






Si041401EB

REMOVAL PROCEDURE



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

2.0/2.5/3.5/4.1/4.2/5.0 kW Class
9000/12000/18000 Btu/h Class

-  Indoor Unit
-  Inverter
-  Wall Mounted Type



Service Manual

Removal Procedure

Indoor Unit

●Cooling Only

FTKJ09NV1SW
FTKJ09NV1SS
FTKJ12NV1SW
FTKJ12NV1SS
FTKJ18NV1SW
FTKJ18NV1SS

FTKJ25NVMW
FTKJ25NVMS
FTKJ35NVMW
FTKJ35NVMS
FTKJ42NVMW
FTKJ42NVMS
FTKJ50NVMW
FTKJ50NVMS

FTKJ25NVM4W
FTKJ25NVM4S
FTKJ35NVM4W
FTKJ35NVM4S
FTKJ50NVM4W
FTKJ50NVM4S

FTKJ25NVMMW
FTKJ25NVMMS
FTKJ35NVMMW
FTKJ35NVMMS
FTKJ50NVMMW
FTKJ50NVMMS

FTKJ25NVMVW
FTKJ25NVMV
FTKJ35NVMVW
FTKJ35NVMVS
FTKJ50NVMVW
FTKJ50NVMVS

●Heat Pump

CTXG25PVMW
CTXG25PVMAS
CTXG35PVMW
CTXG35PVMAS
CTXG50PVMW
CTXG50PVMAS

CTXG09QVJUW
CTXG09QVJUS
CTXG12QVJUW
CTXG12QVJUS
CTXG18QVJUW
CTXG18QVJUS

FTXG20LV1BW
FTXG20LV1BS
FTXG25LV1BW
FTXG25LV1BS
FTXG35LV1BW
FTXG35LV1BS
FTXG50LV1BW
FTXG50LV1BS

FTXJ20LV1BW
FTXJ20LV1BS
FTXJ25LV1BW
FTXJ25LV1BS
FTXJ35LV1BW
FTXJ35LV1BS
FTXJ50LV1BW
FTXJ50LV1BS

FTXJ25NVLTW
FTXJ41NVLTW

FTXJ25NVMVW
FTXJ25NVMVS
FTXJ35NVMVW
FTXJ35NVMVS
FTXJ50NVMVW
FTXJ50NVMVS

FTXJ25PVMW
FTXJ25PVMAS
FTXJ35PVMW
FTXJ35PVMAS
FTXJ50PVMW
FTXJ50PVMAS

Table of Contents

1. Air Filters / Front Panels.....	2
2. Horizontal Blades	5
3. Front Grille	6
4. Front Panel Mechanism ASSYs.....	8
5. Limit Switch / Reduction Motor.....	12
6. Electrical Box	14
7. PCBs	16
8. Swing Motors	19
9. Indoor Heat Exchanger	24
10. Fan Rotor / Fan Motor.....	26
11. Vertical Blade ASSYs.....	28



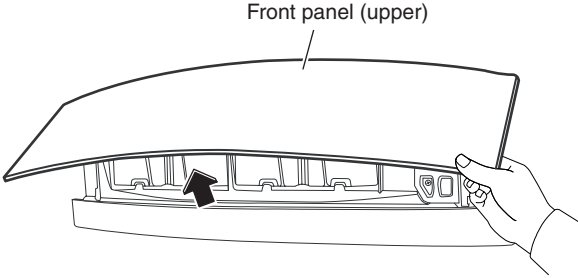
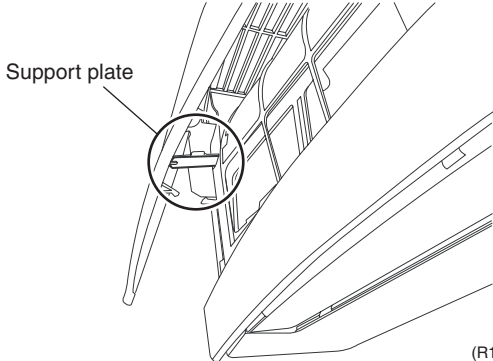
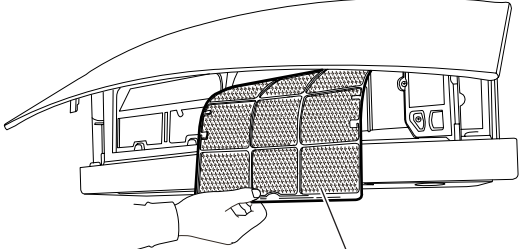
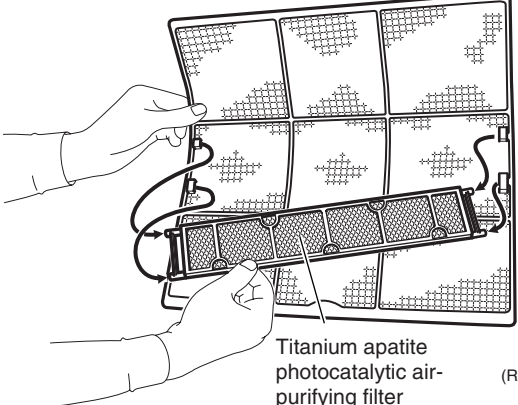
Note: ♦ The illustrations may be slightly different depending on the model.

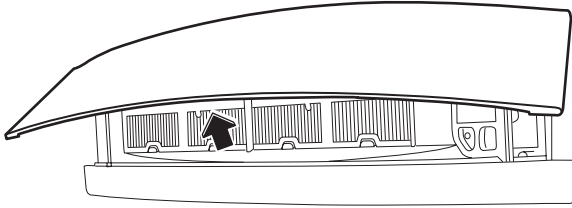
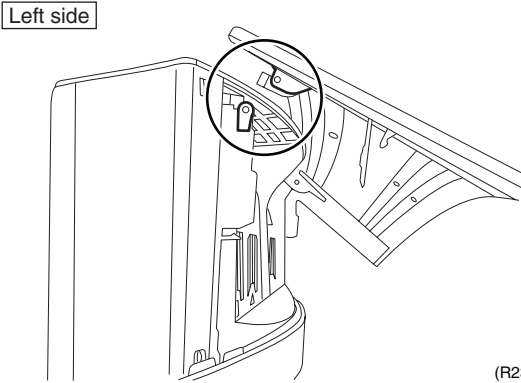
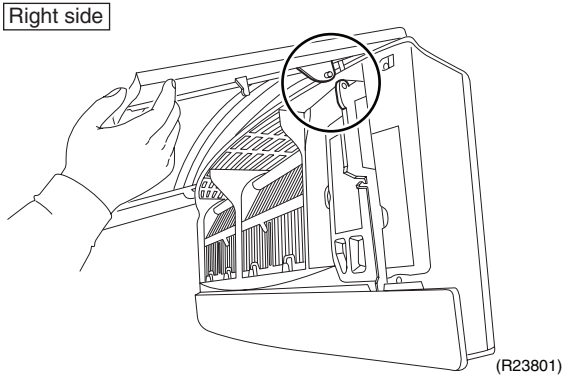
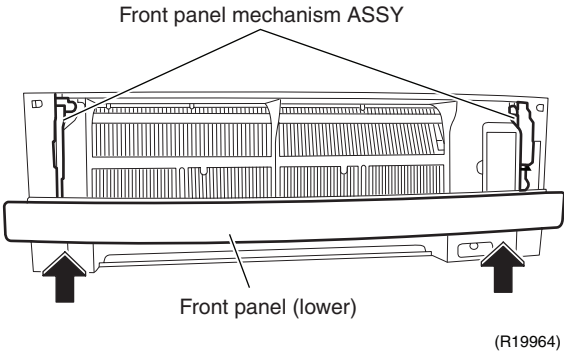
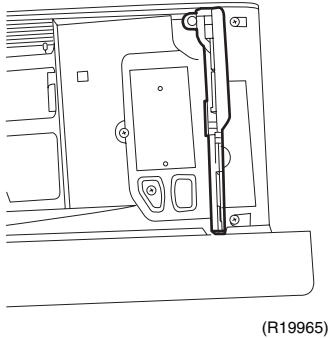
1. Air Filters / Front Panels



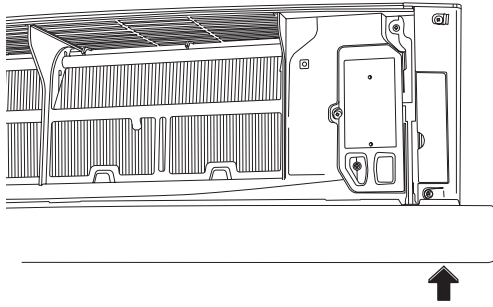
Warning

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

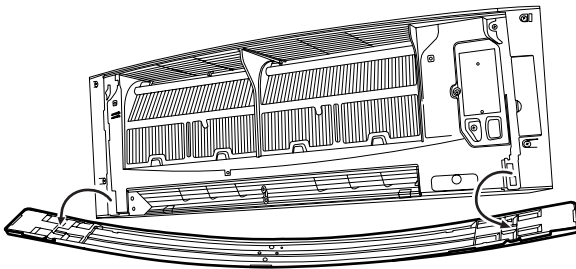
Step	Procedure	Points
<p>1. Remove the air filters.</p> <p>1 Open the front panel (upper).</p> <p>2 Keep the front panel (upper) open with the support plate.</p> <p>3 Remove the air filter.</p>	 <p>(R19958)</p>  <p>(R19959)</p>  <p>(R19960)</p>	<ul style="list-style-type: none"> ■ The air filter is not marked for difference between the right and left sides. ■ When reassembling, insert the air filter along the guides. ■ Be sure to insert the 2 bottom hooks when reassembling the air filter.
<p>2. Remove the Titanium apatite photocatalytic air-purifying filter.</p> <p>1 Remove the Titanium apatite photocatalytic air-purifying filter.</p>	 <p>(R18168)</p>	<ul style="list-style-type: none"> ■ The Titanium apatite photocatalytic air-purifying filter is not marked for difference between the right and left sides.

Step	Procedure	Points
3. Remove the front panels.		
1 Open the front panel (upper).	 <p>(R19961)</p>	
2 Release the front panel (upper) locks on each side.	<p>Left side</p>  <p>(R23800)</p>	
3 Remove the front panel (upper).	<p>Right side</p>  <p>(R23801)</p>	
4 Slide the front panel (lower) upward until it stops.	<p>Front panel mechanism ASSY</p>  <p>Front panel (lower)</p> <p>(R19964)</p>	<p>■ You can slide the front panel (lower) only when the front panel mechanism ASSY is pulled out forward.</p>
		 <p>(R19965)</p>

Step	Procedure	Points
5	<p>Tap the front panel (lower) from below at the bottom of each side and remove the front panel (lower).</p>	



(R19966)



(R19967)

2. Horizontal Blades



Warning

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

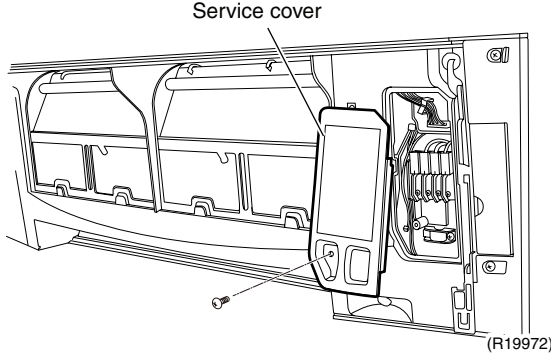
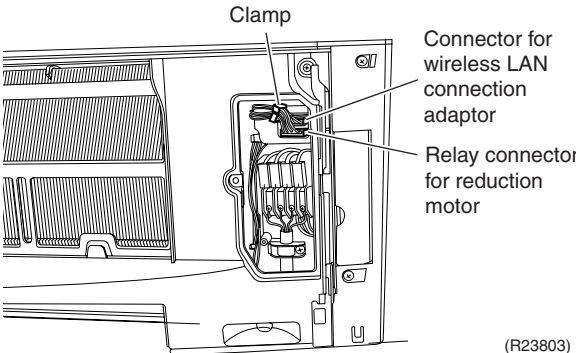
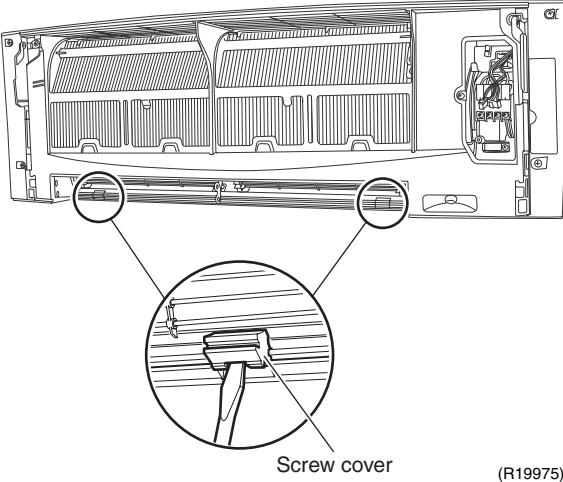
Step	Procedure	Points
1	Open the front panel (upper).	<p>■ You can remove the horizontal blades without removing front panel (upper) and front panel (lower).</p>
2	Slide the front panel (lower) upward until it stops.	
3	Bend the horizontal blade (large) slightly and release the center shaft.	
4	Release the left shaft.	
5	Slide the horizontal blade (large) to the left to release the right shaft and remove it.	
6	Remove the horizontal blade (small) likewise.	
<p style="text-align: right;">(R19968)</p>		
<p style="text-align: right;">(R19969)</p>		
<p style="text-align: right;">(R19970)</p>		
<p style="text-align: right;">(R23802)</p>		

3. Front Grille

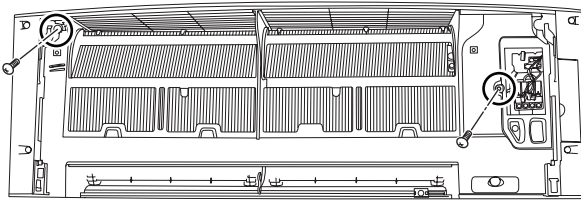


Warning

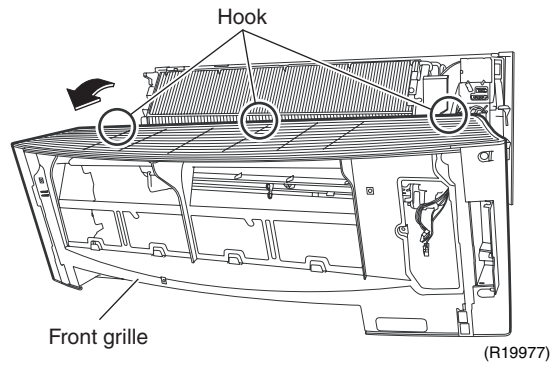
♦ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1	Remove the screw, and then the service cover.	 <p>Service cover</p> <p>(R19972)</p>
2	Disconnect the relay connector for reduction motor and the connector for wireless LAN connection adaptor.	 <p>Clamp</p> <p>Connector for wireless LAN connection adaptor</p> <p>Relay connector for reduction motor</p> <p>(R23803)</p>
3	Release the harnesses from the clamp.	
4	Remove the 2 screw covers using a flat screwdriver, and then the 2 screws.	 <p>Screw cover</p> <p>(R19975)</p>

Step	Procedure	Points
5	Remove the 2 screws.	
6	Unfasten the 3 hooks and remove the front grille.	



(R19976)



(R19977)

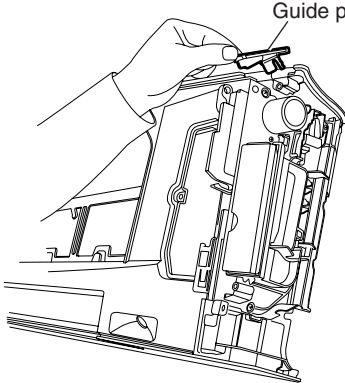
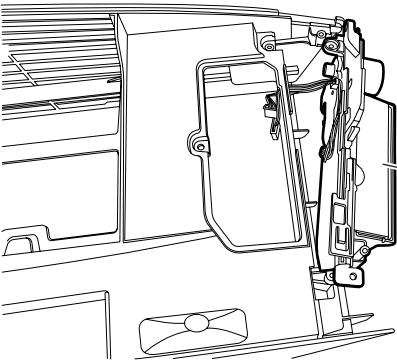
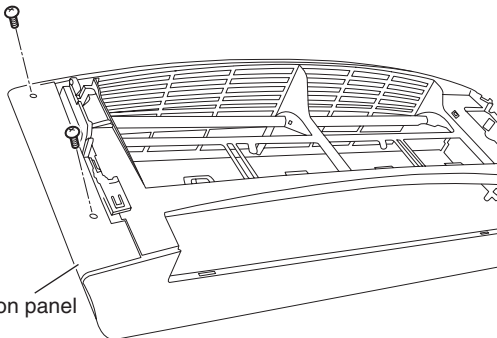
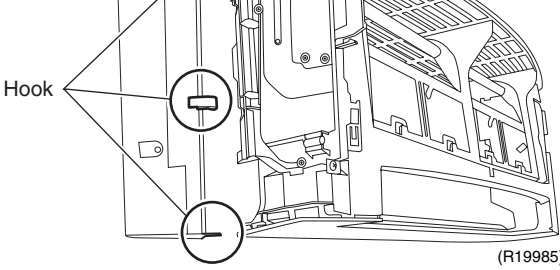
4. Front Panel Mechanism ASSYs



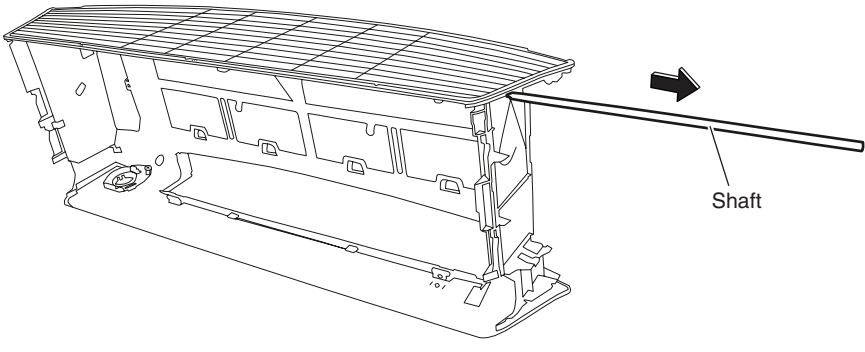
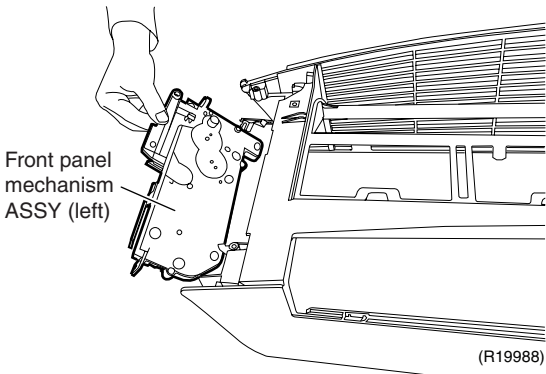
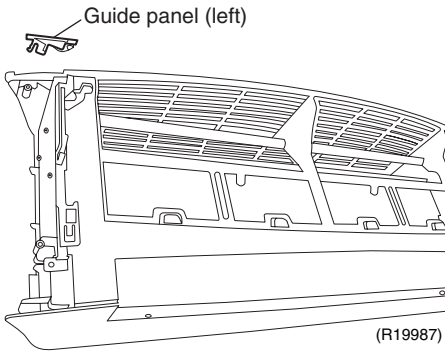
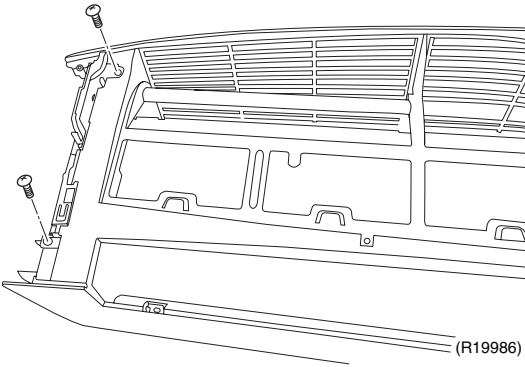
Warning

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

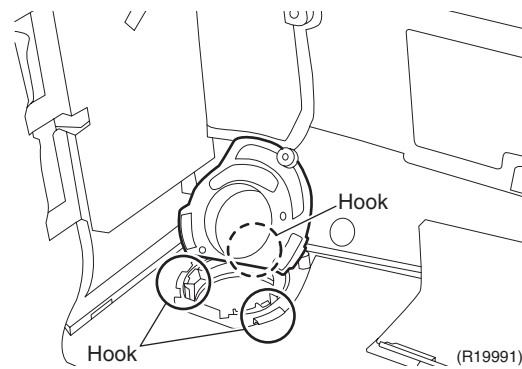
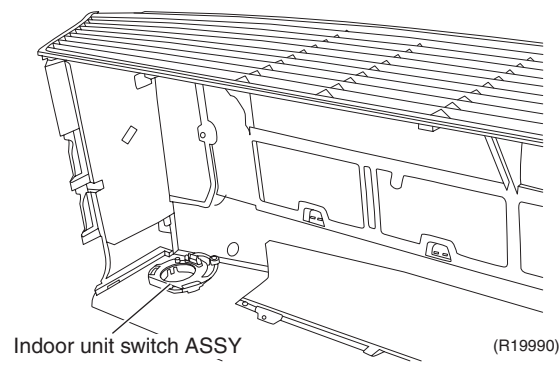
Step	Procedure	Points
1	Remove the 2 screws on the decoration panel (right).	
	<p style="text-align: right;">Decoration panel (right) (R19978)</p>	
2	Pull out (forward) the front panel mechanism ASSY on both the right and left sides.	
	<p style="text-align: center;">Front panel mechanism ASSY (R19979)</p>	
3	Open the decoration panel (right).	
4	Unfasten the 3 hooks and remove the decoration panel (right).	
	<p style="text-align: right;">Hook (R19980)</p>	
5	Remove the 2 screws on the front panel mechanism ASSY (right).	
	<p style="text-align: right;">(R19981)</p>	

Step	Procedure	Procedure	Points
6	Remove the guide panel (right).	 <p style="text-align: right;">(R19982)</p>	
7	Remove the front panel mechanism ASSY (right).	 <p style="text-align: right;">(R19983)</p>	
8	Remove the 2 screws on the decoration panel (left).	 <p style="text-align: right;">(R19984)</p>	
9	Open the decoration panel (left).		
10	Unfasten the 3 hooks and remove the decoration panel (left).	 <p style="text-align: right;">(R19985)</p>	

Step	Procedure	Points
11	Remove the 2 screws on the front panel mechanism ASSY (left).	
12	Remove the guide panel (left).	
13	Remove the front panel mechanism ASSY (left).	
14	Turn around the front grille and remove the shaft.	



Step	Procedure	Points
15	Rotate the indoor unit switch ASSY to unfasten the 3 hooks.	
16	Remove the indoor unit switch ASSY.	



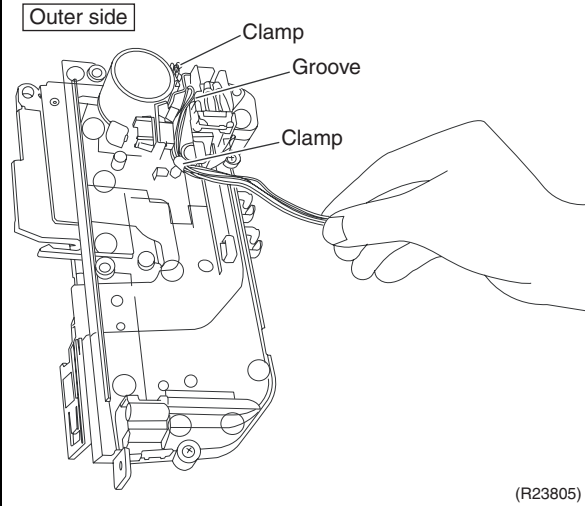
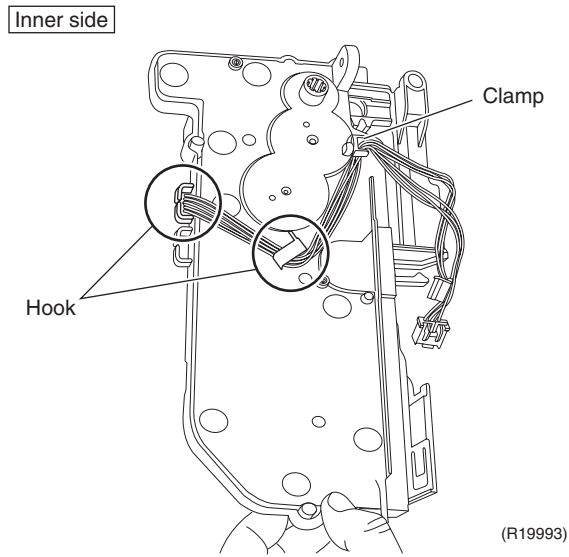
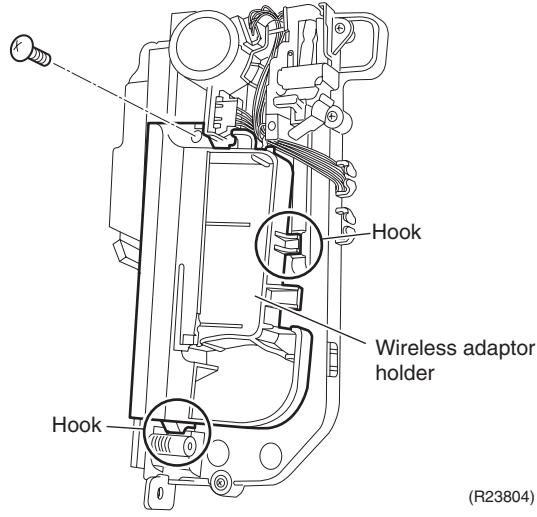
5. Limit Switch / Reduction Motor

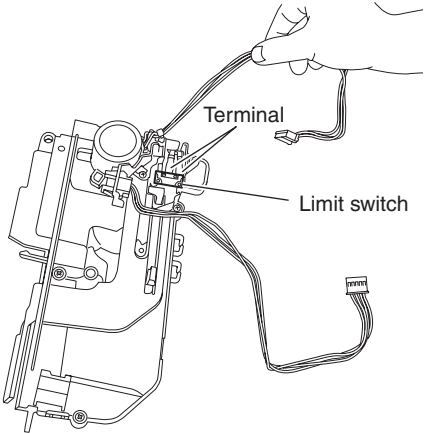
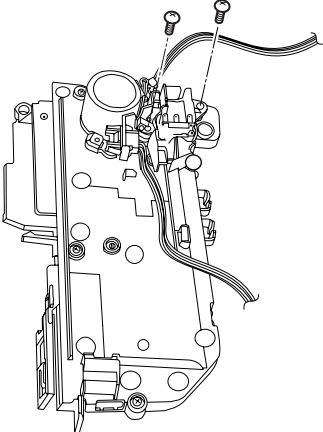
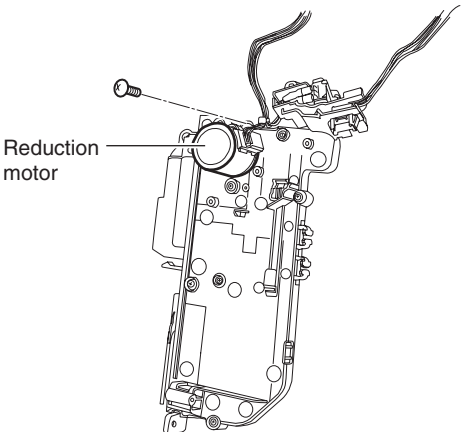


Warning

◆ 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 front panel mechanism ASSY (right).	
2	Unfasten the 2 hooks and remove the wireless adaptor holder.	
3	Cut the clamp of the front panel mechanism ASSY (right).	
4	Release the harnesses from the 2 hooks.	
5	Cut the 2 clamps and release the harnesses from the groove.	



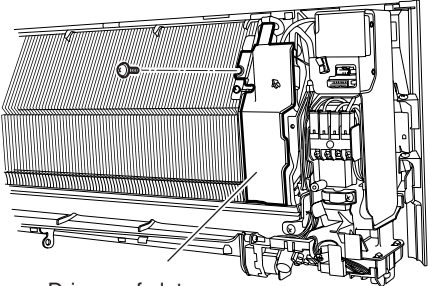

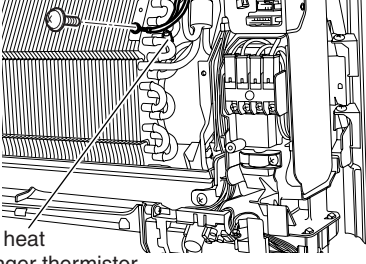
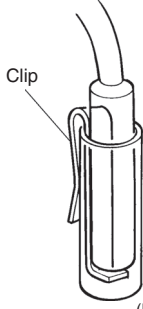
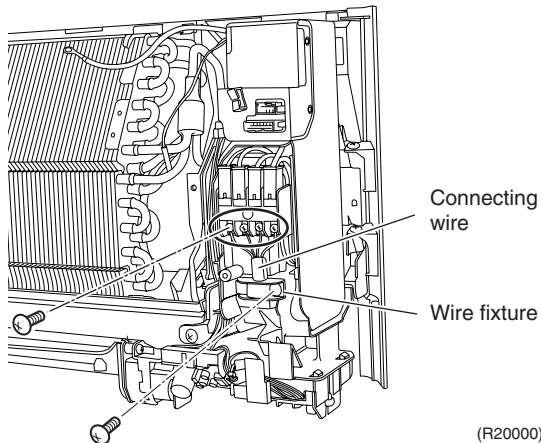
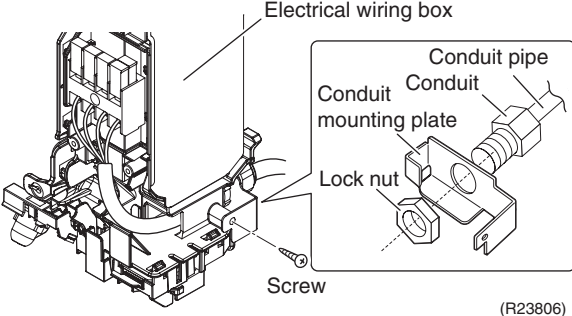
Step	Procedure	Points
6	Pull out the 2 terminals of the limit switch.	
	 <p>(R19994)</p>	
7	Remove the 2 screws, and then the limit switch.	
	 <p>(R19995)</p>	
8	Remove the screw of the reduction motor.	
9	Slightly tilt the reduction motor downward and rotate to the left to remove it.	
	 <p>(R19996)</p>	

6. Electrical Box

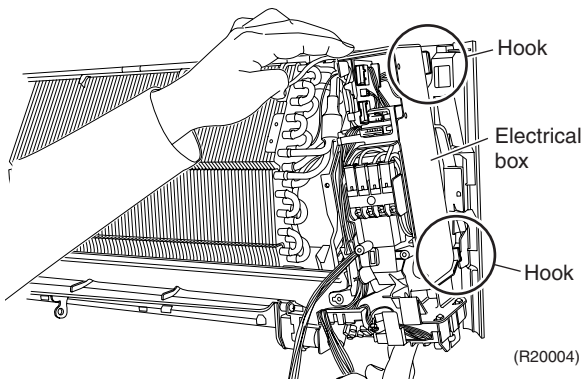
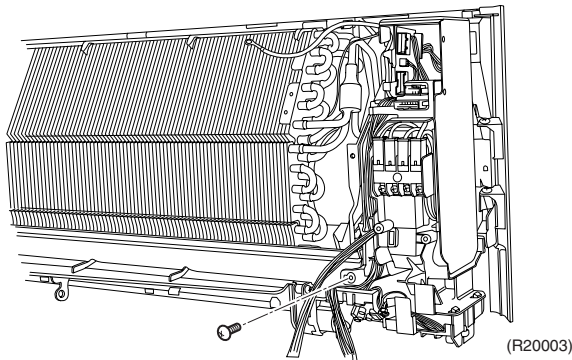
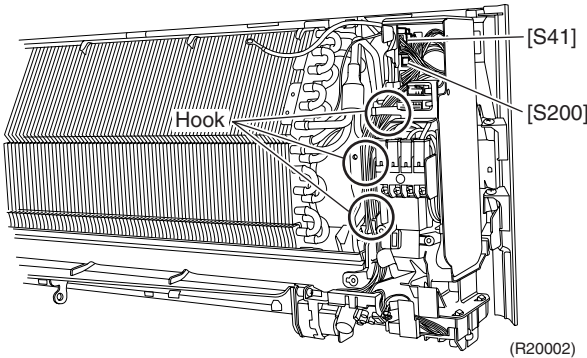
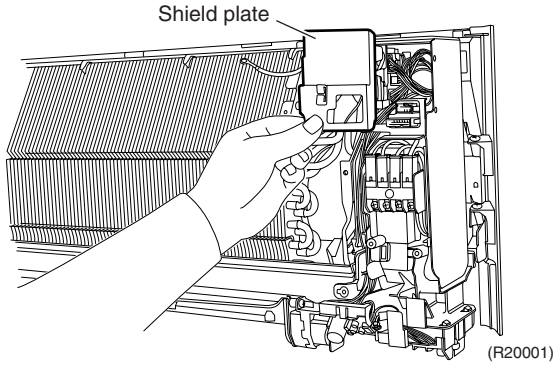


Warning

◆ 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 then the drip proof plate.	 <p>Drip proof plate (R19998)</p>	<ul style="list-style-type: none"> ■ The position of the indoor heat exchanger thermistor varies by model.
2	Remove the screw and release the earth/ground wire.	 <p>Earth/ground wire</p>	<ul style="list-style-type: none"> ■ Be careful not to lose the clip of the thermistor.
3	Pull out the indoor heat exchanger thermistor.	 <p>Indoor heat exchanger thermistor (R19999)</p>	 <p>Clip (R11268)</p>
4	Remove the 4 screws and release the connecting wires.	<p>■ For non-U.S. models</p>  <p>Connecting wire Wire fixture (R20000)</p>	
5	Remove the screw, and then the wire fixture.	<p>■ For U.S. models</p>  <p>Electrical wiring box Conduit pipe Conduit mounting plate Lock nut Screw (R23806)</p>	<p>■ For U.S. models</p> <p>U.S. models do not have the wire fixture. There is a conduit hole on the back of the unit. When reassembling, make sure the connecting wires pass through the conduit hole and the conduit pipe is securely fastened by the lock nut.</p>

Step	Procedure	Points
6	Remove the shield plate.	
7	Disconnect the connectors [S41] and [S200].	[S41]: swing motors [S200]: fan motor
8	Release the harnesses from the 3 hooks.	
9	Remove the screw.	
10	Unfasten the 2 hooks and remove the electrical box.	<p>■ When reassembling, fit the rear side of the electrical box to the 2 hooks on the bottom frame.</p>

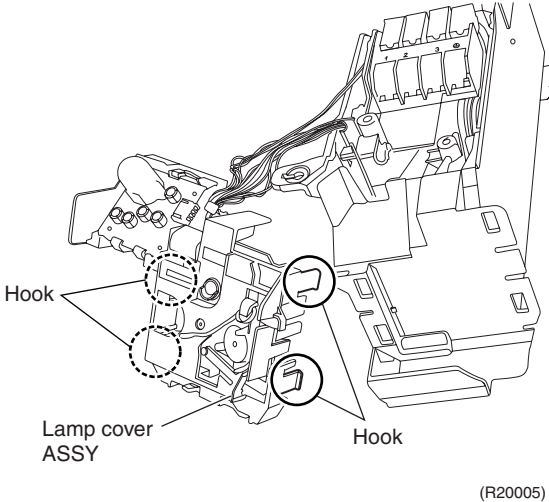
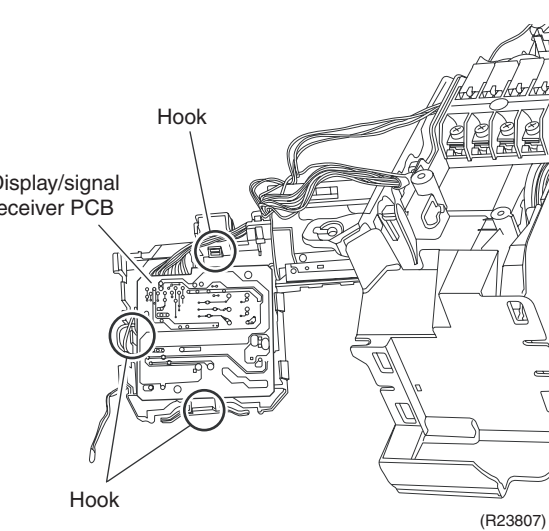
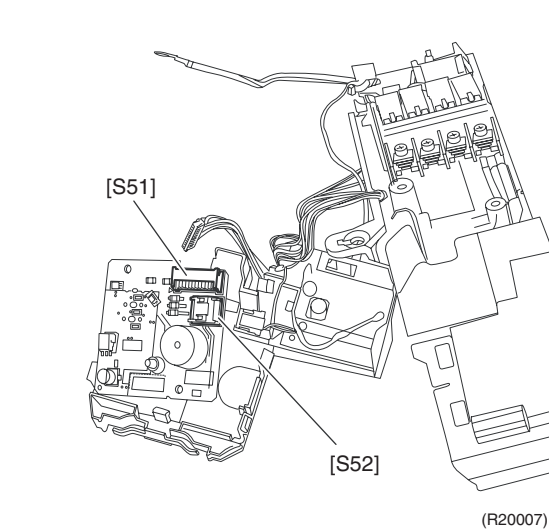


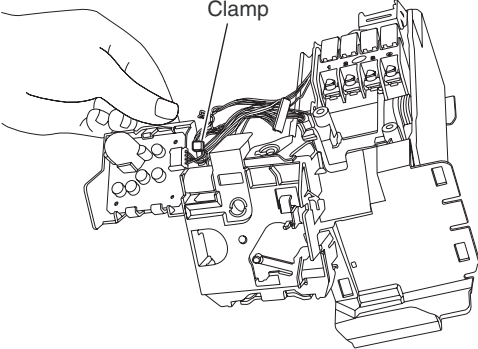
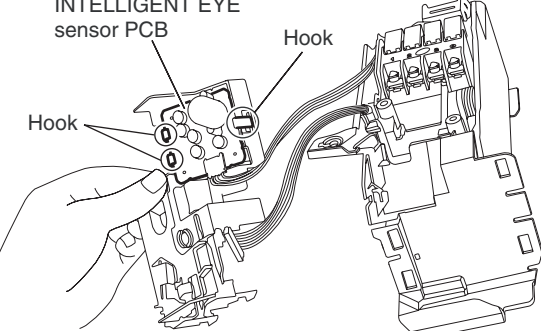
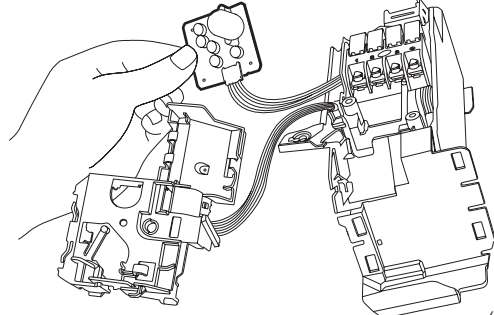
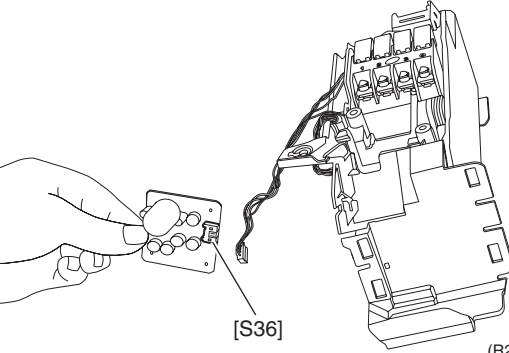
7. PCBs

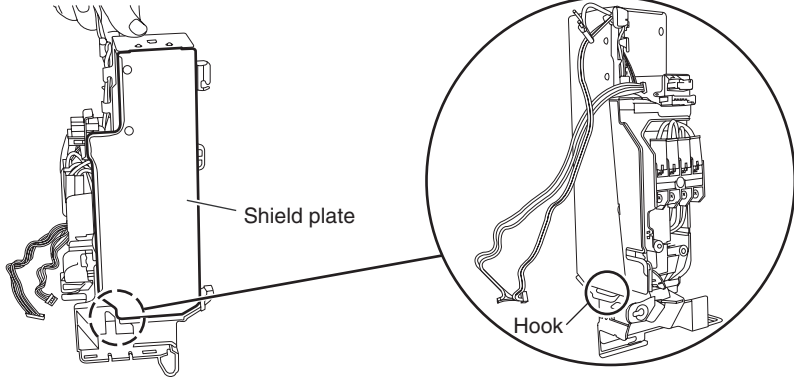
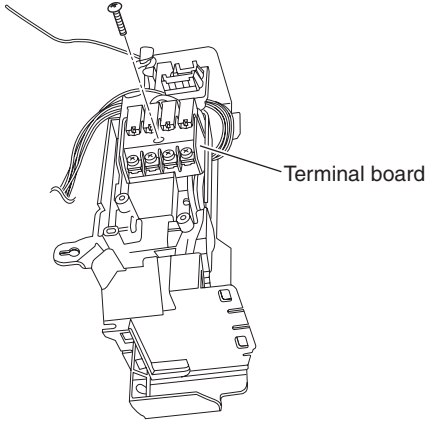
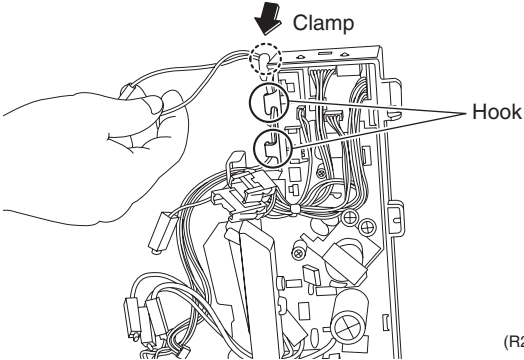
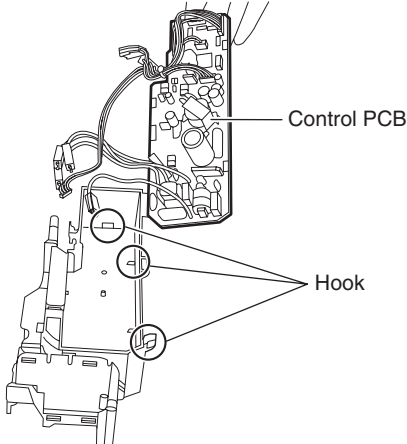


Warning

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

Step	Procedure	Points
1. Remove the display/signal receiver PCB.	 <p>(R20005)</p>	
1 Unfasten the 4 hooks and remove the lamp cover ASSY from the electrical box.	 <p>(R23807)</p>	
2 Unfasten the 3 hooks and remove the display/signal receiver PCB.	 <p>(R20007)</p>	<p>[S51]: control PCB [S52]: room temperature thermistor</p>
3 Disconnect the connectors [S51] and [S52].		

Step	Procedure	Points
2. Remove the INTELLIGENT EYE sensor PCB.	 <p>Clamp</p> <p>(R20008)</p>	
1 Cut the clamp and release the harness.	 <p>INTELLIGENT EYE sensor PCB</p> <p>Hook</p> <p>Hook</p> <p>(R20009)</p>	
2 Unfasten the 3 hooks with a flat screwdriver and remove the INTELLIGENT EYE sensor PCB.	 <p>(R20010)</p>	
3 Disconnect the connector [S36].	 <p>[S36]</p> <p>(R20011)</p>	[S36]: control PCB

Step	Procedure	Points
3. Remove the control PCB.		
1	Unfasten the hook at the back and remove the shield plate.	 <p style="text-align: right;">(R20200)</p>
2	Remove the screw of the terminal board.	
3	Pull out the terminals and remove the terminal board.	
 <p style="text-align: right;">(R20013)</p>		
4	Cut the clamp.	
5	Release the earth/ground wire and indoor heat exchanger thermistor harnesses from the 2 hooks.	
 <p style="text-align: right;">(R20014)</p>		
6	Unfasten the 3 hooks and remove the control PCB.	 <p style="text-align: right;">(R23808)</p>

8. Swing Motors



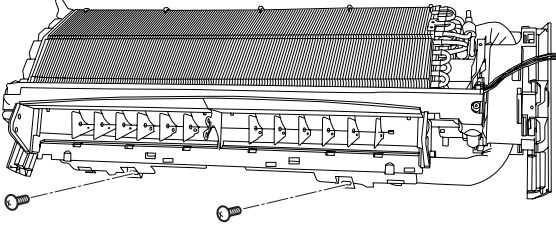
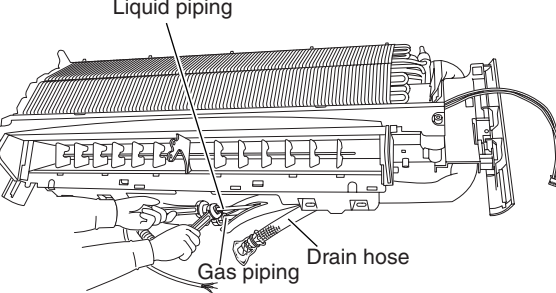
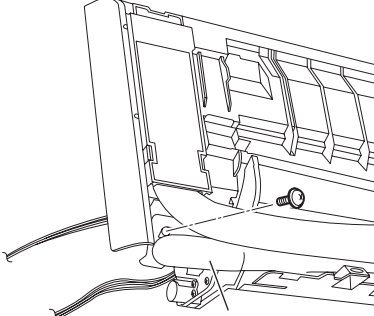
Warning

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

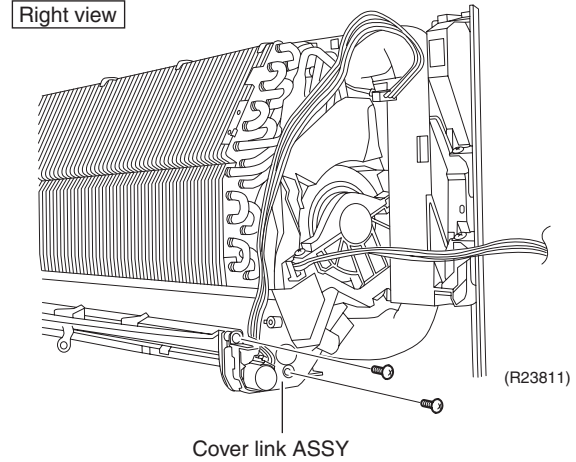
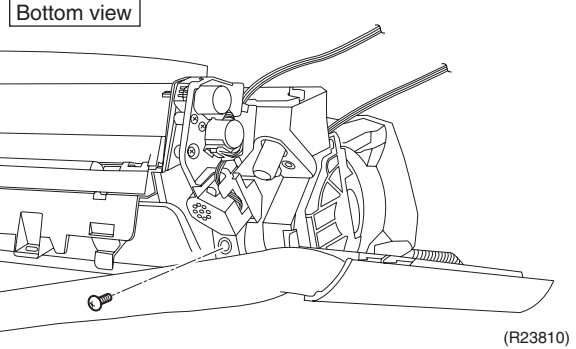
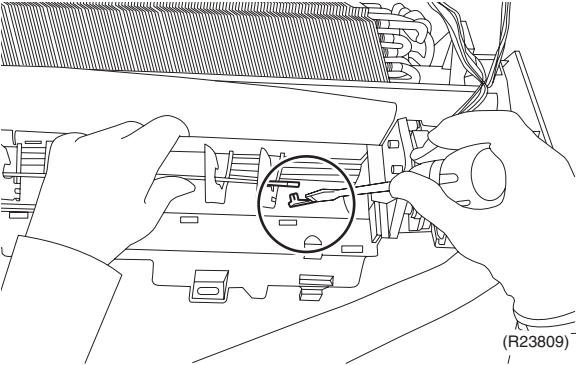
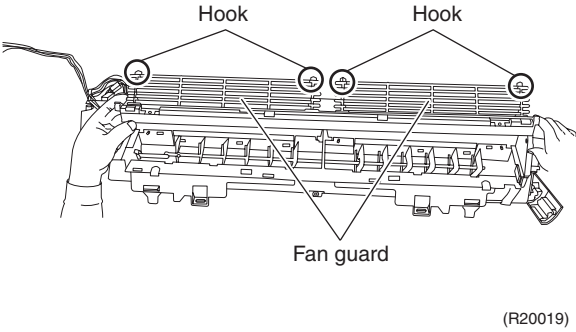


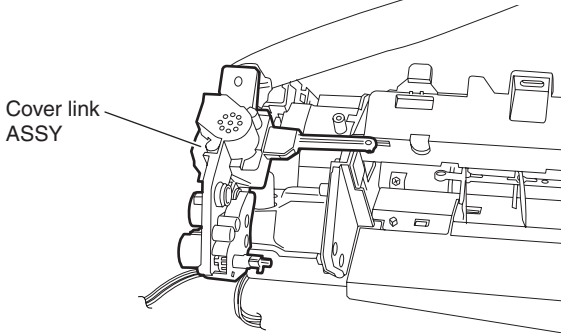
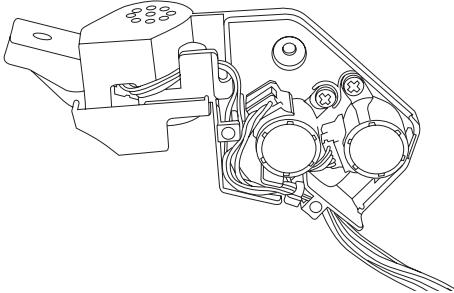
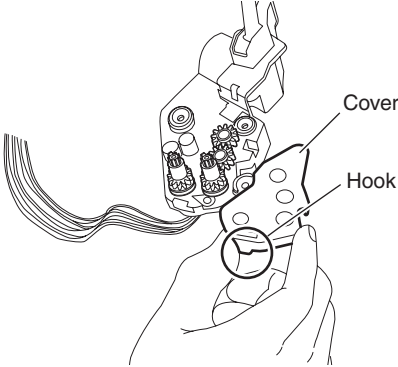
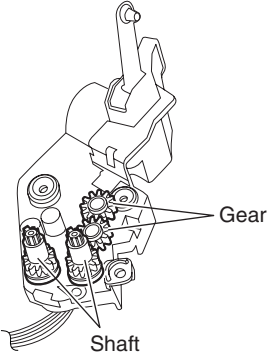
Caution

- ◆ When reassembling, do not confuse the installing order of the 2 motor 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.

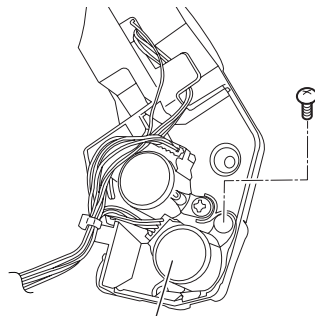
Step	Procedure	Procedure	Points
1	Remove the 2 screws fixed to the installation plate.	 <p style="text-align: right;">(R20016)</p>	<ul style="list-style-type: none"> ■ Place a plastic sheet under the drain pan to prevent wetting the floor with the remaining drain.
2	Hold the indoor unit up with a wooden base.		<ul style="list-style-type: none"> ■ If the drain hose is embedded in the wall, disconnect the drain hose beforehand.
3	Disconnect the gas piping and the liquid piping.	 <p style="text-align: right;">(R20017)</p>	<ul style="list-style-type: none"> ■ When the pipings are disconnected, protect the both openings of pipe side and unit side from entering of moisture.
4	Detach the indoor unit from the installation plate.		<ul style="list-style-type: none"> ■ Carry out the removal work with 2 wrenches.
5	Remove the screw, and then the drain hose.	 <p style="text-align: right;">(R20018)</p>	

Step	Procedure	Points
6	Unfasten the 4 hooks and remove the fan guard.	<ul style="list-style-type: none"> Use a sharp tool such as an awl to unfasten the hooks.
7	Remove the shaft of the vertical blade from the swing motor shaft with a flat screwdriver.	
8	Remove the 3 screws of the cover link ASSY.	

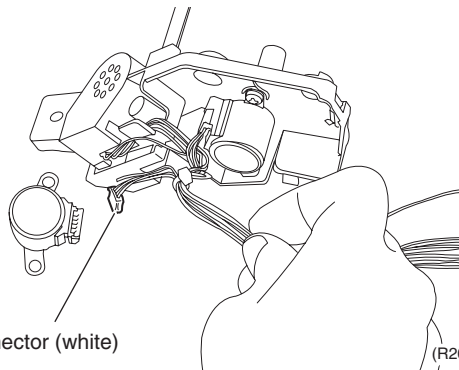


Step		Procedure	Points
9	Remove the cover link ASSY.	 <p data-bbox="994 566 1062 589">(R20023)</p>  <p data-bbox="994 981 1062 1003">(R20024)</p>	
10	Unfasten the hook and remove the cover for horizontal blade gears.	 <p data-bbox="994 1395 1062 1417">(R20025)</p>	
11	Remove the 2 gears and the 2 shafts.	 <p data-bbox="994 1809 1062 1832">(R20026)</p>	

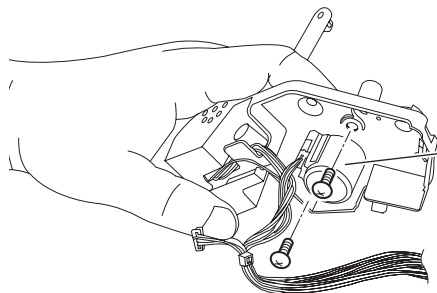
Step	Procedure	Points
12	Remove the screw, and then the swing motor for lower horizontal blade (large).	
13	Disconnect the connector (white) from the swing motor for lower horizontal blade (large).	
14	Remove the 2 screws, and then the swing motor for upper horizontal blade (small).	
15	Disconnect the connector (red) from the swing motor for upper horizontal blade (small).	<p>■ Reassembling order</p> <ol style="list-style-type: none"> (1) Set the swing motor for upper horizontal blade (small) first. (connector: red) (2) Then, set the swing motor for lower horizontal blade (large). (connector: white) (3) Fix both swing motors with their screws.



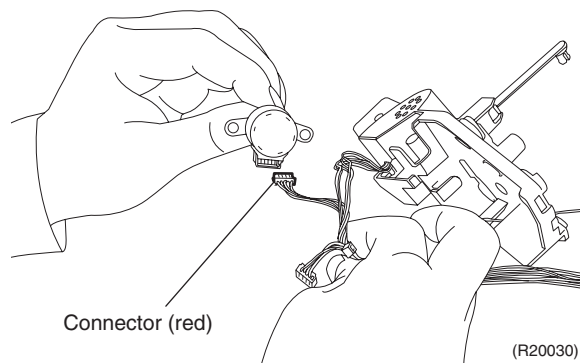
Swing motor for lower horizontal blade (large) (R20027)



Connector (white) (R20028)

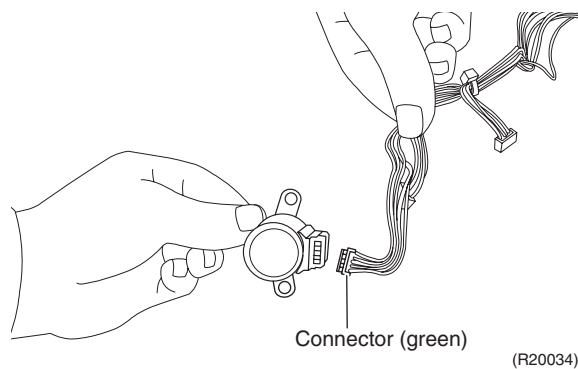
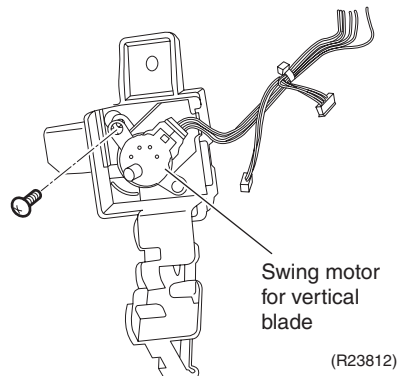
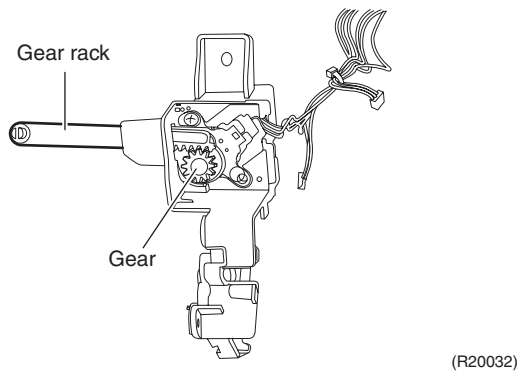
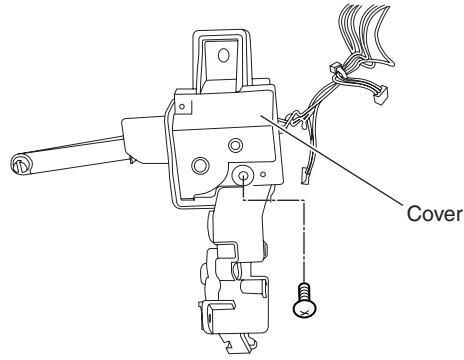


Swing motor for upper horizontal blade (small) (R20029)



Connector (red) (R20030)

Step	Procedure	Points
16	Remove the screw, and then the cover for vertical blade gear.	(R20031)
17	Remove the gear and pull out the gear rack for vertical blade.	(R20032)
18	Remove the screw, and then the swing motor for vertical blade.	(R23812)
19	Disconnect the connector (green).	(R20034)



9. Indoor Heat Exchanger



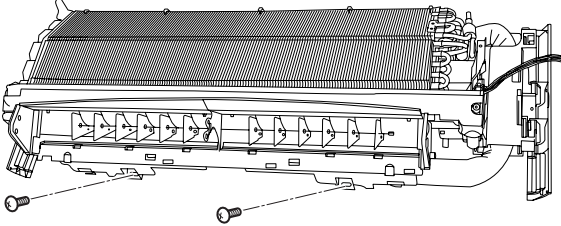
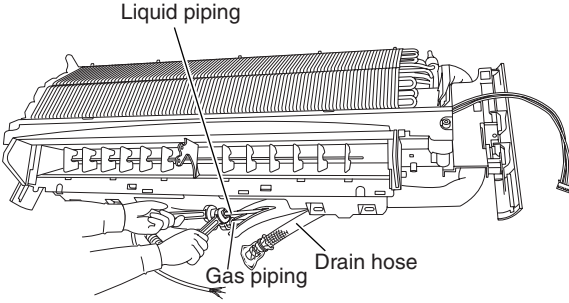
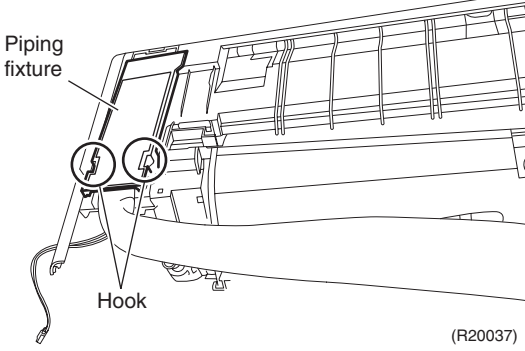
Warning

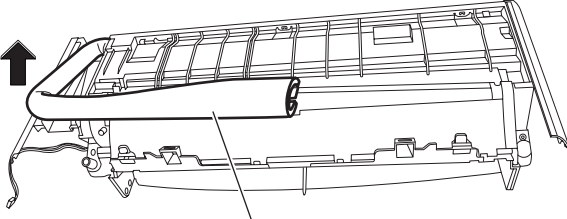
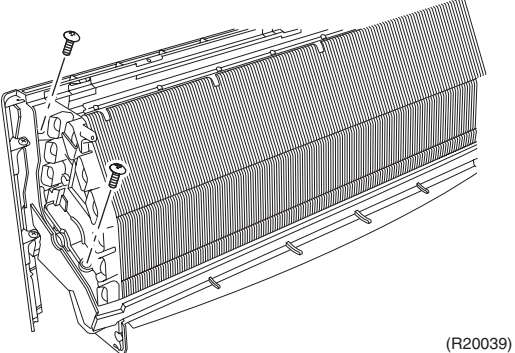
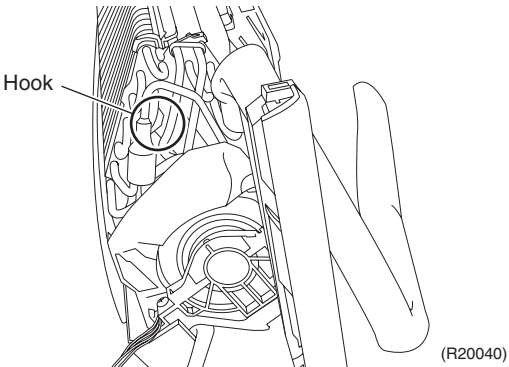
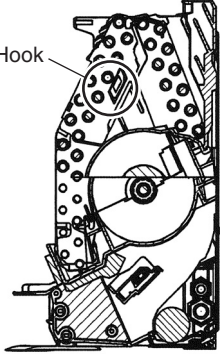
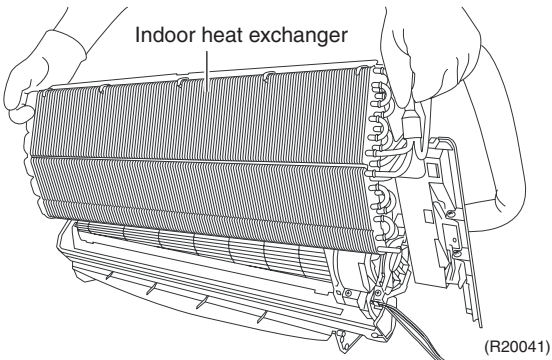
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.
- ◆ In pump-down work, be sure to stop the compressor before disconnecting the refrigerant pipe. If the refrigerant pipe is disconnected with the compressor operating and the stop valve open, air 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
<p>1. Disconnect the refrigerant piping.</p> <p>1 Remove the 2 screws fixed to the installation plate.</p> <p>2 Hold the indoor unit up with a wooden base.</p> <p>3 Disconnect the gas piping and the liquid piping.</p> <p>4 Detach the indoor unit from the installation plate.</p>	 <p style="text-align: right;">(R20016)</p>  <p style="text-align: right;">(R20017)</p>	<ul style="list-style-type: none"> ■ Place a plastic sheet under the drain pan to prevent wetting the floor with the remaining drain. ■ If the drain hose is embedded in the wall, disconnect the drain hose beforehand. ■ When the pipings are disconnected, protect the both openings of pipe side and unit side from entering of moisture. ■ Carry out the removal work with 2 wrenches.
<p>2. Remove the indoor heat exchanger.</p> <p>1 Unfasten the hook of the piping fixture at the back of the indoor unit.</p>	 <p style="text-align: right;">(R20037)</p>	

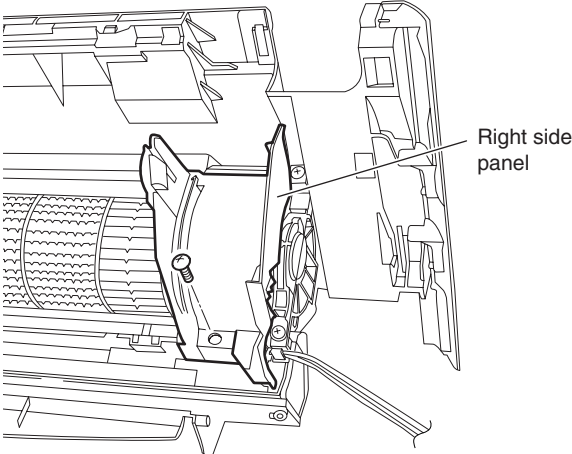
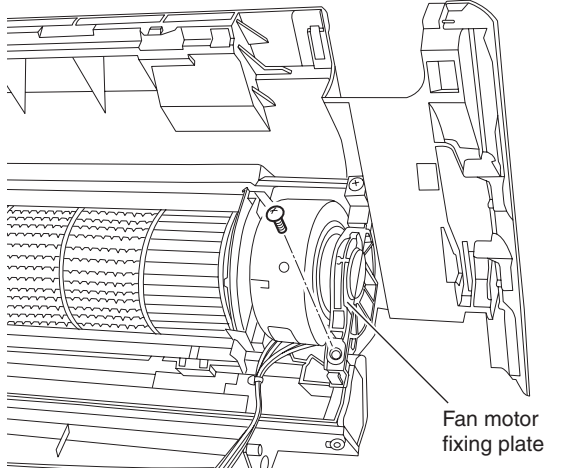
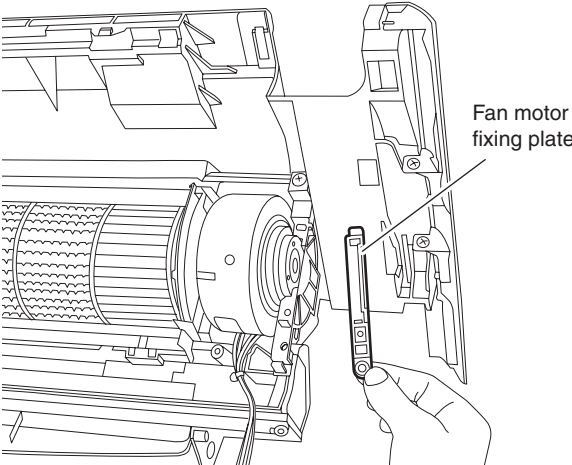
Step	Procedure	Points
2	Slightly pull out the auxiliary pipe.	
	 <p style="text-align: center;">Auxiliary pipe</p> <p style="text-align: right;">(R23813)</p>	
3	Remove the 2 screws on the left side of the unit.	
	 <p style="text-align: right;">(R20039)</p>	
4	Unfasten the hook on the right side of the unit with a flat screwdriver.	<p>■ When reassembling, make sure the hook is securely fastened.</p>
	 <p style="text-align: right;">(R20040)</p>	 <p style="text-align: right;">(R20209)</p>
5	Remove the indoor heat exchanger.	
	 <p style="text-align: right;">(R20041)</p>	

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	Points
1	Remove the screw, and then the right side panel.	
	 <p style="text-align: right;">(R20042)</p>	
2	Remove the screw of the fan motor fixing plate.	
	 <p style="text-align: right;">(R20043)</p>	
3	Remove the fan motor fixing plate.	
	 <p style="text-align: right;">(R20044)</p>	

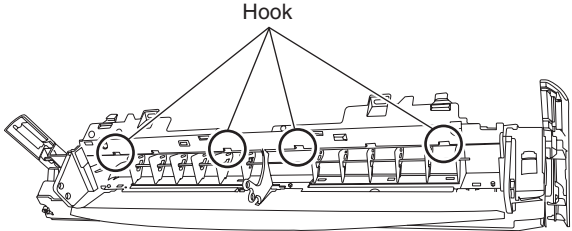
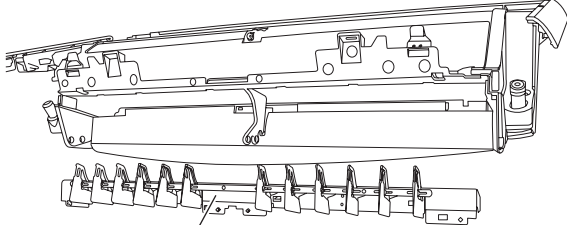
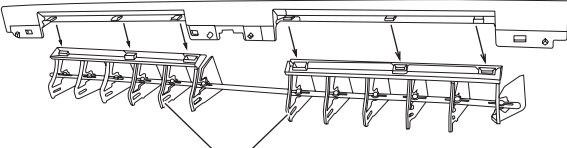
Step	Procedure	Procedure	Points
4	Remove the screw, and then the fan motor.	 	<p>■ When reassembling the fan motor and the fan rotor, provide as much as 5 mm (0.2 inch) of play between the side face of the rotor and the bottom frame.</p>
5	Remove the fan rotor.		<ol style="list-style-type: none"> (1) 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).
6	Remove the bearing.		

11. 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	Unfasten the 4 hooks at the upper positions with a flat screwdriver.	 <p style="text-align: right;">(R20047)</p>
2	Remove the vertical blade ASSY.	 <p style="text-align: right;">(R20048)</p>
3	Unfasten the 6 hooks and remove the vertical blades.	 <p style="text-align: right;">(R20049)</p>

Revision History

Month / Year	Version	Revised contents
03 / 2014	Si041401E	First edition
02 / 2015	Si041401EA	Model addition: FTKJ09/12/18NV1SW(S), FTKJ25/35/42/50NVMW(S), FTKJ25/35/50NVM4W(S), FTKJ25/35/50NVMMW(S), FTK(X)J25/35/50NVMVW(S), FTXJ20/25/35/50LV1BW(S), FTXJ25/41NVLTW, FTXJ25/35/50PVMW(S), CTXG25/35/50PVMW(S)
09 / 2016	Si041401EB	Model addition: CTXG09/12/18QVJUW(S)

Warning



- Daikin products are manufactured for export to numerous countries throughout the world. Prior to purchase, please confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

Dealer

DAIKIN INDUSTRIES, LTD.

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

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

<http://www.daikin.com/products/ac/>

©All rights reserved