




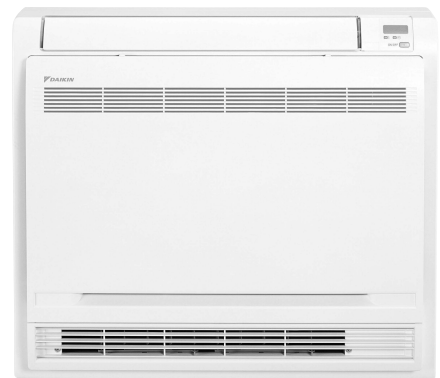
REMOVAL PROCEDURE



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

1.5/2.0 kW Class

-  Indoor Unit
-  Fan Coil Unit: Convactor
-  Floor Standing Type



Service Manual Removal Procedure

Indoor Unit

●Heat Pump
FWXV15AVEB
FWXV20AVEB

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Note:

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

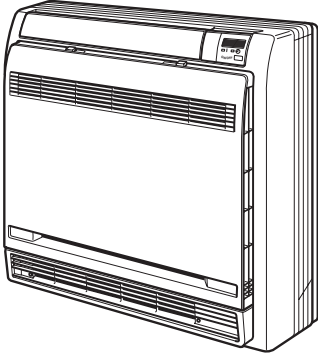
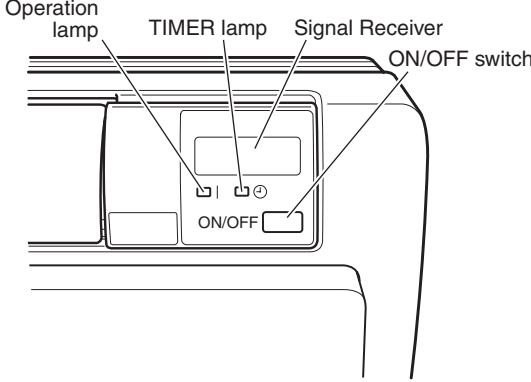
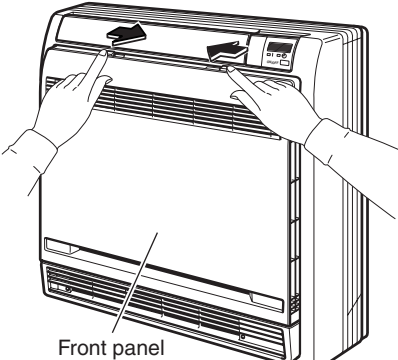
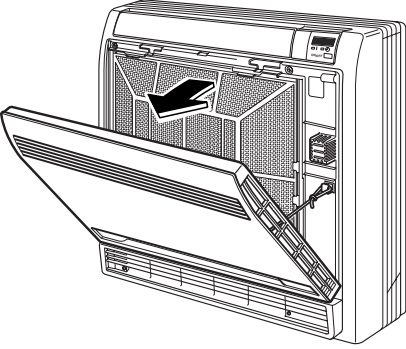
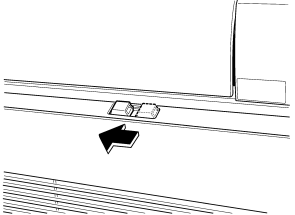
1. Removal of Air Filter / Front Panel / Front Grille

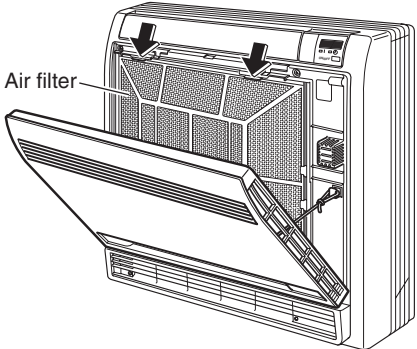
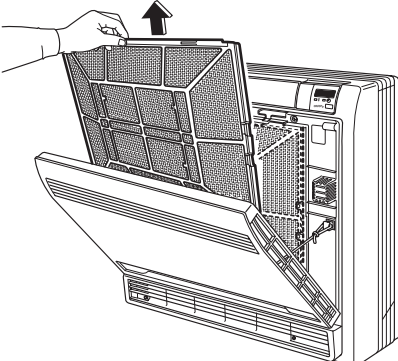
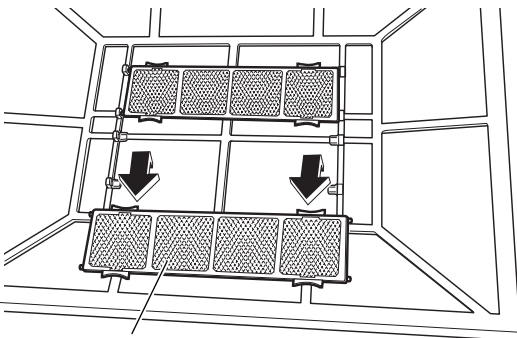
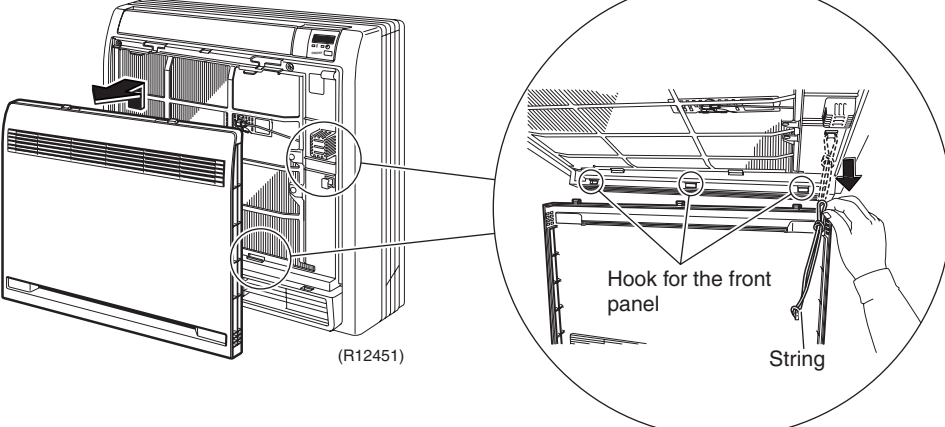
Procedure



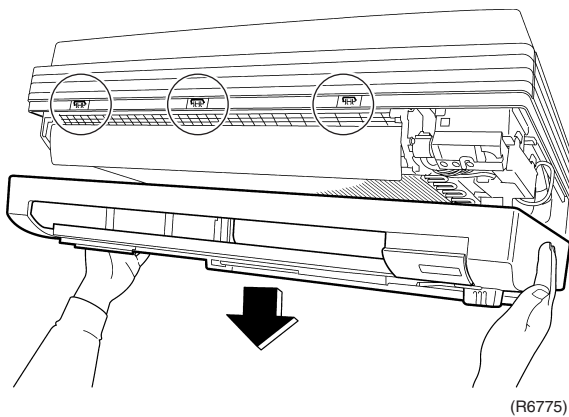
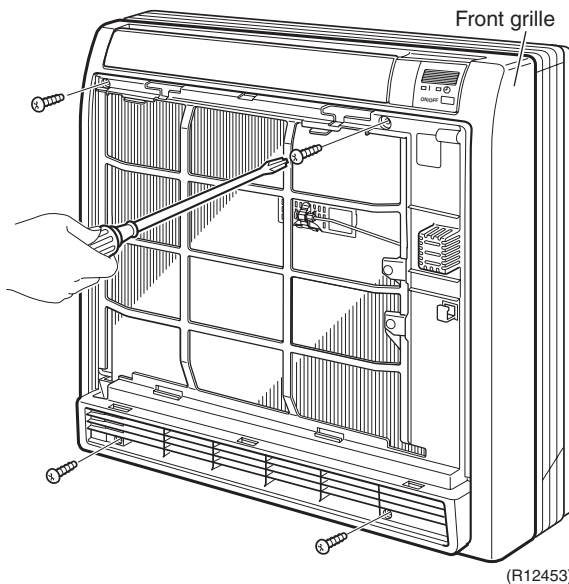
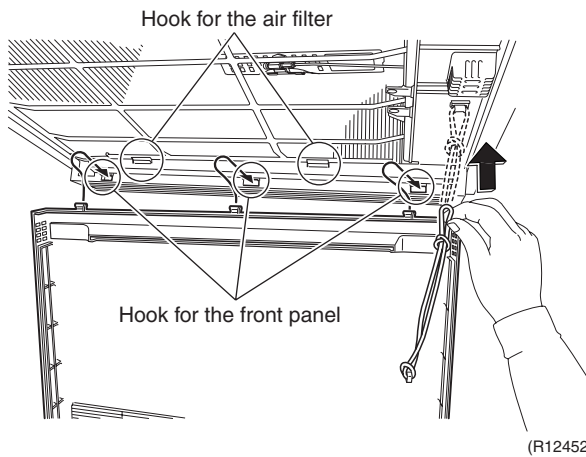
Warning

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

Step	Procedure	Points
<p>1. External appearance</p>	 <p>(R12437)</p>  <p>(R12438)</p>	
<p>2. Remove the front panel.</p> <p>1 Unfasten the 2 hooks on the top of the front panel.</p> <p>2 Open the front panel.</p>	 <p>Front panel</p> <p>(R12446)</p>  <p>(R12447)</p>	 <p>(R6768)</p> <ul style="list-style-type: none"> ■ Slide the right and the left hooks to the center.

Step		Procedure	Points
3	Press and unfasten the 2 hooks of the air filter.	 <p>Air filter</p> <p>(R12448)</p>	
4	Pull out the air filter.	 <p>(R12449)</p>	
5	Remove the Titanium apatite photocatalytic air-purifying filter ASSY.	 <p>Titanium apatite photocatalytic air-purifying filter ASSY</p> <p>(R12450)</p>	<ul style="list-style-type: none"> ■ The Titanium apatite photocatalytic air-purifying filter ASSY is attached to the back of the air filter.
6	Release the string from the hook. Lift up the front panel to unfasten the 3 hooks at the bottom and then remove the front panel.	 <p>(R12451)</p> <p>Hook for the front panel</p> <p>String</p>	

Step	Procedure	Points
7	Remove the 4 screws from the front grille.	<ul style="list-style-type: none"> ■ When installing the air filter, catch the 2 hooks at the bottom. When installing the front panel, catch the 3 hooks of the front grille and hook the string to prevent the front panel from dropping.
8	Pull out the front grille and remove it.	<ul style="list-style-type: none"> ■ Open the horizontal blade to remove the front grille smoothly. ■ There are 3 hooks on the top of the main unit.

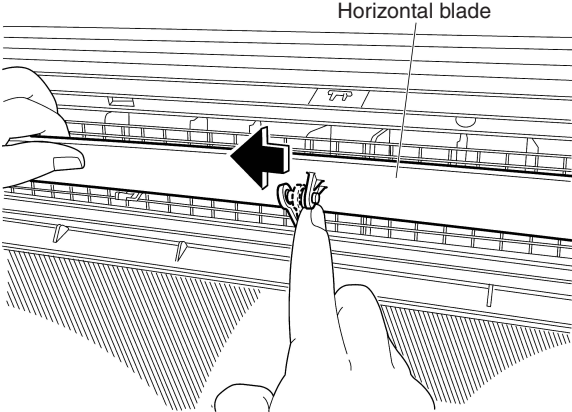
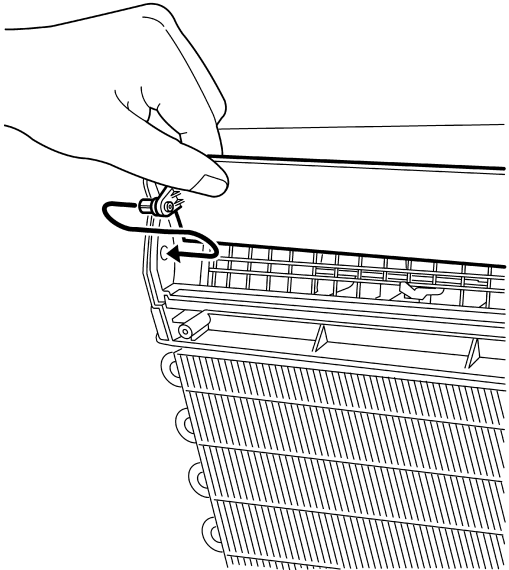
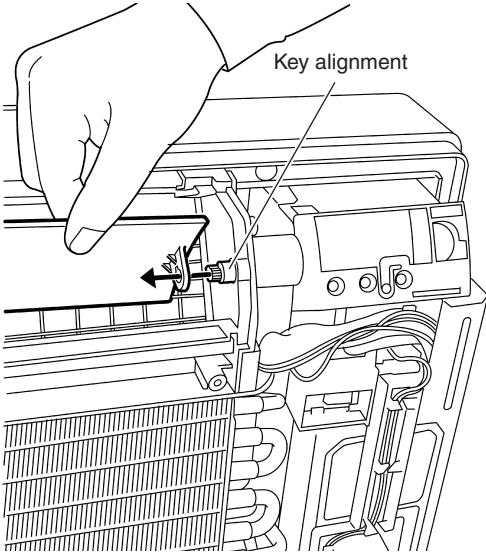


2. Removal of Horizontal Blade

Procedure



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Step	Procedure	Points
1 Open the horizontal blade. 2 Release the center shaft.	 <p style="text-align: right;">(R6778)</p>	
3 Bend the horizontal blade to release the right and the left shafts and remove the horizontal blade.	 <p style="text-align: right;">(R6779)</p>  <p style="text-align: right;">(R6780)</p>	<ul style="list-style-type: none"> ■ Release the left shaft first and then release the right shaft from the key alignment.

3. Removal of Main Electrical Box / Sub Electrical Box

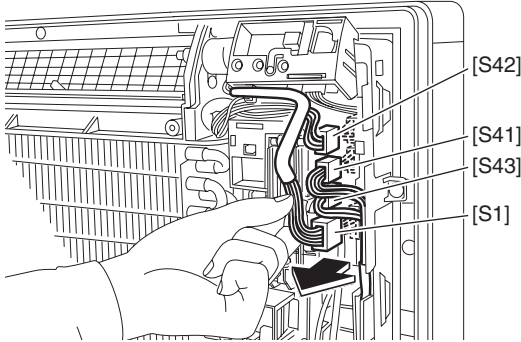
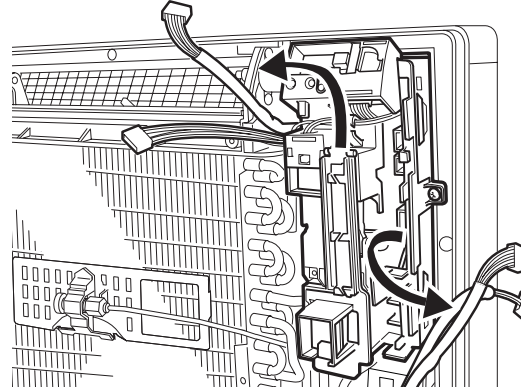
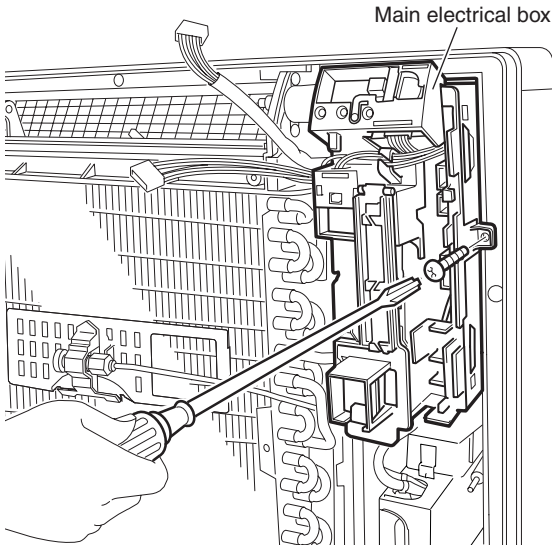
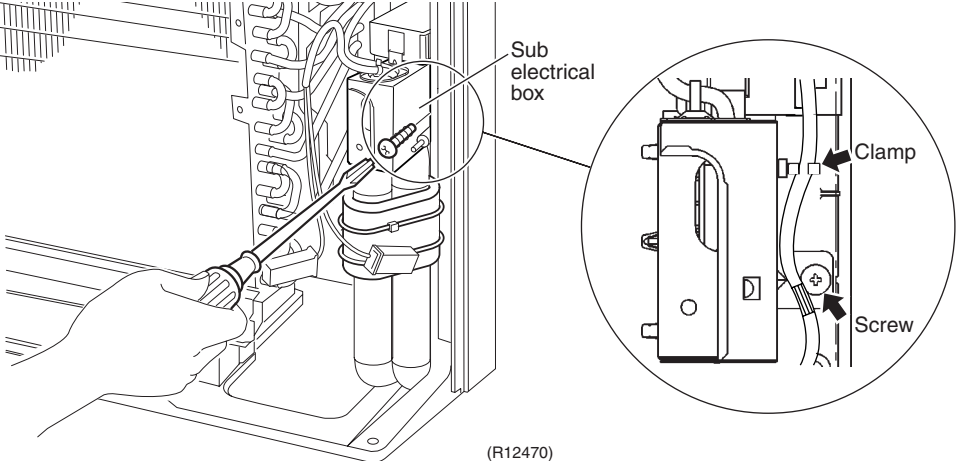
Procedure

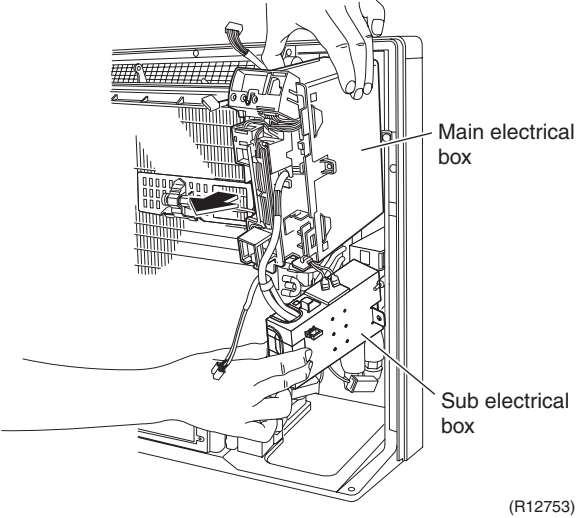
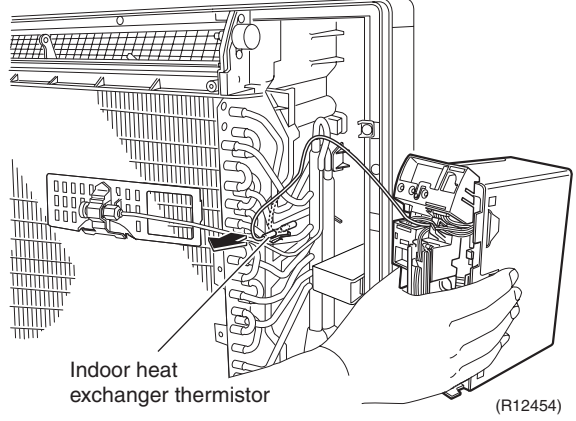


Warning

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Step	Procedure	Points
<p>1 Remove the 2 earth screws.</p> <p>2 Unfasten the hook and open the sensor PCB fixing plate.</p>	<p style="text-align: right;">(R12439)</p>	
<p>3 Remove the front shield plate.</p>	<p style="text-align: right;">(R12440)</p>	
<p>4 Remove the 1 screw of the wiring fixture and remove the 4 screws of the connection wires.</p>	<p style="text-align: right;">(R12441)</p>	
<p>5 Remove the screw and remove the terminal board.</p>	<p style="text-align: right;">(R12442)</p>	

Step	Procedure	Procedure	Points
6	Disconnect the connectors [S1] [S41] [S42].	 <p>(R12460)</p>	<ul style="list-style-type: none"> ■ [S1]: fan motor [S41]: lower air outlet motor [S42]: swing motor [S43]: Sub PCB
7	Release the harnesses.	 <p>(R12461)</p>	
8	Remove the screw of the main electrical box.	 <p>Main electrical box</p> <p>(R12462)</p>	<ul style="list-style-type: none"> ■ The sub electrical box is screwed to the bottom frame at the back.
9	Release the wiring from the clamp. Remove the screw of the sub electrical box.	 <p>Sub electrical box</p> <p>Clamp</p> <p>Screw</p> <p>(R12470)</p>	

Step	Procedure	Points
10	Remove the main electrical box and the sub electrical box.	
	 <p style="text-align: right;">(R12753)</p>	
11	Pull out the indoor heat exchanger thermistor.	
	 <p style="text-align: right;">(R12454)</p>	

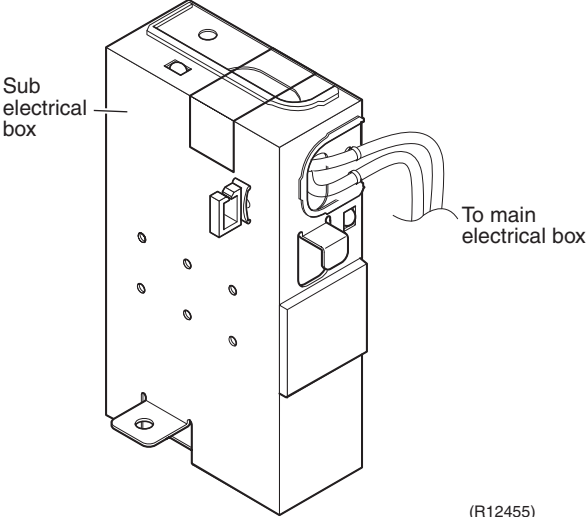
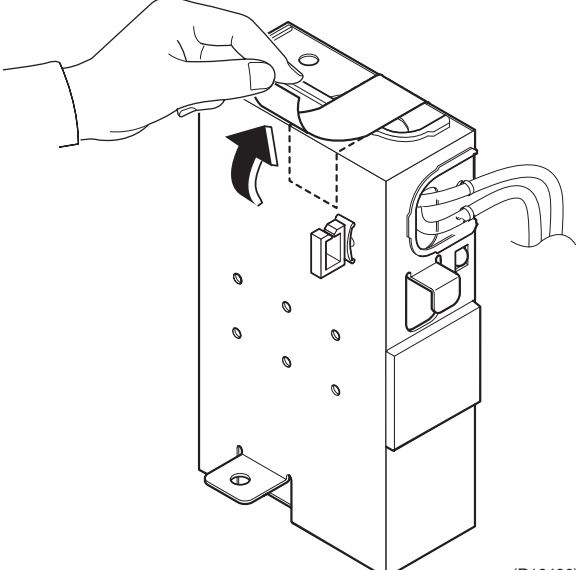
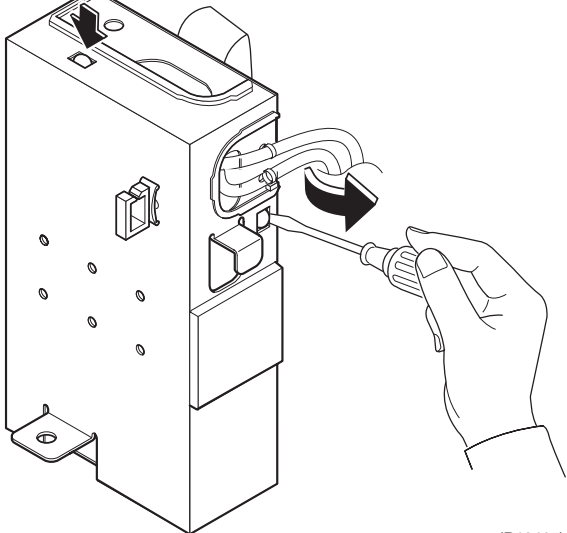
4. Removal of PCB from Sub Electrical Box

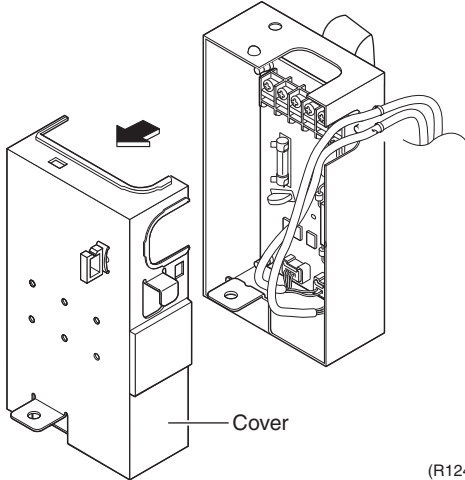
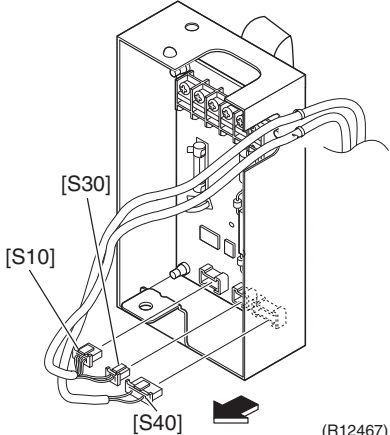
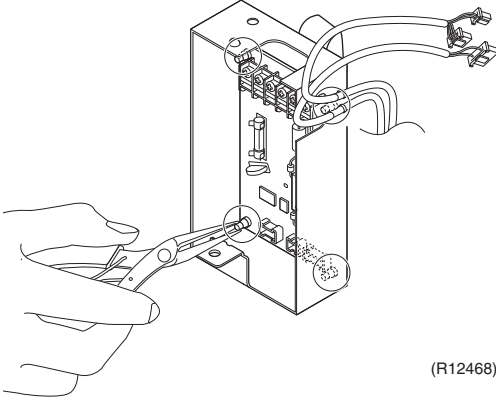
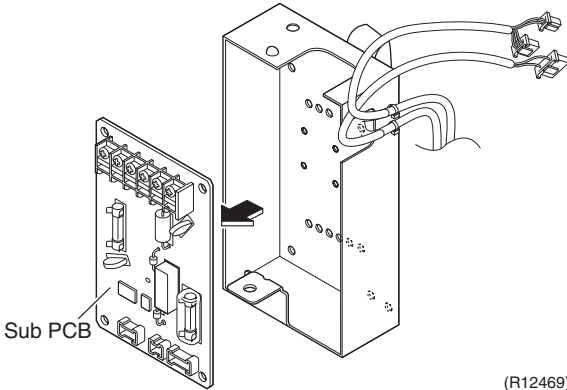
Procedure



Warning

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Step		Procedure	Points
1	External appearance of the sub electrical box.	 <p>(R12455)</p>	
2	Peel the tape.	 <p>(R12486)</p>	
3	Unfasten the 2 hooks.	 <p>(R12465)</p>	

Step	Procedure	Points
4	<p>Open the cover.</p>  <p style="text-align: right;">(R12466)</p>	
5	<p>Disconnect the connectors [S10] [S30] [S40].</p>  <p style="text-align: right;">(R12467)</p>	<p>■ [S10] [S30]: control PCB [S40]: terminal board</p>
6	<p>Detach the 4 spacer with pliers.</p>  <p style="text-align: right;">(R12468)</p>	
7	<p>Remove the sub PCB.</p>  <p style="text-align: right;">(R12469)</p>	

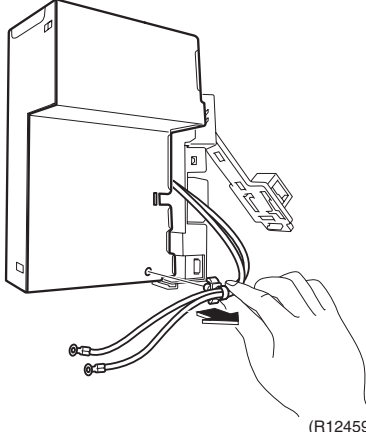
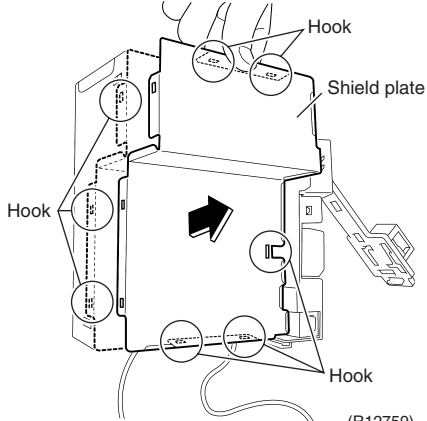
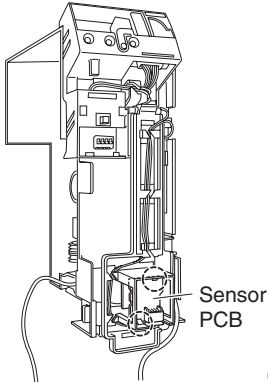
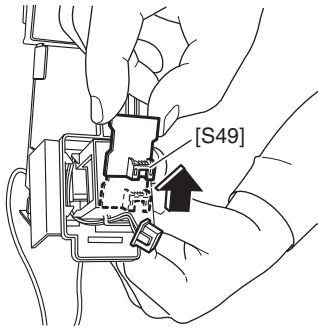
5. Removal of PCB from Main Electrical Box

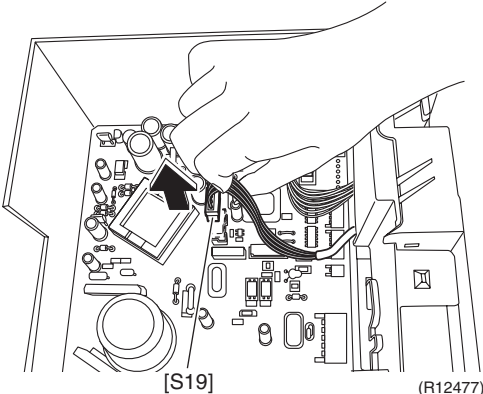
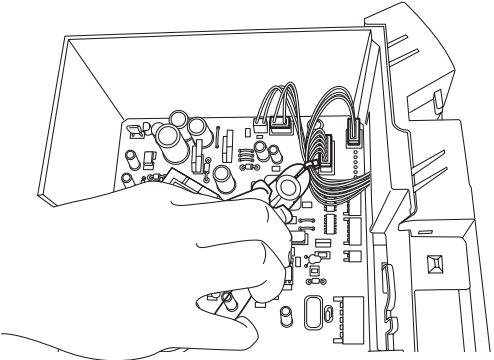
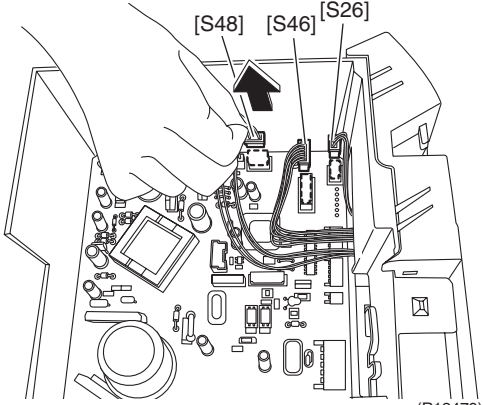
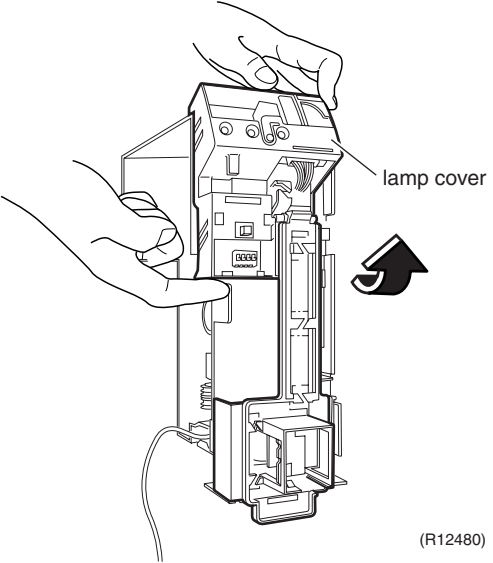
Procedure

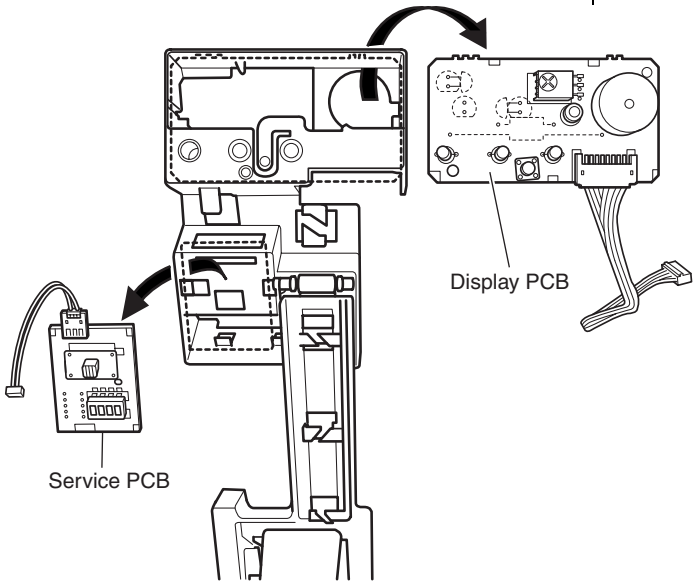
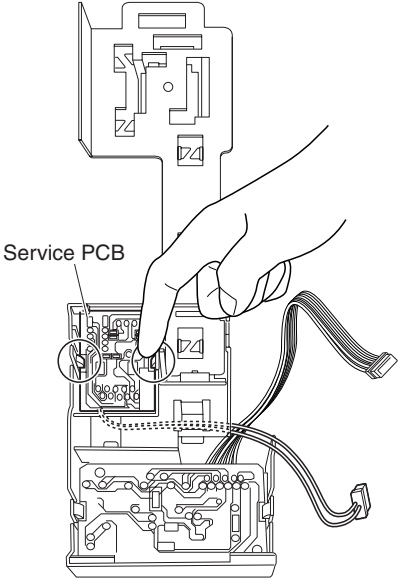
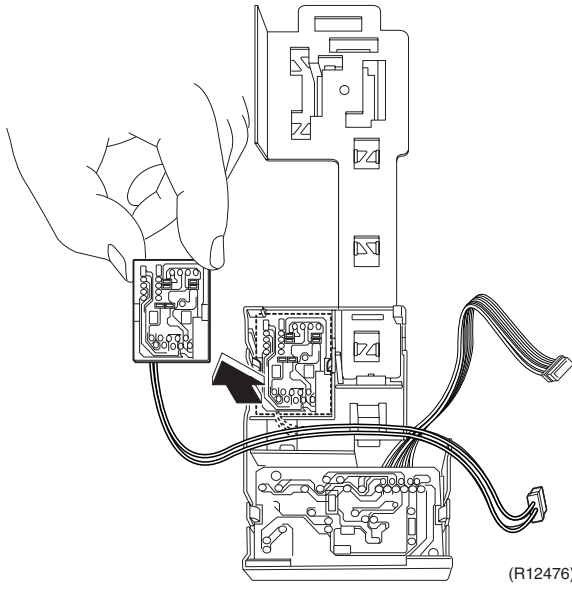


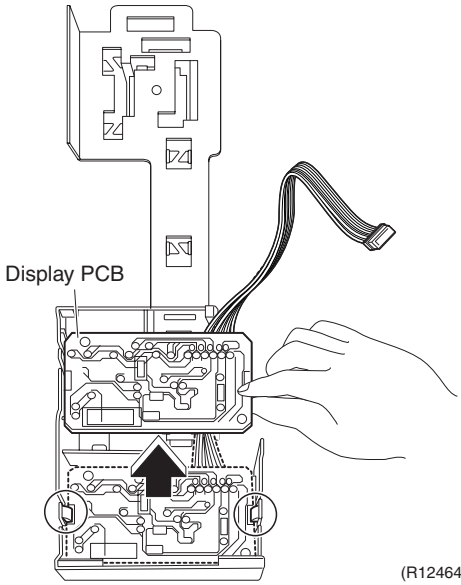
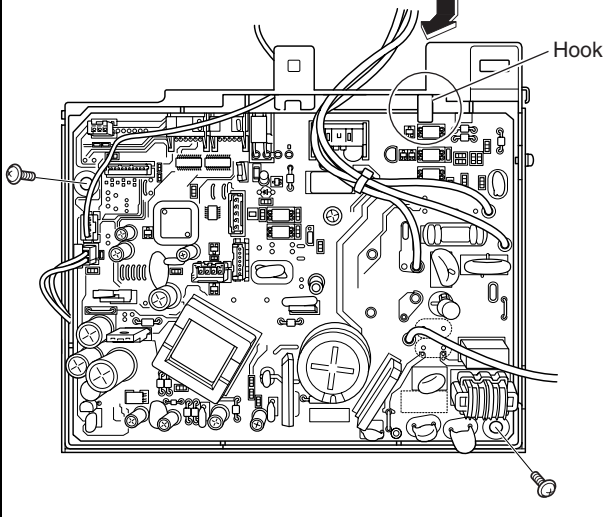
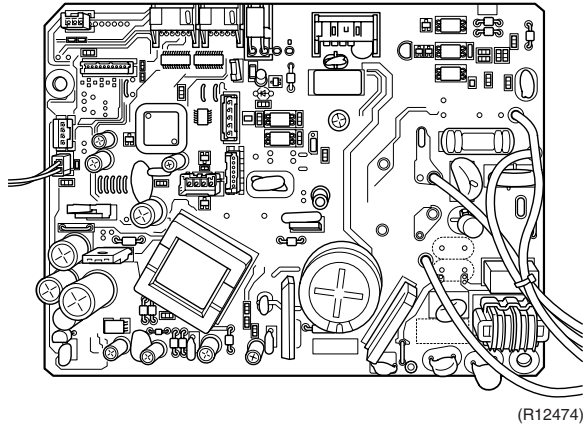
Warning

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Step	Procedure	Points
1. Remove the shield plate. 1 Pull out the clamp. 2 Unfasten the 8 hooks and remove the shield plate.	 <p style="text-align: right;">(R12459)</p>  <p style="text-align: right;">(R12759)</p>	
2. Remove the PCBs. 1 Unfasten the 2 hooks of the sensor PCB. 2 Disconnect the connector [S49] and remove the sensor PCB.	 <p style="text-align: right;">(R12456)</p>  <p style="text-align: right;">(R12457)</p>	<p>■ [S49]: control PCB</p>

Step	Procedure	Points
3	<p>Disconnect the connector [S19].</p> 	<ul style="list-style-type: none"> ■ [S19]: sub PCB
4	<p>Cut the clamp.</p> 	
5	<p>Disconnect the connectors [S26] [S46] [S48].</p> 	<ul style="list-style-type: none"> ■ [S26]: service PCB [S46]: display PCB [S48]: sensor PCB
6	<p>Open and remove the lamp cover.</p> 	

Step	Procedure	Points
7	<p>The figure shows the layout of the service PCB and the display PCB. They are positioned at the back of the lamp cover.</p>  <p>Service PCB</p> <p>Display PCB</p>	
8	<p>Unfasten the 2 hooks of the service PCB.</p>  <p>Service PCB</p>	(R12471)
9	<p>Remove the service PCB.</p> 	(R12476)

Step	Procedure	Points
10	<p>Unfasten the 2 hooks and remove the display PCB.</p>	 <p>Display PCB</p> <p>(R12464)</p>
11	<p>Remove the 2 screws of the control PCB.</p>	 <p>Hook</p> <p>(R12472)</p>
12	<p>Unfasten the hook and remove the control PCB.</p>	 <p>(R12474)</p>

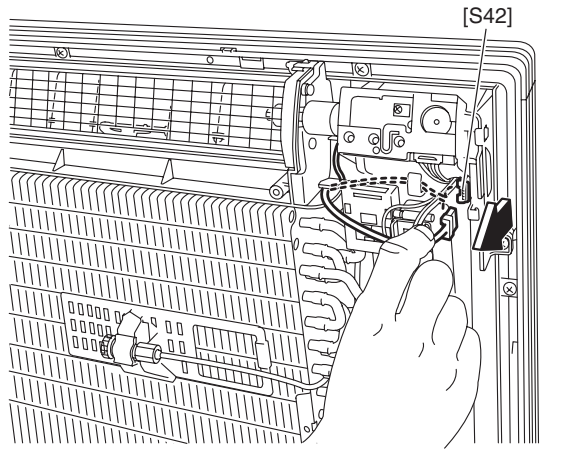
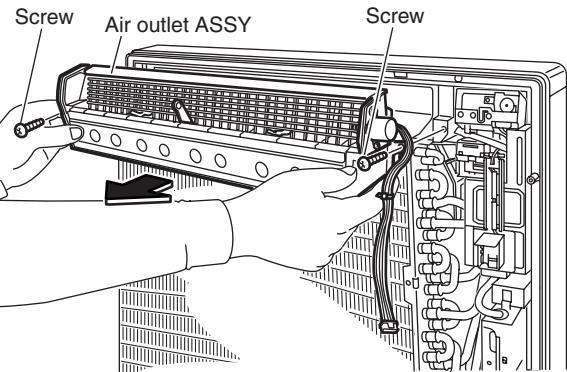
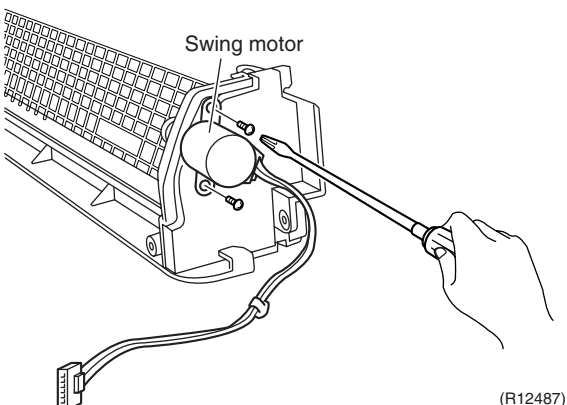
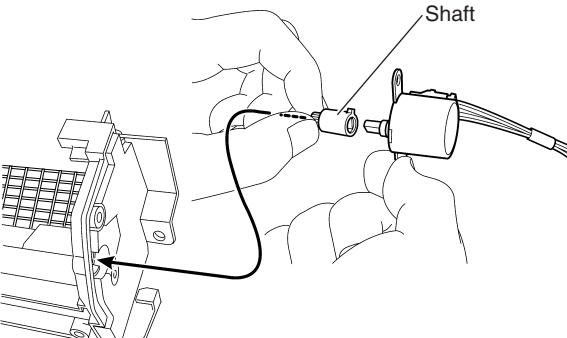
6. Removal of Upper Vertical Blades

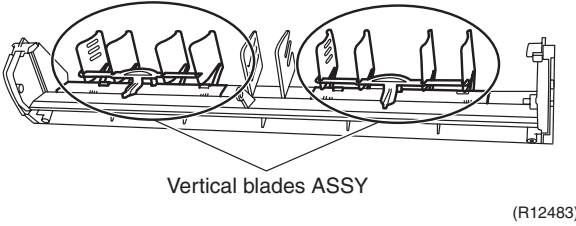
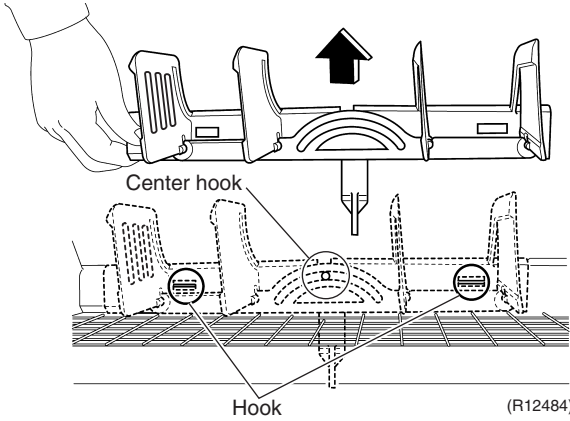
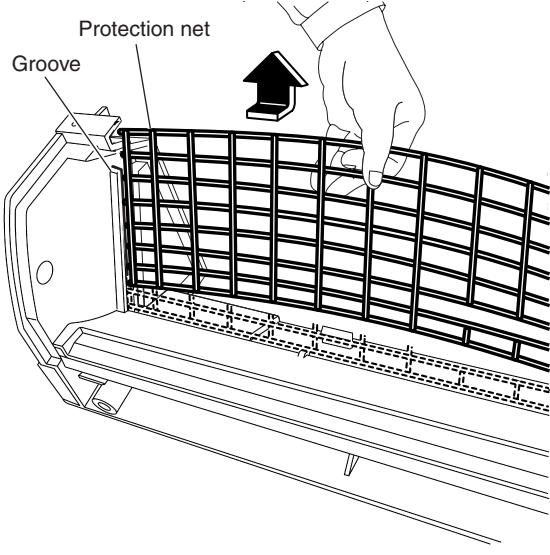
Procedure



Warning

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Step	Procedure	Points
1	<p>Disconnect the connector [S42] and release the harness from the hook.</p>  <p style="text-align: right;">(R12482)</p>	<p>■ [S42]: swing motor</p>
2	<p>Remove the 2 screws and remove the air outlet ASSY.</p>  <p style="text-align: right;">(R12481)</p>	
3	<p>Remove the 2 screws and remove the swing motor.</p>  <p style="text-align: right;">(R12487)</p>  <p style="text-align: right;">(R12488)</p>	

Step	Procedure	Points
4	<p>The air outlet ASSY has 2 vertical blades ASSYs.</p>  <p style="text-align: center;">Vertical blades ASSY</p> <p style="text-align: right;">(R12483)</p>	
5	<p>Unfasten the 2 hooks and remove the vertical blades ASSY.</p>  <p style="text-align: center;">Center hook</p> <p style="text-align: center;">Hook</p> <p style="text-align: right;">(R12484)</p>	
6	<p>Slide the protection net along the right and the left grooves and remove it.</p>  <p style="text-align: center;">Protection net</p> <p style="text-align: center;">Groove</p> <p style="text-align: right;">(R12485)</p>	

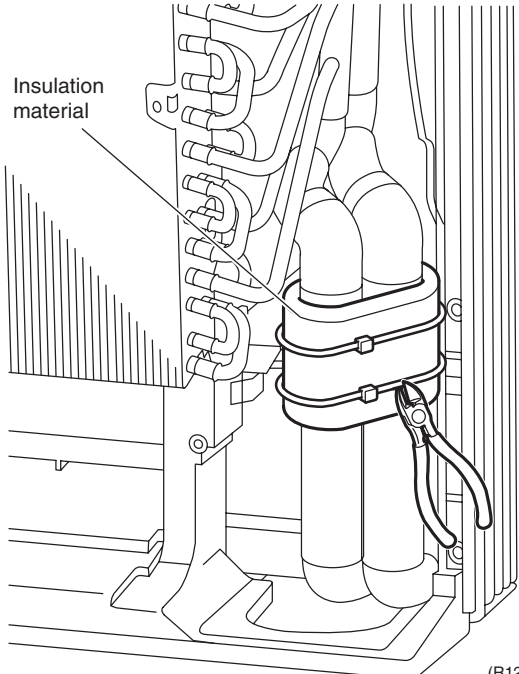
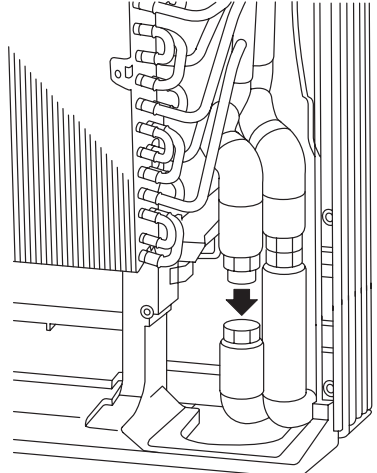
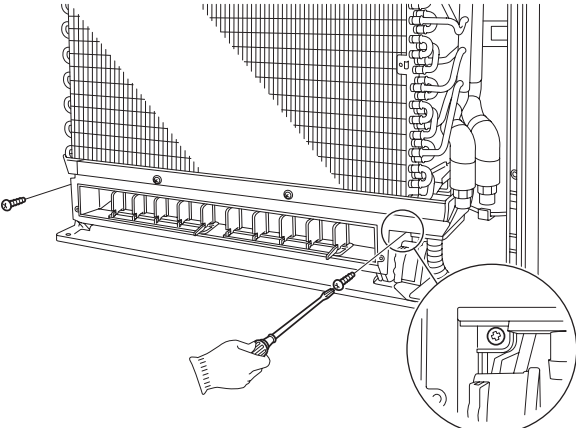
7. Removal of Lower Vertical Blades

Procedure

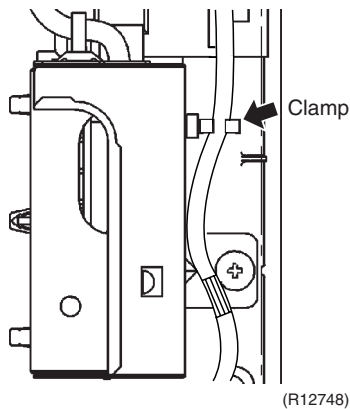
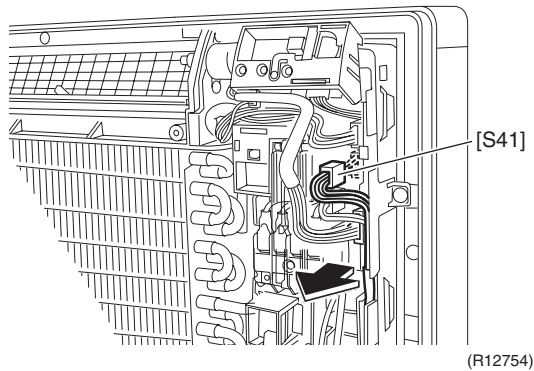
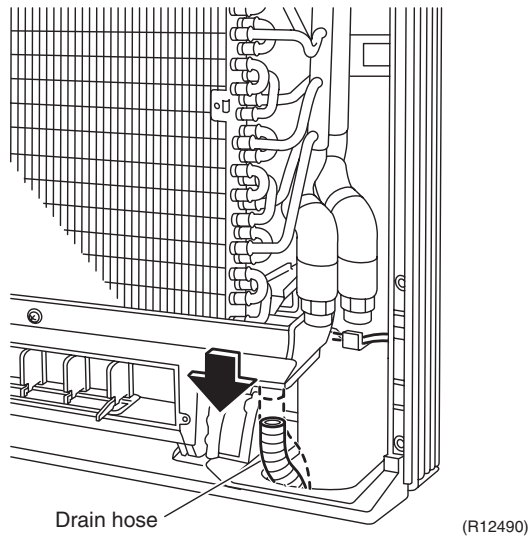


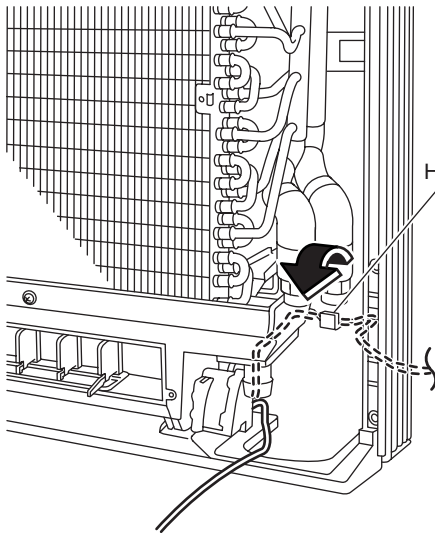
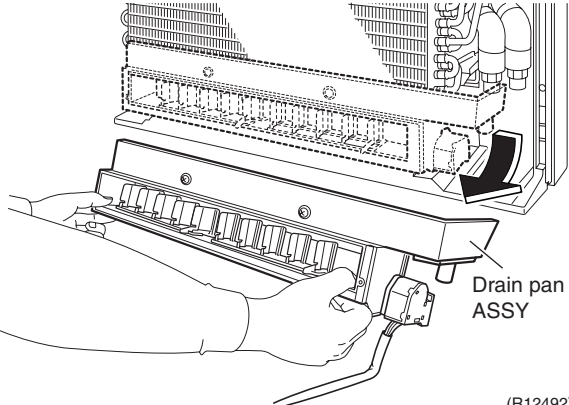
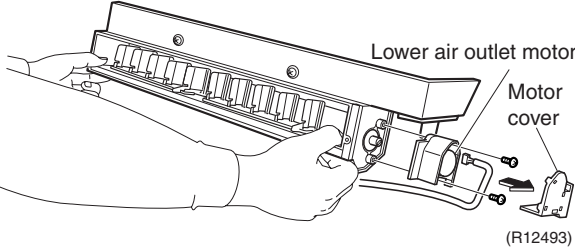
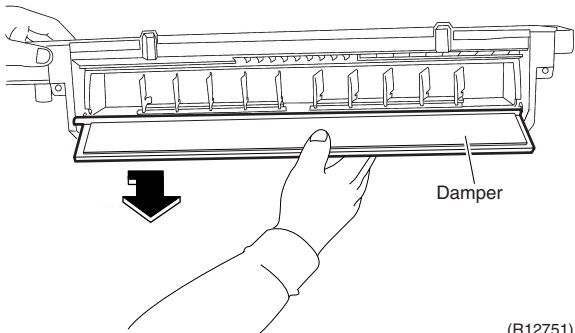
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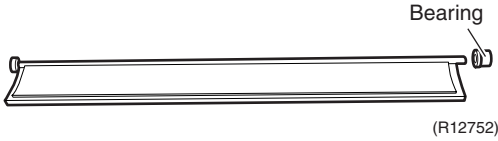
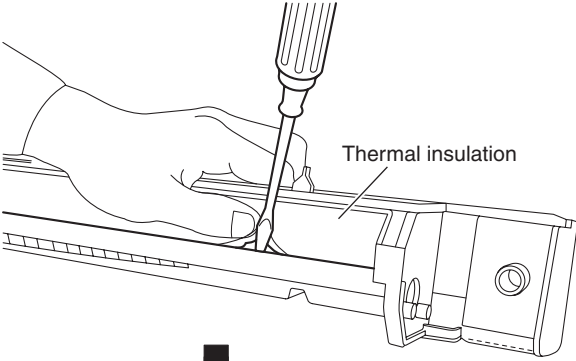
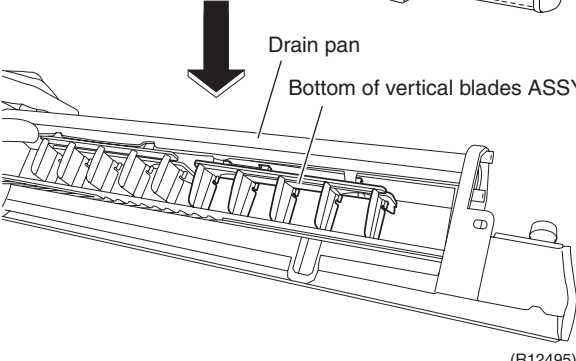
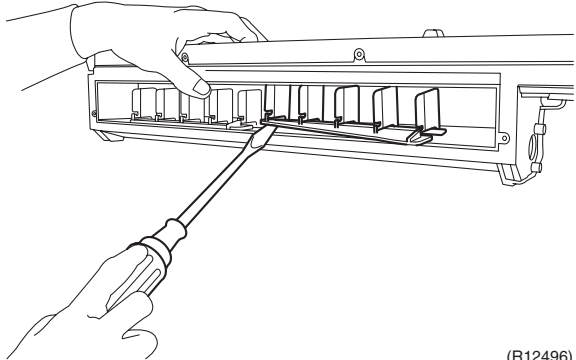
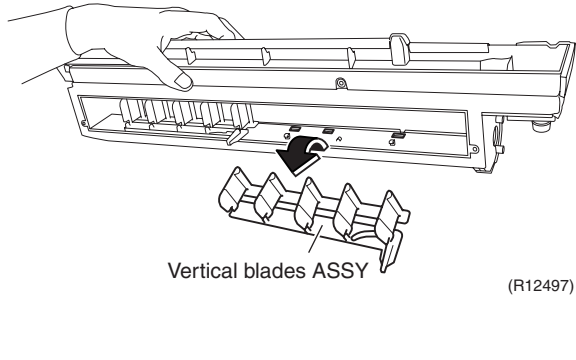
Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1	Cut the 2 clamps.  <p style="text-align: right;">(R12498)</p>	
2	Disconnect the pipings.  <p style="text-align: right;">(R12499)</p>	
3	Remove the 2 screws.  <p style="text-align: right;">(R12489)</p>	

Step	Procedure	Points
4	Disconnect the drain hose.	<ul style="list-style-type: none"> Be careful not to wet the floor with drain.
5	Disconnect the connector [S41].	<ul style="list-style-type: none"> [S41]: lower air outlet motor
6	Release the harness from the clamp.	



Step	Procedure	Procedure	Points
7	Release the harness from the hook.	 <p>Hook</p> <p>(R12491)</p>	
8	Pull out the drain pan ASSY.	 <p>Drain pan ASSY</p> <p>(R12492)</p>	
9	Remove the motor cover. Remove the 2 screws and remove the lower air outlet motor.	 <p>Lower air outlet motor</p> <p>Motor cover</p> <p>(R12493)</p>	
10	Slide the damper to the opposite side of the motor and pull it out.	 <p>Damper</p> <p>(R12751)</p>	

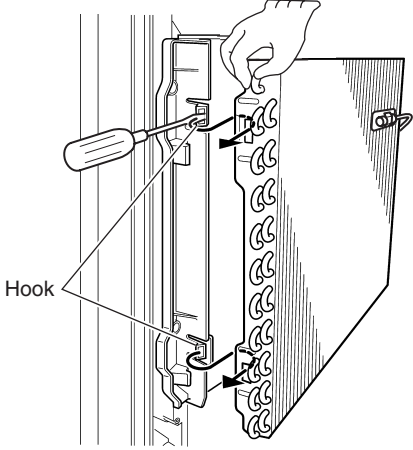
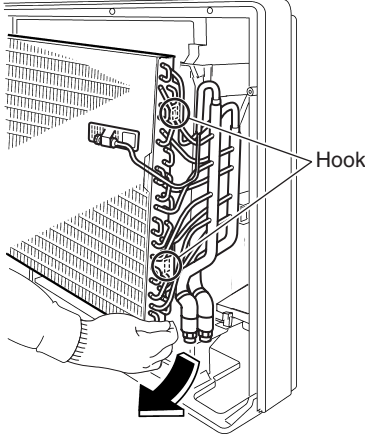
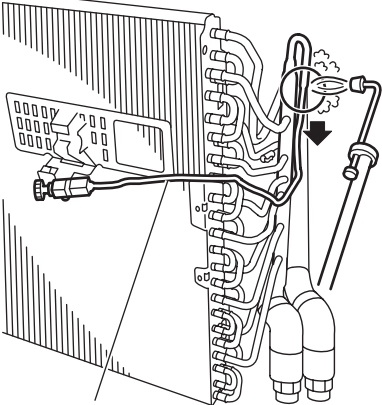
Step	Procedure	Procedure	Points
11	Remove the bearing.		
12	Move the thermal insulation slightly and press the 2 hooks underneath with a flat screwdriver.		
13	The figure shows the appearance after pressing the 2 hooks (Appearance from rear side). You can see the bottom of the vertical blades ASSY is detached from the drain pan.		
14	Unfasten the 3 hooks (from front side) with a flat screwdriver.		
15	Remove the vertical blades ASSY.		

8. Removal of Indoor Heat Exchanger

Procedure



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

Step	Procedure	Points
<p>1 Unfasten the 2 hooks on the left side of the indoor heat exchanger.</p> <p>2 Unfasten the 2 hooks on the right side and remove the indoor heat exchanger.</p>	 <p style="text-align: center;">(R12500)</p>	 <p style="text-align: center;">(R12501)</p>
<p>3 Heat up the blazed part to disconnect the connection pipe for air purging.</p>	 <p style="text-align: center;">(R12502)</p>	<p>Caution When removing or reassembling the indoor heat exchanger, be sure to wear gloves or wrap it with cloth before proceeding to the work. (You may be injured by the fins.)</p> <p>Warning Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.</p> <p>In case of difficulty with gas brazing machine</p> <ol style="list-style-type: none"> 1. Disconnect the brazed part where is easy to disconnect and restore. 2. Cut pipes on the main unit with a tube cutter in order to make it easy to disconnect. <p>Note:</p> <ul style="list-style-type: none"> ■ Do not use a metal saw for cutting pipes by all means because the sawdust comes into the circuit. ■ When withdrawing the pipes, be careful not to pinch them firmly with pliers. The pipes may get deformed. ■ Provide a protective sheet or a steel plate so that the brazing flame cannot influence peripheries.

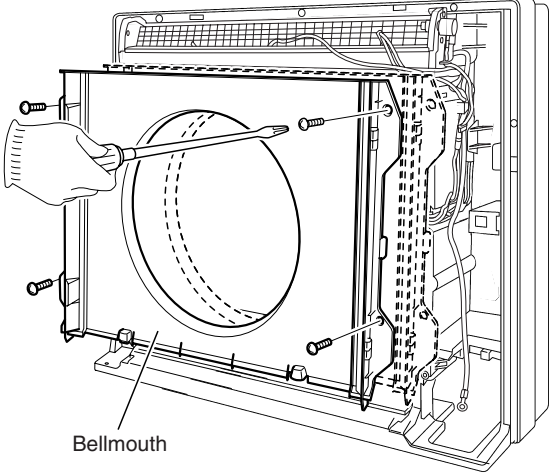
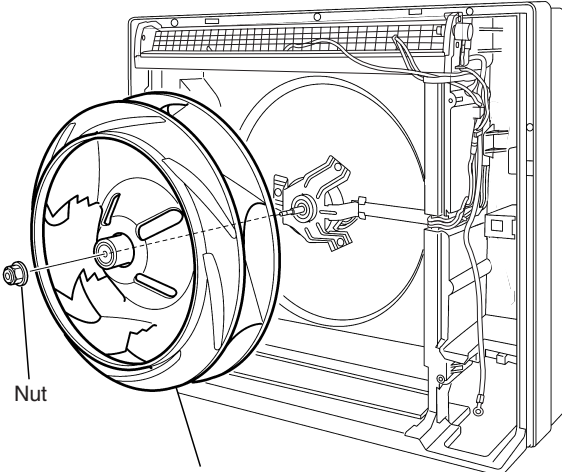
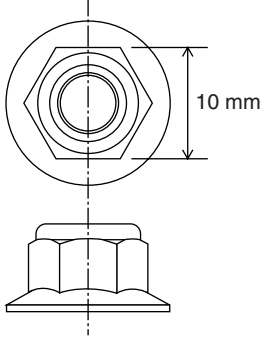
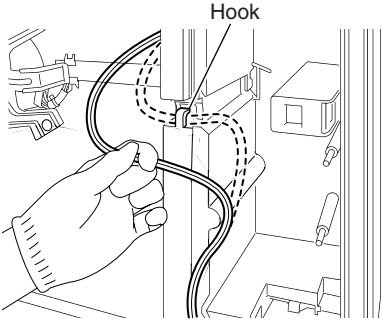
9. Removal of Fan Rotor / Fan Motor

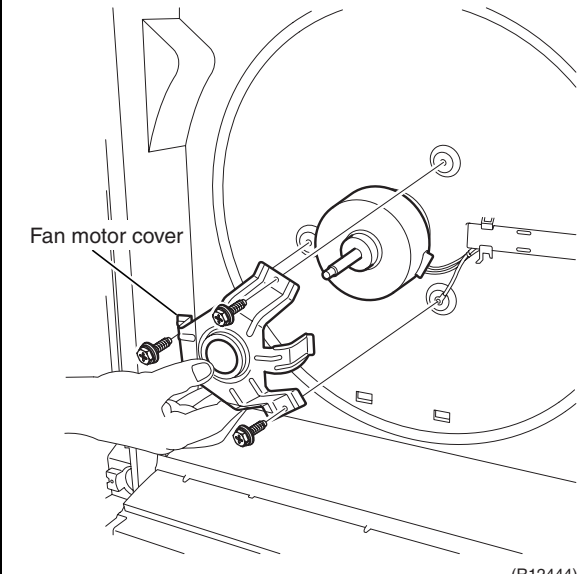
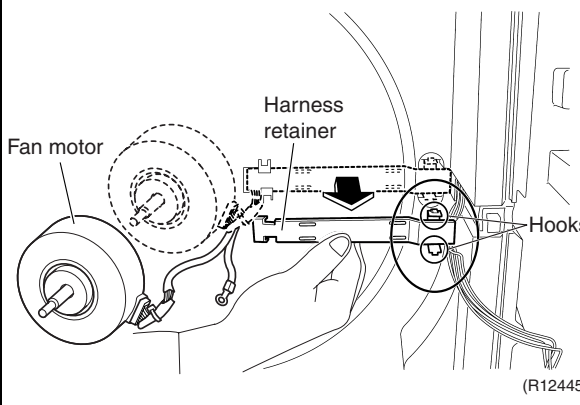
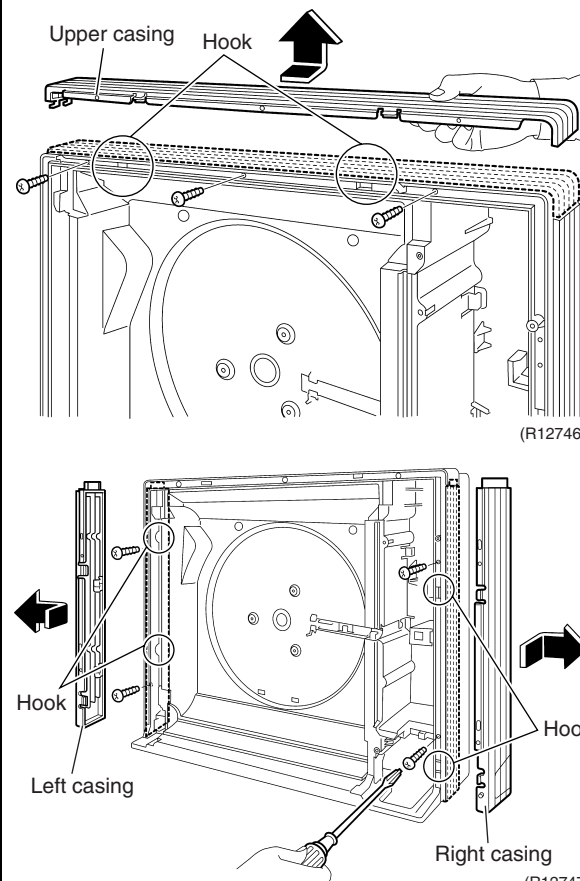
Procedure



Warning

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

Step	Procedure	Points
<p>1. Remove the fan rotor.</p> <p>1 Remove the 4 screws and remove the bellmouth.</p> <p>2 Remove the nut and remove the fan rotor.</p>	 <p style="text-align: right;">(R12503)</p>  <p style="text-align: right;">(R12504)</p>	<ul style="list-style-type: none"> ■ Nut size: M6  <p style="text-align: right;">(R12236)</p> <ul style="list-style-type: none"> ■ When reassembling, align the ▼ mark of the outdoor fan with the D-cut section of the motor shaft.
<p>2. Remove the fan motor.</p> <p>1 Release the harness of the fan motor from the hook.</p>	 <p style="text-align: right;">(R12443)</p>	

Step	Procedure	Points
<p>2 Remove the 3 screws and remove the fan motor cover.</p>	 <p>Fan motor cover</p> <p>(R12444)</p>	
<p>3 Unfasten the 2 hooks and remove the harness retainer. Remove the fan motor.</p>	 <p>Fan motor</p> <p>Harness retainer</p> <p>Hooks</p> <p>(R12445)</p>	
<p>3. Remove the casing.</p> <p>1 Remove the 3 screws and unfasten the 2 hooks to remove the upper casing.</p> <p>2 Remove the 2 screws and unfasten the 2 hooks to remove the right casing or the left casing.</p>	 <p>Upper casing</p> <p>Hook</p> <p>Hook</p> <p>Left casing</p> <p>Right casing</p> <p>(R12746)</p> <p>(R12747)</p>	<ul style="list-style-type: none"> ■ Press the 2 hooks backward and remove the casing. ■ Press the 2 hooks backward and remove the casing.

Revision History

Month / Year	Version	Revised contents
01 / 2013	Si061062	First edition

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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