



Si041351ED

REMOVAL PROCEDURE



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

4.0/4.1/5.0/6.0/6.3/7.1 kW Class
15000/18000/24000/28000 Btu/h Class



Indoor Unit



Inverter / Non-Inverter



Wall Mounted Type



Service Manual

Removal Procedure

Indoor Unit

●Cooling Only

CTKM28PV2S ATM24MV2S
CTKM71PV14

FTKM18NV2S FTM60JV14
FTKM24NV2S FTM60KV1V
FTKM28NV2S

FTKM71PVM FTM24NV2S
FTN60JV1G
FTN60JV1G9

FTKM50PVMA
FTKM60PVMA
FTKM71PVMA

FTKM18PVMK
FTKM24PVMK

FTKS50HVM
FTKS60HVM

FTKS50JAVLT
FTKS60JAVLT

FTKS50JVMG
FTKS60JVMG
FTKS50JVMG9
FTKS60JVMG9

FTKS18JV2S
FTKS24JV2S

FTKS40MVLT
FTKS50MVLT

FTKV71NVM
FTKV71NVM4
FTKV71NMMM
FTKV71NVMV

●Heat Pump

CTXM71PVLT

FTXM41NVLT
FTXM50NVLT
FTXM63NVLT

FTXM50PVMA
FTXM60PVMA
FTXM71PVMA

FTXM18PVMK
FTXM24PVMK

FTXS50JAVLT
FTXS60JAVLT

FTXS15LVJU
FTXS18LVJU
FTXS24LVJU

FTXS40MVLT
FTXS50MVLT

FTXV50NVLT
FTXV63NVLT
FTXV71NVLT

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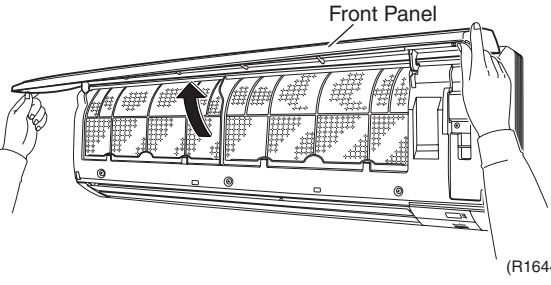
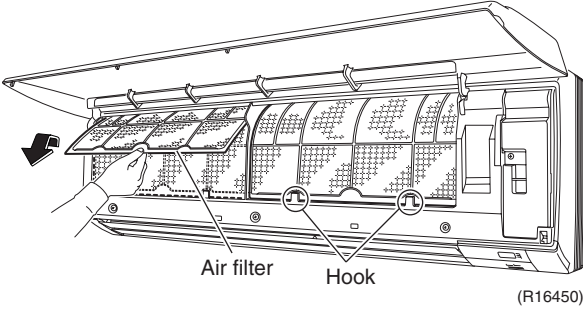
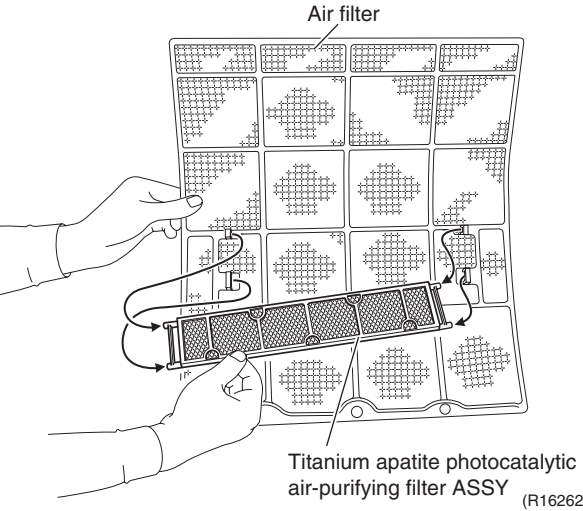
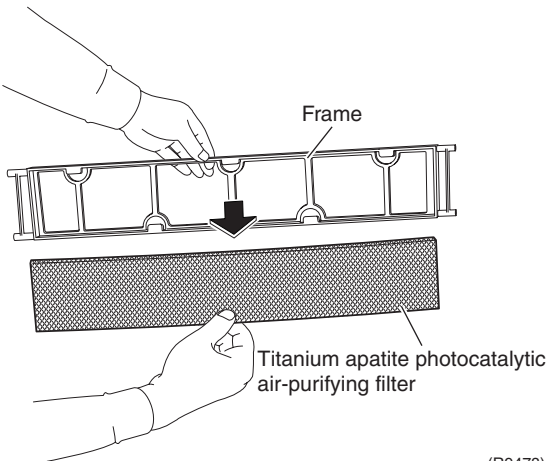
Note: ♦ The illustrations may be slightly different depending on the model.

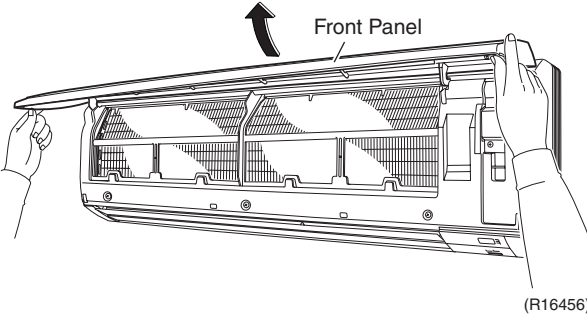
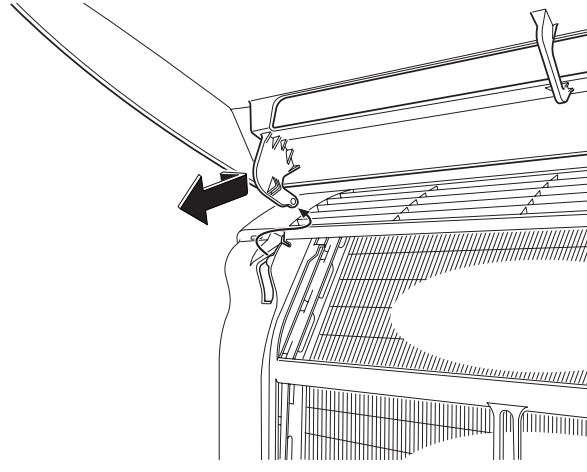
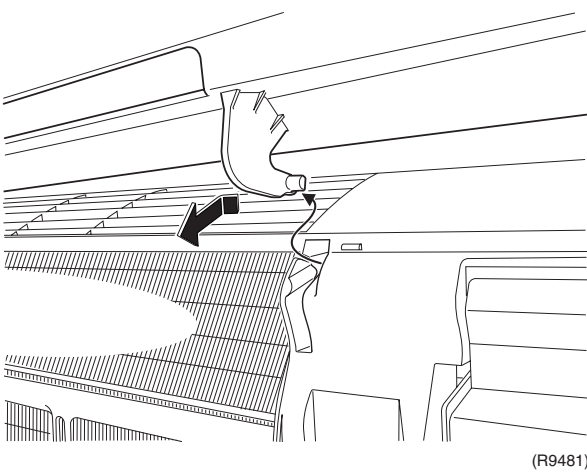
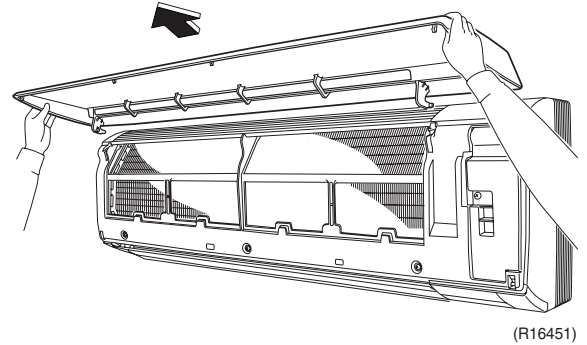
1. Air Filters / Front Panel



Warning

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

Step	Procedure	Points
<p>1. Remove the air filters.</p> <p>1 Open the front panel to the position where it stops.</p> <p>2 Pull out the air filter downward and remove it.</p>	 <p>(R16449)</p>  <p>(R16450)</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 reassembling 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 from the back of the air filter.</p> <p>2 Remove the Titanium apatite photocatalytic air-purifying filter from the frame.</p>	 <p>(R16262)</p>  <p>(R9478)</p>	<ul style="list-style-type: none"> ■ The right and left filters are interchangeable.

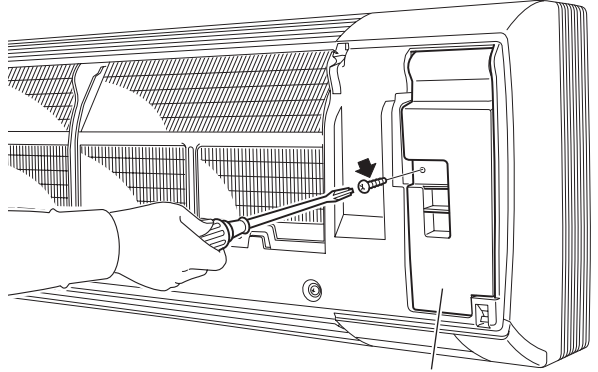
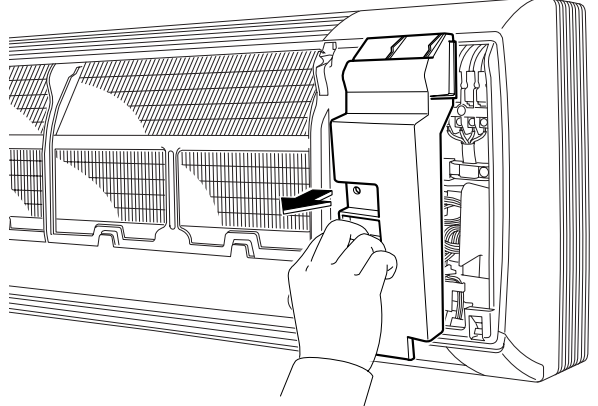
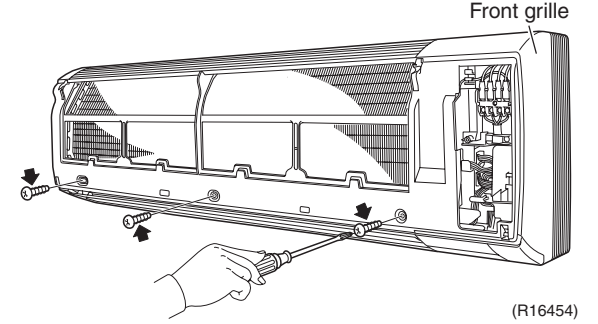
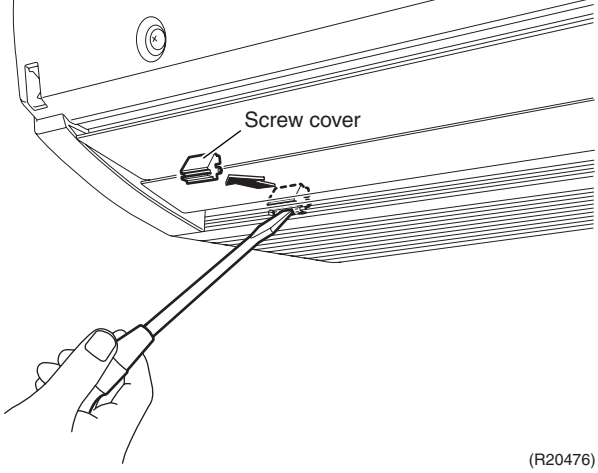
Step	Procedure	Points
3. Remove the front panel.	 <p data-bbox="798 235 909 264">Front Panel</p> <p data-bbox="1005 515 1075 537">(R16456)</p>  <p data-bbox="1005 1019 1075 1041">(R9480)</p>  <p data-bbox="1005 1512 1075 1534">(R9481)</p>  <p data-bbox="989 1870 1075 1892">(R16451)</p>	<ul style="list-style-type: 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.

2. Front Grille

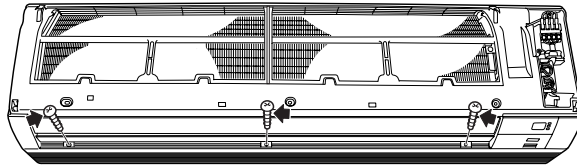


Warning

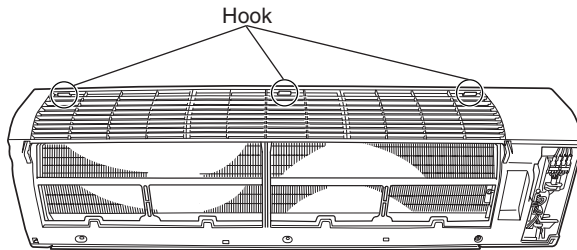
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
<p>1. Remove the service cover.</p> <p>1 Remove the screw and remove the service cover.</p>	 <p>Service cover (R16452)</p>  <p>(R16453)</p>	<ul style="list-style-type: none"> ■ You can remove the front grille without removing the service cover.
<p>2. Remove the front grille.</p> <p>1 Remove the 3 screws of the front grille.</p> <p>2 Remove the 3 screw covers with a flat screwdriver.</p>	 <p>Front grille (R16454)</p>  <p>Screw cover (R20476)</p>	<ul style="list-style-type: none"> ■ Refer to the removal procedure in a reverse way when reassembling.

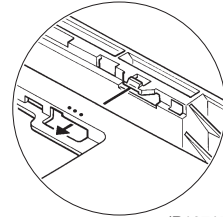
Step	Procedure	Points
3	Remove the lower 3 screws.	
4	Unfasten the 3 hooks on the top of the front grille.	<ul style="list-style-type: none"> ■ The convex marks (...) on the front panel indicate the position of the hooks.
5	Pull out the upper part of the front grille and lift up the lower part, and then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



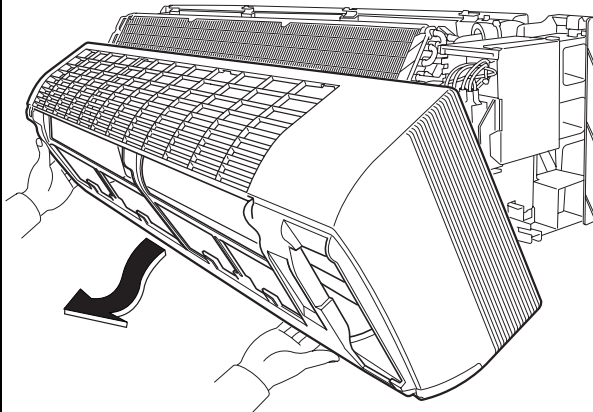
(R16267)



(R16511)



(R12715)



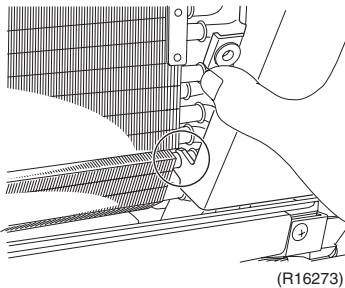
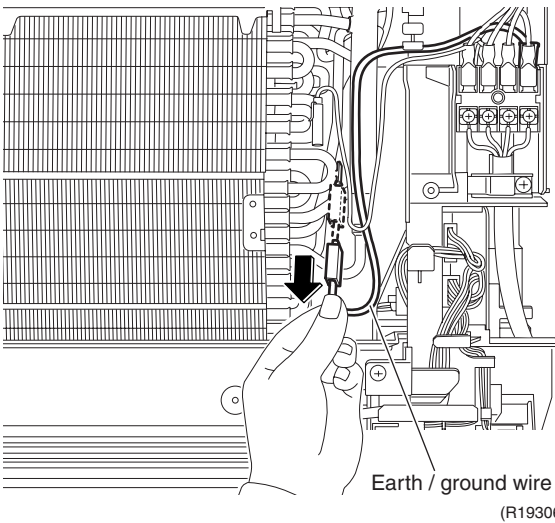
(R16269)

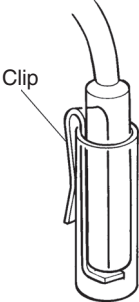
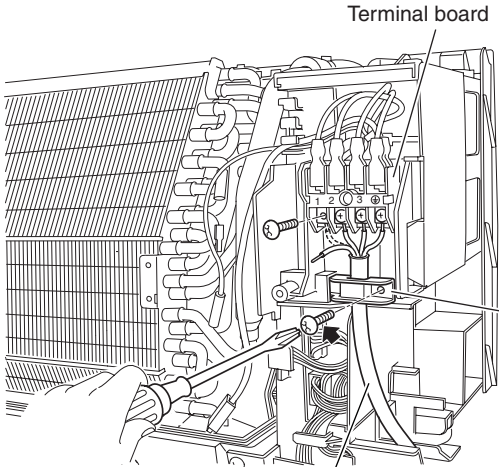
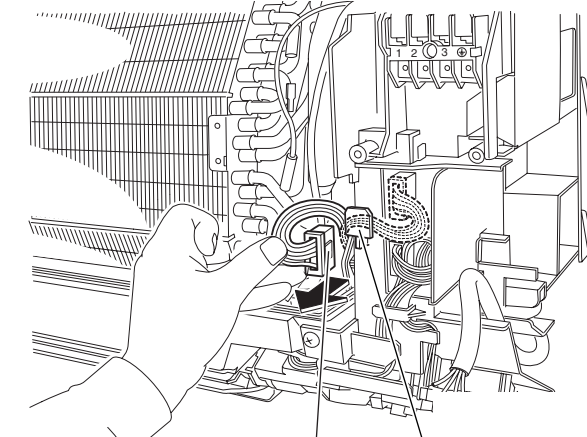
3. Electrical Box

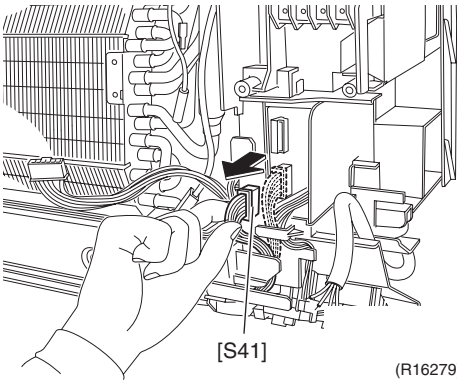
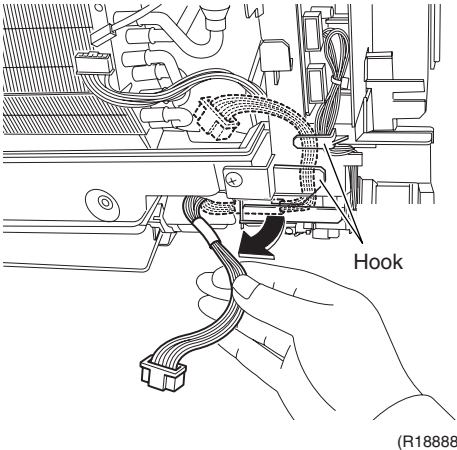
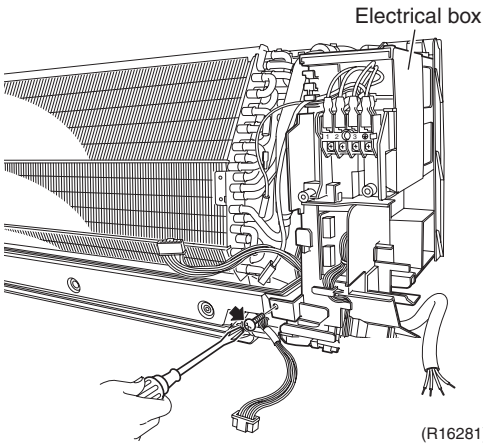
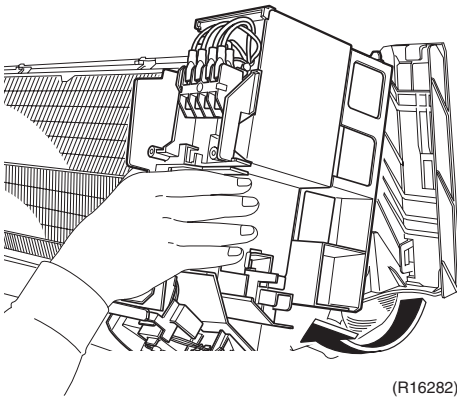
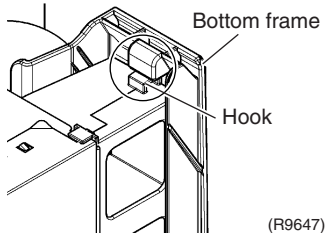


Warning

◆ 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.	<ul style="list-style-type: none"> ■ The shape of the drip proof plate varies by the model.
2	Remove the drip proof plate from the indoor heat exchanger.	
3	Cut the clamp.	<ul style="list-style-type: none"> ■ When reassembling, fit the hook to the indoor heat exchanger.
4	Pull out and release the earth / ground wire.	(R16274)
	 <p style="text-align: right;">Earth / ground wire (R19306)</p>	

Step	Procedure	Points
5	Pull out the indoor heat exchanger thermistor.	<ul style="list-style-type: none"> ■ The position of the indoor heat exchanger thermistor varies by the model. ■ Be careful not to lose the clip of the thermistor.
6	Remove the 4 screws on the terminal board and disconnect the connecting wire.	 <p>Clip (R11268)</p>
7	Remove the screw and remove the wire fixture.	 <p>Terminal board (R18885)</p> <p>Wire fixture (R18886)</p> <p>Connecting wire</p>
8	Disconnect the connector [S1] and release the harness from the hook.	[S1]: fan motor
	 <p>[S1] (R18887)</p> <p>Hook</p>	

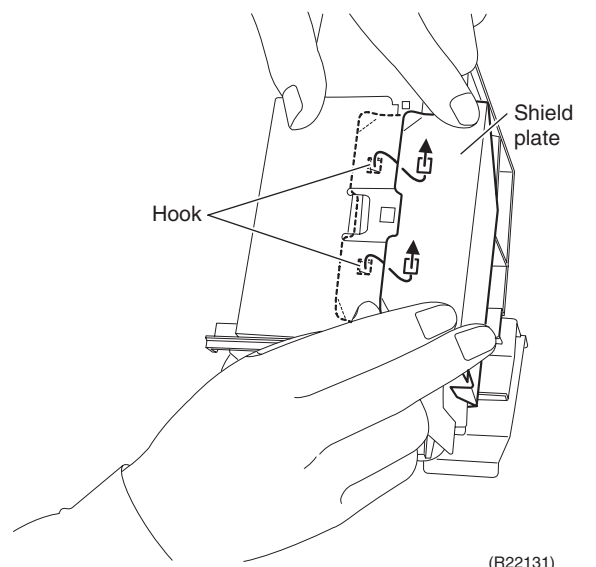
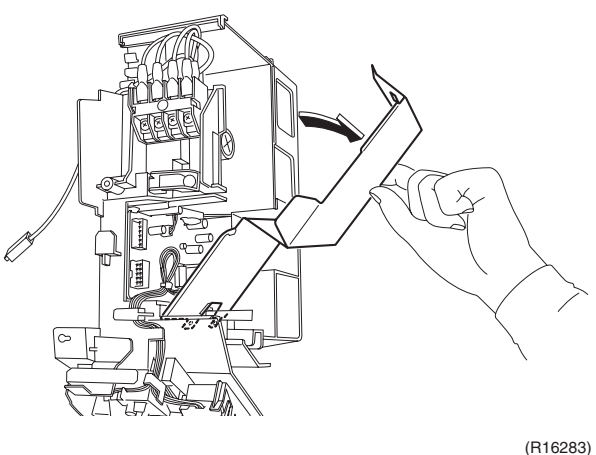
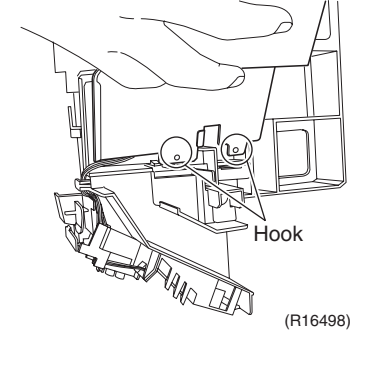
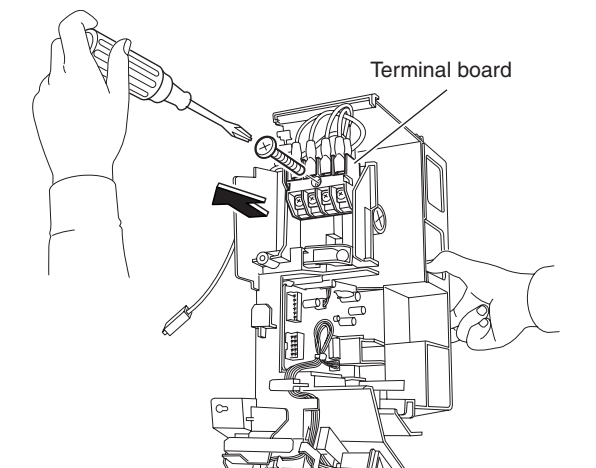
Step	Procedure	Points
9	Disconnect the connector [S41].	[S41]: swing motors
		
10	Release the harness from the hooks.	
		
11	Remove the screw of the electrical box.	
		
12	Lift up the electrical box from the bottom frame and remove it.	<p>■ Fit the back hook of the electrical box to the bottom frame when reassembling.</p>
		

4. PCBs

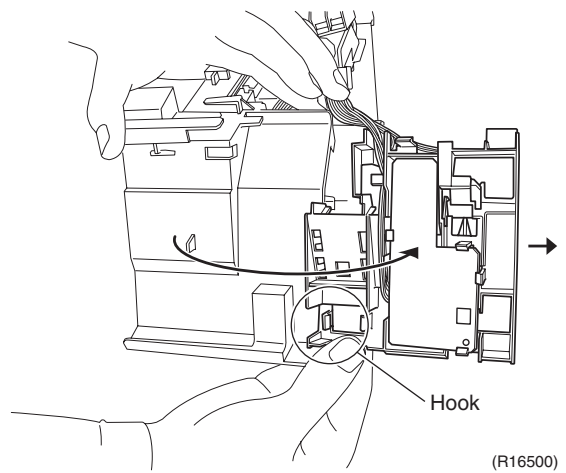
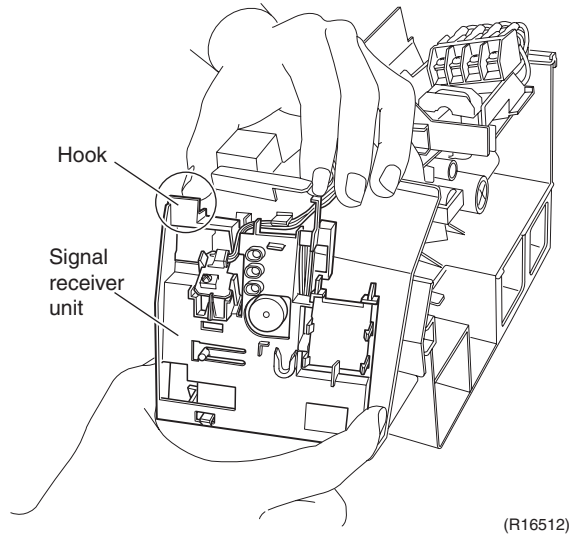
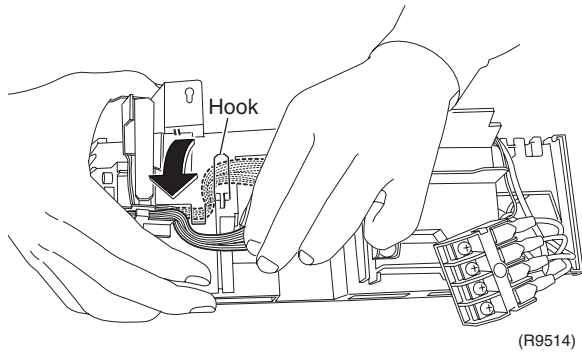
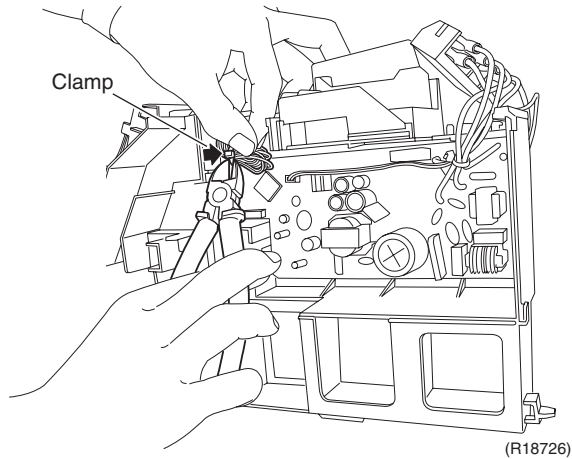


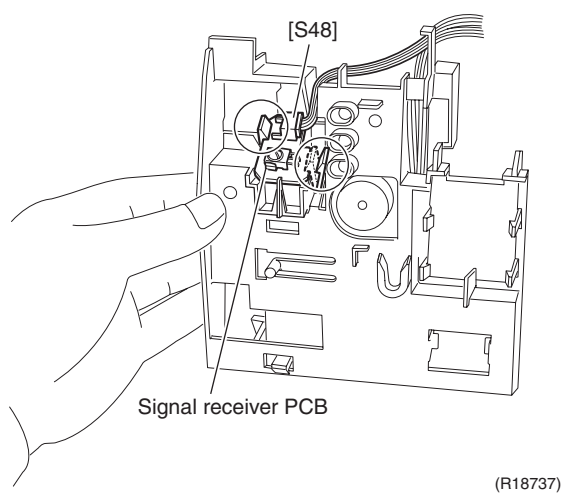
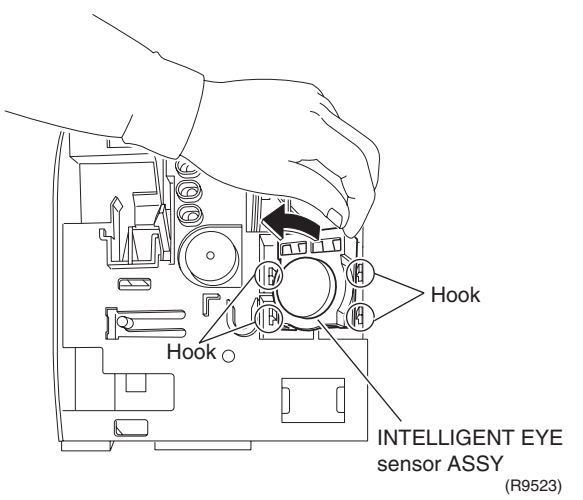
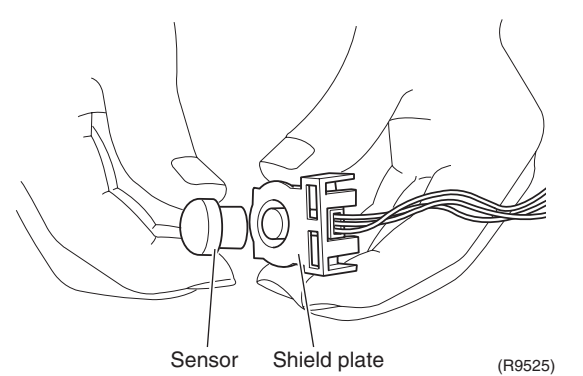
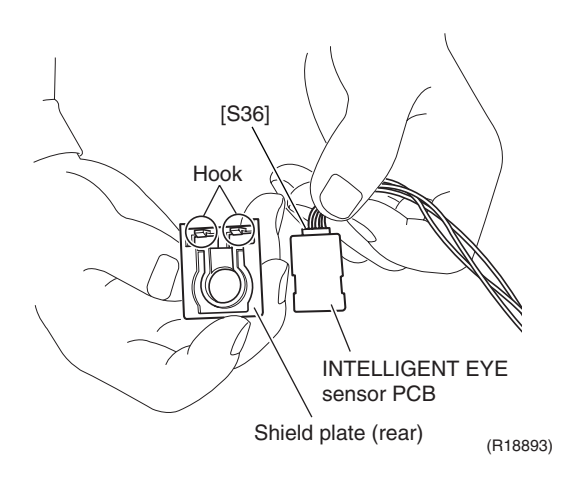
Warning

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Step	Procedure	Points
1. Remove the signal receiver PCB.	 <p>(R22131)</p>	
2. Open the shield plate and remove it.	 <p>(R16283)</p>	<ul style="list-style-type: none"> ■ The shield plate has 2 hooks at the lower part.  <p>(R16498)</p>
3. Remove the screw and remove the terminal board. (1 hook at the back)	 <p>(R18725)</p>	

Step	Procedure	Points
4	Cut the clamp.	
5	Release the harness from the hook.	<ul style="list-style-type: none"> ■ When reassembling, make sure to hook the harness.
6	Push and unfasten the hook of the signal receiver unit.	
7	Open the signal receiver unit.	
8	Unfasten the hook and remove the signal receiver unit.	



Step	Procedure	Points
<p>9 Unfasten the 2 hooks and remove the signal receiver PCB.</p> <p>10 Disconnect the connector [S48].</p>	 <p>[S48]</p> <p>Signal receiver PCB</p> <p>(R18737)</p>	<p>[S48]: to control PCB</p>
<p>2. Remove the INTELLIGENT EYE sensor PCB.</p>	 <p>Hook</p> <p>Hook</p> <p>INTELLIGENT EYE sensor ASSY</p> <p>(R9523)</p>	<ul style="list-style-type: none"> Some models have no INTELLIGENT EYE sensor PCB.
<p>1 Unfasten the 4 hooks and remove the INTELLIGENT EYE sensor ASSY.</p>	 <p>Sensor</p> <p>Shield plate</p> <p>(R9525)</p>	<ul style="list-style-type: none"> When reassembling, set the sensor at the position where it clicks. Otherwise, the sensor is not completely set.
<p>3 Remove the shield plate by unfastening the 2 hooks.</p>	 <p>[S36]</p> <p>Hook</p> <p>INTELLIGENT EYE sensor PCB</p> <p>Shield plate (rear)</p> <p>(R18893)</p>	<p>[S36]: to control PCB</p>
<p>4 Disconnect the connector [S36].</p>		
<p>5 Remove the INTELLIGENT EYE sensor PCB.</p>		

Step	Procedure	Points
<p>3. Remove the display PCB.</p> <p>1 Unfasten the 4 hooks and remove the display PCB.</p> <p>2 Release the harness from the hook.</p> <p>3 Disconnect the connector [S49].</p>		<p>[S49]: to control PCB</p>
<p>4. Remove the control PCB.</p> <p>1 Unfasten the 3 hooks and remove the control PCB.</p> <p>2 Pull out the earth / ground wire (yellow / green) from the terminal board.</p> <p>3 Pull out the 4 terminals from the terminal board.</p>		<p>■ When reassembling, make sure to connect the connectors as shown in the illustrations below.</p> <p>Type 1</p> <p>Red White Black Earth / ground (green)</p> <p>Earth / ground (yellow / green)</p> <p>FRONT</p> <p>(R22120)</p> <p>Type 2</p> <p>Black White Red Earth / ground (green)</p> <p>Earth / ground (yellow / green)</p> <p>FRONT</p> <p>(R22121)</p>

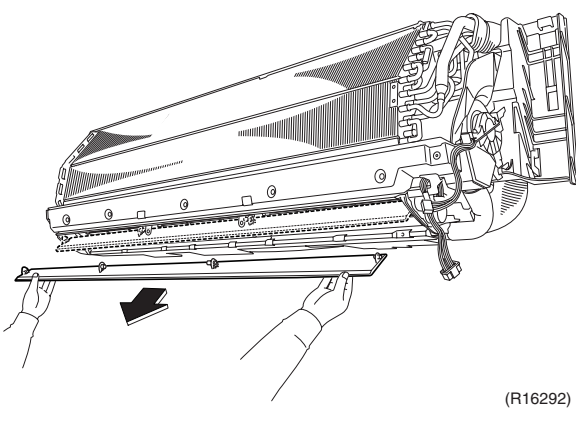
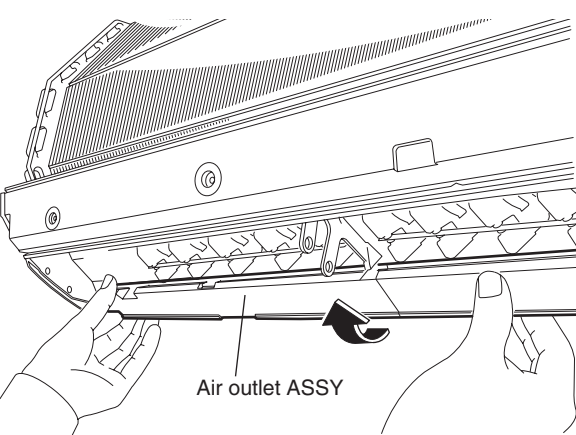
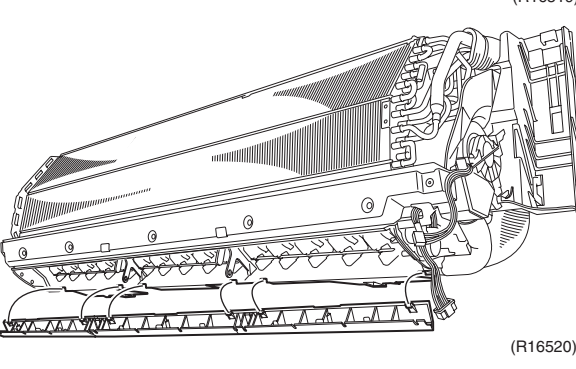
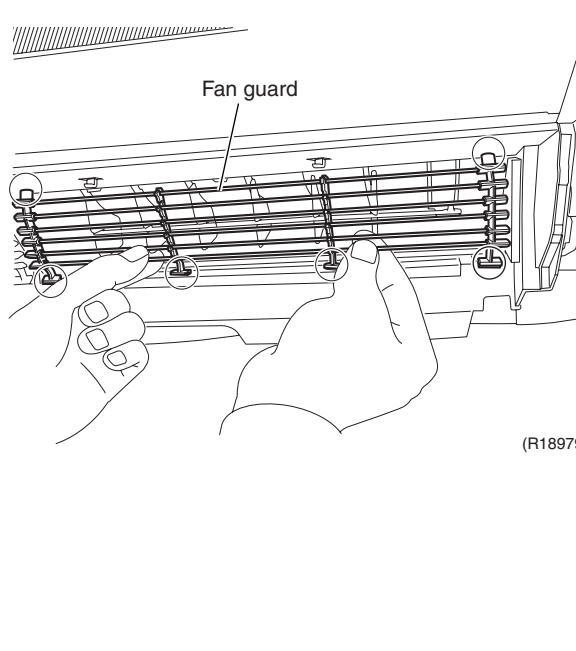
5. Horizontal Blades



Warning

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Step	Procedure	Points
1. Remove the horizontal blades.		
1 Release the left shaft of the horizontal blade (large).	<p>(R16515)</p>	
2 Release the inner right shaft.	<p>(R16516)</p>	
3 Release the inner left shaft.	<p>(R16517)</p>	
4 Release the right shaft.	<p>(R19305)</p>	

Step	Procedure	Points
<p>5 Remove the horizontal blade (large).</p> <p>6 Remove the other horizontal blade (small) in the same way.</p>	 <p>(R16292)</p>	
<p>2. Remove the air outlet ASSYs.</p>	 <p>Air outlet ASSY</p> <p>(R16519)</p>  <p>(R16520)</p>	<ul style="list-style-type: none"> ■ The 3 air outlet ASSYs are bound with sealing materials.
<p>3. Remove the fan guards.</p>	 <p>Fan guard</p> <p>(R18979)</p>	<ul style="list-style-type: none"> ■ Remove the other 2 fan guards likewise. ■ Some models have no fan guard.

6. Swing Motors



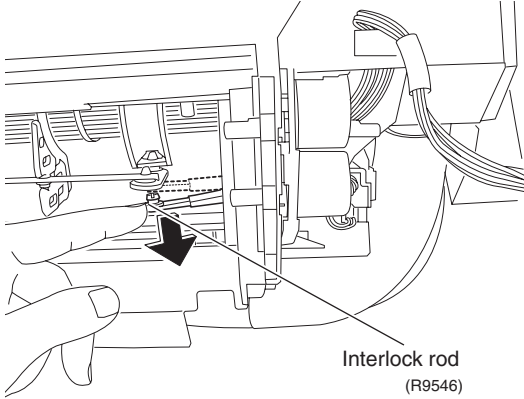
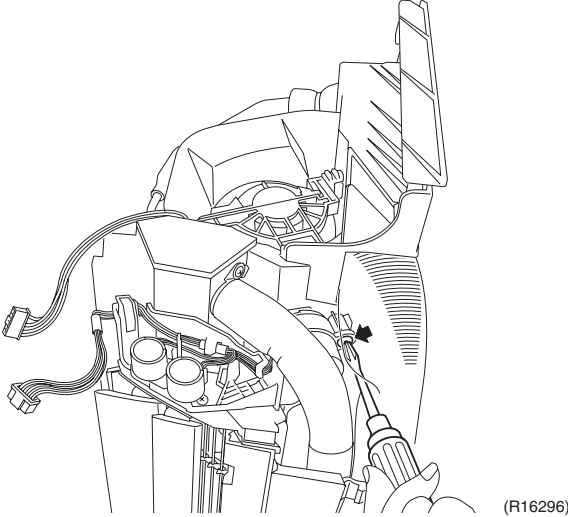
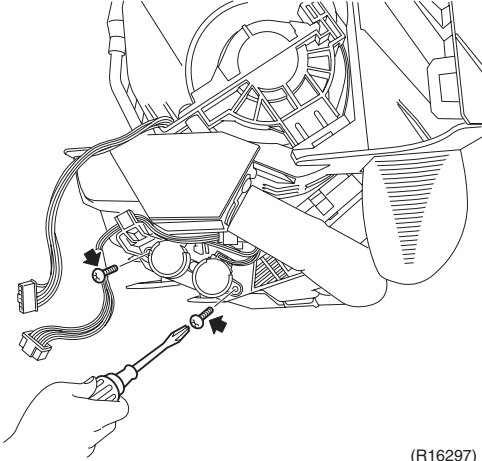
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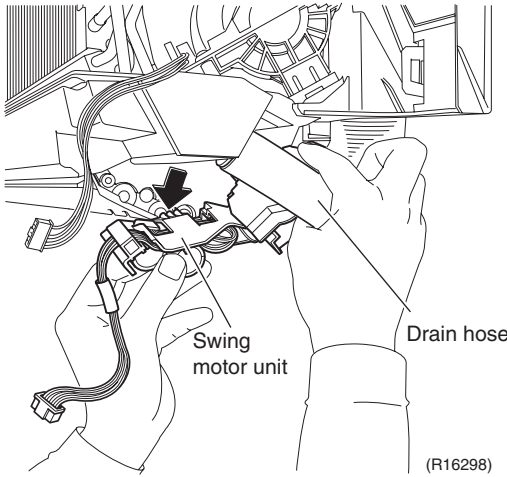
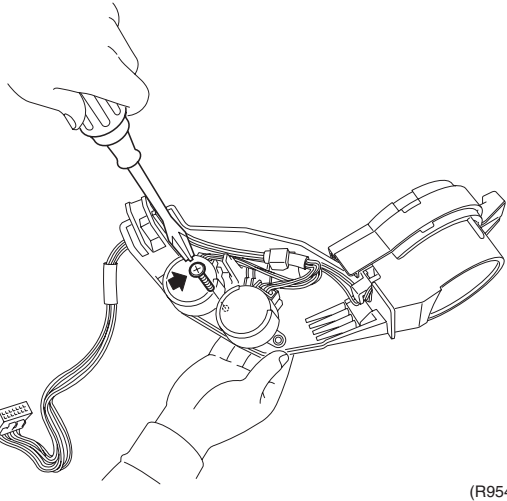
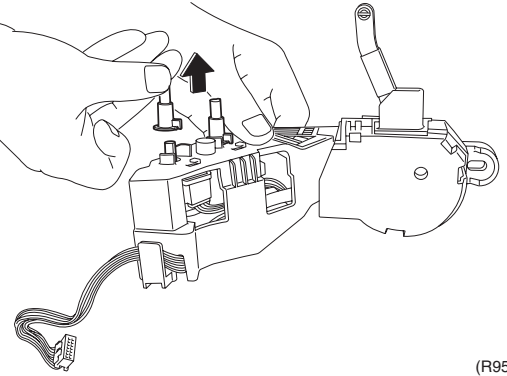
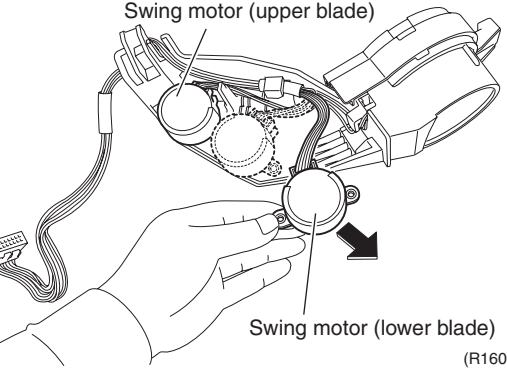
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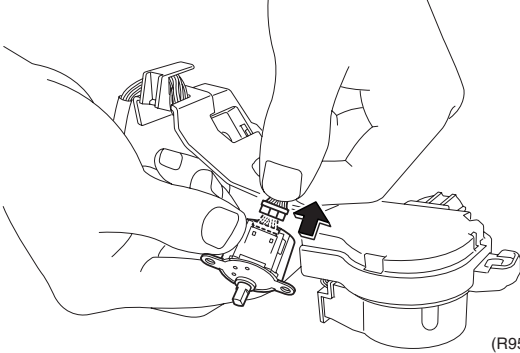
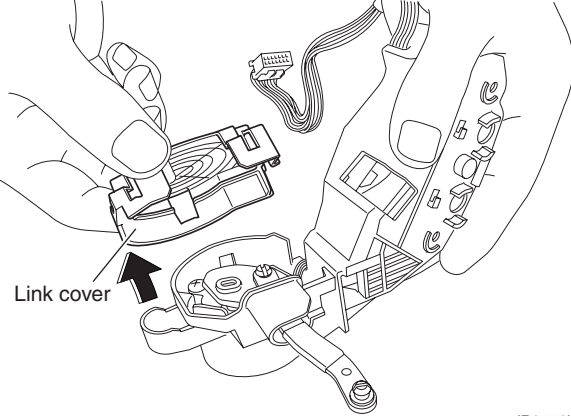
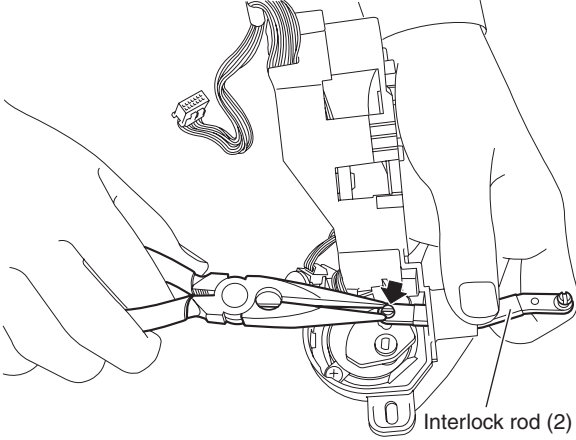
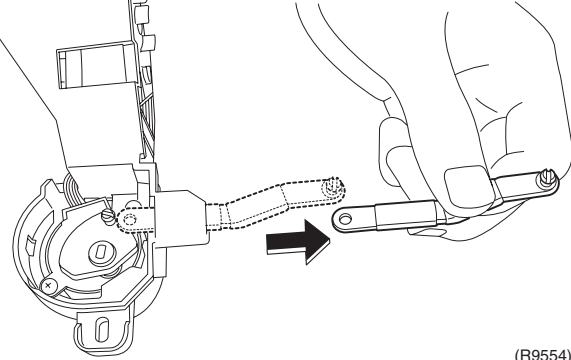


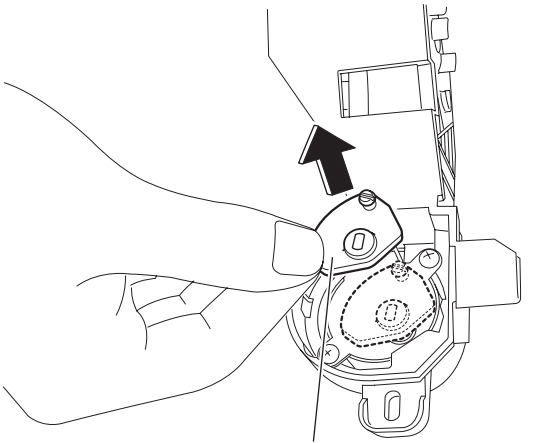
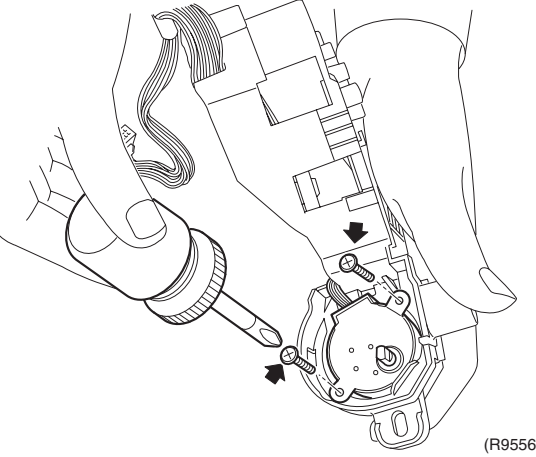
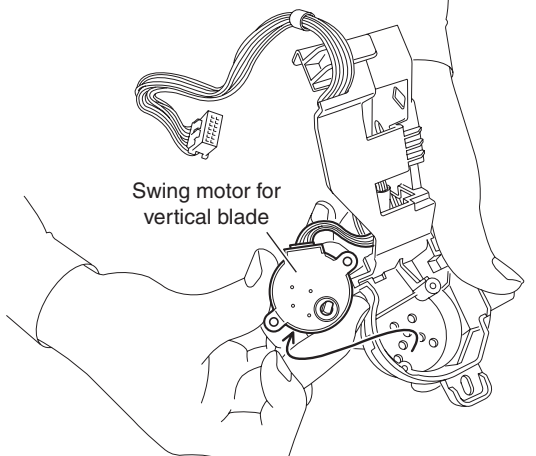
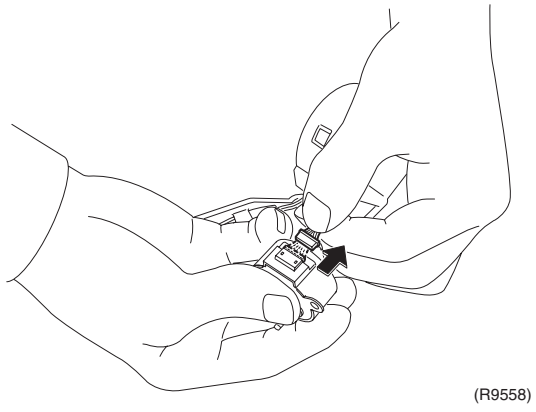
Caution

- ◆ 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 motors for horizontal blades.	
1	Release the interlock rod. 	
2	Remove the screw at the rear of the indoor unit. 	
3	Remove the 2 screws (front and rear). 	

Step	Procedure	Points
4	Pull out the drain hose, then remove the swing motor unit.	
		
5	Remove the screw at the center.	
		
6	Remove the 2 pivots.	
		
7	Remove the swing motors.	
		<p>■ Reassembling order</p> <ol style="list-style-type: none"> (1) Set the swing motor for the upper blade first. (connector: white) (2) Then, set the swing motor for the lower blade. (connector: red) (3) Fix both swing motors with a screw.

Step	Procedure	Points
8	Disconnect the connector to remove the swing motor.	 <p>(R9551)</p>
2. Remove the swing motor for vertical blades.	<div data-bbox="153 719 172 741">1</div> <div data-bbox="197 719 475 748">Remove the link cover.</div>  <p>Link cover</p> <p>(R9552)</p> <div data-bbox="153 1122 172 1144">2</div> <div data-bbox="197 1122 475 1182">Remove the interlock rod (2) with pliers.</div>  <p>Interlock rod (2)</p> <p>(R9553)</p>  <p>(R9554)</p>	

Step	Procedure	Points
3	Remove the interlock rod (1).	
	 <p data-bbox="783 663 1050 696">Interlock rod (1) (R9555)</p>	
4	Remove the 2 screws.	
	 <p data-bbox="995 1160 1050 1182">(R9556)</p>	
5	Remove the swing motor for the vertical blade.	
	 <p data-bbox="644 1391 783 1442">Swing motor for vertical blade</p> <p data-bbox="995 1668 1050 1691">(R9557)</p>	
6	Disconnect the connector.	
	 <p data-bbox="995 2094 1050 2116">(R9558)</p>	

7. Indoor Heat Exchanger



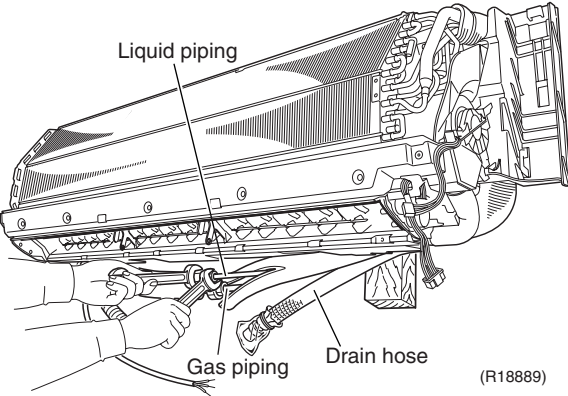
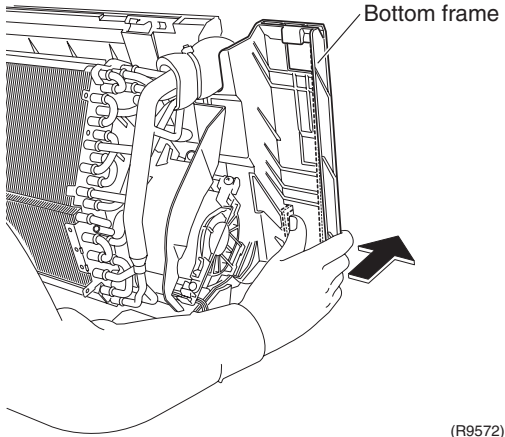
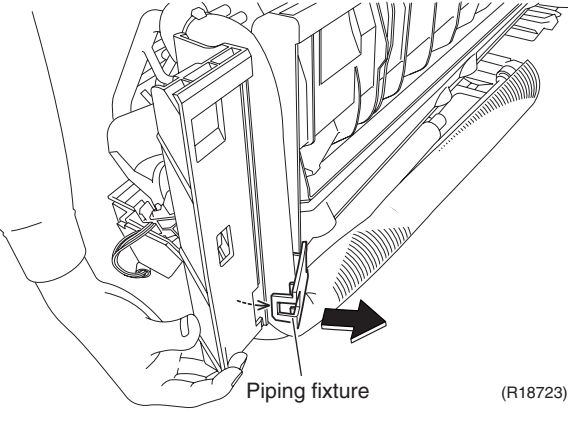
Warning

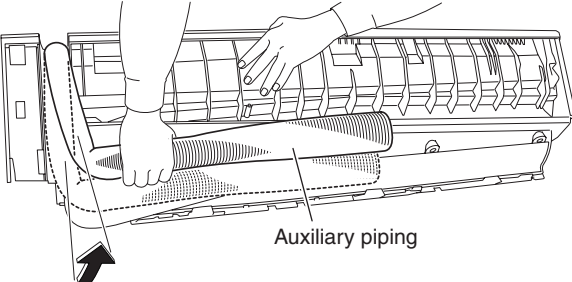
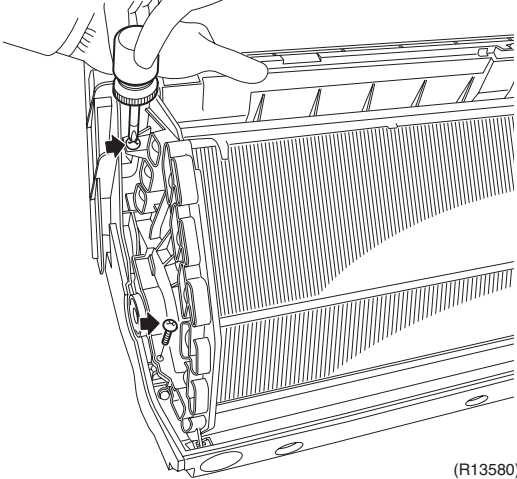
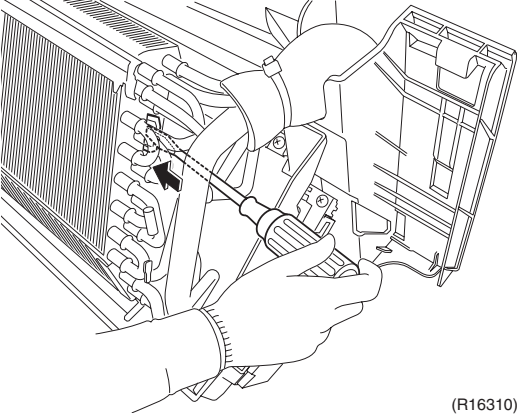
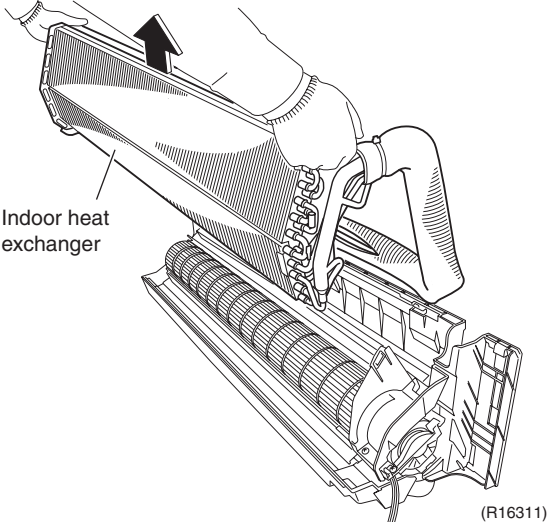
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.
- ◆ In pump-down work, be sure to stop the compressor before disconnecting the refrigerant pipe. If the refrigerant pipe is disconnected with the compressor operating and the stop valve open, air 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	Procedure	Points
1	Pull out the drain hose.		<ul style="list-style-type: none"> ■ Hold the indoor unit up with a piece of wood. ■ 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	Unscrew the flare nuts for gas piping and liquid piping.		<ul style="list-style-type: none"> ■ Carry out the removal works with 2 wrenches.
3	Detach the indoor unit from the installation plate.		<ul style="list-style-type: none"> ■ When the pipings are disconnected, protect both the openings of pipe and unit from entering of moisture.
4	Push the bottom frame.		
5	Release the piping fixture and remove it.		

Step	Procedure	Points
6	Slightly widen the auxiliary piping.	
	 <p>Auxiliary piping</p> <p>(R22046)</p>	
7	Remove the 2 screws on the left side.	
	 <p>(R13580)</p>	
8	Push the hook on the right side and unfasten it.	
	 <p>(R16310)</p>	
9	Lift up and remove the indoor heat exchanger.	
	 <p>Indoor heat exchanger</p> <p>(R16311)</p>	

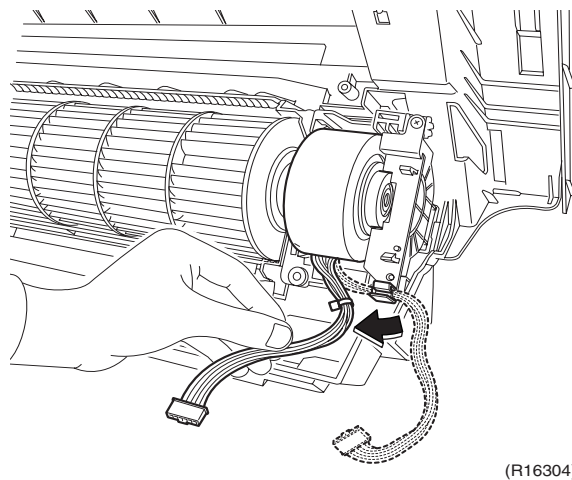
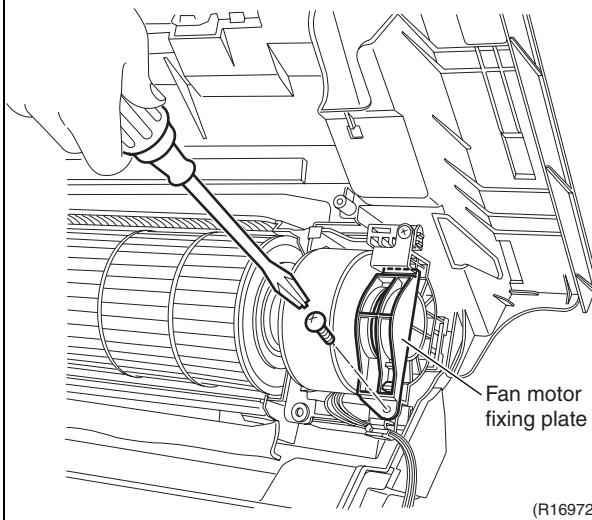
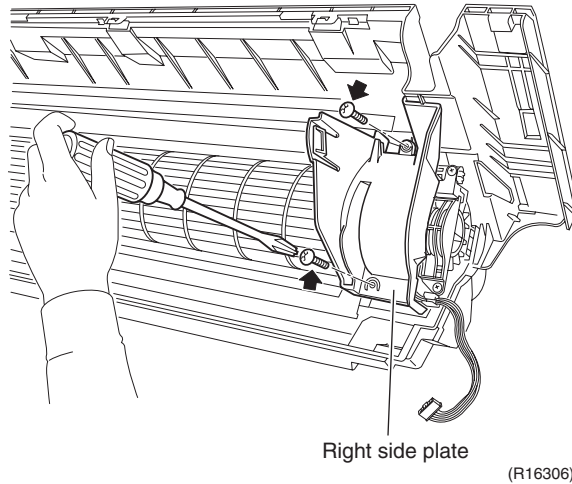
8. Fan Motor / Fan Rotor

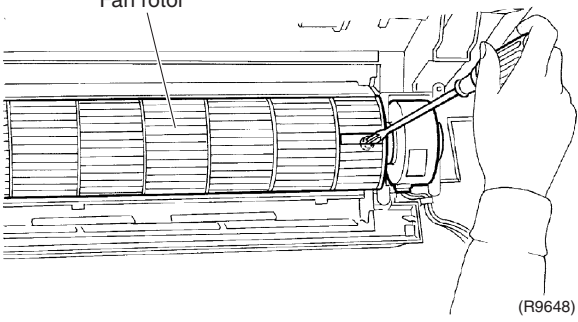
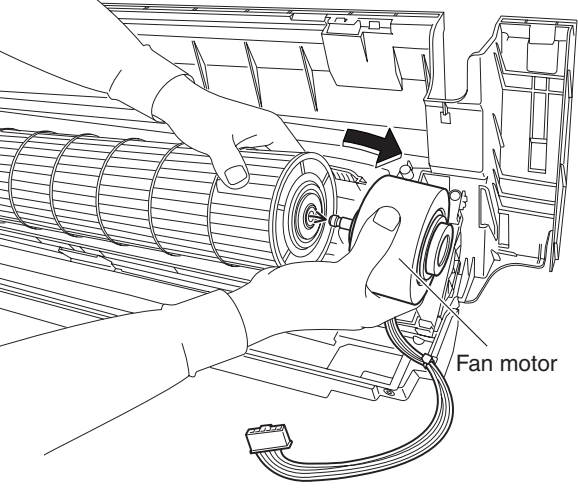
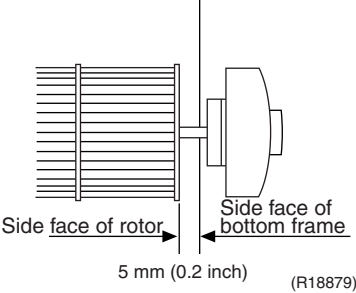
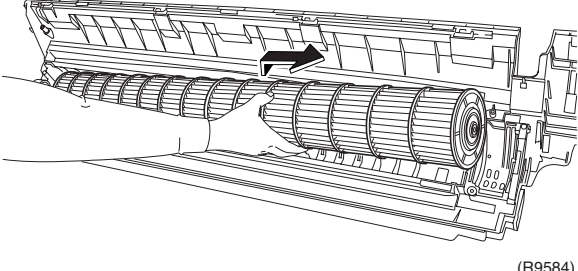
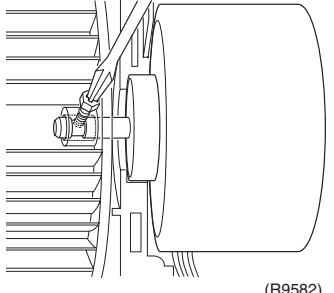


Warning

- ◆ 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 of the fan motor fixing plate and remove it.	
3	Release the fan motor harness from the hook.	



Step		Procedure	Points
4	Loosen the screw of the fan rotor.	 <p>(R9648)</p>	
5	Remove the fan motor.	 <p>(R16305)</p>	<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>  <p>(R18879)</p>
6	Remove the fan rotor.	 <p>(R9584)</p>  <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 turn the screw in one scroll. (3) Move 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).

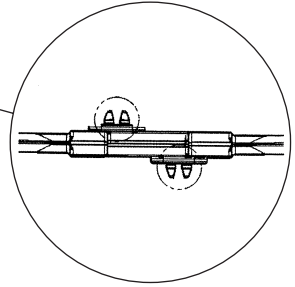
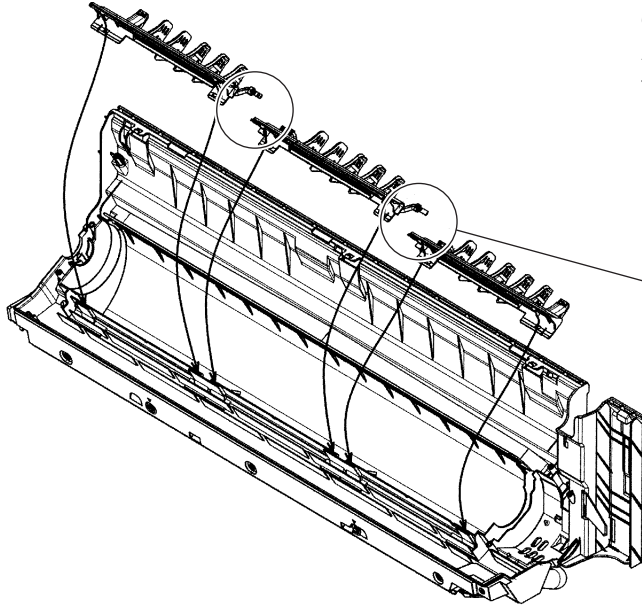
9. Vertical Blade ASSYs



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 2 hooks of each vertical blade ASSY.	<ul style="list-style-type: none"> ■ When reassembling, connect the 3 vertical blade ASSYs. Fasten the hooks at the connecting points.
2	Remove the 3 vertical blade ASSYs.	<p data-bbox="1114 1003 1182 1025">(R16504)</p> <ul style="list-style-type: none"> ■ Each vertical blade ASSY is united with a drain pan ASSY.



(R16504)

- Each vertical blade ASSY is united with a drain pan ASSY.

Revision History

Month / Year	Version	Revised contents
04 / 2013	Si041351	First edition
08 / 2013	Si041351EA	Model addition: FTN60JV1G
02 / 2014	Si041351EB	Model addition: FTKS50/60JVMG9, FTN60JV1G9
06 / 2014	Si041351EC	Model addition: FTKM18/24NV2S
06 / 2015	Si041351ED	Model addition: CTKM28PV2S, CTKM71PV14, FTKM28NV2S, FTKM71PVM, FTKM50/60/71PVMA, FTKM18/24PVMK, FTKV71NVM, FTKV71NVM4, FTKV71NVMM, FTKV71NVMV, ATM24MV2S, FTM60JV14, FTM60KV1V, FTM24NV2S, CTXM71PVL, FTXM41/50/63NVL, FTXM50/60/71PVMA, FTXM18/24PVMK, FTXV50/63/71NVL

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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