

# REMOVAL PROCEDURE



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

**5.0 kW Class**

**7000/9000/12000 Btu/h Class**



Indoor Unit



Inverter



Wall Mounted Type



# **Service Manual Removal Procedure**

## **Indoor Unit**

●Cooling Only  
FTKS50BVMA8

●Heat Pump  
CTXS07JVJU  
CTXS09HVJU  
CTXS12HVJU

# Table of Contents

1. Air Filters .....	2
2. Front Panel.....	3
3. Front Grille .....	4
4. Horizontal Blades .....	5
5. Vertical Blade ASSY .....	6
6. Electrical Box .....	7
7. PCBs .....	9
8. Swing Motors .....	11
9. Indoor Heat Exchanger .....	12
10. Fan Rotor / Fan Motor .....	14



**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.</p> <p>2 Pull out the air filter.</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>■ The air filter can be set easily by inserting it along the guides.</li> <li>■ Be sure to insert the hooks (at 2 lower positions) when mounting the air filter.</li> </ul>
<p>2. Remove the Air purifying filters with photocatalytic deodorizing function.</p> <p>1 Remove the Air purifying filter with photocatalytic deodorizing function from the 5 hooks.</p>		<ul style="list-style-type: none"> <li>■ The right and left filters are interchangeable.</li> </ul>

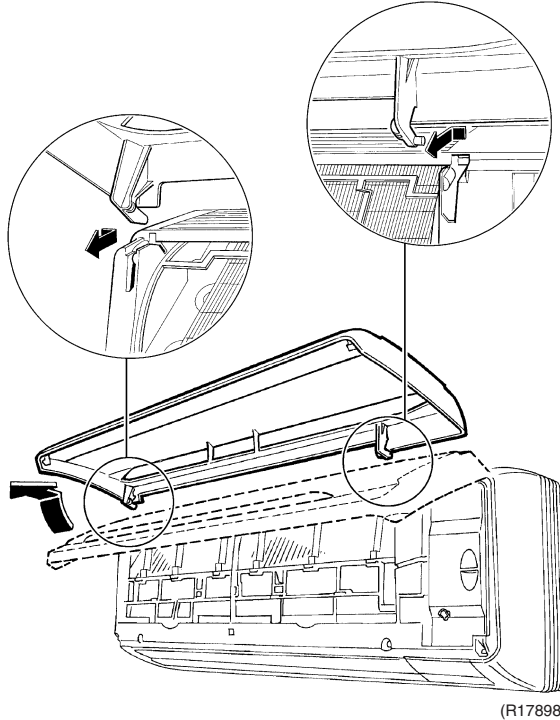
## 2. Front Panel



### 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.	<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 in position.</li> </ul>
2	Slide the left rotary shaft to the right and release it.	
3	Remove the right rotary shaft in the same way.	



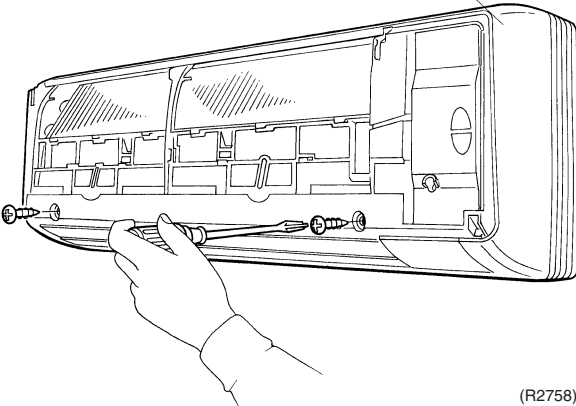
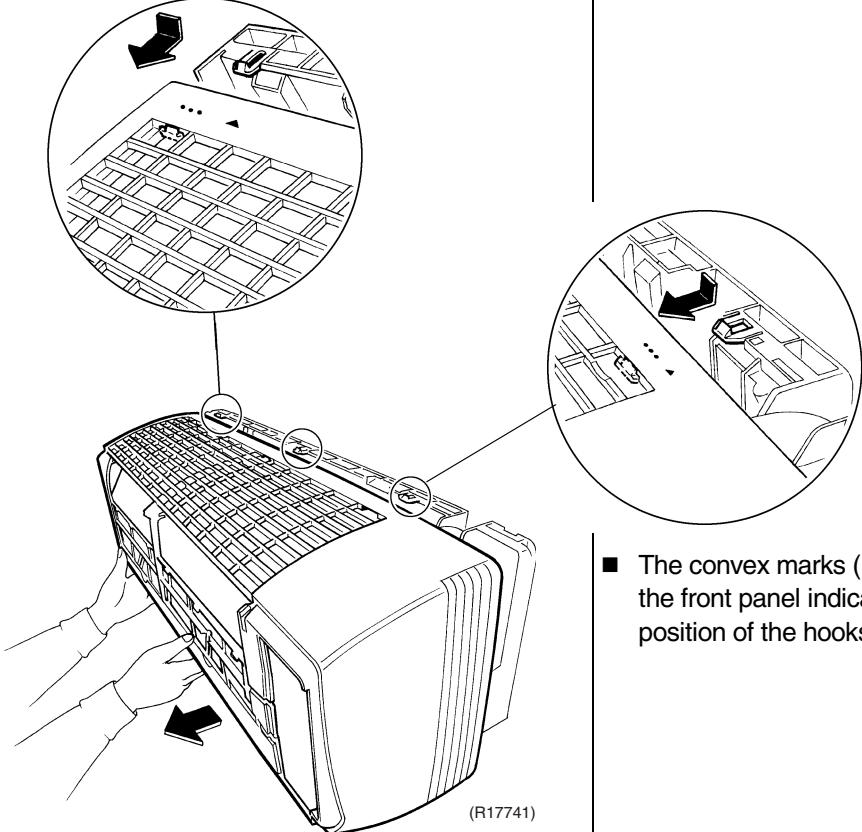
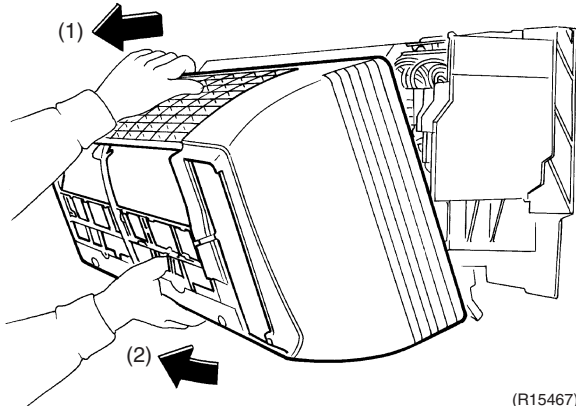
(R17898)

### 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 2 screws of the front grille.	 <p>(R2758)</p>
2	Unfasten the 3 hooks on the top of the front grille.	 <p>(R17741)</p> <ul style="list-style-type: none"> <li>■ The convex marks (...) on the front panel indicate the position of the hooks.</li> </ul>
3	Pull out the upper part of the front grille and lift up the lower part, and then remove the front grille.	 <p>(R15467)</p> <ul style="list-style-type: none"> <li>■ When reassembling, make sure that the 3 hooks are fastened.</li> </ul>

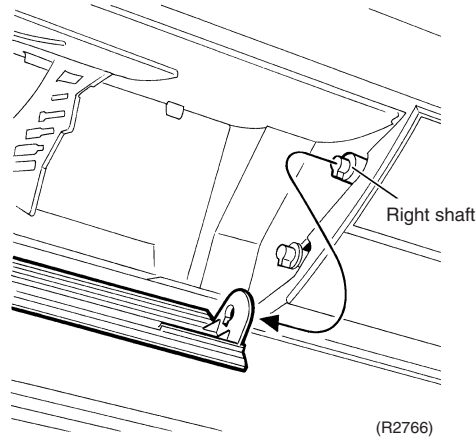
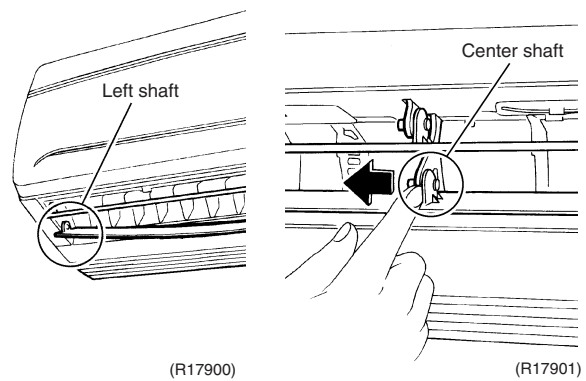
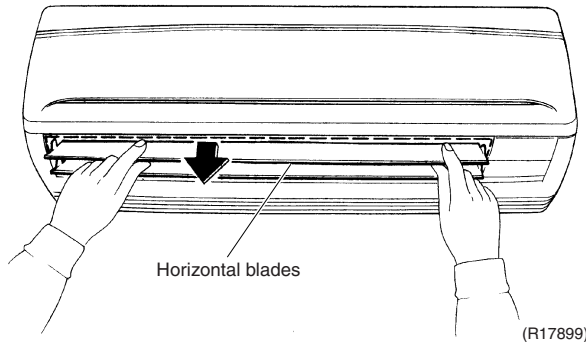
## 4. Horizontal Blades



### 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.	
2	Bend the horizontal blade (lower) slightly and release the left shaft and the center shaft.	
3	Slide the horizontal blades (lower) the left and release the right shaft.	<p>■ Installation procedure</p> <ol style="list-style-type: none"> <li>1. Since the key pattern hook is provided, rotate the blade and fit it to the right shaft first.</li> <li>2. Fit the blade to the center and left shafts.</li> </ol>
4	Remove the horizontal blade (upper) in the same way.	



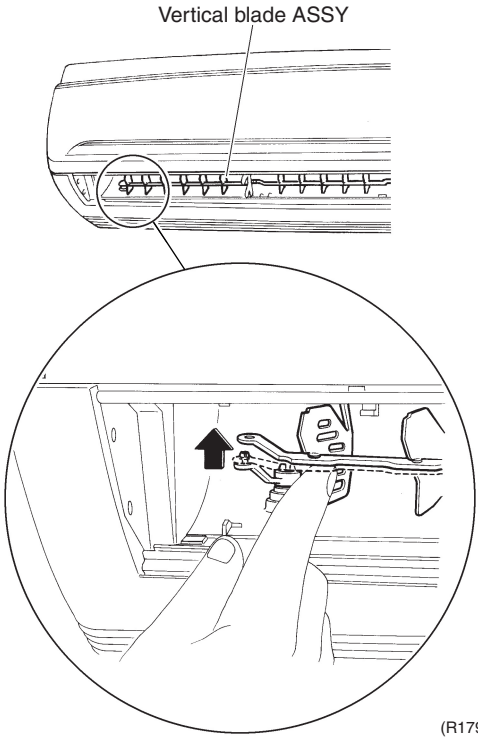
# 5. Vertical Blade ASSY



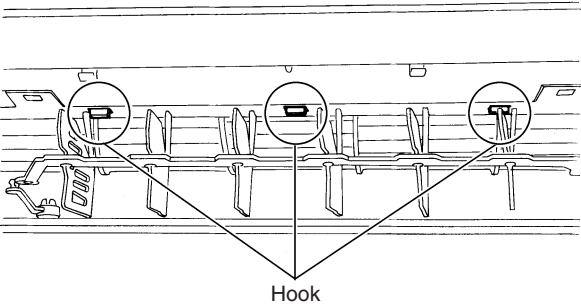
**Warning**

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

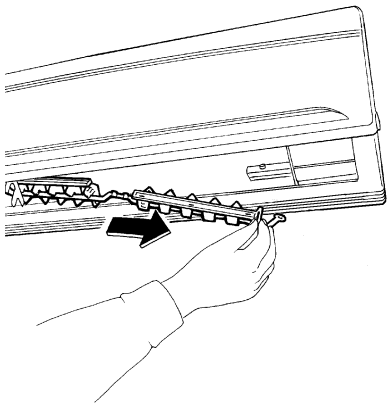
Step	Procedure	Points
1	Release the right and left shafts.	<ul style="list-style-type: none"> <li>Some models have fan guards. Remove the fan guards beforehand.</li> </ul>
2	Unfasten the 3 hooks for each set of vertical blade ASSY.	
3	Remove the vertical blade ASSY.	



(R17909)



(R17917)



(R17910)

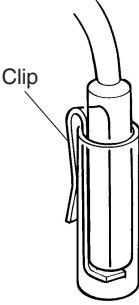


## 6. Electrical Box

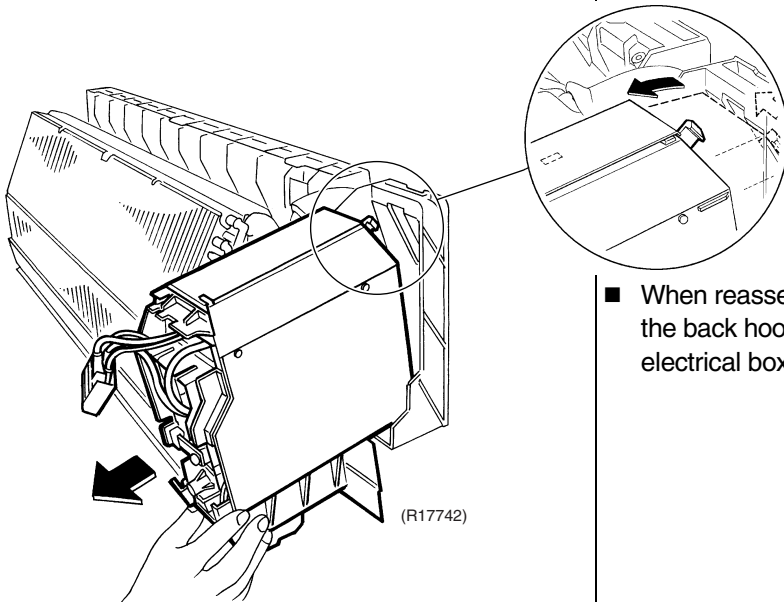
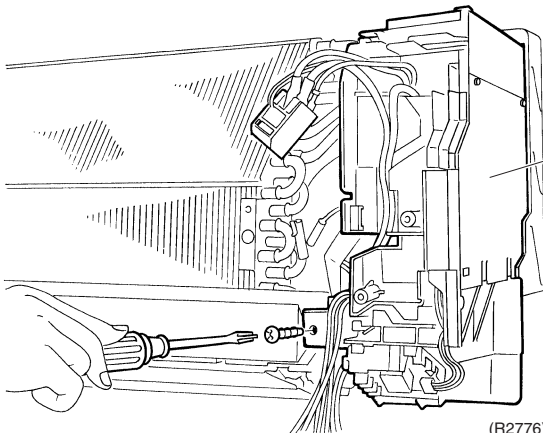
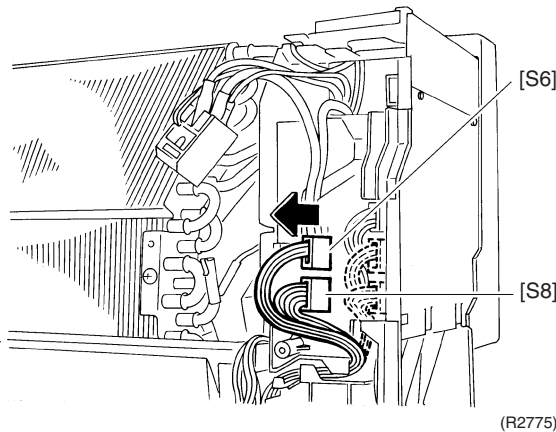


### Warning

- ◆ 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 drip proof plate.	
2	Remove the screw of the earth / ground wire.	<ul style="list-style-type: none"> <li>■ Be careful not to lose the clip for the thermistor.</li> </ul>
3	Pull out the indoor heat exchanger thermistor.	
4	Remove the screw of the wire fixture.	
5	Remove the 4 screws of the connecting wires.	<ul style="list-style-type: none"> <li>■ Some models do not have a wire fixture.</li> </ul>
6	Disconnect the connector [S1].	[S1]: fan motor

Step	Procedure	Points
7	Disconnect the connectors [S6] [S8].	[S6]: swing motor for horizontal blade [S8]: swing motor for vertical blade
8	Remove the screw of the electrical box.	Electrical box
9	Lift up the lower part of the electrical box.	
10	Release the upper hook and remove the electrical box.	■ When reassembling, catch the back hook of the electrical box.



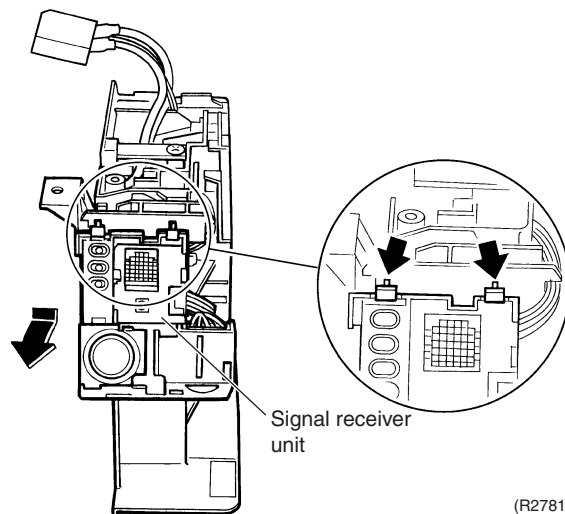
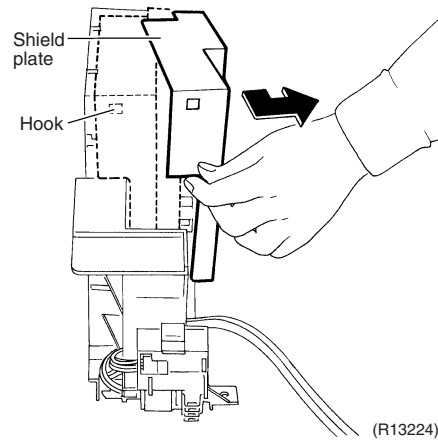
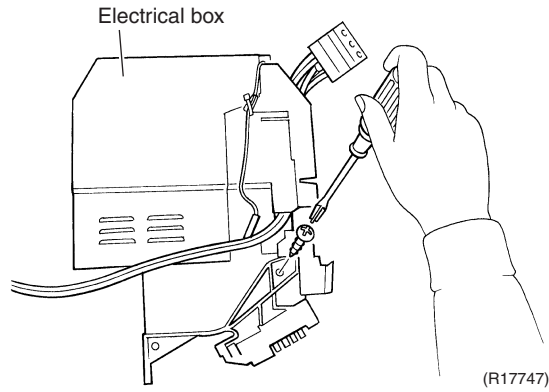
## 7. PCBs

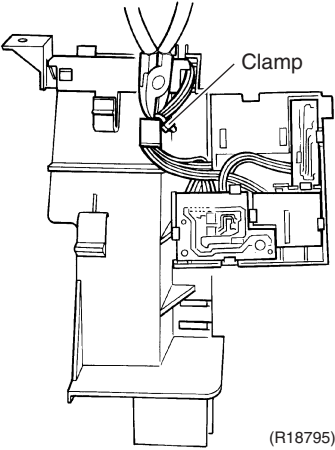
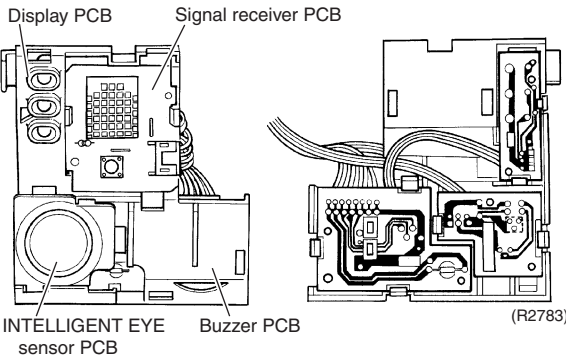
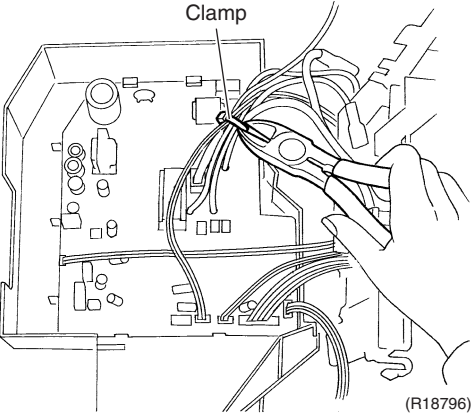
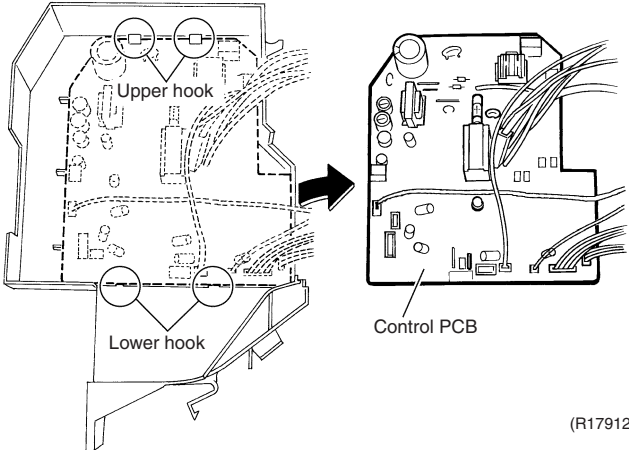


### Warning

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

Step	Procedure	Points
1	Remove the screw on the electrical box.	■ Screw: M4 × 16
2	Push the shield plate and unfasten the hook.	
3	Press the signal receiver unit down and unfasten the hooks on the upper side, and then unfasten the hooks on the lower side.	



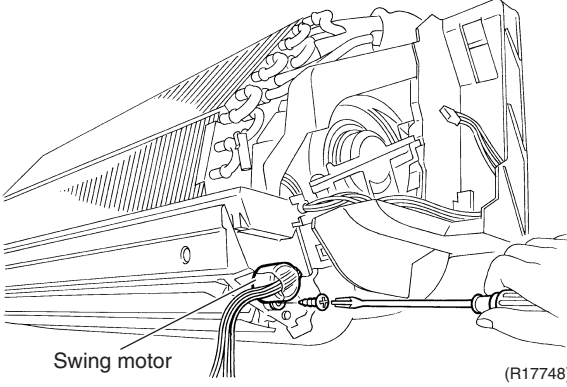
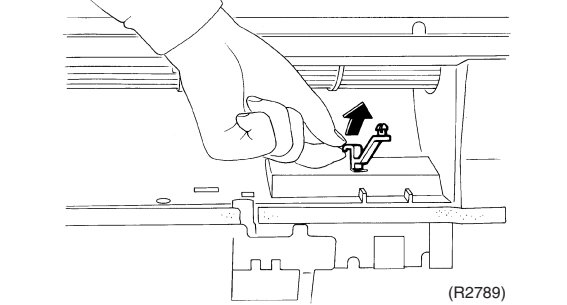
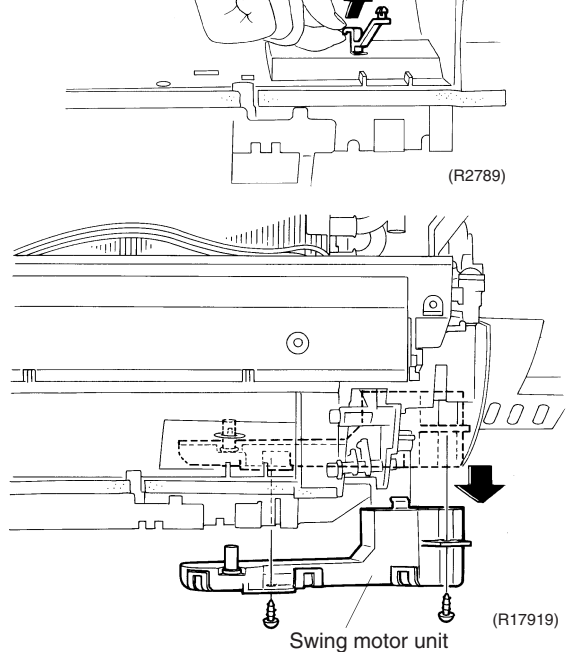
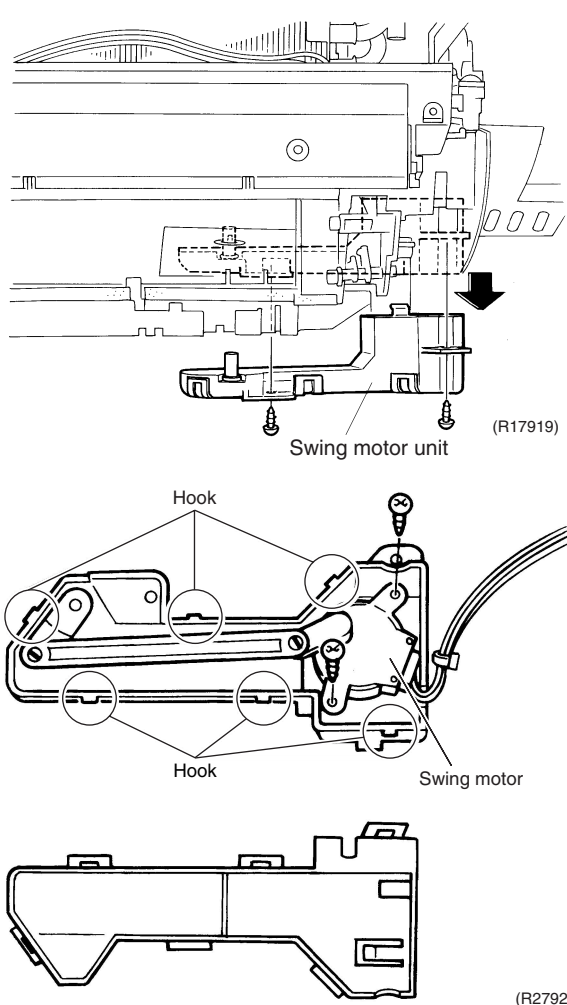
Step	Procedure	Points
4	Cut the clamp.	
	 <p style="text-align: center;">(R18795)</p>	
5	<p>The signal receiver unit has 4 PCBs. Unfasten the hooks and remove each PCB. Disconnect every connector from each PCB.</p>	
	 <p style="text-align: center;">(R2783)</p>	
6	Cut the clamp.	
	 <p style="text-align: center;">(R18796)</p>	
7	<p>Unfasten the 2 hooks on the lower side, and then the 2 hooks on the upper side. Remove the control PCB.</p>	
	 <p style="text-align: center;">(R17912)</p>	

## 8. Swing Motors



### 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 motor for horizontal blades.	 <p>Swing motor (R17748)</p>	
1 Remove the screw of the swing motor.		
2 Remove the swing motor.		
2. Remove the swing motor for vertical blades.	 <p>(R2789)</p>	<ul style="list-style-type: none"> <li>■ Remove the swing shaft.           <ul style="list-style-type: none"> <li>(1) Unfasten the hook. (R12896)</li> <li>(2) Pull out the swing shaft. (R12896)</li> </ul> </li> </ul>
1 Remove the swing shaft on the right side.		
2 Remove the 2 screws and detach the swing motor unit.	 <p>Swing motor unit (R17919)</p>	
3 Remove the 2 screws and detach the swing motor.	 <p>Hook (R2792)</p> <p>Hook</p> <p>Swing motor</p>	<ul style="list-style-type: none"> <li>■ The assembly has 6 hooks.</li> </ul>

# 9. Indoor Heat Exchanger



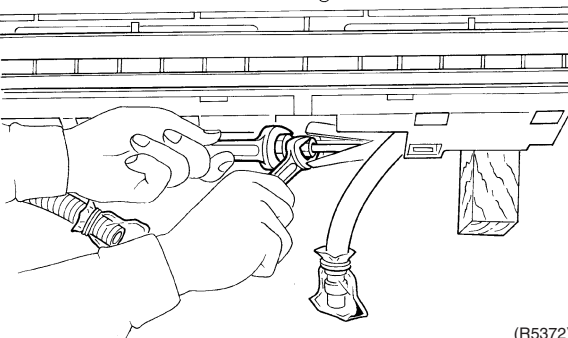
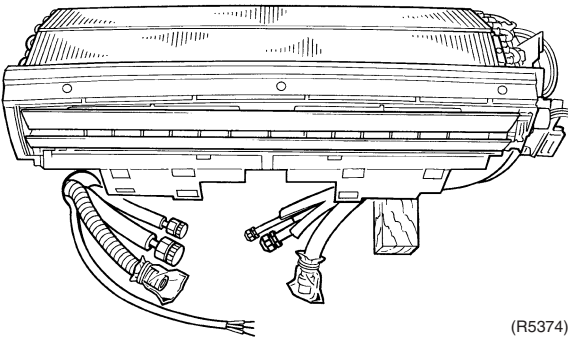
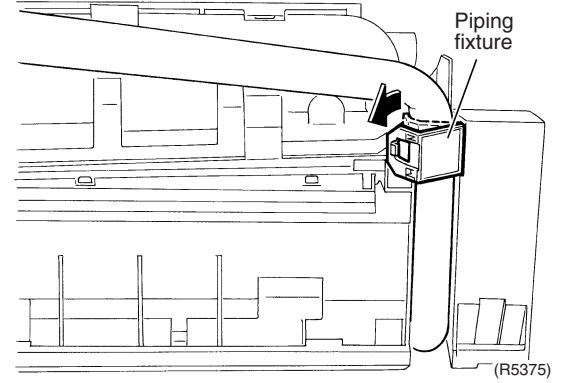
**Warning**

- ◆ 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.)

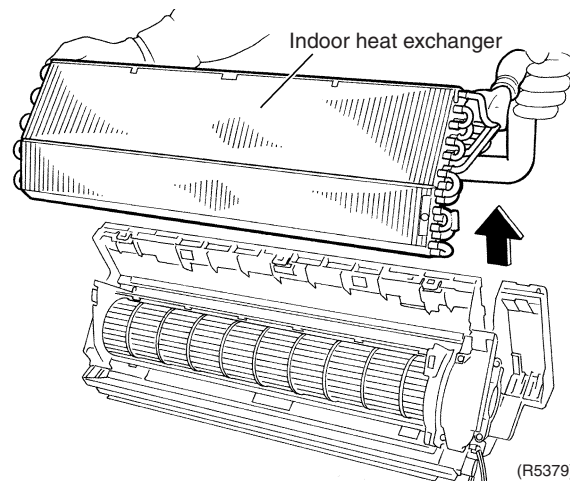
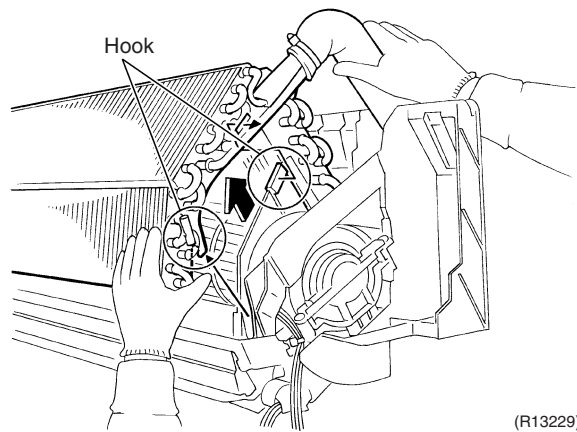
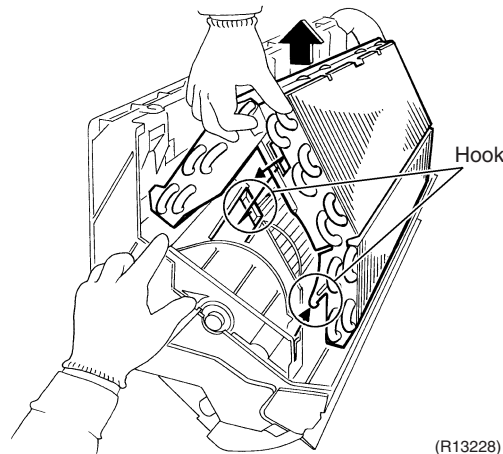
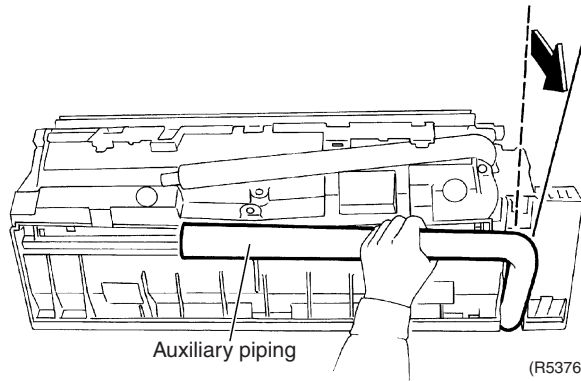


**Caution**

- ◆ 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	Procedure	Points
1	Unscrew the flare nut for gas piping and liquid piping and disconnect them.	 <p style="text-align: right;">(R5372)</p>	<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 from wetting the floor with remaining drain.</li> <li>■ If the drain hose is embedded in the wall, disconnect the drain hose beforehand.</li> </ul>
2	Detach the indoor unit from the installation plate.	 <p style="text-align: right;">(R5374)</p>	<ul style="list-style-type: none"> <li>■ Carry out the removal works with 2 wrenches.</li> <li>■ When the pipings are disconnected, protect both the openings of pipe and unit from entering of moisture.</li> </ul>
3	Unfasten the hook of the piping fixture on the back of the indoor unit.	 <p style="text-align: right;">(R5375)</p>	

Step	Procedure	Points
4	Slightly widen the auxiliary piping.	
5	Unfasten the hooks on the left side.	
6	Push the hooks on the right side and unfasten them.	
7	Pull the indoor heat exchanger to the front side and release the hooks completely, and then lift it.	



# 10. Fan Rotor / Fan Motor



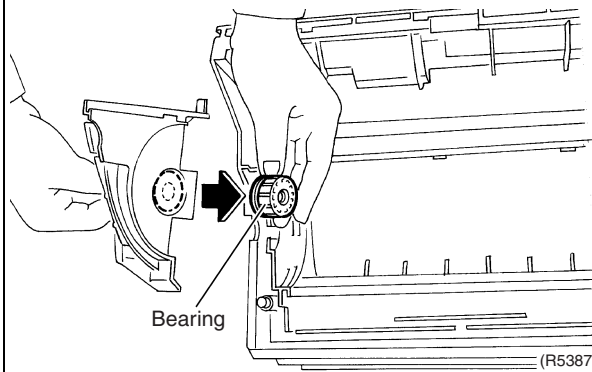
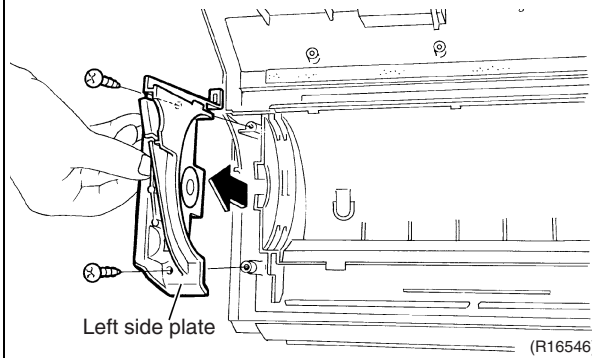
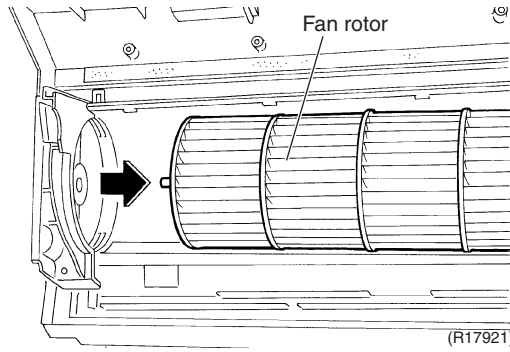
**Warning**

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

Step	Procedure	Procedure	Points
1	Remove the 2 screws.	<p style="text-align: right;">Right side plate (R16544)</p>	<p>■ You can remove the fan rotor without detaching the right side plate.</p>
2	Lift the right side plate and remove it.		
3	Remove the screw and remove the fan motor fixing plate.	<p style="text-align: right;">Fan motor fixing plate (R17920)</p>	<p>■ When reassembling the fan motor and the fan rotor, provide as much as 5 mm of play between the side face of the rotor and the bottom frame.</p>
4	Loosen the screw of the fan rotor.	<p style="text-align: right;">Fan rotor (R17743)</p>	<p style="text-align: right;">Side face of rotor Side face of bottom frame 5 mm (R2808)</p>
5	Remove the fan motor.	<p style="text-align: right;">Fan motor (R13230)</p>	<p style="text-align: right;">(R9582)</p> <ol style="list-style-type: none"> <li>(1) Insert the fan motor with approx. 5 mm left.</li> <li>(2) Tighten the screw until it stops. Then give the screw one more turn.</li> <li>(3) Rotate the fan rotor and confirm the fan motor and the fan rotor are installed appropriately.</li> <li>(4) Tighten the screw completely if appropriate.</li> <li>(5) If not appropriate, go back to (1).</li> </ol>



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	Si041253	First edition
02 / 2013	Si041253_A	Model addition: CTXS07JVJU, CTXS09/12HVJU

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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