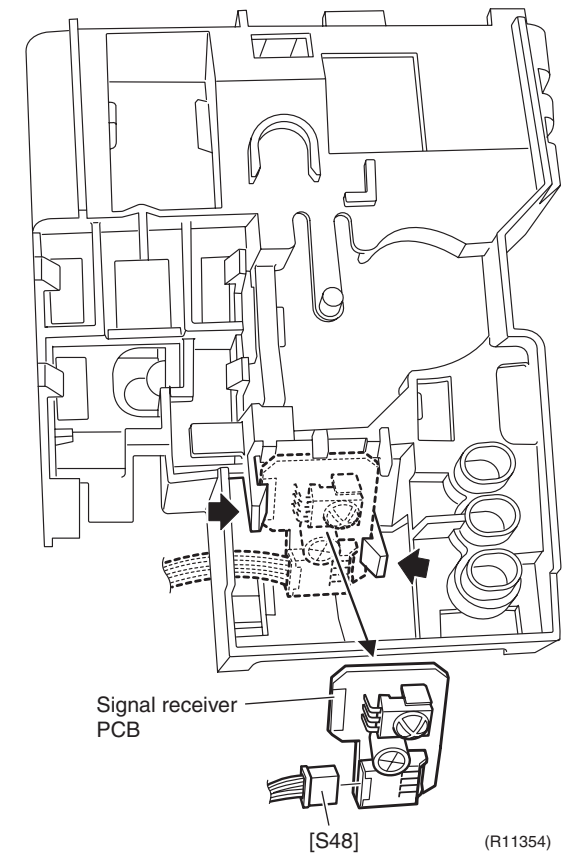
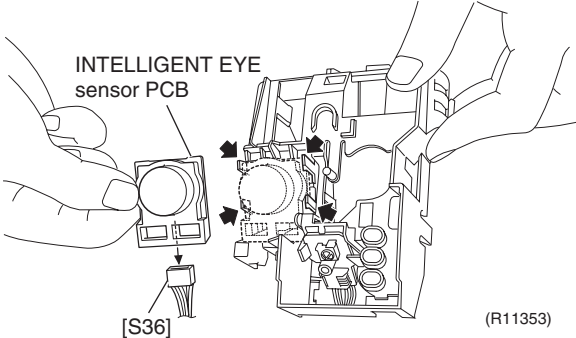
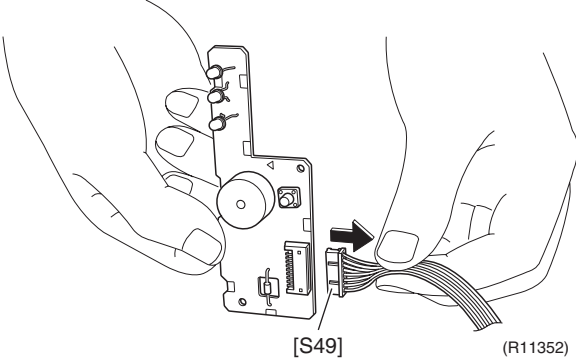


### Warning

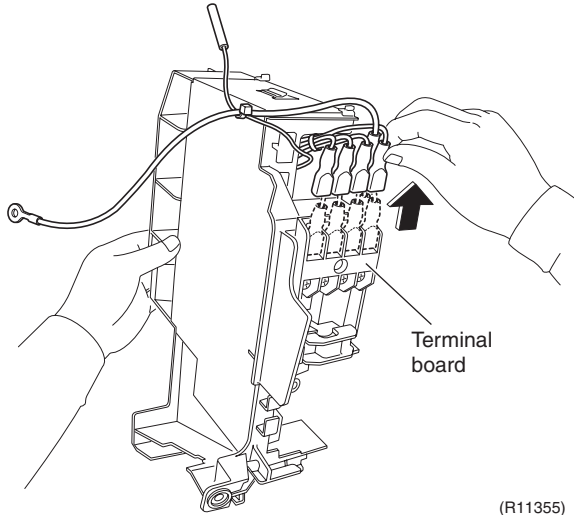
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1	Unfasten the 2 hooks on the top and remove the shield plate.	 <p>(R17925)</p>
2	Unfasten the hook and remove the signal receiver unit.	 <p>(R22554)</p>
3	Unfasten the 5 hooks and remove the display PCB.	 <p>(R11351)</p>

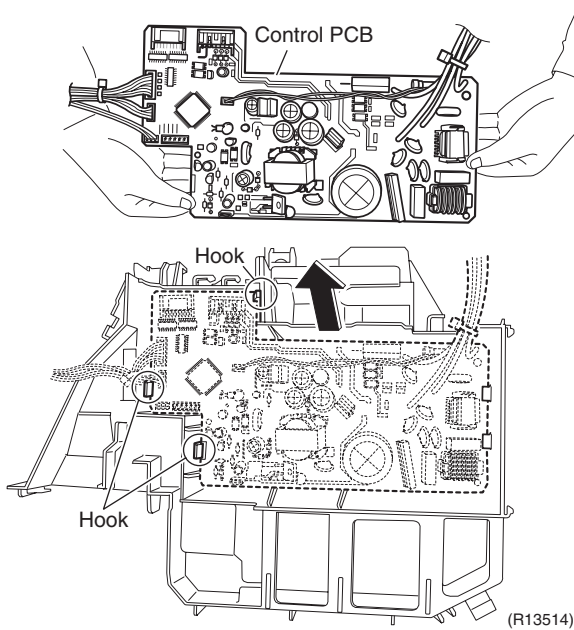
Step	Procedure	Points
4	Disconnect the connector [S49] from the display PCB.	[S49]: control PCB
5	Unfasten the 4 hooks and remove the INTELLIGENT EYE sensor PCB.	<ul style="list-style-type: none"> <li>■ Some models have no INTELLIGENT EYE sensor PCB.</li> </ul>
6	Disconnect the connector [S36].	[S36]: control PCB
7	Unfasten the 2 hooks and remove the signal receiver PCB.	[S48]: control PCB
8	Disconnect the connector [S48].	



Step	Procedure	Points
9	Pull out all the harnesses from the terminal board.	
10	Unfasten the 3 hooks and remove the control PCB.	



(R11355)



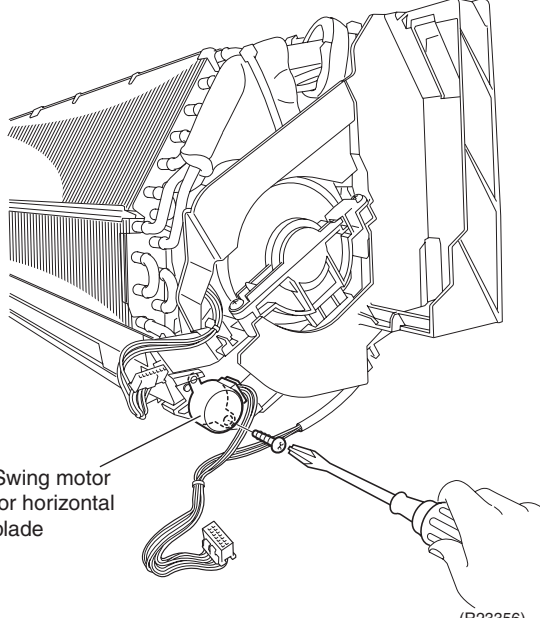
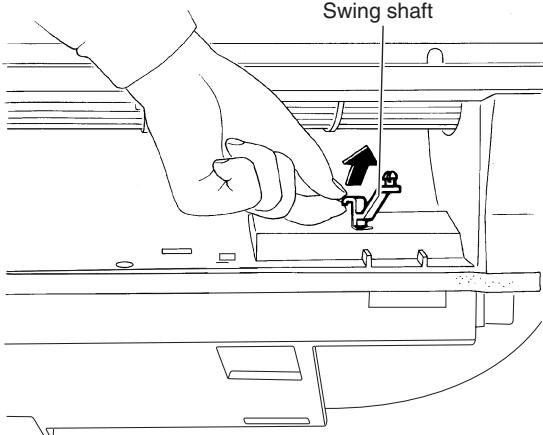
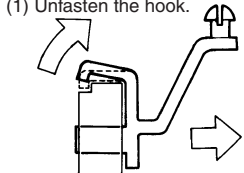
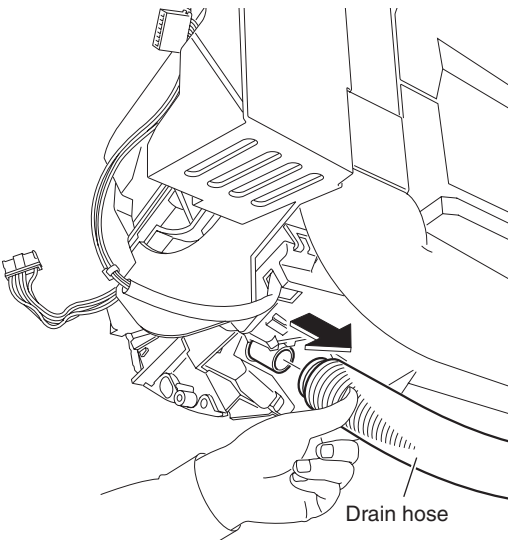
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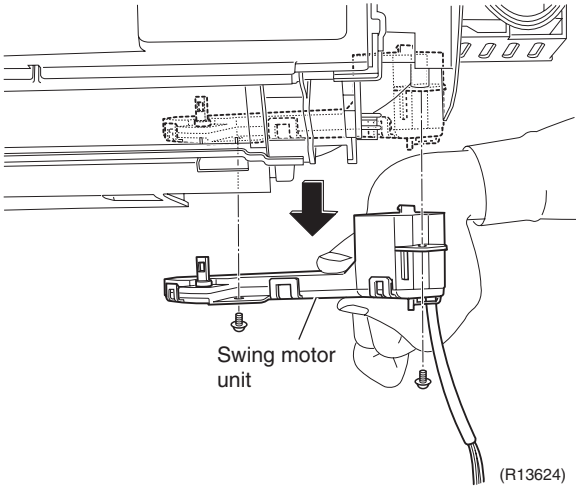
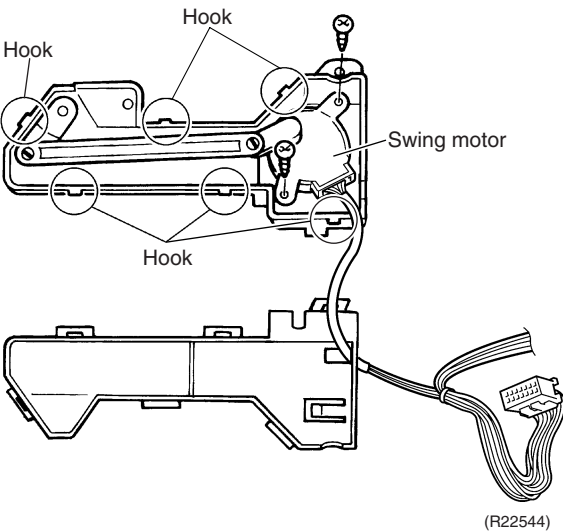
# 8. Swing Motors



**Warning**

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Step	Procedure	Points
1. Remove the swing motor for horizontal blades.	 <p>Swing motor for horizontal blade</p> <p>(R23356)</p>	
1 Remove the screw of the swing motor.		
2 Remove the swing motor for horizontal blades.		
2. Remove the swing motor for vertical blades.	 <p>Swing shaft</p> <p>(R11361)</p>	<ul style="list-style-type: none"> <li>■ Some models have no swing motor for vertical blades.</li> <li>■ Remove the swing shaft.</li> </ul> <p>(1) Unfasten the hook.</p>  <p>(2) Pull out the swing shaft.</p> <p>(R12896)</p>
1 Remove the swing shaft on the right side.		
2 Pull out the drain hose.	 <p>Drain hose</p> <p>(R11357)</p>	<ul style="list-style-type: none"> <li>■ Be careful not to wet the floor with the drained water.</li> </ul>

Step	Procedure	Points
3	Remove the 2 screws and detach the swing motor unit.	
	 <p>(R13624)</p>	
4	Remove the 2 screws and remove the swing motor.	<ul style="list-style-type: none"> <li>■ The assembly has 6 hooks.</li> </ul>
	 <p>(R22544)</p>	

# 9. Indoor Heat Exchanger



**Warning**

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



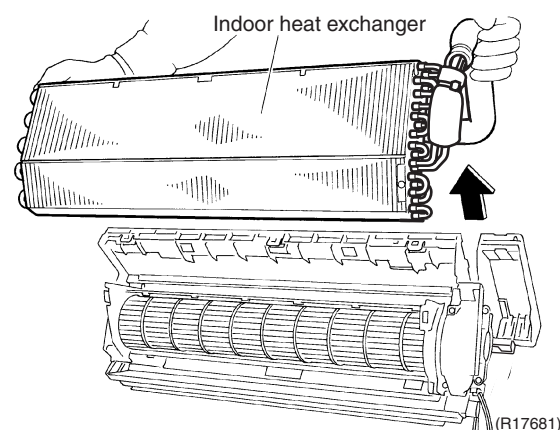
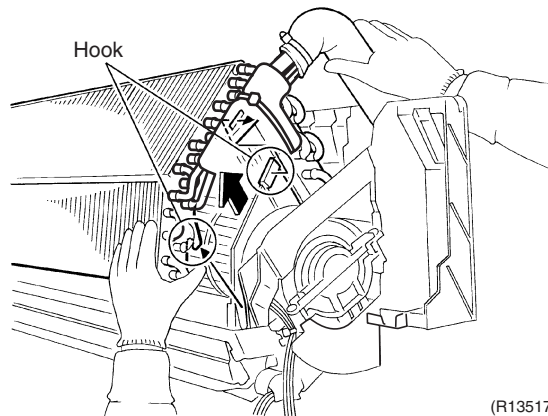
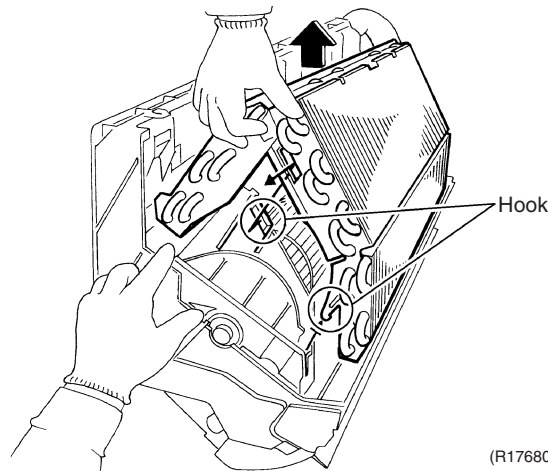
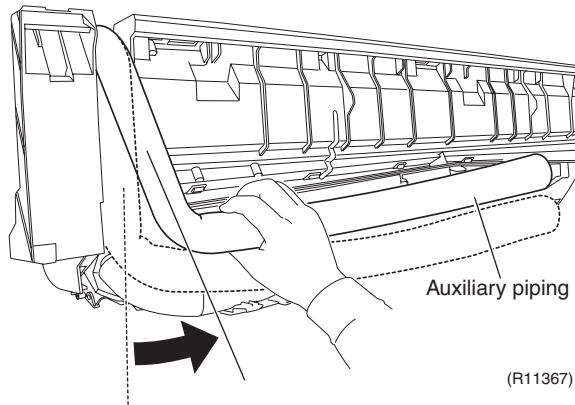
**Caution**

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

Step		Procedure	Points
1 2	Pull out the drain hose.  Unscrew the flare nut for both gas piping and liquid piping and disconnect them.		<ul style="list-style-type: none"> <li>■ Hold the indoor unit up with a piece of wood.</li> <li>■ Place a plastic sheet under the drain pan to prevent wetting the floor with remaining drain.</li> <li>■ If the drain hose is embedded in the wall, disconnect the drain hose beforehand.</li> </ul>
3	Detach the indoor unit from the installation plate.		<ul style="list-style-type: none"> <li>■ Carry out the removal works with 2 wrenches.</li> <li>■ When the pipings are disconnected, protect the open ends of both the pipe and the unit from moisture intrusion.</li> </ul>
4	Unfasten the hook and remove the piping fixture on the back of the indoor unit.		



Step	Procedure	Points
5	Slightly pull out the auxiliary piping.	
6	Unfasten the 2 hooks on the left side.	
7	Push the 2 hooks on the right side and unfasten them.	
8	Pull the indoor heat exchanger to the front side and unfasten the hooks completely, and then lift the indoor heat exchanger.	



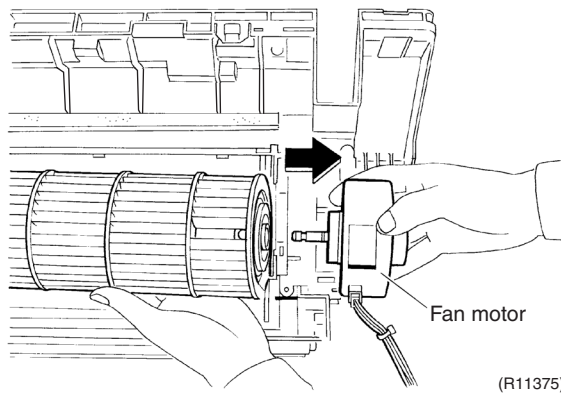
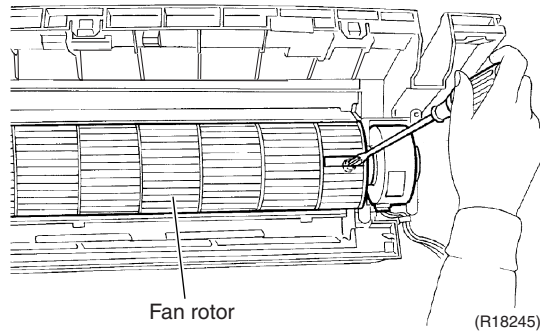
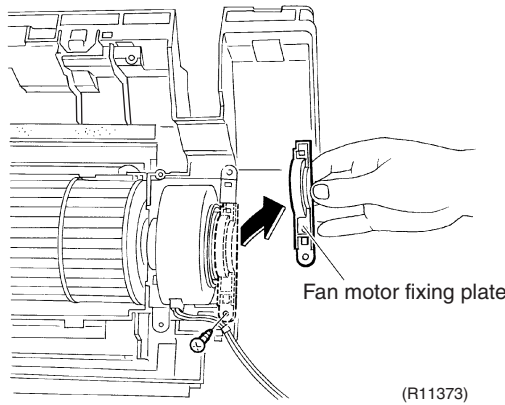
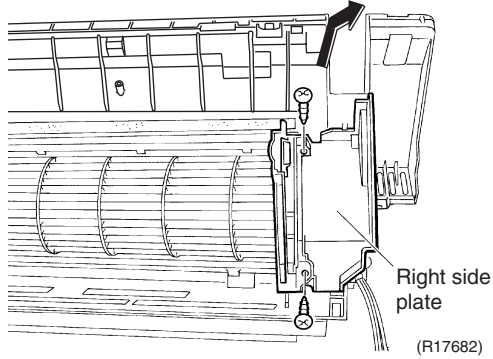
# 10.Fan Motor / Fan Rotor



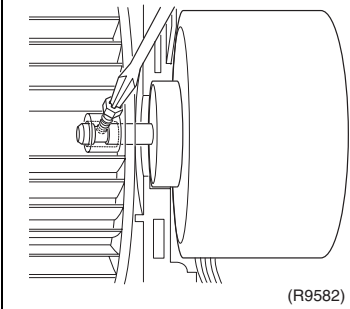
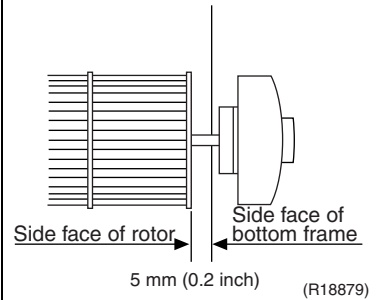
**Warning**

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

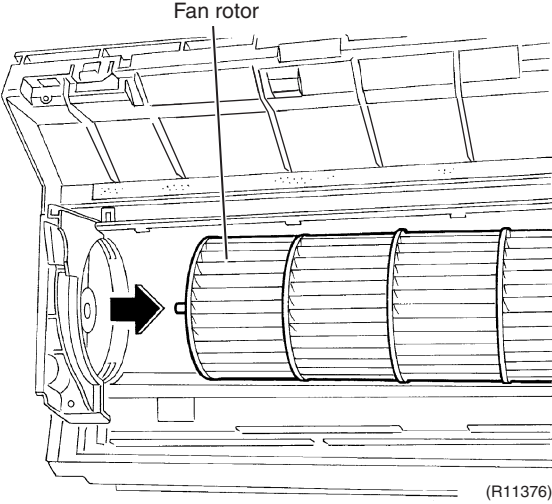
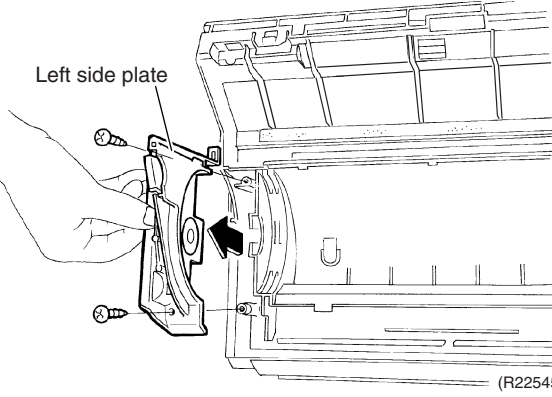
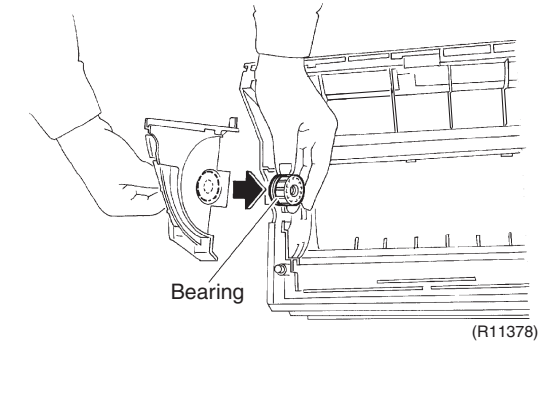
Step	Procedure	Points
1	Remove the 2 screws of the right side plate.	
2	Lift the right side plate and remove it.	
3	Remove the screw and remove the fan motor fixing plate.	
4	Loosen the screw of the fan rotor.	
5	Remove the fan motor.	



■ When reassembling the fan motor and the fan rotor, provide as much as 5 mm (0.2 inch) of play between the side face of the rotor and the bottom frame.



- (1) Insert the fan motor allowing for approx. 5 mm (0.2 inch) of play.
- (2) Tighten the fan rotor screw until it stops. Then give the screw one more turn.
- (3) If the fan rotor rotates appropriately, tighten the screw completely.
- (4) If not, repeat the procedure from (1).

Step	Procedure	Points
6	Remove the fan rotor.	
7	Remove the 2 screws and remove the left side plate.	
8	The bearing is made of rubber. Push it inward and remove it.	

# Revision History

Month / Year	Version	Revised contents
09 / 2012	Si041255	First edition
11 / 2012	Si041255_A	Model addition: FTXS60/71GV1B
04 / 2013	Si041255_B	Model addition: FTKS15JV2S, FTKS42JVMG
12 / 2013	Si041255EC	Model addition: FTKS50/60/71GVM4, FTKS50/60/71GVMV, FTKS42JVMG9
04 / 2014	Si041255ED	Model addition: FTKD42/50/60/71GVM9, FTKD42/50/60/71HVMV
07 / 2014	Si041255EE	Model addition: FTKC18/24NV2S, FTKC50/60NVM, FTKC50/60NVM4, FTKC50/60NVMM, FTKC50/60NVMV, FTKV50/60NVM, FTKV50/60NVM4, FTKV50/60NVMM, FTKV50/60NVMV
02 / 2015	Si041255EF	Model addition: FTKM60PVM
10 / 2015	Si041255EG	Model addition: CTKM60PV14, CTKM24PV2S
04 / 2016	Si041255EH	Model addition: ATKC18/24RV2S

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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