



Si041553EB

REMOVAL PROCEDURE



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

15000/18000/24000 Btu/h Class



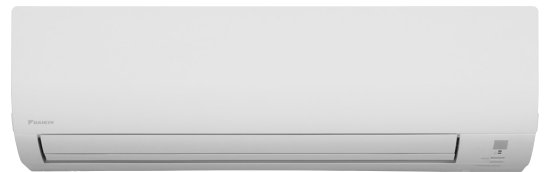
Indoor Unit



Inverter



Wall Mounted Type



Service Manual Removal Procedure

Indoor Unit

●Cooling Only

**FTK18NMVJU
FTK24NMVJU
FTKN18NMVJU
FTKN24NMVJU**

FTK24P5VL

●Heat Pump

**FTX15NMVJU
FTX18NMVJU
FTX24NMVJU
FTXN18NMVJU
FTXN24NMVJU**

FTX24N5VL

FTH24P5VL

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Note:

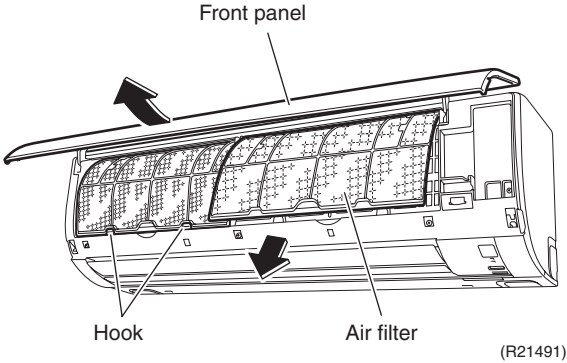
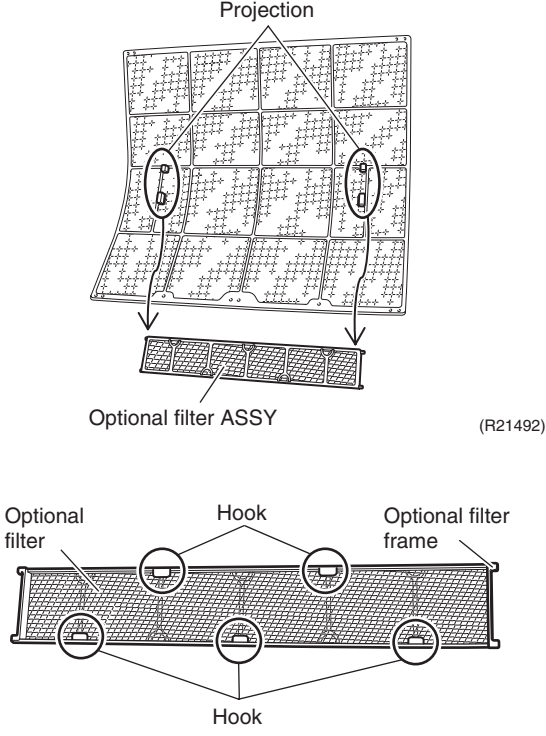
- ◆ The illustrations may be slightly different depending on the model.

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.</p> <p>2 Unfasten the 2 hooks and pull out the air filter downward to remove it.</p> <p>3 Remove the other air filter in the same way.</p>		<ul style="list-style-type: none"> ■ The air filter is not marked for difference between the right and left sides. ■ The air filter can be set easily by inserting it along the guides. ■ Insert the air filter with the "FRONT" mark faced up. ■ Be sure to insert the 2 lower hooks when installing the air filter.
<p>2. Remove the optional filters.</p> <p>1 Remove the optional filter ASSY by unfastening the 4 projections from the back of the air filter frame.</p> <p>2 Unfasten the 5 hooks and remove the optional filter from its frame.</p> <p>3 Remove the other optional filter in the same way.</p>		<ul style="list-style-type: none"> ■ The right and left filters are interchangeable.

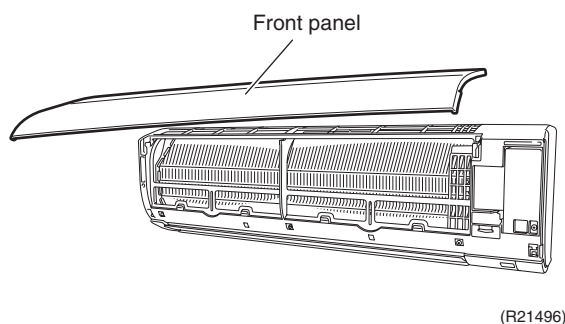
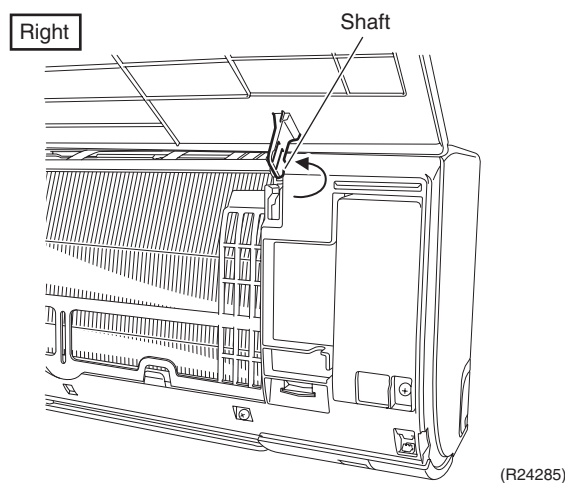
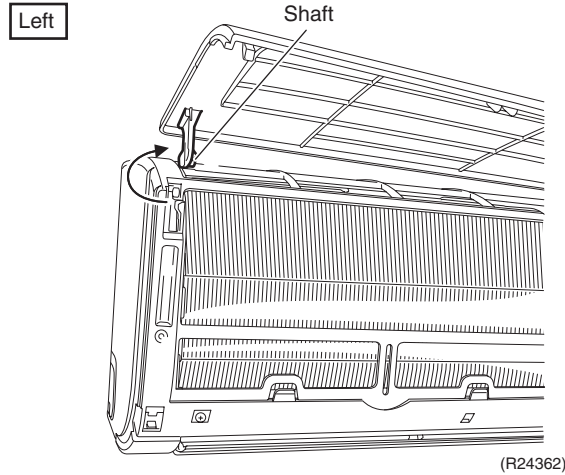
2. Front Panel



Warning

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

Step	Procedure	Points
1	Release the left and right shafts.	
2	Remove the front panel.	<ul style="list-style-type: none"> ■ When reassembling the front panel, fit the right and left shafts one by one into the grooves and fully push them in position.

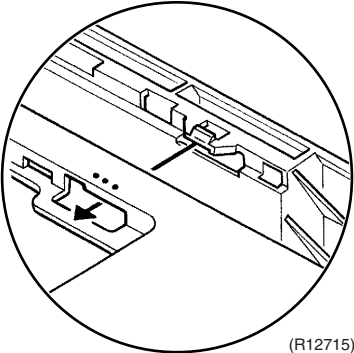


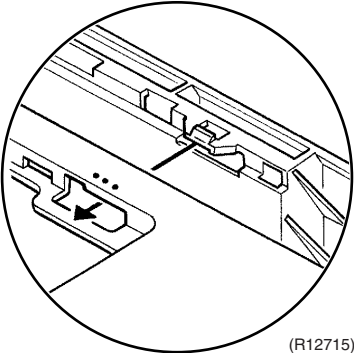
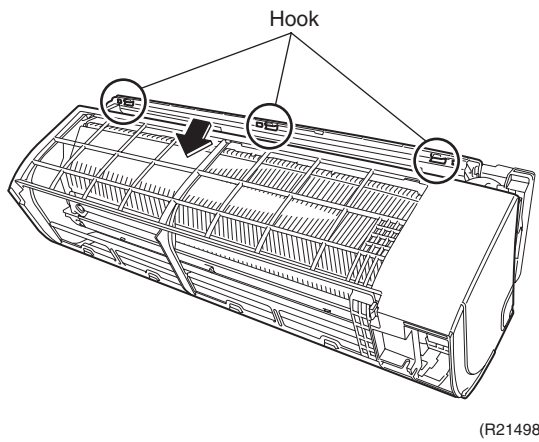
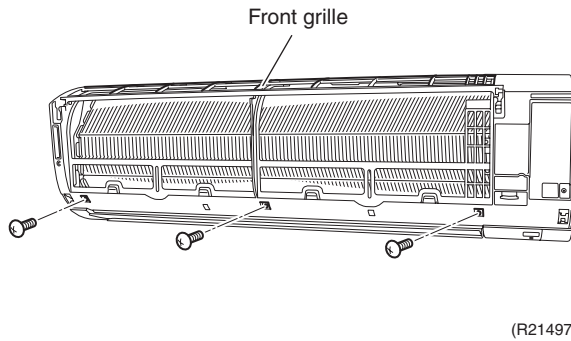
3. Front Grille



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 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, lift up the lower part, and then remove the front grille.	 <ul style="list-style-type: none"> ■ When reassembling, make sure that all the 3 hooks are fastened.

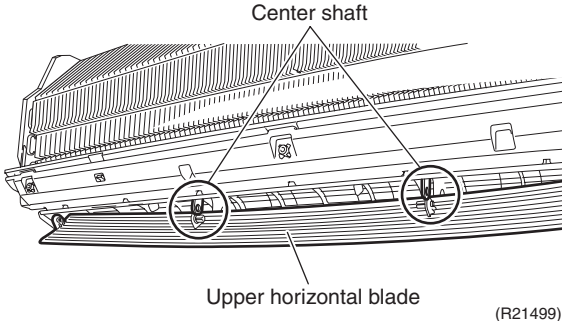
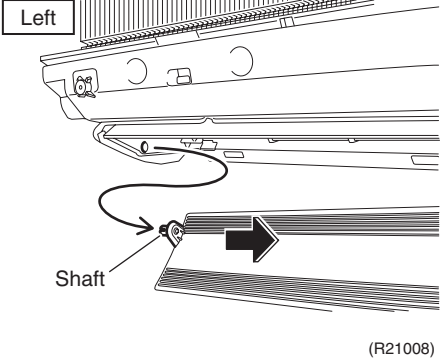
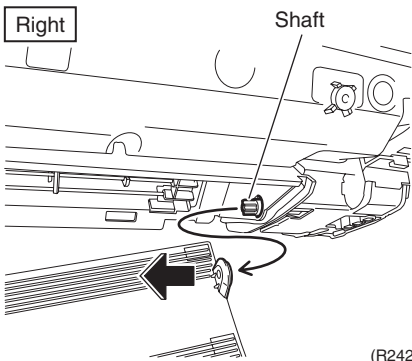
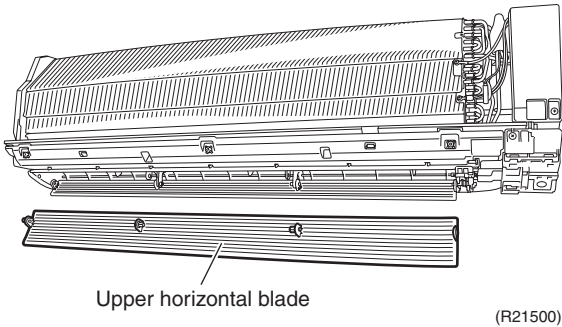
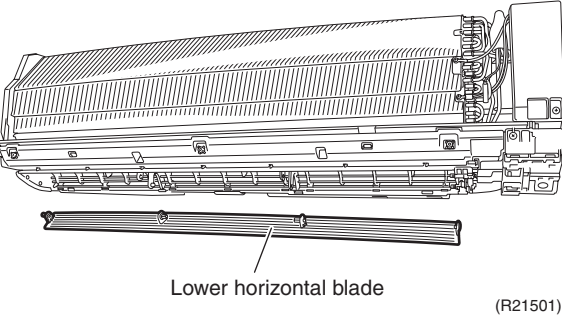


4. Horizontal Blades



Warning

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

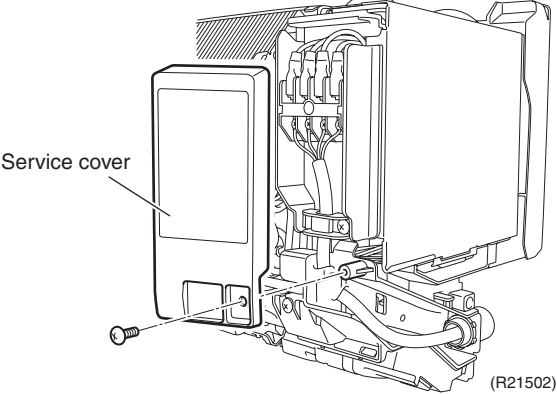
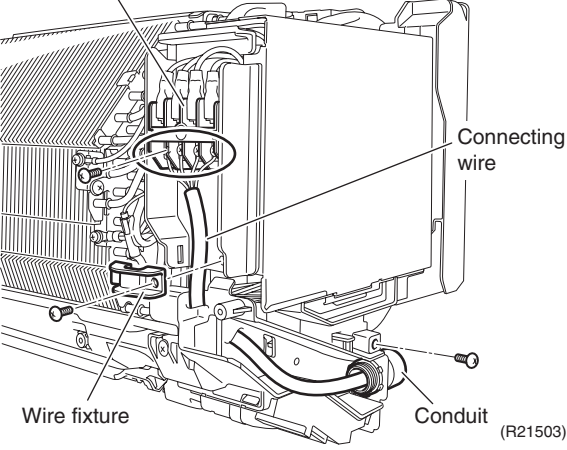
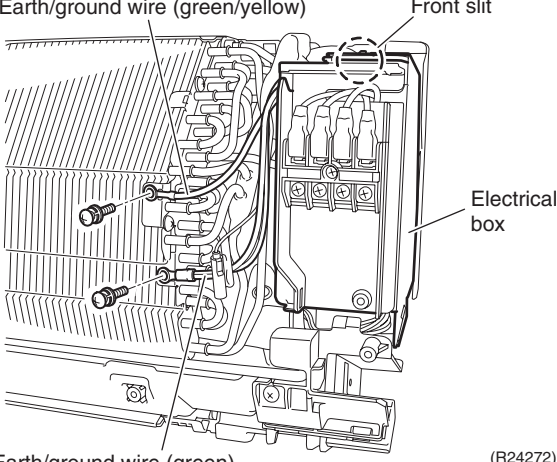
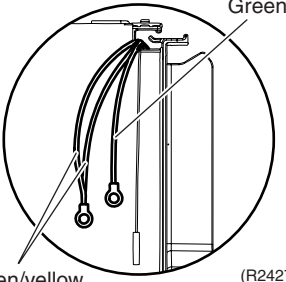
Step	Procedure	Points	
1	Release the center shafts of the upper horizontal blade while bending the blade slightly.		
2	Release the left shaft.		
3	Release the right shaft.		
4	Remove the upper horizontal blade.		<p>■ Installation procedure</p> <ol style="list-style-type: none"> 1. Fit the right shaft of the horizontal blade first. Make sure to rotate the horizontal blade so the shaft fits in the correct position. 2. Fit the horizontal blade to the center and left shafts.
5	Remove the lower horizontal blade in the same way.		<p>■ When reassembling, install the lower horizontal blade first.</p>

5. Electrical Box / Swing Motor

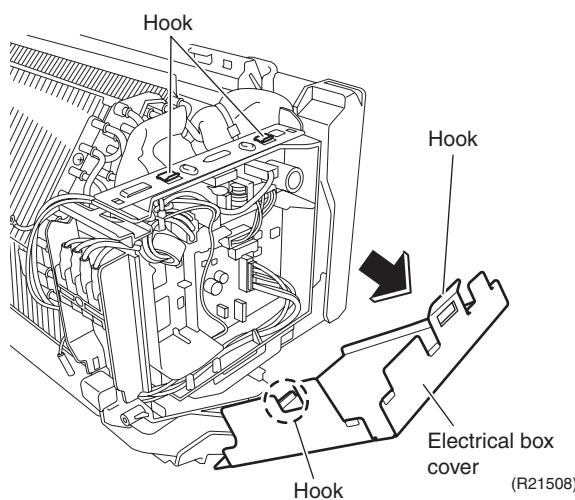
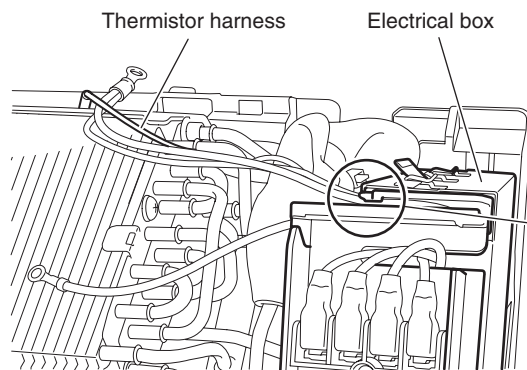
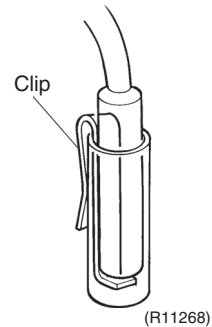
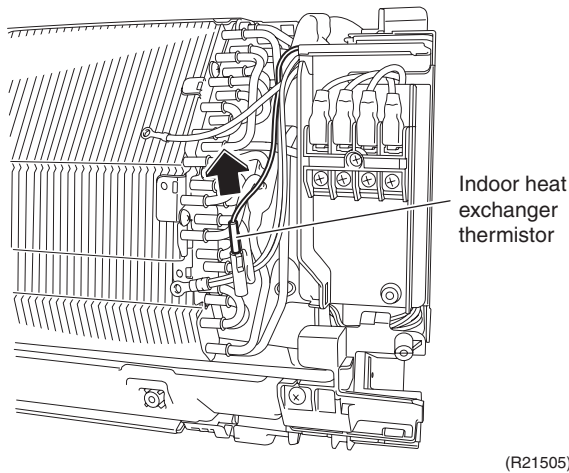


Warning

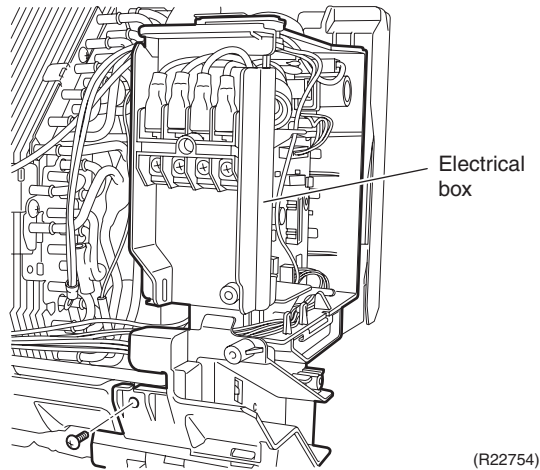
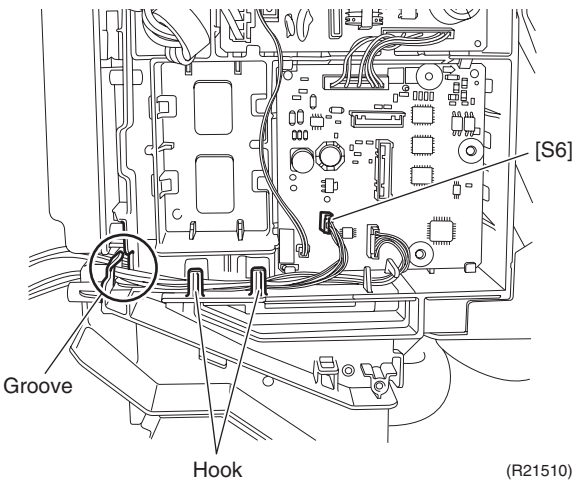
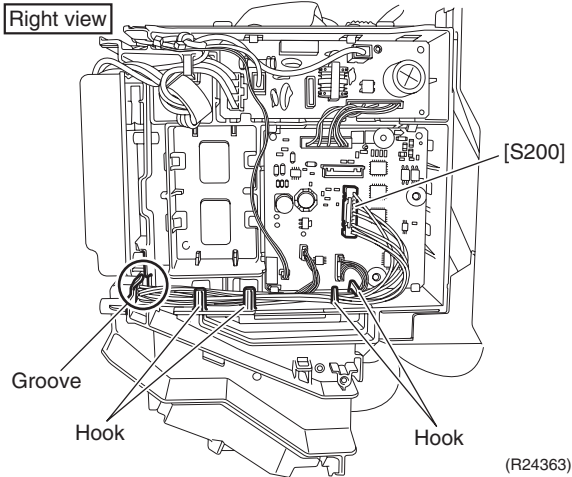
◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

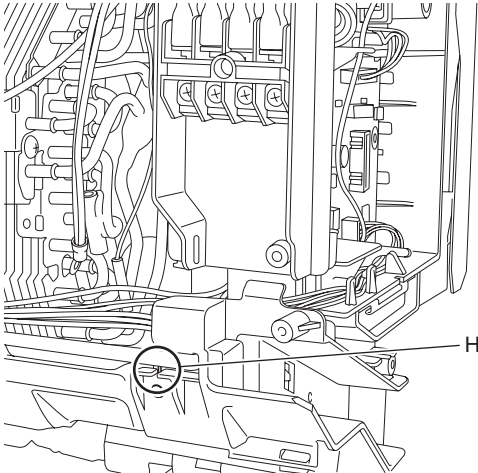
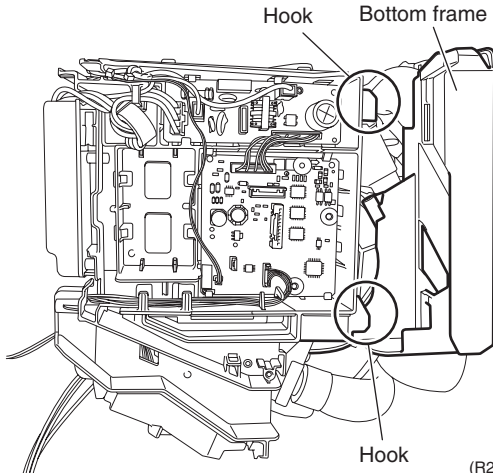
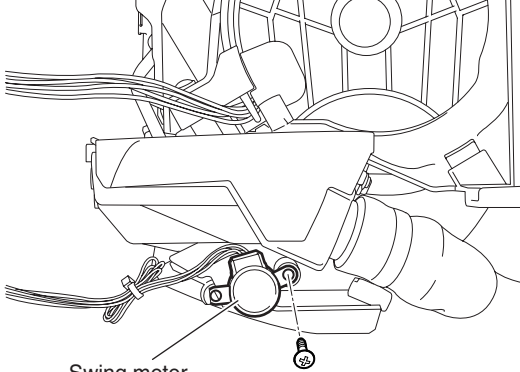
Step	Procedure	Points
<p>1. Disconnect the connecting wire.</p> <p>1 Remove the screw, and then the service cover.</p> <p>2 Remove the screw, and then the wire fixture.</p> <p>3 Remove the screw, and then the conduit holding the connecting wire.</p> <p>4 Remove the 4 screws of the terminal board and disconnect the connecting wire.</p>	 <p>Service cover (R21502)</p>  <p>Terminal board (R21503)</p> <p>Connecting wire</p> <p>Wire fixture</p> <p>Conduit</p>	<ul style="list-style-type: none"> ■ The service cover can be removed without removing the front grille. ■ The service cover has no hook and may fall when the screw is loosened. Be careful not to drop the service cover. ■ Conduit is only for U.S. models.
<p>2. Remove the electrical box.</p> <p>1 Remove the 2 screws and detach the earth/ground wires.</p> <p>2 Release the earth/ground wires from the front slit at the top of the electrical box.</p>	 <p>Earth/ground wire (green/yellow) (R24272)</p> <p>Front slit</p> <p>Electrical box</p> <p>Earth/ground wire (green)</p>	<ul style="list-style-type: none"> ■ When reassembling, be sure to insert the earth/ground wires in the front slit and green/yellow wire is above the green wire.  <p>Green (R24275)</p> <p>Green/yellow</p> <ul style="list-style-type: none"> ■ When reassembling, make sure to pass the green earth/ground wire behind the heat exchanger tube (the tube with the thermistor).

Step	Procedure	Points
3	Pull out the indoor heat exchanger thermistor.	<ul style="list-style-type: none"> Be careful not to lose the clip of the thermistor.
4	Release the thermistor harness from the slit at the top of the electrical box.	<ul style="list-style-type: none"> When reassembling, pass the indoor heat exchanger thermistor behind the green earth/ground wire. When reassembling, be sure to insert the thermistor harness in the slit as shown in the picture.
5	Unfasten the 4 hooks and remove the electrical box cover.	<ul style="list-style-type: none"> When reassembling, make sure the 4 hooks are securely fastened.



Step	Procedure	Points
6	Disconnect the connector [S200].	[S200]: fan motor
7	Release the harnesses from the 4 hooks and the groove.	
8	Disconnect the connector [S6].	[S6]: swing motor
9	Release the harnesses from the 2 hooks and from the groove.	
10	Remove the screw of the electrical box.	



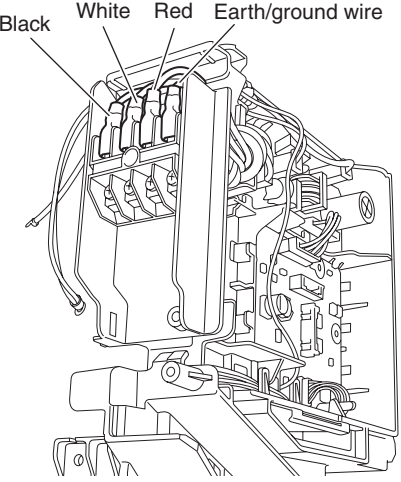
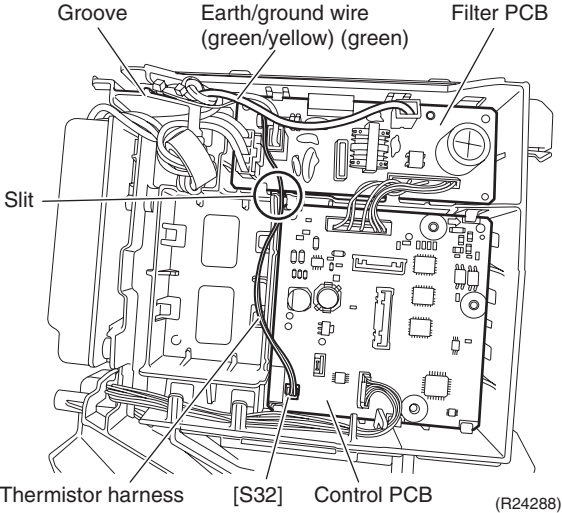
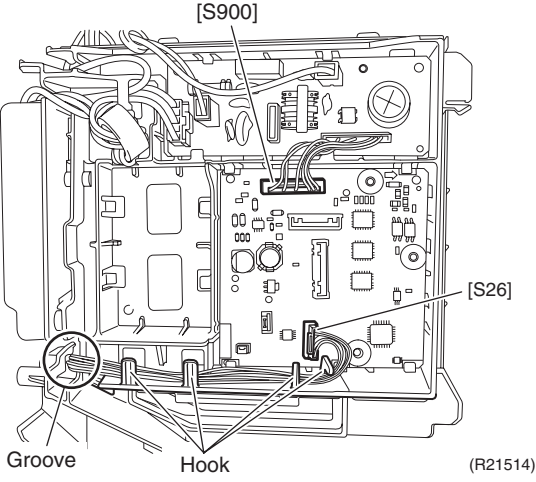
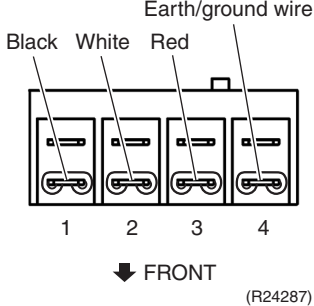
Step	Procedure	Points
<p>11 Unfasten the hook at the front, then slightly lift the electrical box upward.</p> <p>12 Remove the electrical box.</p>	 <p style="text-align: right;">Hook</p> <p style="text-align: right;">(R21522)</p>  <p style="text-align: center;">Hook Bottom frame</p> <p style="text-align: center;">Hook</p> <p style="text-align: right;">(R21523)</p>	<ul style="list-style-type: none"> ■ When reassembling, make sure that the 2 hooks are securely fastened to the bottom frame.
3. Remove the swing motor.	<p>1 Remove the screw, and then the swing motor.</p>  <p style="text-align: center;">Swing motor</p> <p style="text-align: right;">(R21032)</p>	

6. PCBs

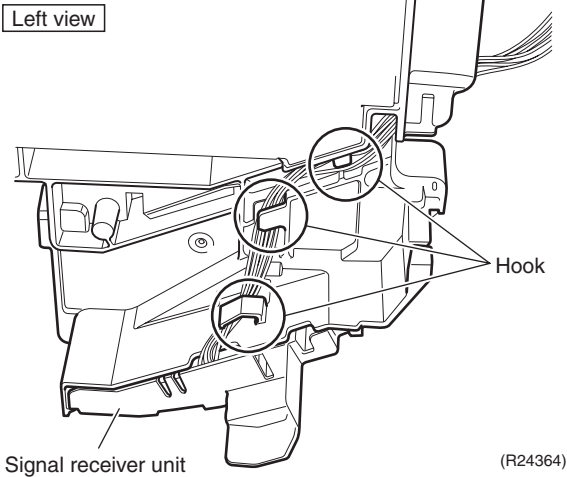
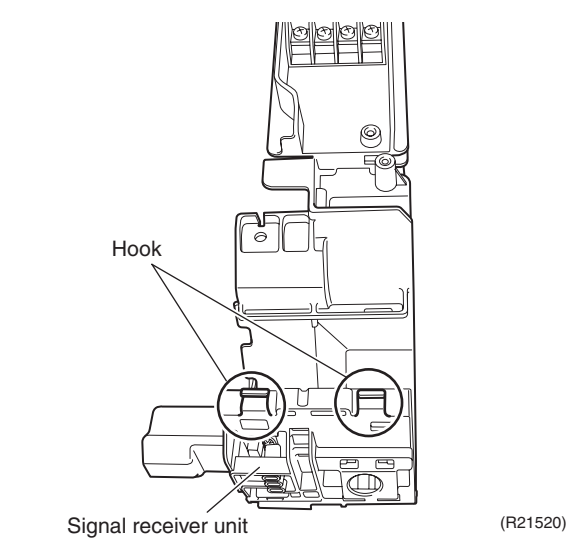
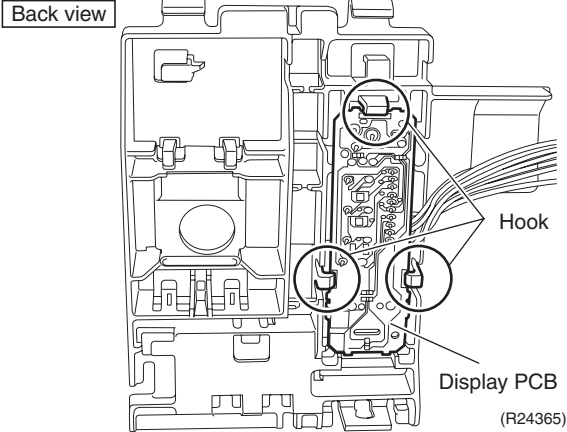


Warning

◆ **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 control PCB.</p> <p>1 Disconnect all the 4 terminals.</p> <p>2 Release the 2 earth/ground wires and the thermistor harness from the groove.</p> <p>3 Disconnect the connector [S32] and release the thermistor harness from the slit.</p> <p>4 Disconnect the connector [S900].</p> <p>5 Disconnect the connector [S26].</p> <p>6 Release the harness of [S26] from the 4 hooks and the groove.</p>	 <p>(R24186)</p>  <p>(R24288)</p>  <p>(R21514)</p>	 <p>(R24287)</p> <p>[S32]: indoor heat exchanger thermistor</p> <ul style="list-style-type: none"> ■ When reassembling, make sure to insert the earth/ground wires back into the groove. ■ When reassembling, make sure to insert the thermistor harness back into the groove and the slit. <p>[S900]: filter PCB [S26]: display PCB</p>

Step	Procedure	Points
7	Unfasten the 5 hooks and remove the control PCB.	<ul style="list-style-type: none"> ■ When reassembling, fit the control PCB to the 3 projections.
<p style="text-align: right;">(R21515)</p> <p style="text-align: right;">(R24274)</p>		
2. Remove the filter PCB.		[S100]: terminal board
1	Disconnect the connector [S100].	<p style="text-align: right;">(R21517)</p>
2	Unfasten the 4 hooks and remove the filter PCB.	<p style="text-align: right;">(R22756)</p>

Step	Procedure	Points
3. Remove the display PCB.	<p data-bbox="496 232 600 262">Left view</p>  <p data-bbox="496 680 683 707">Signal receiver unit</p> <p data-bbox="995 680 1066 707">(R24364)</p>	
1 Release the harness of the signal receiver unit from the 3 hooks.	<p data-bbox="496 725 475 792">2 Unfasten the 2 hooks of the signal receiver unit.</p>  <p data-bbox="496 1236 746 1263">Signal receiver unit</p> <p data-bbox="995 1236 1066 1263">(R21520)</p>	<p data-bbox="1086 725 1463 860">■ When reassembling, make sure to fit the bottom of the signal receiver unit before fastening the 2 hooks.</p>
3 Turn over the signal receiver unit.	<p data-bbox="496 1308 600 1337">Back view</p>  <p data-bbox="938 1675 1066 1702">Display PCB</p> <p data-bbox="995 1711 1066 1738">(R24365)</p>	
4 Unfasten the 3 hooks and remove the display PCB.		

7. Indoor Heat Exchanger



Warning

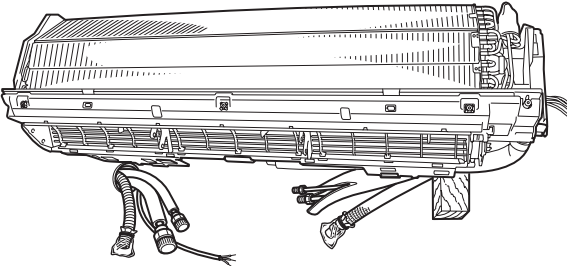
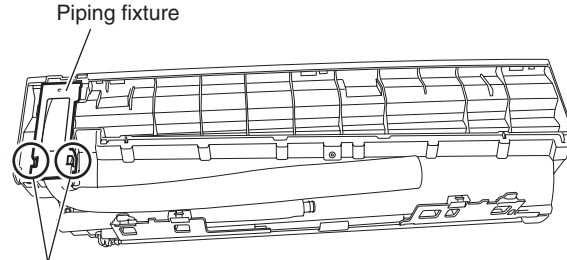
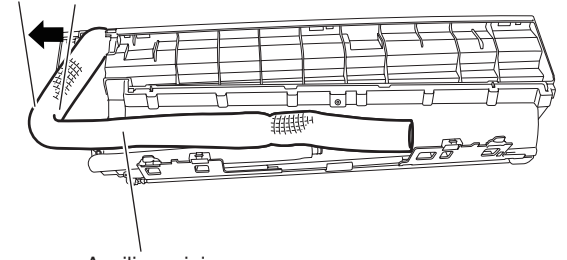
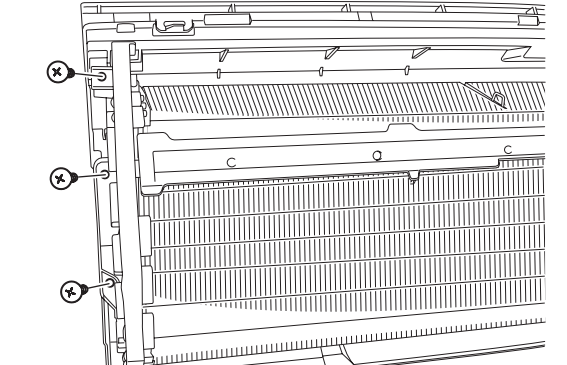
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.
- ◆ In pump-down work, be sure to stop the compressor before disconnecting the refrigerant pipe. If the refrigerant pipe is disconnected with the compressor operating and the stop valve open, air 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.)



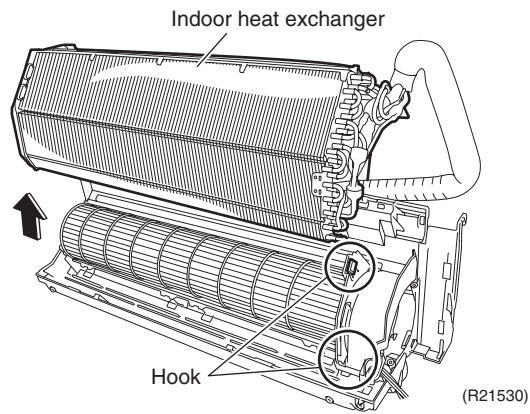
Caution

- ◆ 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. Disconnect the refrigerant piping.		<ul style="list-style-type: none"> ■ Place a plastic sheet around the drain pan to prevent wetting the floor with remaining drain.
1 Remove the 2 screws.	<p>(R21525)</p>	
2 Pull out and disconnect the drain hose.		<ul style="list-style-type: none"> ■ Hold the indoor unit up with a piece of wood.
3 Wrap the open ends of the drain hose with plastic sheets to prevent water dripping.	<p>(R17300)</p>	<ul style="list-style-type: none"> ■ If embedded in the wall, the drain hose can be disconnected from the back of the unit.
4 Disconnect the flare nut for gas piping.		<p>(R24394)</p>
5 Disconnect the flare nut for liquid piping.		<ul style="list-style-type: none"> ■ Carry out the removal work with 2 wrenches.
6 Protect the open ends of both the pipes and the unit from moisture intrusion.	<p>(R17301)</p>	

Step	Procedure	Points
2. Remove the indoor heat exchanger.		
1 Detach the indoor unit from the installation plate.	 <p>(R21526)</p>	
2 Unfasten the 2 hooks and remove the piping fixture on the back of the indoor unit.	 <p>(R21527)</p>	
3 Slightly pull out the auxiliary piping.	 <p>(R21528)</p>	
4 Remove the 3 screws on the left side.	 <p>(R21529)</p>	

Step	Procedure	Points
5	Unfasten the 2 hooks on the right side and lift up the indoor heat exchanger.	<ul style="list-style-type: none">■ When reassembling the indoor heat exchanger, make sure that the 2 hooks are fastened.



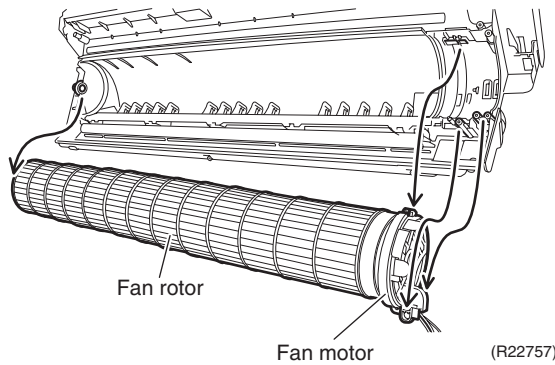
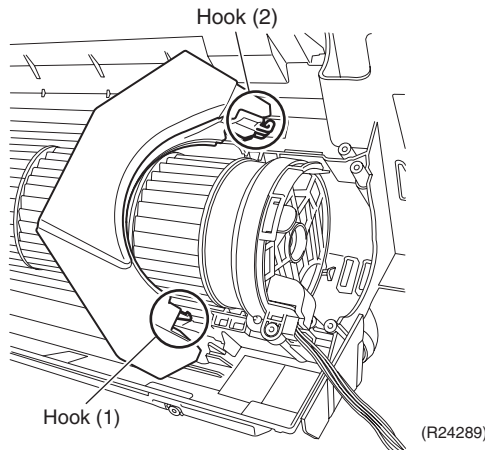
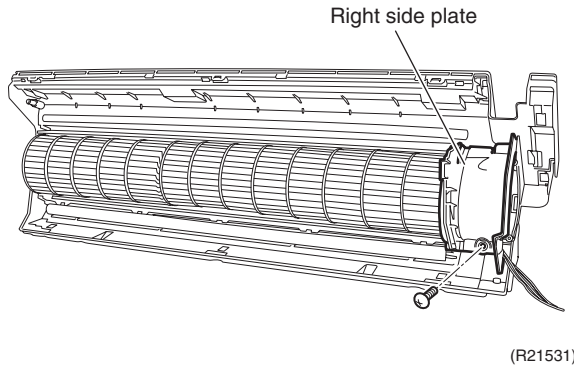
8. Fan Rotor / Fan Motor



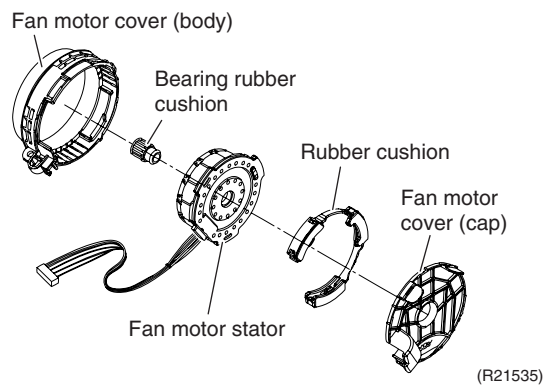
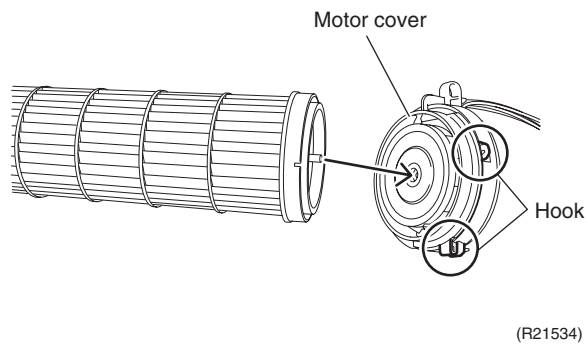
Warning

◆ 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 of the right side plate.	
2	First unfasten the hook (1) and then unfasten the hook (2) to remove the right side plate.	<ul style="list-style-type: none"> ■ When reassembling, make sure that the 2 hooks are securely fastened.
3	Remove the fan rotor and the fan motor.	<ul style="list-style-type: none"> ■ The fan motor has 3 projections on the right side. ■ The fan rotor has a rotating shaft on the left side.



Step	Procedure	Points
4	Pull out the fan motor from the fan rotor.	
5	Unfasten the 2 hooks of the motor cover.	
6	Disassemble the fan motor.	



9. Fan Guards / 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
<p>1. Remove the fan guards.</p> <p>1 Remove the sealing material.</p> <p>2 Unfasten the 2 hooks at the bottom and remove the fan guard.</p> <p>3 Remove the other fan guards in the same way.</p>	<p>(R21536)</p> <p>(R21537)</p>	<ul style="list-style-type: none"> ■ The fan guards are not marked for difference between right, center and left. ■ When reassembling, fit the fan guard to the 2 projections at the top and fasten the 2 hooks at the bottom.
<p>2. Remove the vertical blade ASSYs.</p> <p>1 Unfasten the upper 2 hooks.</p> <p>2 Unfasten the 3 hooks at the shaft mounting part by pressing them with a flat screwdriver.</p> <p>3 Remove the vertical blade ASSY.</p> <p>4 Remove the other vertical blade ASSYs in the same way.</p>	<p>(R21538)</p> <p>(R21539)</p>	<ul style="list-style-type: none"> ■ Each vertical blade ASSY has 5 fins. It is impossible to replace only one fin. ■ The vertical blade ASSY is not marked for difference between right, center and left.

Revision History

Month / Year	Version	Revised contents
05 / 2015	Si041553E	First edition
01 / 2016	Si041553EA	Model addition: FTX15NMVJU
12 / 2016	Si041553EB	Model addition: FTK24P5VL, FTX24N5VL, FTH24P5VL

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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