






Si041259EA

REMOVAL PROCEDURE



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

3.5/4.2/5.0 kW Class

-  Indoor Unit
-  Inverter
-  Wall Mounted Type



Service Manual Removal Procedure

Indoor Unit

●Heat Pump

FTXM35K3V1B

FTXM42K3V1B

FTXM50K3V1B

FTXS35K2V1B

FTXS42K2V1B

FTXS50K2V1B

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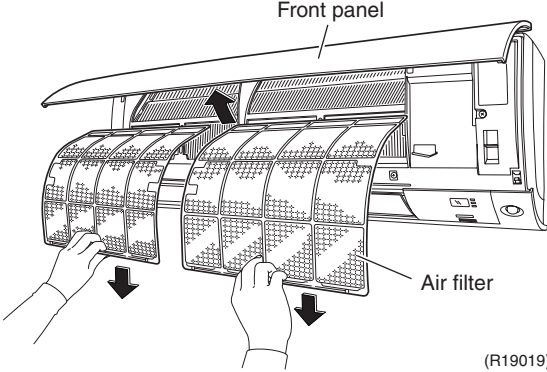
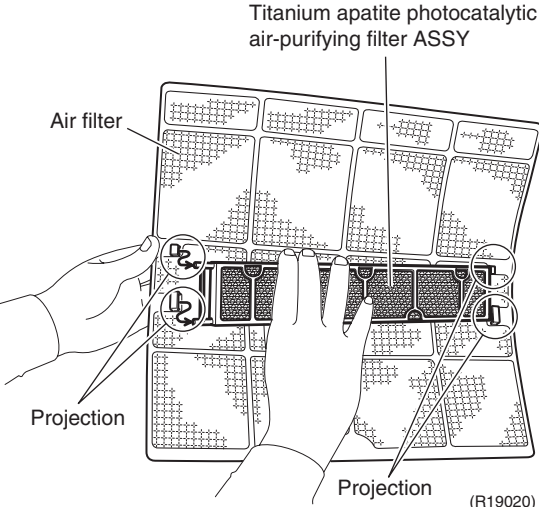
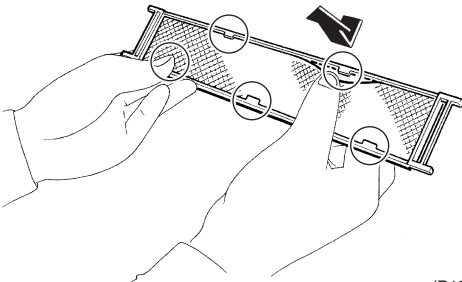
Note: ♦ The illustrations may be slightly different depending on the model.

1. Air Filters



Warning

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

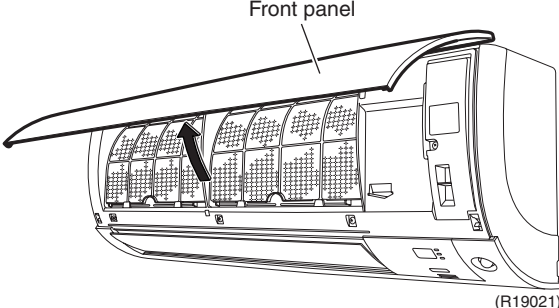
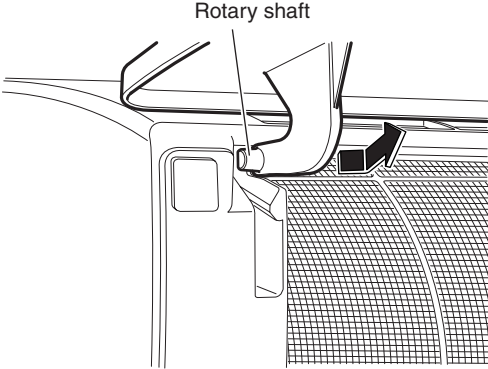
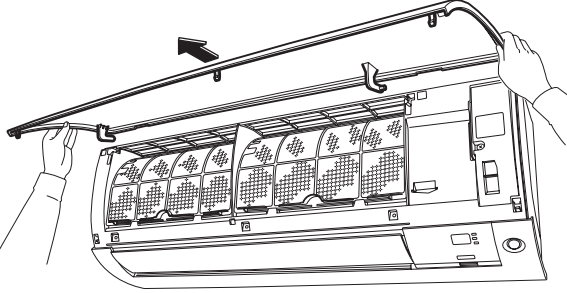
Step	Procedure	Points
<p>1. Remove the air filter.</p> <p>1 Open the front panel.</p> <p>2 Pull out the air filter downward and remove it.</p> <p>3 Remove the other air filter in the same way.</p>	 <p>(R19019)</p>	<ul style="list-style-type: none"> ■ The air filter is not marked for difference between the right and left sides. ■ Insert the air filter with the "FRONT" mark faced up. ■ The air filter can be set easily by inserting it along the guides. ■ Be sure to insert the hooks (at 2 lower positions) when installing the air filter.
<p>2. Remove the Titanium apatite photocatalytic air-purifying filters.</p> <p>1 Remove the Titanium apatite photocatalytic air-purifying filter ASSY by unfastening the 4 projections from the back of the filter.</p> <p>2 Remove the Titanium apatite photocatalytic air-filter from its frame.</p>	 <p>(R19020)</p>  <p>(R13174)</p>	<ul style="list-style-type: none"> ■ The right and left filters are interchangeable.

2. Front Panel



Warning

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Step	Procedure	Points	
1	Open the front panel over the position where it stops.	 <p>(R19021)</p>	
2	Release the left rotary shaft.	 <p>(R19022)</p>	<ul style="list-style-type: none"> ■ When reassembling the front panel, fit the right and left rotary shafts one by one into the grooves and fully push them into position.
3	Release the right rotary shaft and remove the front panel.	 <p>(R19023)</p>	

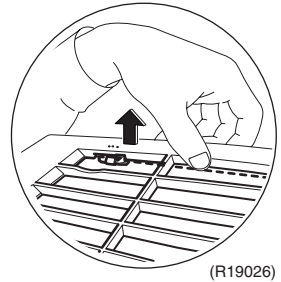
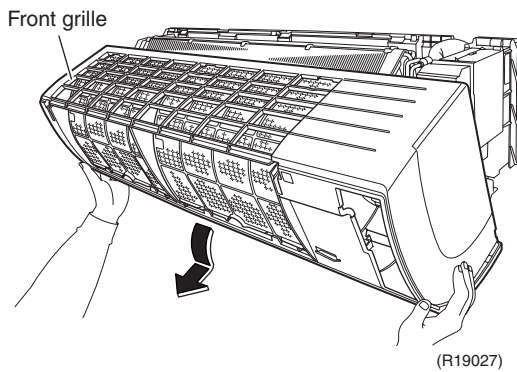
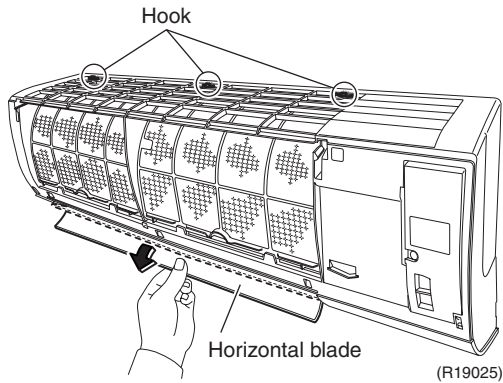
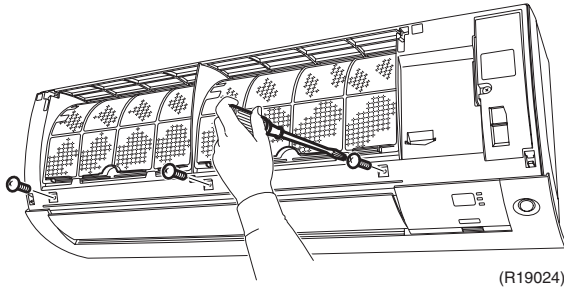
3. Front Grille



Warning

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Step	Procedure	Points
1	Remove the 3 screws.	
2	Open the horizontal blade and unfasten the 3 hooks at the top.	<ul style="list-style-type: none"> ■ The convex marks (...) on the front panel indicate the position of the hooks.
3	Pull out the upper part of the front grille and lift up the lower part, and then remove the front grille.	<ul style="list-style-type: none"> ■ When reassembling, make sure that the 3 hooks are fastened as they were.

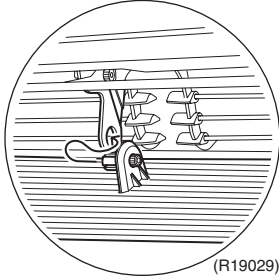
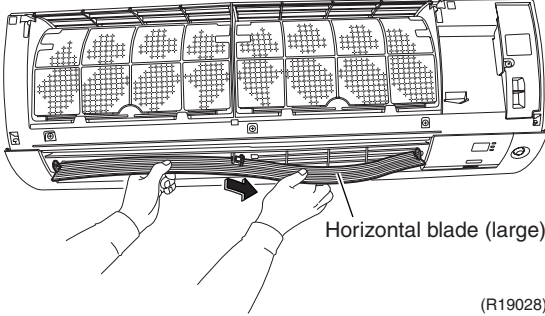
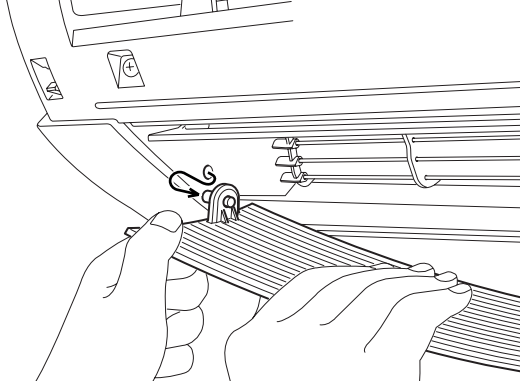
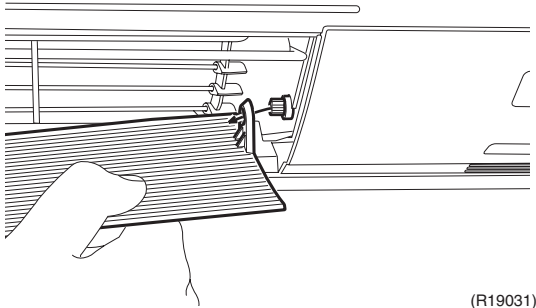


4. Horizontal Blades



Warning

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

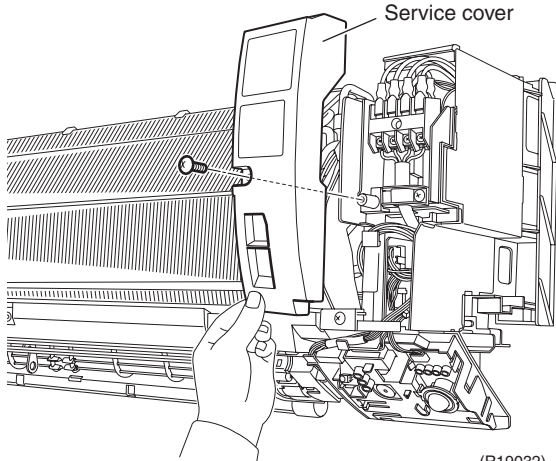
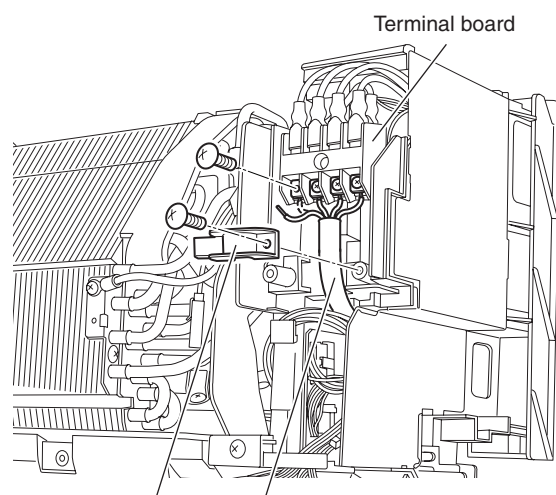
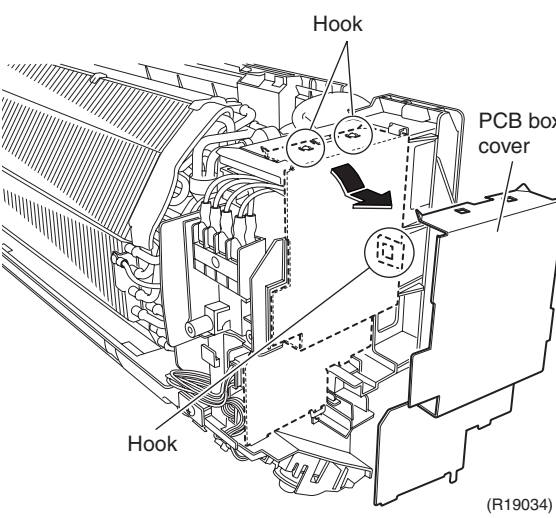
Step	Procedure	Points
1	Open the horizontal blade.	<ul style="list-style-type: none"> ■ The center shaft can be released easily by bending the blade.
2	Unfasten the center shaft while bending the horizontal blade (large) slightly.	 <p>(R19029)</p>
3	Unfasten the left shaft.	 <p>Horizontal blade (large)</p> <p>(R19028)</p>  <p>(R19030)</p>
4	Unfasten the right shaft and remove the horizontal blade (large).	<ul style="list-style-type: none"> ■ Installation procedure 1. Since the key pattern hook is provided, rotate the blade and fit it to the right shaft first. 2. Fit the blade to the center and left shafts.
5	Remove the horizontal blade (small) in the same way.	<ul style="list-style-type: none"> ■ When reassembling, mount the large horizontal blade to the upper position and the small horizontal blade to the lower position. Do not put them in the wrong place.
	 <p>(R19031)</p>	

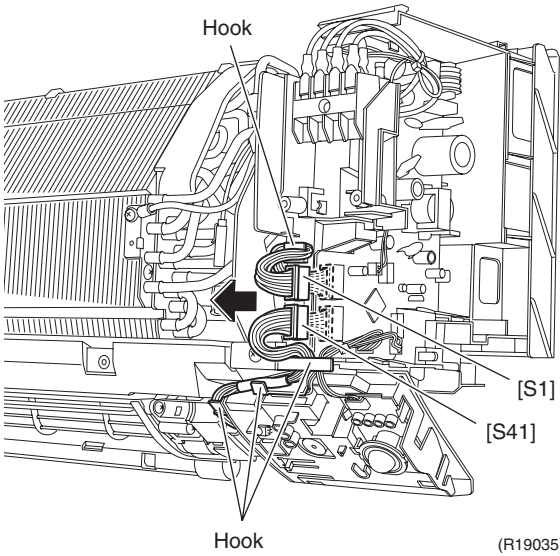
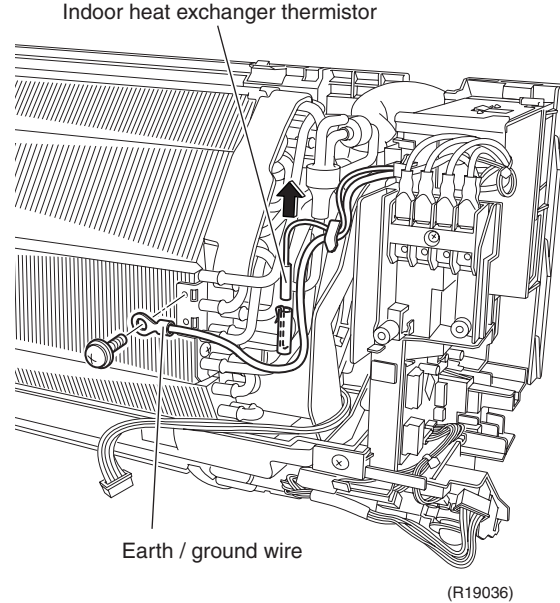
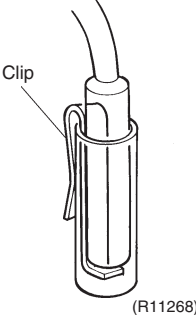
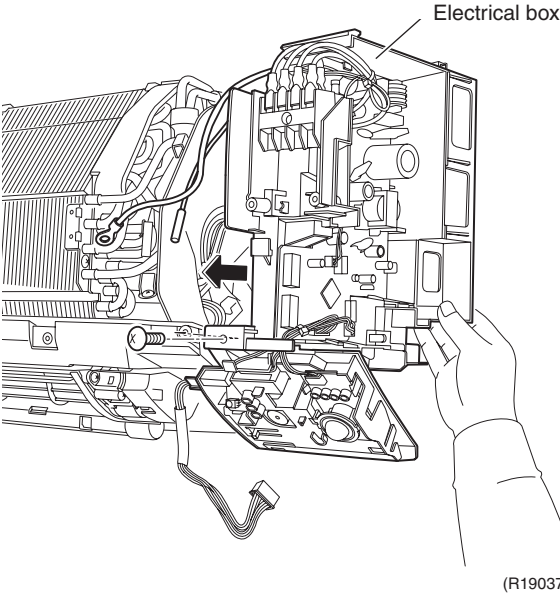
5. Electrical Box



Warning

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Step	Procedure	Procedure	Points
1	Remove the screw and remove the service cover.	 <p style="text-align: right;">(R19032)</p>	
2	Remove the screw and remove the wire fixture.	 <p style="text-align: right;">(R19033)</p>	
3	Remove the 4 screws of the terminal board and disconnect the connecting wires.	 <p style="text-align: right;">(R19034)</p>	

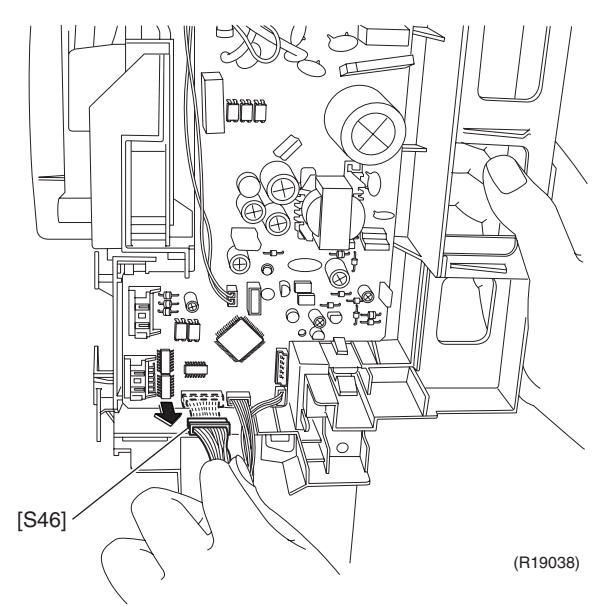
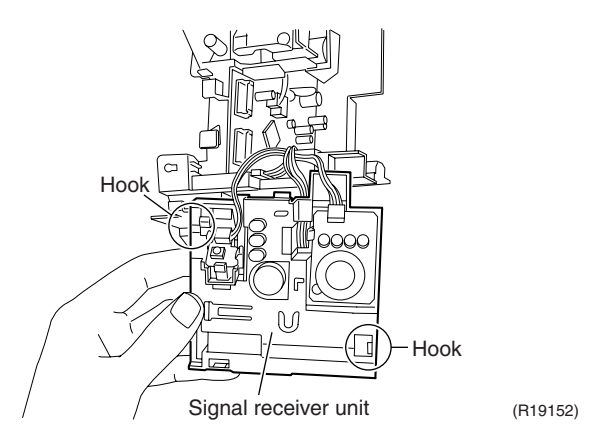
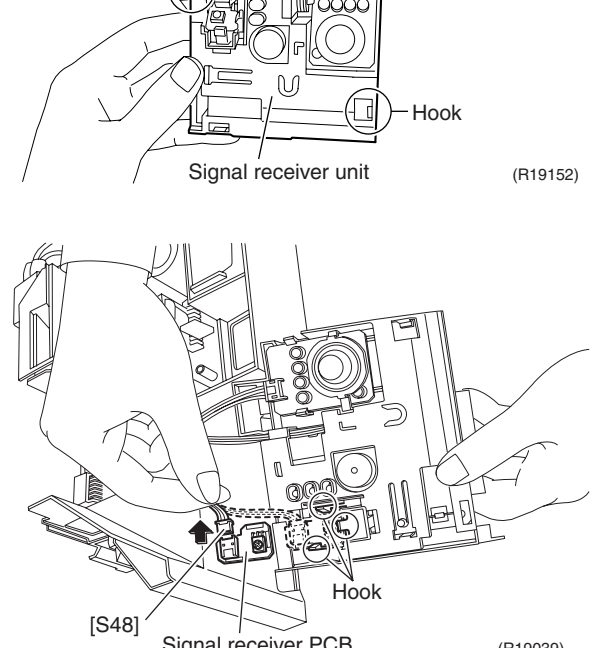
Step	Procedure	Points
5	Disconnect the connectors [S1] [S41].	[S1]: fan motor [S41]: swing motors
6	Release the harnesses for the fan motor and swing motors from the hooks.	 <p>Hook</p> <p>[S1]</p> <p>[S41]</p> <p>Hook</p> <p>(R19035)</p>
7	Remove the screw and detach the earth / ground wire.	■ Be careful not to lose the clip of the thermistor.
8	Pull out the indoor heat exchanger thermistor.	 <p>Indoor heat exchanger thermistor</p> <p>Earth / ground wire</p> <p>(R19036)</p>
9	Remove the screw of the electrical box.	 <p>Clip</p> <p>(R11268)</p>
10	Lift up the electrical box and pull it out.	■ Unfasten the hook at the back.
	 <p>Electrical box</p> <p>(R19037)</p>	

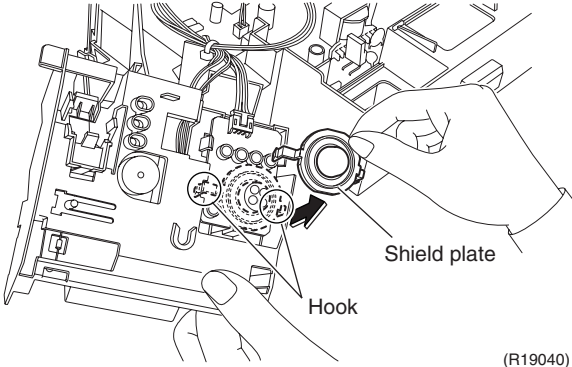
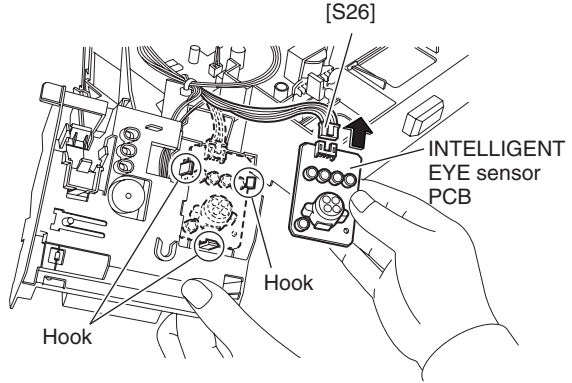
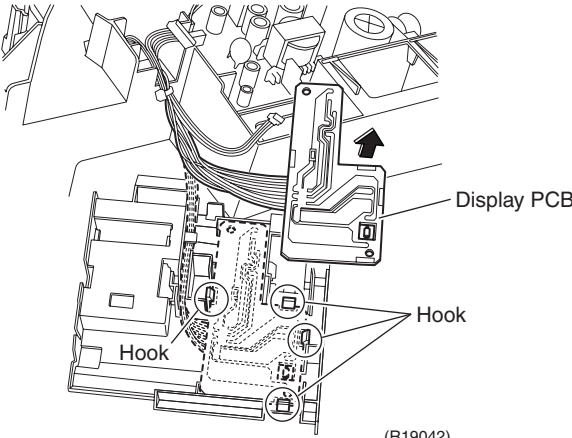
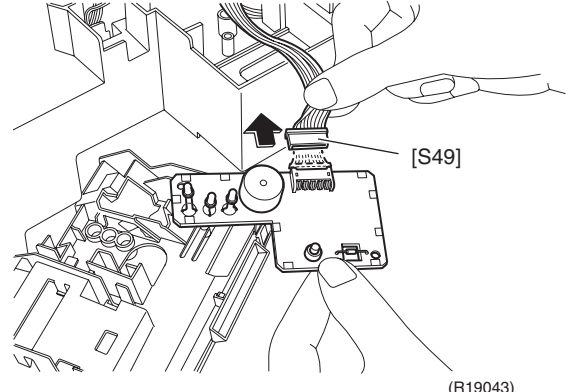
6. PCBs



Warning

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Step	Procedure	Points
1. Remove the signal receiver PCB.		[S46]: display PCB
1 Disconnect the connector [S46].		
2 Unfasten the 2 hooks and remove the signal receiver unit.		
1		
2		
3 Unfasten the 3 hooks and remove the signal receiver PCB.		
3		
4 Disconnect the connector [S48].		[S48]: control PCB
4		

Step	Procedure	Points
<p>2. Remove the INTELLIGENT EYE sensor PCB.</p> <p>1 Unfasten the 2 hooks and remove the shield plate.</p> <p>2 Unfasten the 3 hooks and remove the INTELLIGENT EYE sensor PCB.</p> <p>3 Disconnect the connector [S26].</p>	 <p>(R19040)</p>  <p>(R19041)</p>	<p>[S26]: control PCB</p>
<p>3. Remove the display PCB.</p> <p>1 Turn over the signal receiver unit.</p> <p>2 Unfasten the 4 hooks and remove the display PCB.</p> <p>3 Disconnect the connector [S49].</p>	 <p>(R19042)</p>  <p>(R19043)</p>	<p>[S49]: control PCB</p>

Step	Procedure	Points
<p>4. Remove the control PCB.</p> <p>1 Disconnect all the terminals from the terminal board.</p> <p>2 Unfasten the 2 lower hooks of the control PCB.</p> <p>3 Lift up the bottom of the control PCB and pull it out.</p>	<p>Terminal board</p> <p>Hook</p> <p>Control PCB</p> <p>(R19044)</p> <p>(R19171)</p> <p>(R8098)</p>	<p>1: black (front) 2: white (front) 3: red (front) ↓ : green (front) green/yellow (back)</p> <p>■ The control PCB is also fixed by 2 upper hooks. When reassembling, be sure to fit all the 4 hooks.</p>

7. Swing Motors



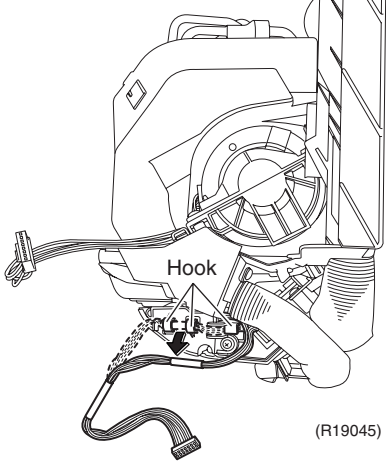
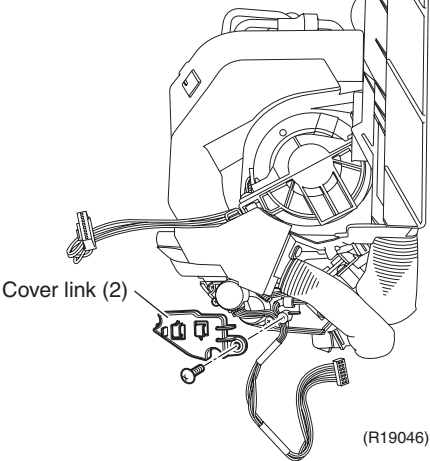
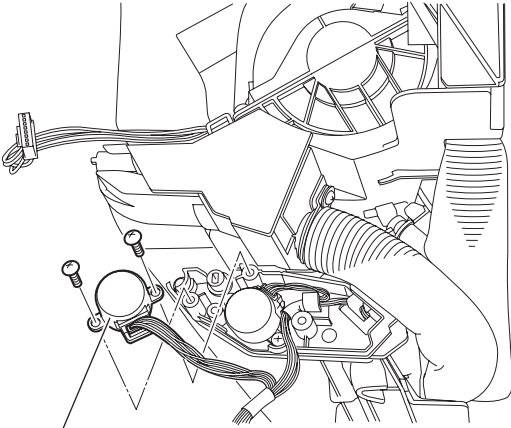
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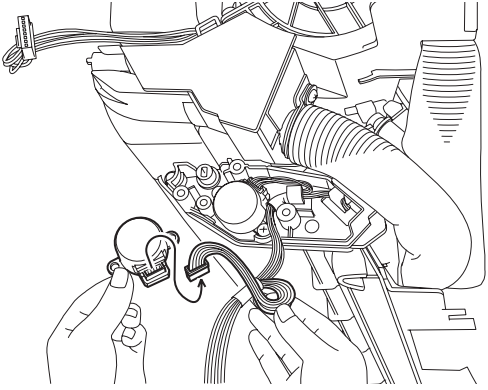
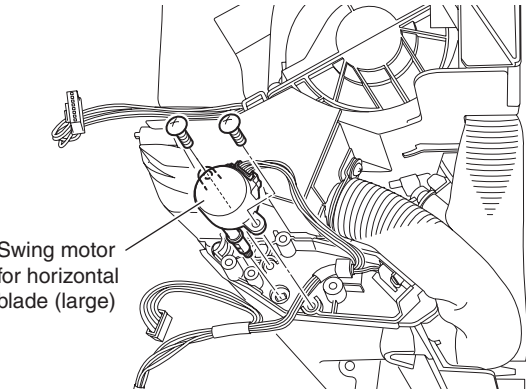
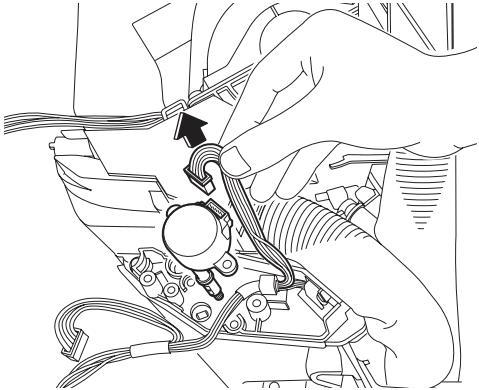
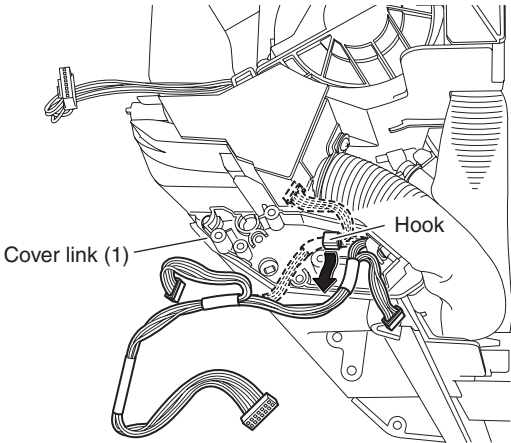
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

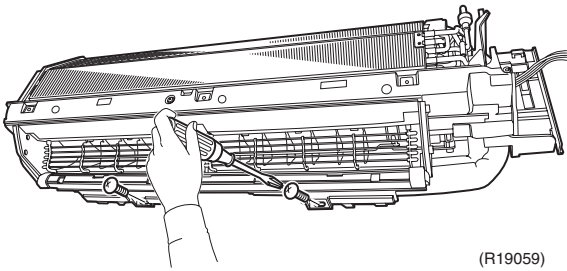
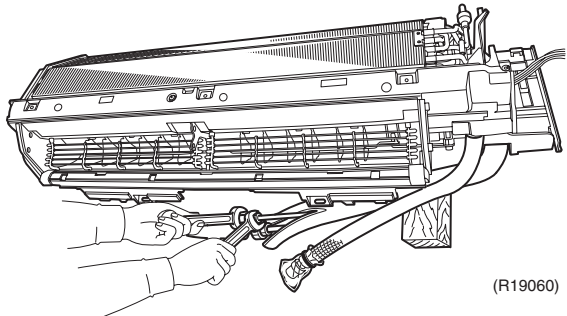
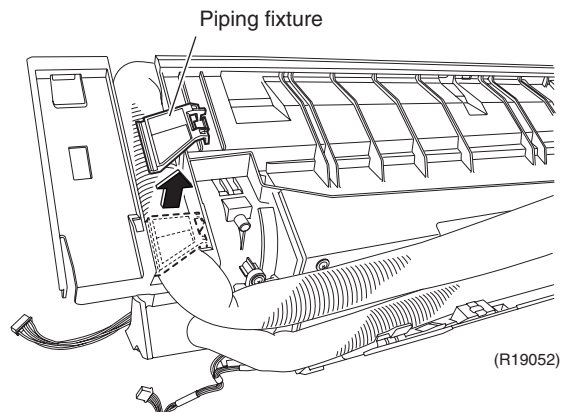
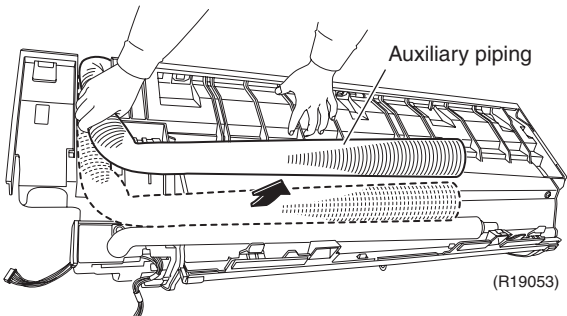


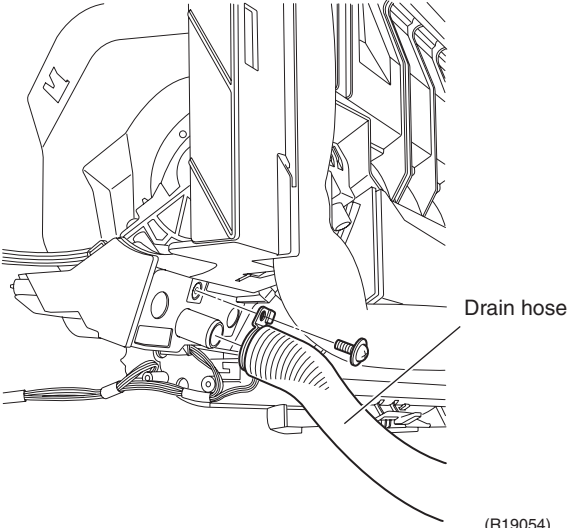
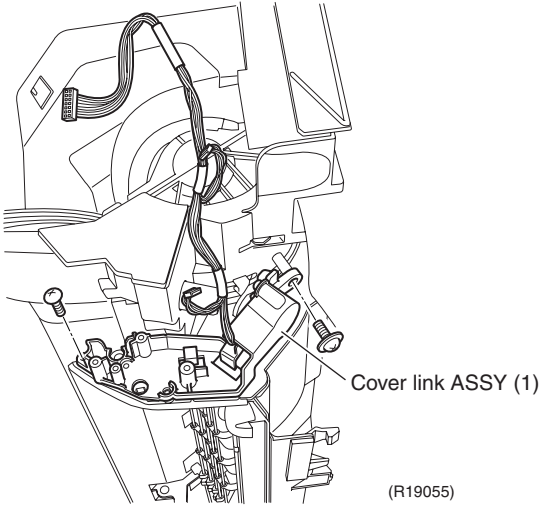
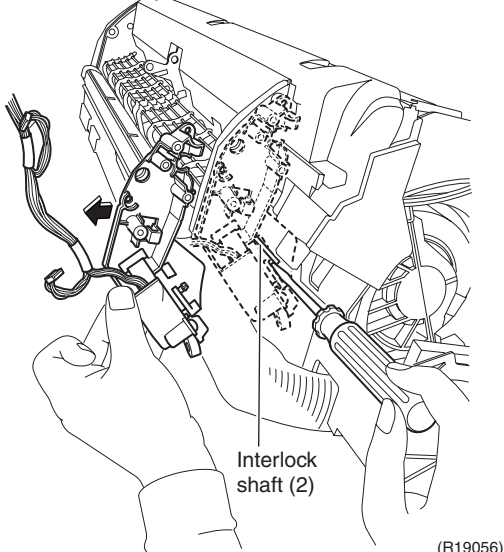
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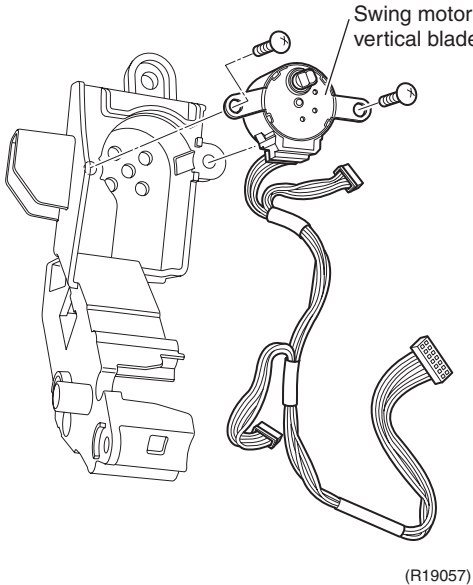
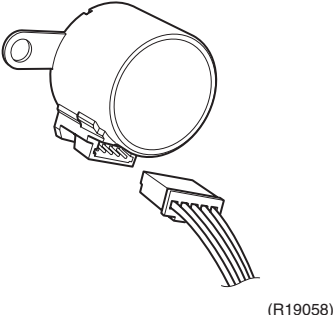
- ◆ When reassembling, do not confuse the installing order of the 2 motors for horizontal blades and the colors of the connectors. If you set the connectors or motors opposite, the horizontal blades do not move smoothly or noise may be heard.

Step	Procedure	Points
1.	Remove the swing motor for horizontal blades.	
1	Release the harness for the swing motors from the 3 hooks.	 <p style="text-align: center;">(R19045)</p>
2	Remove the screw and remove the cover link (2).	 <p style="text-align: center;">(R19046)</p>
3	Remove the 2 screws and remove the swing motor for horizontal blade (small).	 <p style="text-align: center;">(R19047)</p>

Step	Procedure	Procedure	Points
4	Disconnect the connector (green) from the swing motor.	 <p style="text-align: right;">(R19048)</p>	
5	Remove the 2 screws and remove the swing motor for horizontal blade (large).	 <p style="text-align: right;">(R19049)</p>	
6	Disconnect the connector (red) from the swing motor.	 <p style="text-align: right;">(R19050)</p>	<ul style="list-style-type: none"> ■ When reassembling, mount the swing motor for horizontal blade (large) first. (connector: red) Next, mount the swing motor for horizontal blade (small). (connector: green)
7	Release the swing motor harness from the hook of the cover link (1).	 <p style="text-align: right;">(R19051)</p>	

Step	Procedure	Points
2. Remove the swing motor for vertical blade ASSY.		
1 Remove the 2 screws which fix the indoor unit to the installation plate.	 <p>(R19059)</p>	<ul style="list-style-type: none"> ■ Place a plastic sheet under the drain pan to prevent from wetting the floor with remaining drain. ■ If the drain hose is embedded in the wall, disconnect the drain hose beforehand.
2 Disconnect the gas piping and the liquid piping.		
3 Detach the indoor unit from the installation plate.	 <p>(R19060)</p>	<ul style="list-style-type: none"> ■ Carry out the removal work with 2 wrenches. ■ When the pipings are disconnected, protect both the openings of pipe and unit from entering moisture.
4 Unfasten the hook and remove the piping fixture on the back of the indoor unit.	 <p>Piping fixture</p> <p>(R19052)</p>	
5 Slightly widen the auxiliary piping.	 <p>Auxiliary piping</p> <p>(R19053)</p>	

Step	Procedure	Points
6	<p>Remove the screw behind the drain hose, and disconnect the drain hose.</p>  <p>Drain hose</p> <p>(R19054)</p>	
7	<p>Remove the 2 screws at the rear and on the side of the cover link ASSY (1).</p>  <p>Cover link ASSY (1)</p> <p>(R19055)</p>	
8	<p>Detach the interlock shaft (2) with a flat screwdriver, and then detach the cover link ASSY (1).</p>  <p>Interlock shaft (2)</p> <p>(R19056)</p>	

Step	Procedure	Points
9	<p>Remove the 2 screws and remove the swing motor for vertical blade ASSY.</p> 	
10	<p>Disconnect the connector (white) from the swing motor.</p> 	

8. Indoor Heat Exchanger



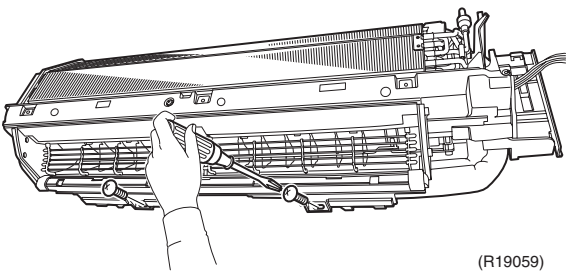
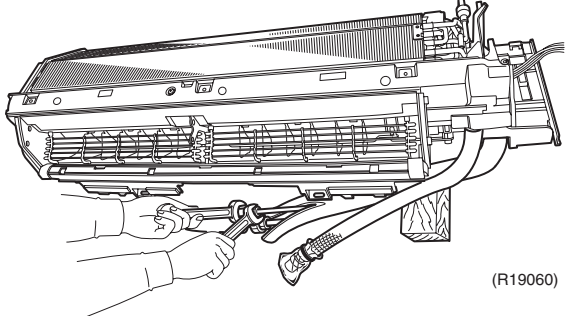
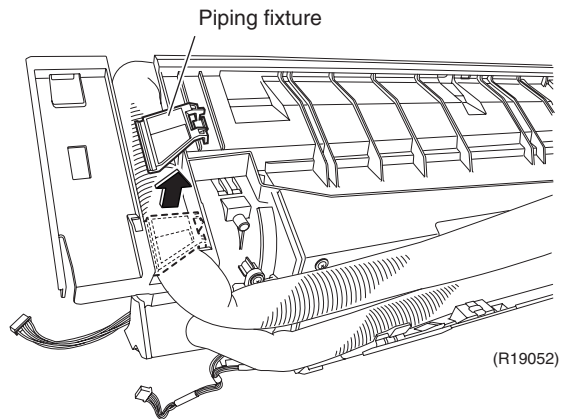
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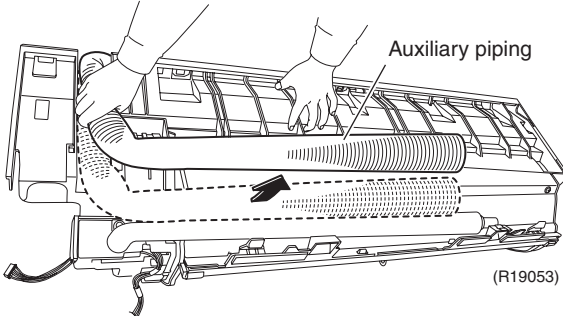
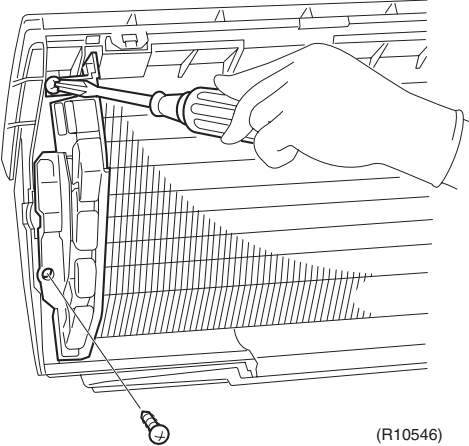
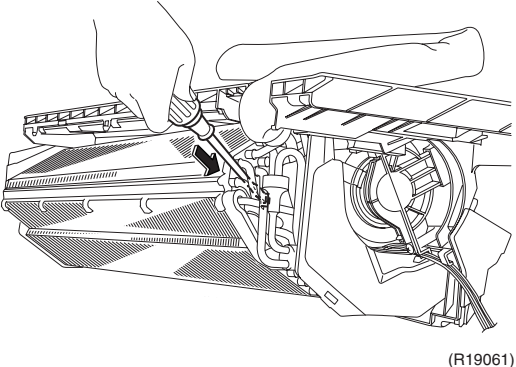
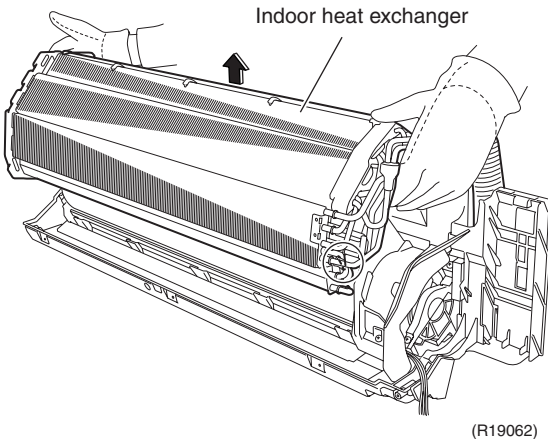
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.
- ◆ In pump-down work, be sure to stop the compressor before disconnecting the refrigerant pipe. If the refrigerant pipe is disconnected with the compressor operating and the stop valve open, air 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	Remove the 2 screws which fix the indoor unit to the installation plate.	 <p>(R19059)</p>	<ul style="list-style-type: none"> ■ Place a plastic sheet under the drain pan to prevent from wetting the floor with remaining drain.
2	Disconnect the gas piping and the liquid piping.	 <p>(R19060)</p>	<ul style="list-style-type: none"> ■ If the drain hose is embedded in the wall, disconnect the drain hose beforehand. ■ Carry out the removal work with 2 wrenches. ■ When the pipings are disconnected, protect both the openings of pipe and unit from entering moisture.
3	Detach the indoor unit from the installation plate.	 <p>(R19052)</p>	
4	Unfasten the hook and remove the piping fixture on the back of the indoor unit.		

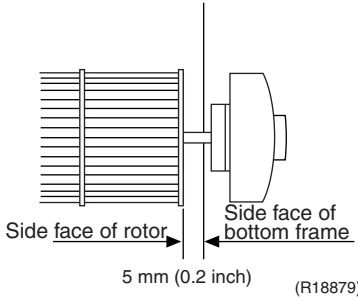
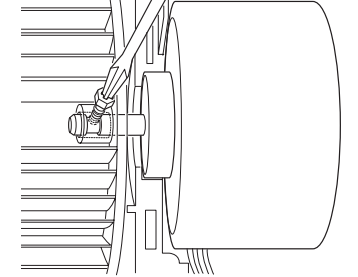
Step	Procedure	Points
5	Slightly widen the auxiliary piping.	
	 <p style="text-align: right;">(R19053)</p>	
6	Remove the 2 screws on the left side.	
	 <p style="text-align: right;">(R10546)</p>	
7	Unfasten the upper hook on the right side with a flat screwdriver.	
	 <p style="text-align: right;">(R19061)</p>	
8	After unfastening the lower hooks, lift up the indoor heat exchanger by its right side.	
9	Remove the indoor heat exchanger.	
	 <p style="text-align: right;">(R19062)</p>	<p>■ When reassembling the indoor heat exchanger, make sure that the right hooks (upper and lower) are fastened.</p>

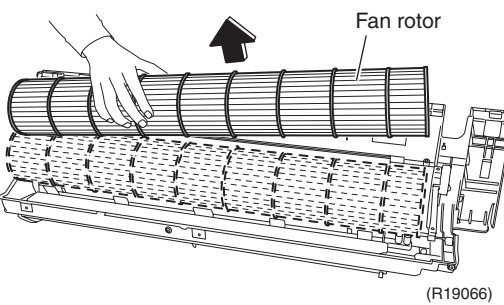
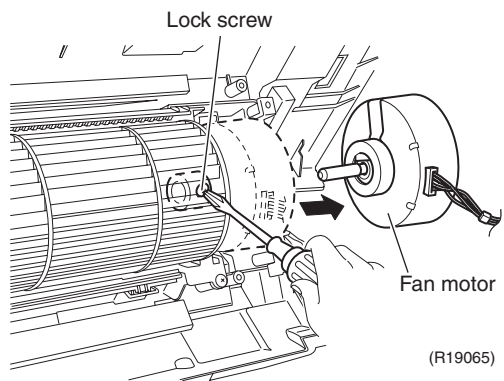
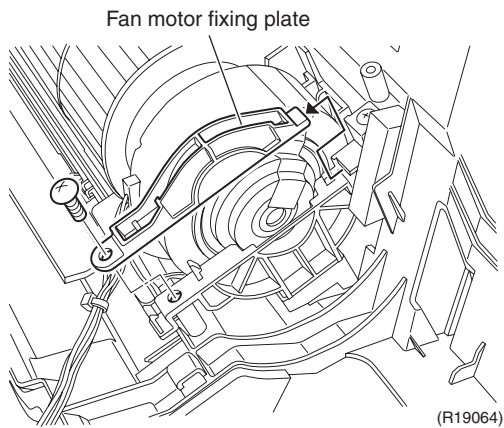
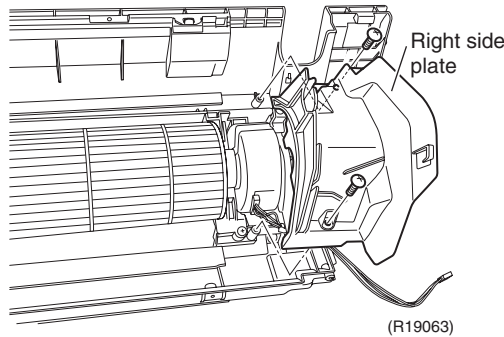
9. Fan Motor / Fan Rotor



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 and remove the right side plate.	
2	Remove the screw and remove the fan motor fixing plate.	<p>■ 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.</p>
3	Loosen the lock screw and remove the fan motor.	 <p>Side face of rotor</p> <p>Side face of bottom frame</p> <p>5 mm (0.2 inch)</p> <p>(R18879)</p>
4	Remove the fan rotor.	 <p>(R9582)</p> <ol style="list-style-type: none"> (1) Insert the fan motor with approx. 5 mm (0.2 inch) left. (2) Tighten the screw until it stops. Then give the screw one more turn. (3) Rotate the fan rotor and confirm the fan motor and the fan rotor are installed appropriately. (4) Tighten the screw completely if appropriate. (5) If not appropriate, go back to (1).



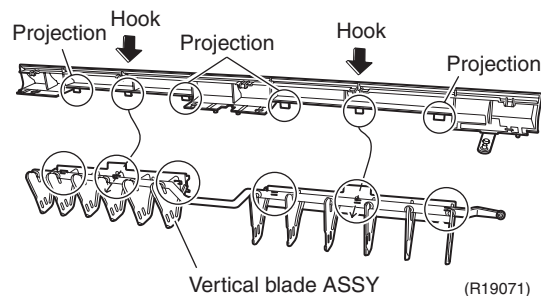
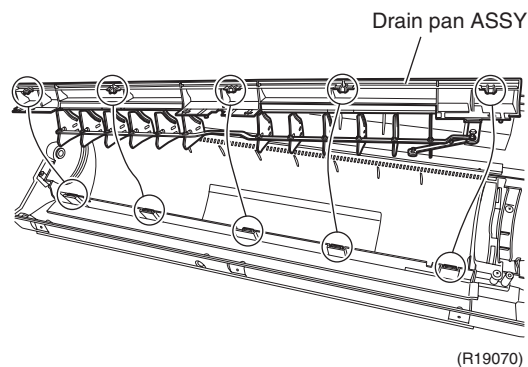
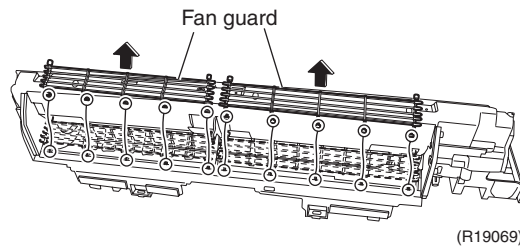
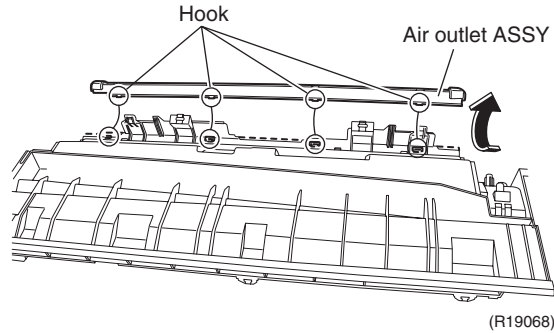
10. Vertical Blade ASSY



Warning

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

Step	Procedure	Points
1	Turn over the indoor unit and unfasten the 4 hooks, then remove the air outlet ASSY.	<ul style="list-style-type: none"> ■ When reassembling, make sure that the 4 hooks are fastened.
2	Unfasten the 5 hooks on the fan guard and remove it.	
3	Remove the other fan guard in the same way.	
4	Unfasten the 5 hooks and remove the drain pan ASSY.	
5	Unfasten the 2 hooks and remove the vertical blade ASSY.	<ul style="list-style-type: none"> ■ When reassembling, make sure that the 2 hooks are fastened and 4 projections are fitted to the holes.



Revision History

Month / Year	Version	Revised contents
06 / 2013	Si041259E	First edition
04 / 2015	Si041259EA	Model addition: FTXM35/42/50K3V1B

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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