




REMOVAL PROCEDURE



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

2.5/3.5/5.0 kW Class

-  Indoor Unit
-  Inverter
-  Floor Standing Type



Service Manual Removal Procedure

Indoor Unit

Applicable Models

●Heat Pump

FVXG25K2V1B

FVXG35K2V1B

FVXG50K2V1B

Table of Contents

1. Removal of Front Panel	2
2. Removal of Air Filters	3
3. Removal of Front Grille ASSY	4
4. Removal of Electrical Box / PCBs	5
5. Removal of Horizontal Blade	18
6. Removal of Swing Motor	19
7. Removal of Radiant Panel	20
8. Removal of Air Outlet ASSY	25
9. Removal of Drain Pan / Indoor Heat Exchanger ASSY	27
10. Removal of Fan Rotor / Fan Motor	32



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

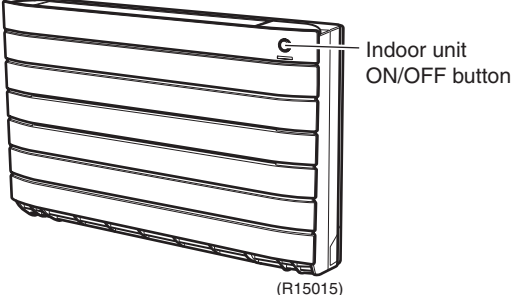
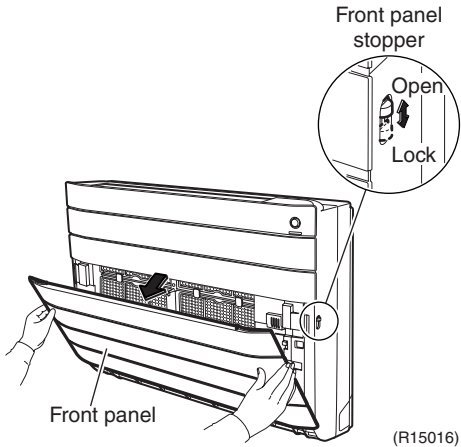
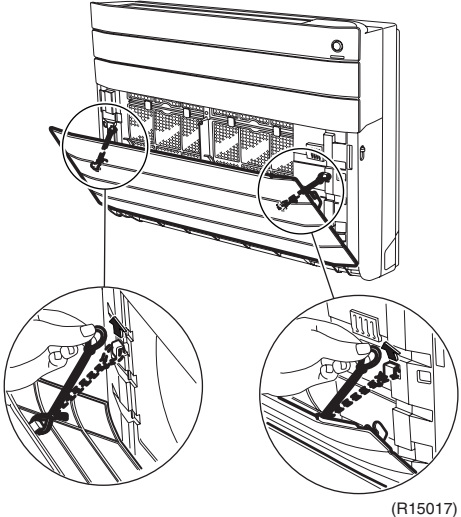
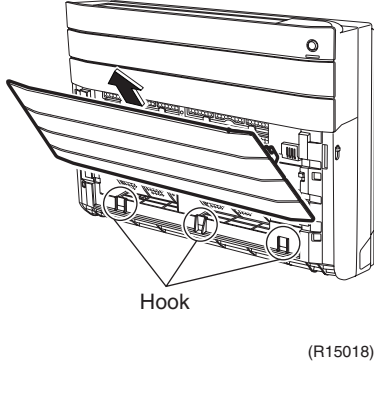
1. Removal of Front Panel

Procedure



Warning

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

Step	Procedure	Procedure	Points
1	Appearance feature	 <p>Indoor unit ON/OFF button</p> <p>(R15015)</p>	
2	Open the front panel.	 <p>Front panel stopper</p> <p>Open</p> <p>Lock</p> <p>Front panel</p> <p>(R15016)</p>	
3	Release the strings from the hooks.	 <p>(R15017)</p>	<p>■ When reassembling, hang the strings on the hooks.</p>
4	Unfasten the 3 lower hooks and remove the front panel.	 <p>Hook</p> <p>(R15018)</p>	

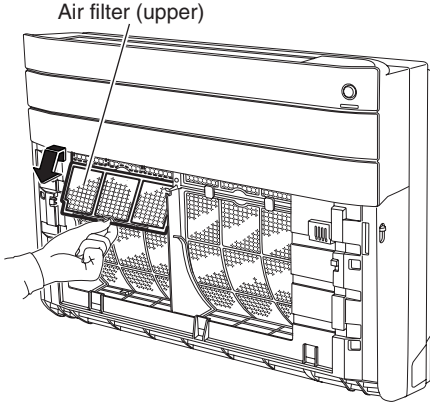
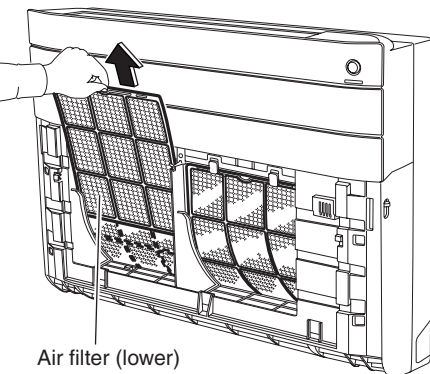
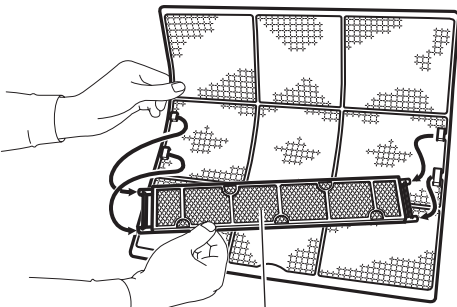
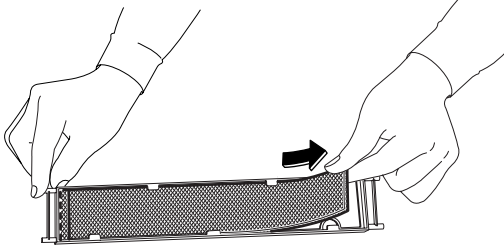
2. Removal of Air Filters

Procedure



Warning

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

Step	Procedure	Procedure	Points
1	Pull down and remove the air filters (upper).	 <p style="text-align: right;">(R15019)</p>	
2	Pull up and remove the air filters (lower).	 <p style="text-align: right;">(R15020)</p>	
3	Remove the Titanium apatite photocatalytic air-purifying filter.	 <p style="text-align: right;">(R15021)</p>  <p style="text-align: right;">(R15022)</p>	<ul style="list-style-type: none"> ■ To prevent the damage, do not remove the Titanium apatite photocatalytic air-purifying filter from the frame when cleaning it.

3. Removal of Front Grille ASSY

Procedure



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 5 screws.	<p>(R15023)</p>
2	Unfasten the 3 lower hooks and remove the front grille ASSY	<p>Hook</p> <p>Front grille ASSY</p> <p>(R15024)</p>
3	Remove the 2 screws to remove the side panel (right).	<p>Side panel (right)</p> <p>Side panel (left)</p> <p>Front grille</p> <p>Suction grille</p> <p>(R15025)</p>
4	Remove the 2 screws to remove the side panel (left).	
5	Remove the 3 screws to remove the suction grille.	

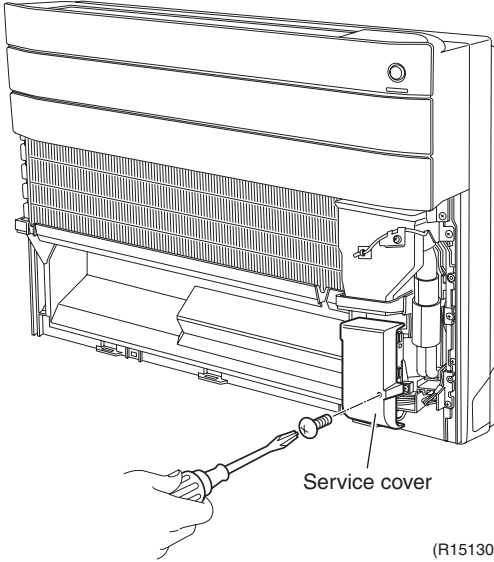
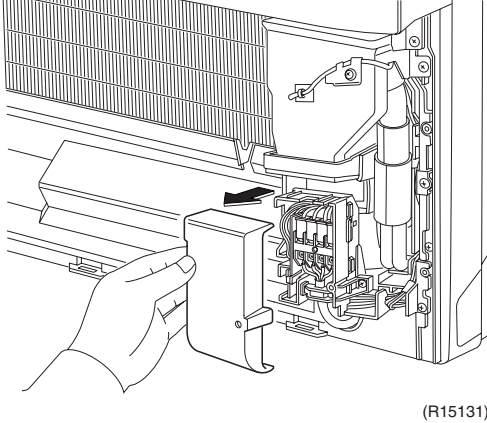
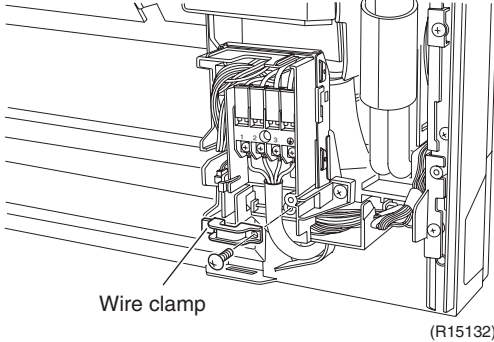
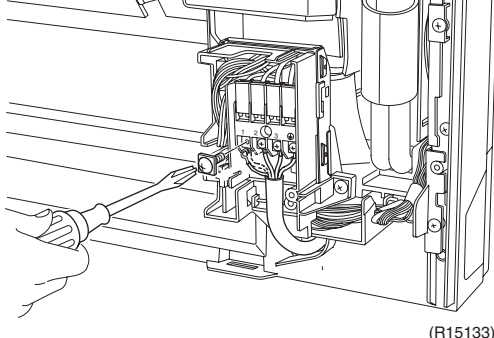
4. Removal of Electrical Box / PCBs

Procedure

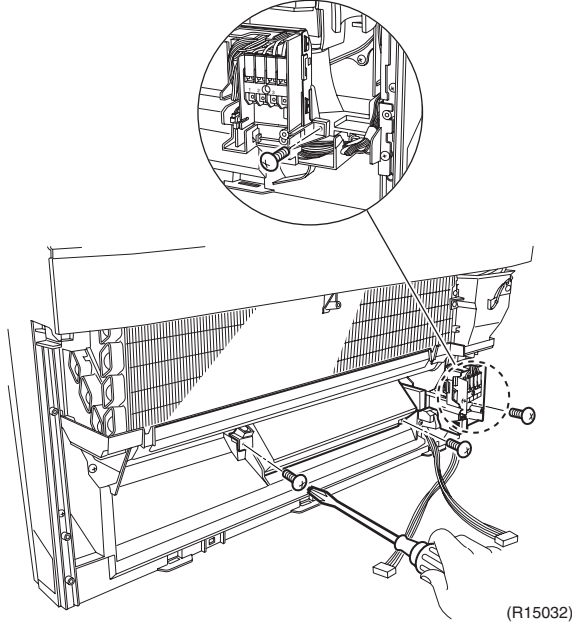
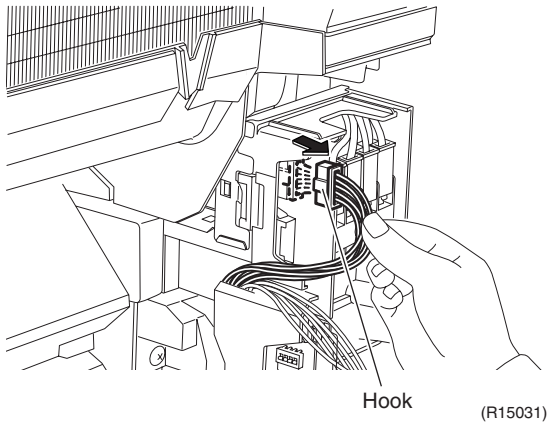
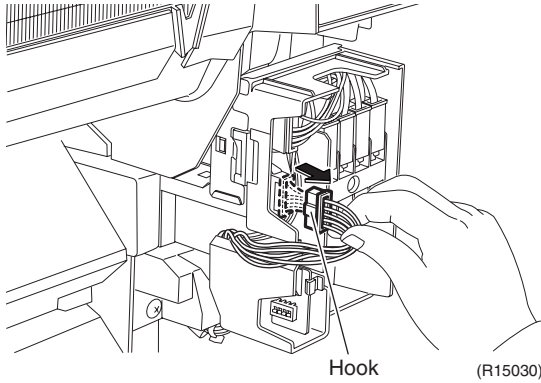


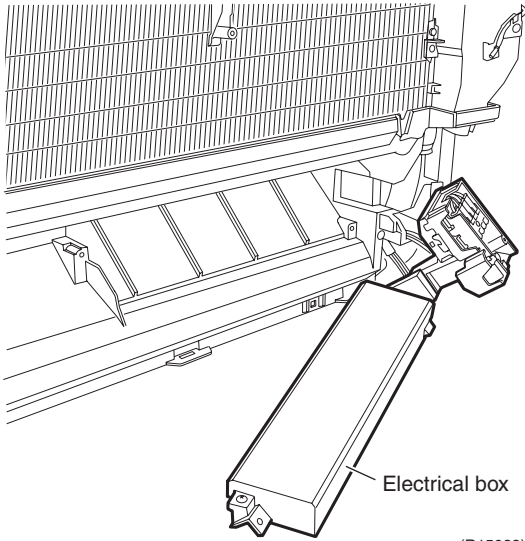
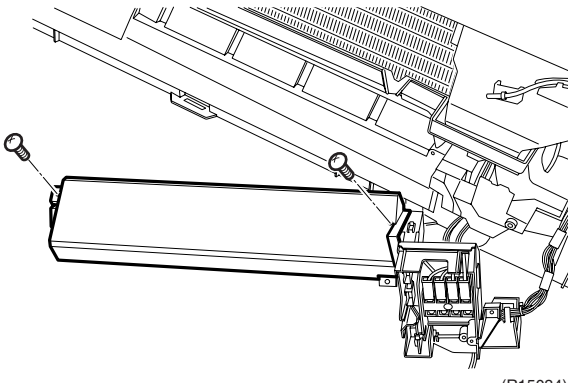
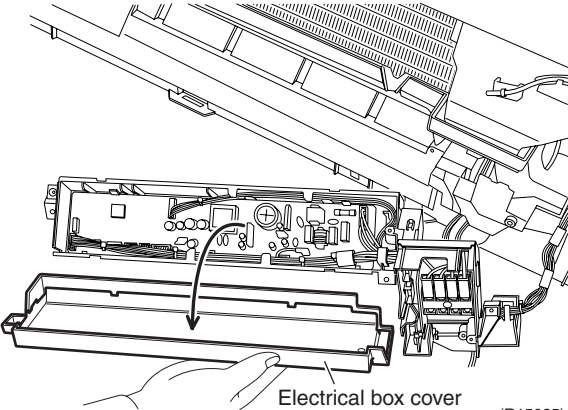
Warning

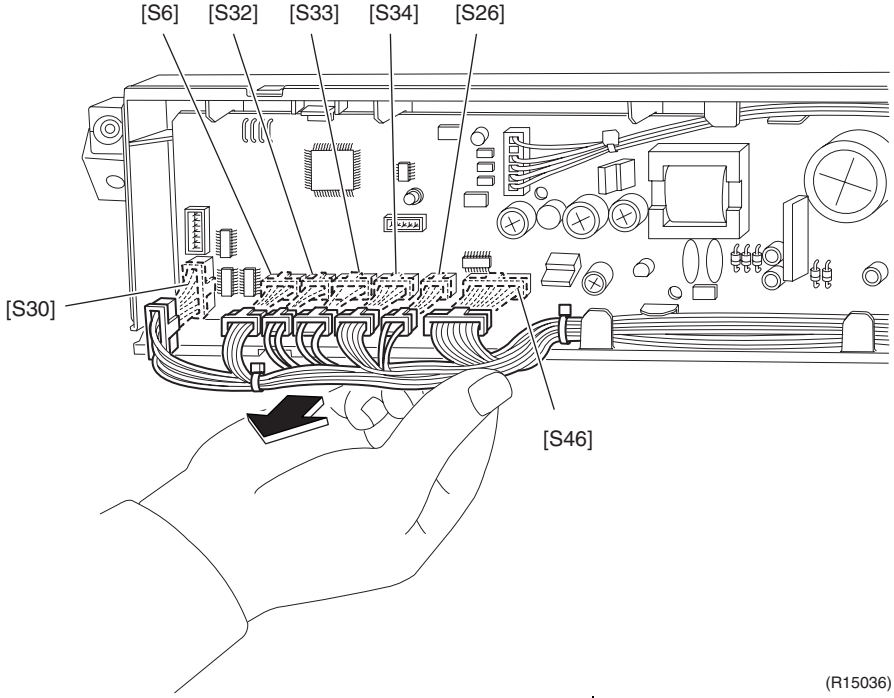
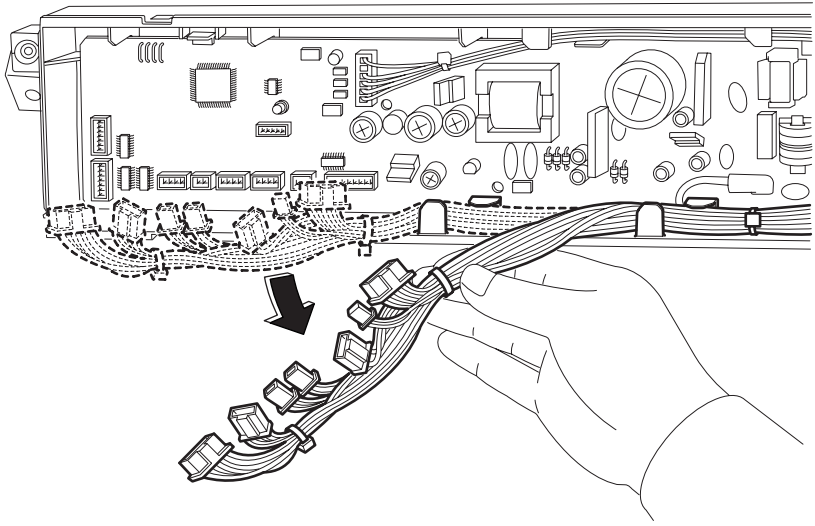
Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

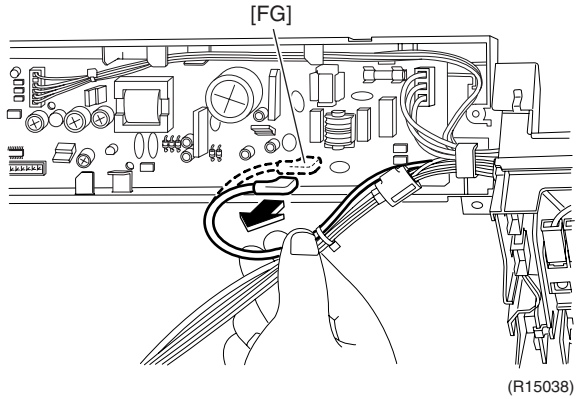
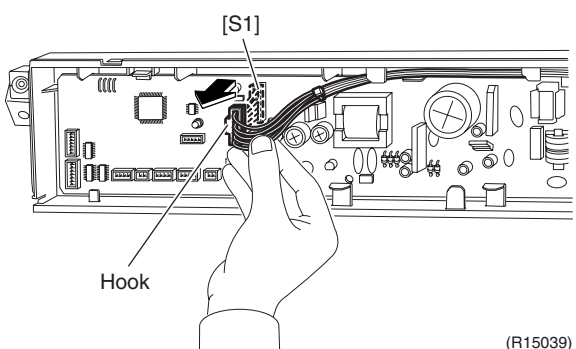
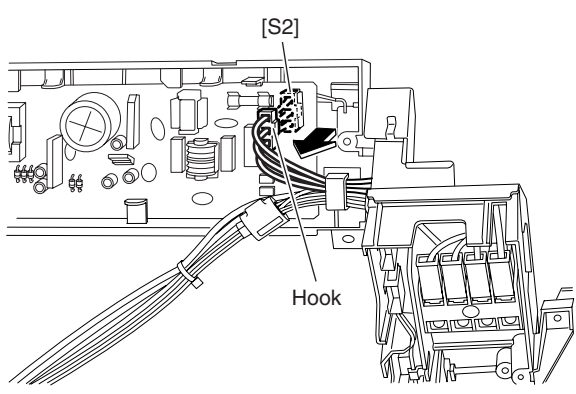
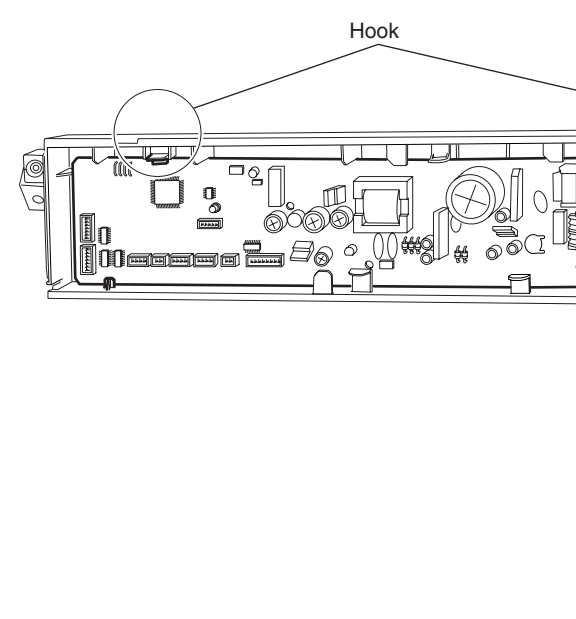
Step	Procedure	Points
1. Remove the electrical box.	 <p style="text-align: center;">Service cover</p> <p style="text-align: right;">(R15130)</p>	
2. Remove the service cover.	 <p style="text-align: right;">(R15131)</p>	
3. Remove the screw and wire clamp.	 <p style="text-align: center;">Wire clamp</p> <p style="text-align: right;">(R15132)</p>	
4. Remove the 4 screws and disconnect the connecting wires.	 <p style="text-align: right;">(R15133)</p>	

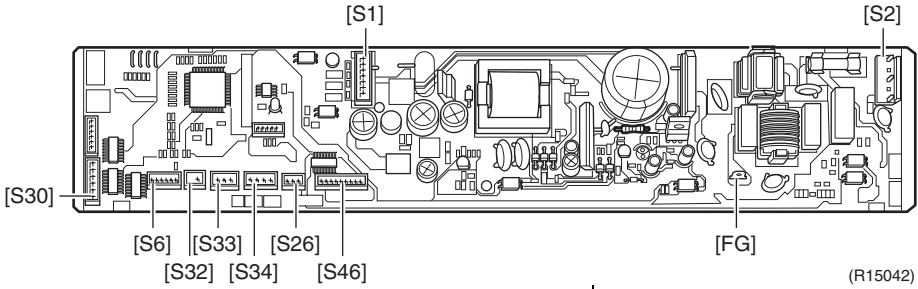
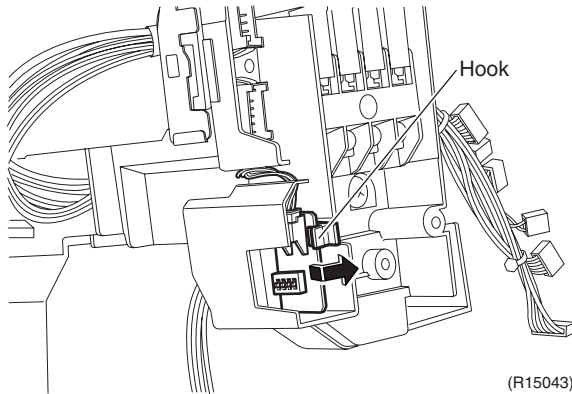
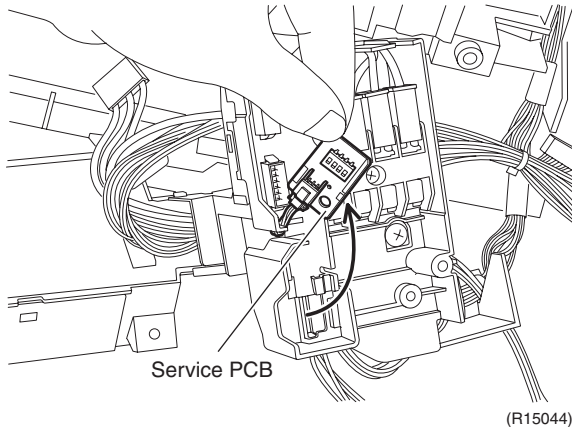
Step	Procedure	Points
5	Unfasten the hook and disconnect the relay connector for the indoor electronic expansion valve coil.	Lower: for indoor electronic expansion valve
6	Unfasten the hook and disconnect the relay connector for the fan motor.	Upper: for fan motor
7	Remove the 3 screws.	

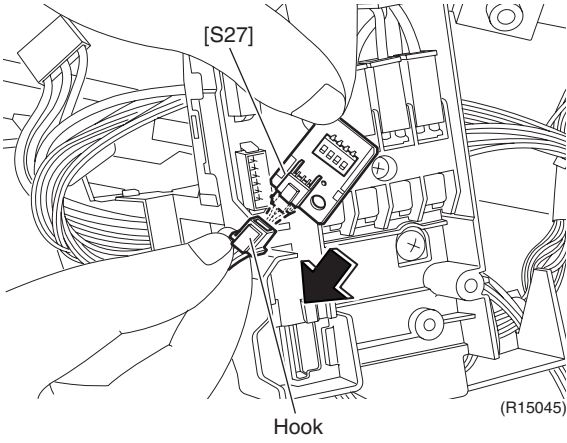
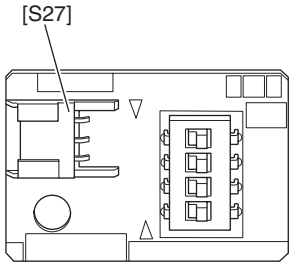
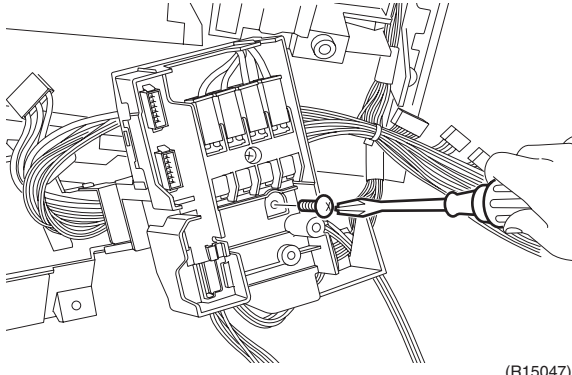
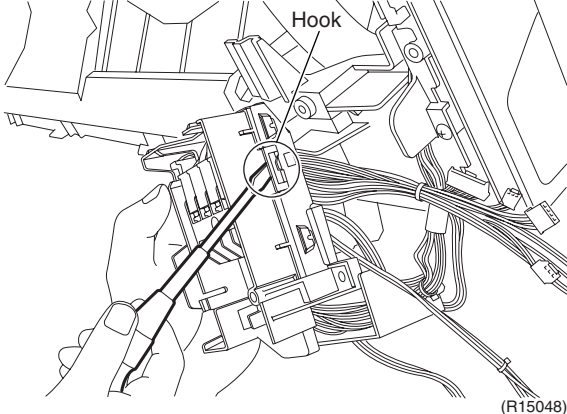


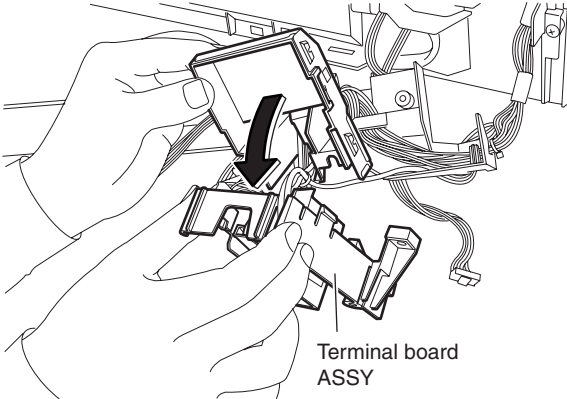
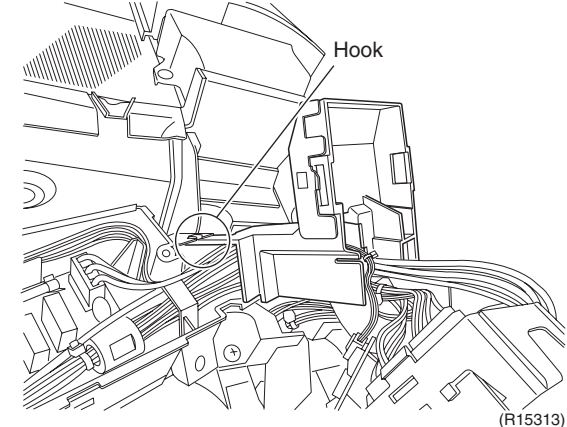
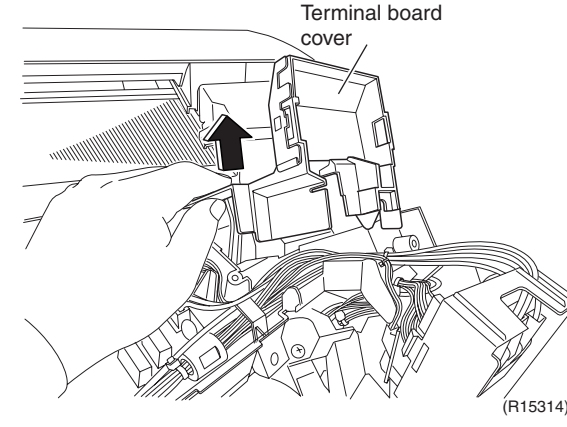
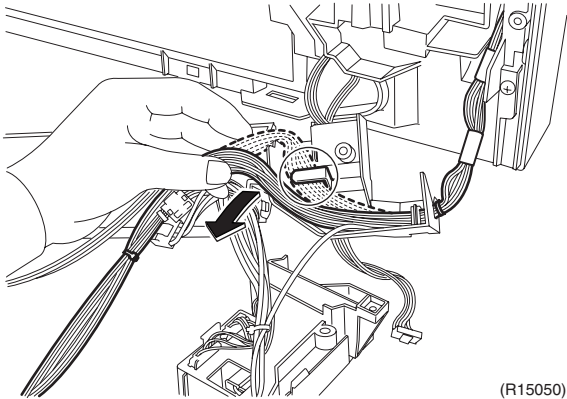
Step		Procedure	Points
8	The electrical box is now easy to manage.	 <p style="text-align: right;">Electrical box (R15033)</p>	
2. Remove the main PCB.			
1	Remove the 2 screws.	 <p style="text-align: right;">Electrical box cover (R15034)</p>	
2	Remove the electrical box cover.	 <p style="text-align: right;">Electrical box cover (R15035)</p>	

Step	Procedure	Points
<p>3 Unfasten the hook of each connector. Disconnect the connectors.</p>	 <p style="text-align: right;">(R15036)</p>	<p>[S6]: swing motor [S26]: service PCB [S30]: indoor electronic expansion valve coil [S32]: indoor heat exchanger thermistor [S33]: room temperature thermistor [S34]: radiant panel thermistors [S46]: display PCB</p>
<p>4 Release the harnesses from the hooks.</p>	 <p style="text-align: right;">(R15037)</p>	

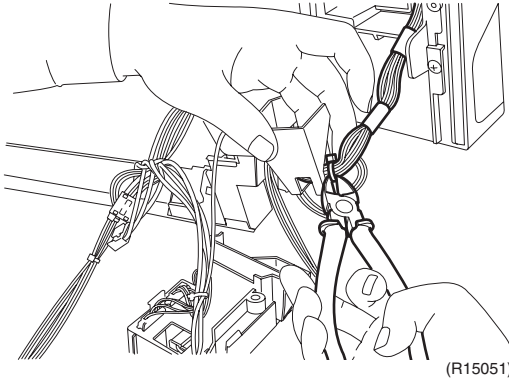
Step	Procedure	Procedure	Points
5	Disconnect the connector for the earth [FG].	 <p>[FG]</p> <p>(R15038)</p>	
6	Unfasten the hook and disconnect the connector for the fan motor [S1].	 <p>[S1]</p> <p>Hook</p> <p>(R15039)</p>	
7	Unfasten the hook and disconnect the connector for the terminal board [S2].	 <p>[S2]</p> <p>Hook</p> <p>(R15040)</p>	
8	Unfasten the 2 hooks.	 <p>Hook</p> <p>(R15041)</p>	

Step	Procedure	Points
9	<p>Remove the main PCB.</p>  <p style="text-align: right;">(R15042)</p>	<p>[S1]: fan motor [S2]: terminal board [S6]: swing motor [S26]: service PCB [S30]: indoor electronic expansion valve coil [S32]: indoor heat exchanger thermistor [S33]: room temperature thermistor [S34]: radiant panel thermistors [S46]: display PCB [FG]: earth</p>
3.	<p>Remove the service PCB.</p> <p>1 Unfasten the hook.</p>  <p style="text-align: right;">(R15043)</p> <p>2 The service PCB is now easy to manage.</p>  <p style="text-align: right;">(R15044)</p>	

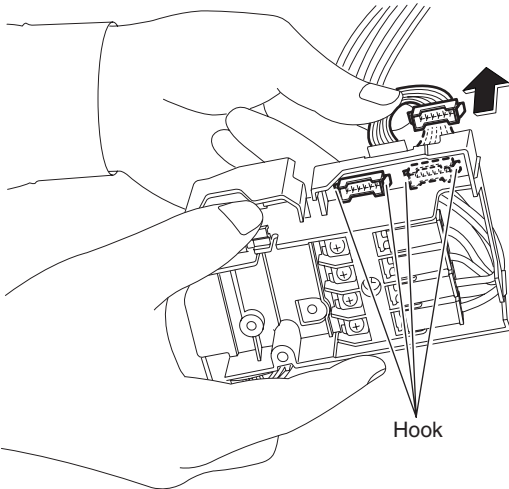
Step	Procedure	Points
<p>3</p> <p>Unfasten the hook and disconnect the connector for the main PCB [S27].</p>	 <p>Hook</p> <p>(R15045)</p>	
<p>4</p> <p>Remove the service PCB.</p>	 <p>[S27]</p> <p>(R15046)</p>	<p>[S27]: for main PCB</p>
<p>4. Remove the terminal board ASSY.</p> <p>1</p> <p>Remove the screw.</p> <p>2</p> <p>Unfasten the hook with a flat screwdriver.</p>	 <p>(R15047)</p>  <p>Hook</p> <p>(R15048)</p>	

Step	Procedure	Points
3	Release the terminal board ASSY.	
		
4	Unfasten the hook.	
		
5	Remove the terminal board cover.	
		
6	Release the harnesses from the hook.	
		

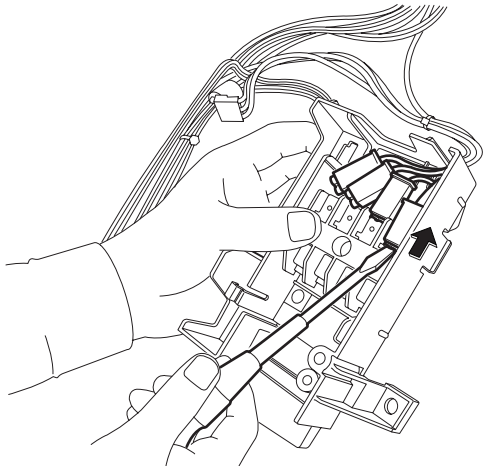
Step	Procedure	Points
7	Cut the clamp.	
8	Unfasten the 2 hooks of each connector. Pull out the 2 relay connectors.	Upper (brown): fan motor Lower (red): electronic expansion valve
9	Release the 4 terminals with a flat screwdriver.	
10	Remove the terminal board ASSY.	



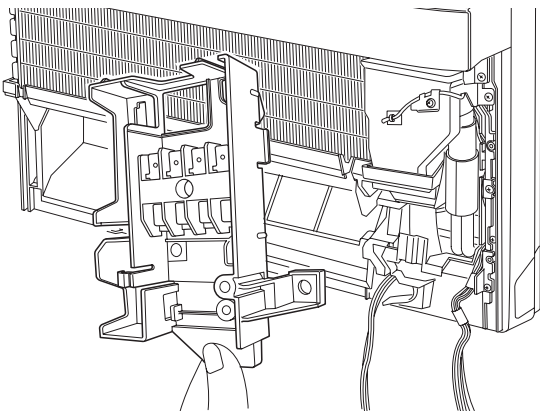
(R15051)



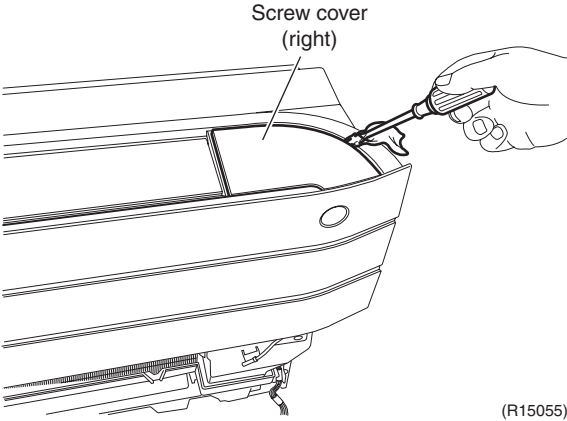
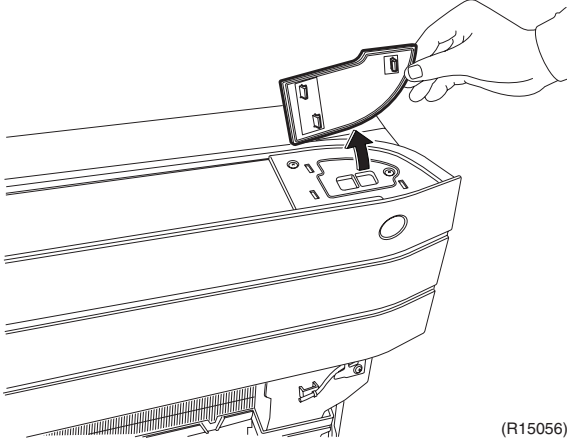
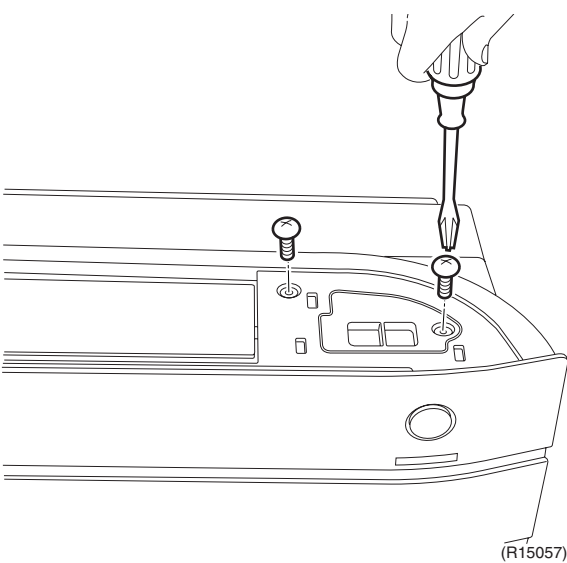
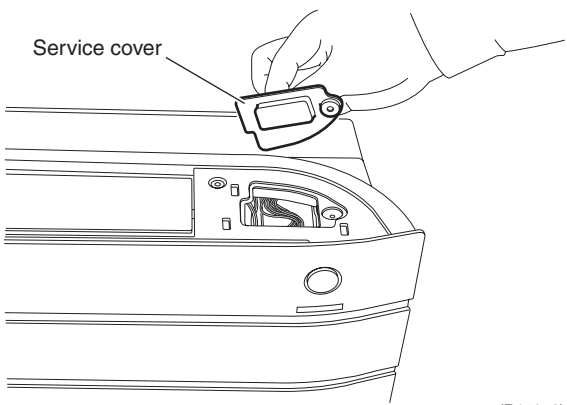
(R15052)

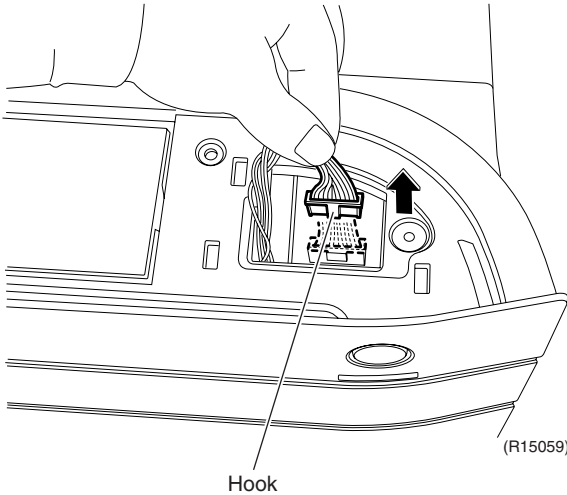
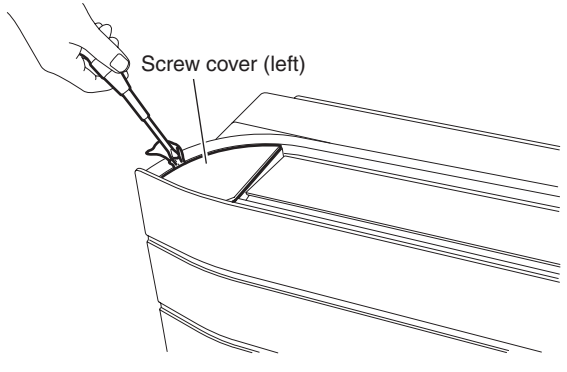
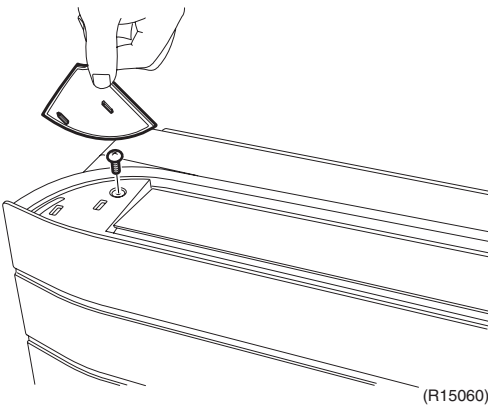


(R15053)

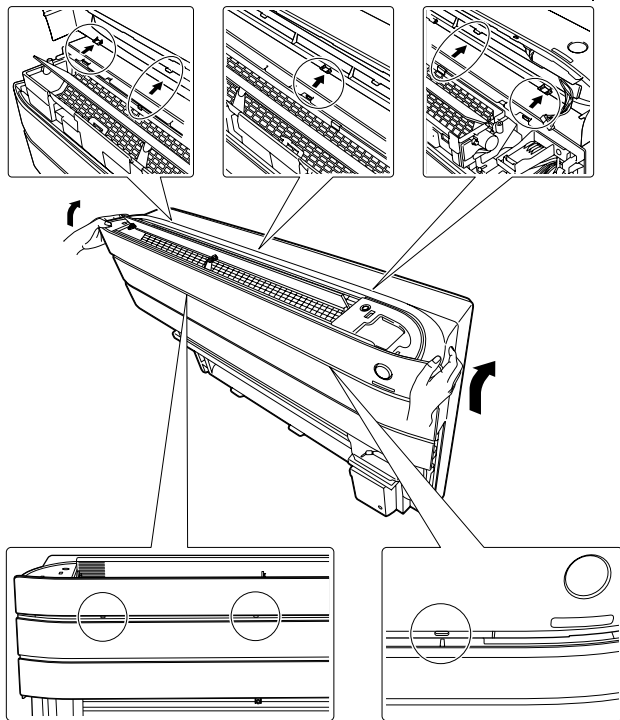


(R15134)

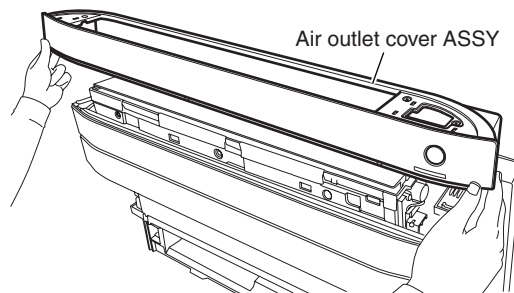
Step	Procedure	Points
<p>5. Remove the display PCB.</p> <p>1 Remove the screw cover (right) with a flat screwdriver.</p> <p>2 Remove the 2 screws.</p> <p>3 Remove the service cover.</p>	 <p style="text-align: center;">Screw cover (right)</p> <p style="text-align: right;">(R15055)</p>  <p style="text-align: right;">(R15056)</p>  <p style="text-align: right;">(R15057)</p>  <p style="text-align: center;">Service cover</p> <p style="text-align: right;">(R15058)</p>	<ul style="list-style-type: none"> ■ Use a piece of cloth to protect the surface of the indoor unit.

Step	Procedure	Points
4	<p>Unfasten the hook and disconnect the relay connector for the display PCB.</p>  <p style="text-align: right;">(R15059)</p>	
5	<p>Remove the screw cover (left) with a flat screwdriver.</p>  <p style="text-align: right;">(R15126)</p>	<ul style="list-style-type: none"> ■ Use a piece of cloth to protect the surface of the indoor unit.
6	<p>Remove the screw.</p>  <p style="text-align: right;">(R15060)</p>	

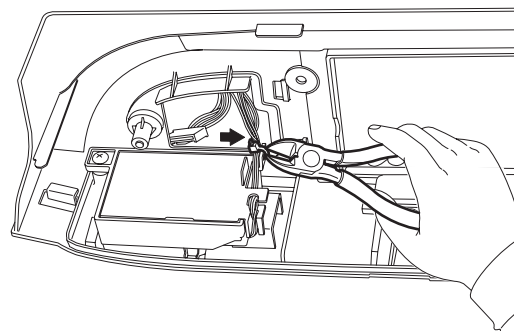
Step	Procedure	Points
7	Unfasten the 8 hooks.	
8	Remove the air outlet cover ASSY.	
9	Turn over the air outlet cover ASSY and cut the clamp.	
10	Release the harnesses from the hooks.	



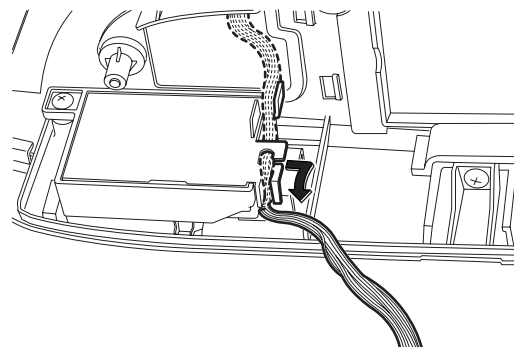
(R15287)



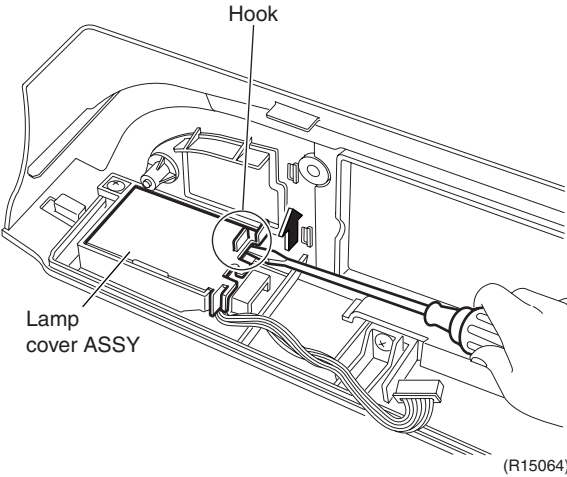
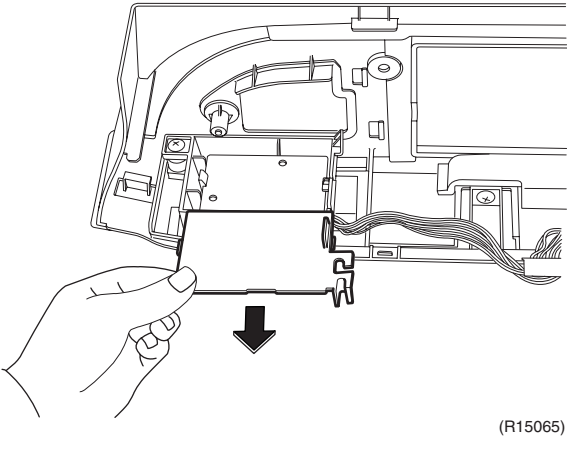
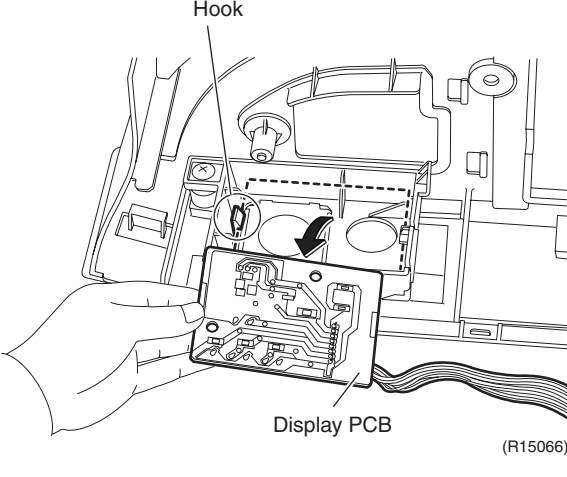
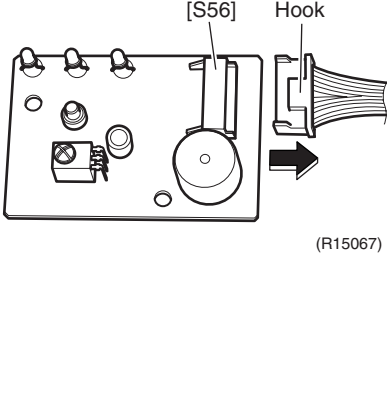
(R15061)



(R15062)



(R15063)

Step	Procedure	Points
11	<p>Lift up the cover of the lamp cover ASSY with a flat screwdriver.</p>  <p>(R15064)</p>	
12	<p>Open the cover.</p>  <p>(R15065)</p>	
13	<p>Unfasten the hook and remove the display PCB.</p>  <p>(R15066)</p>	
14	<p>Unfasten the hook and disconnect the connector for the main PCB [S56].</p>  <p>(R15067)</p>	

5. Removal of Horizontal Blade

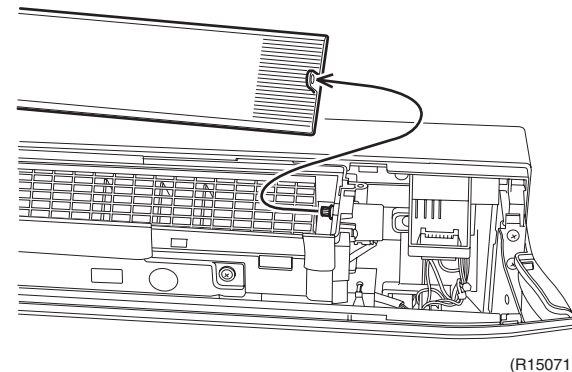
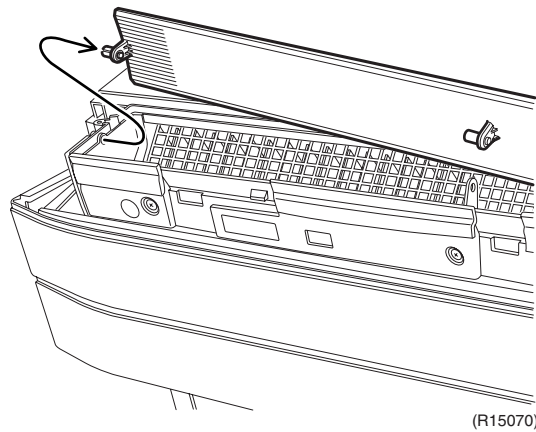
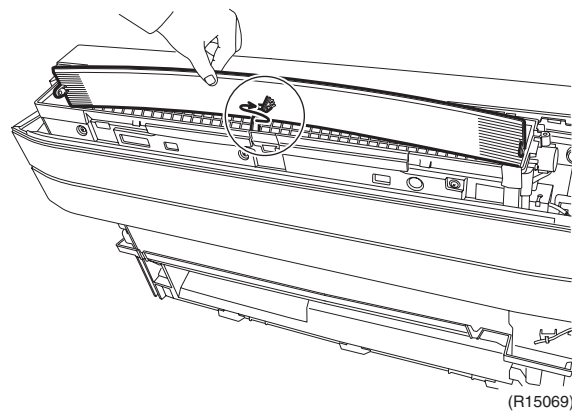
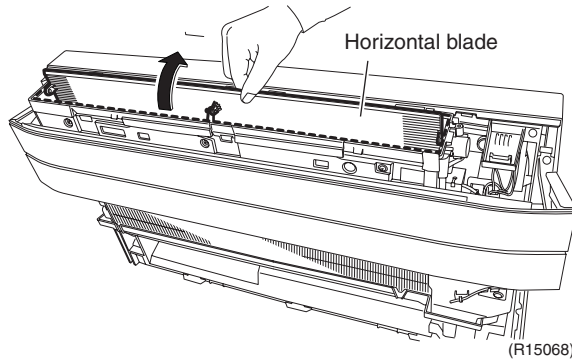
Procedure



Warning

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

Step	Procedure	Points
1	Open the horizontal blade.	
2	Bend the horizontal blade and unfasten the center shaft.	
3	Unfasten the left shaft.	
4	Unfasten the right shaft and remove the horizontal blade.	



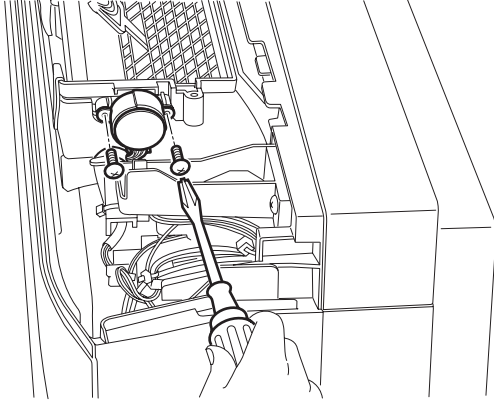
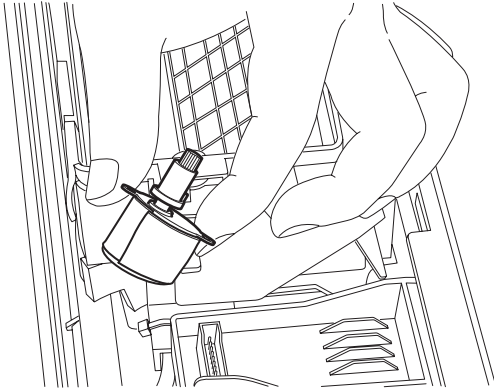
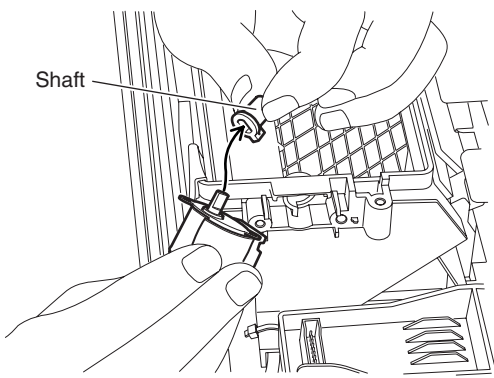
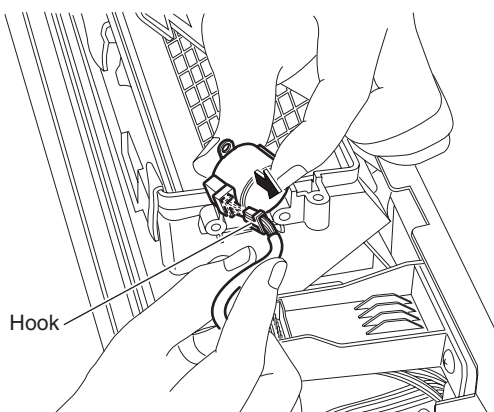
6. Removal of Swing Motor

Procedure



Warning

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

Step	Procedure	Procedure	Points
1	Remove the 2 screws.	 <p style="text-align: right;">(R15072)</p>	
2	Remove the swing motor.	 <p style="text-align: right;">(R15073)</p>	
3	Remove the shaft.	 <p style="text-align: right;">(R15074)</p>	
4	Unfasten the hook and disconnect the connector.	 <p style="text-align: right;">(R15075)</p>	

7. Removal of Radiant Panel

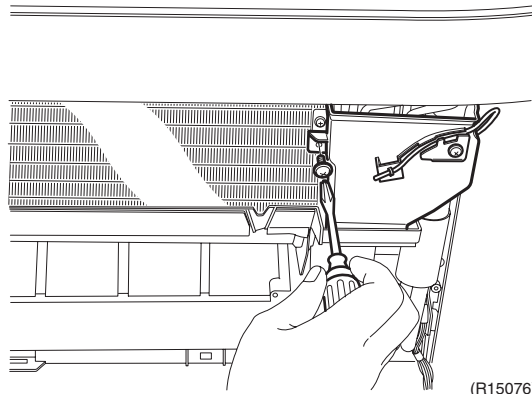
Procedure



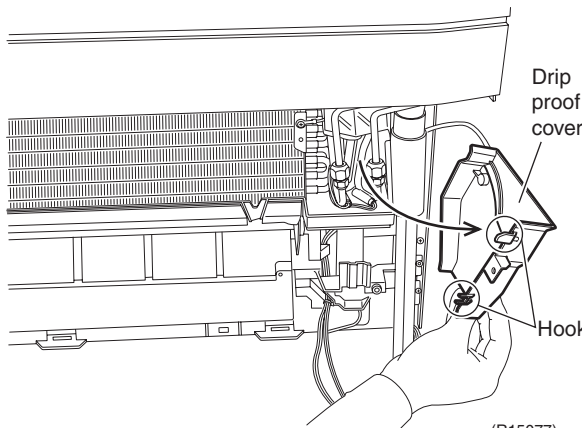
Warning

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

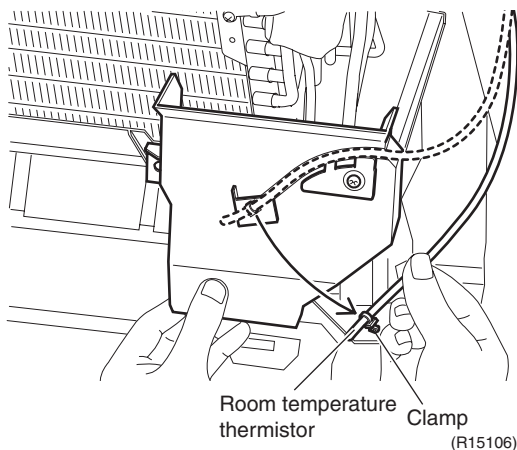
Step	Procedure	Points
1	Remove the screw.	
2	Unfasten the 2 hooks and remove the drip proof cover.	
3	Release the room temperature thermistor from the drip proof cover.	
4	Disconnect the connecting sections of the 2 pipings for the radiant panel.	<p>■ When the pipings are disconnected, protect the both openings from entering moisture.</p>



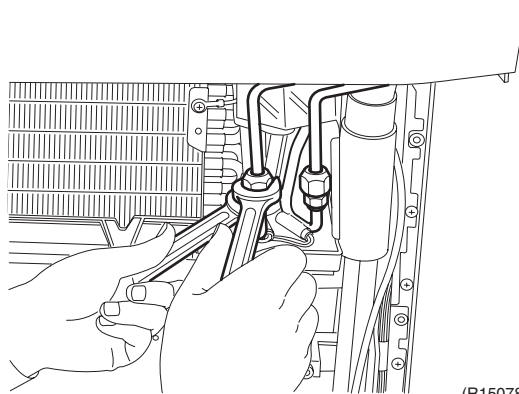
(R15076)



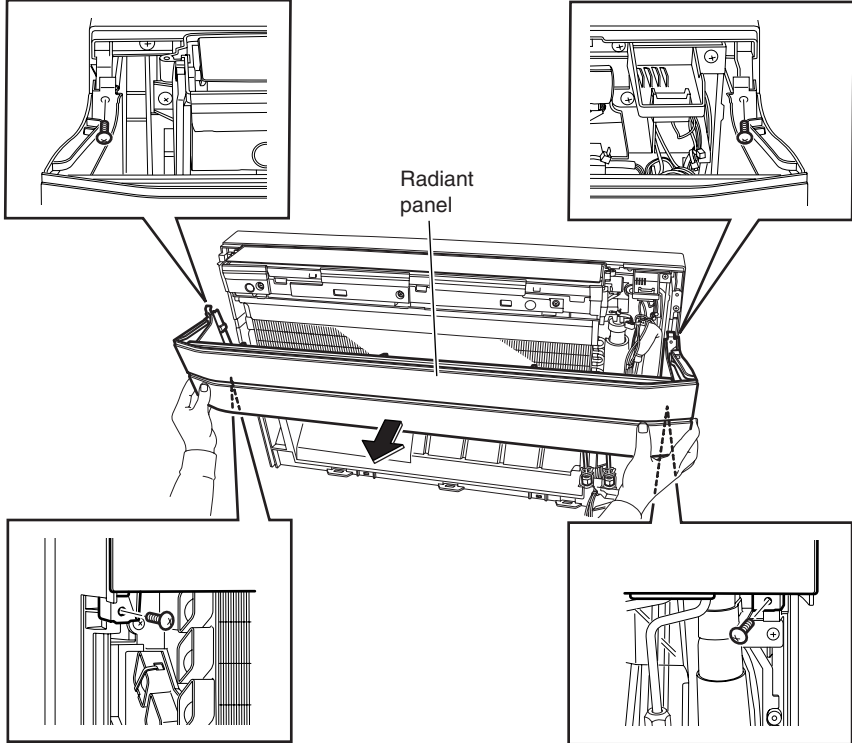
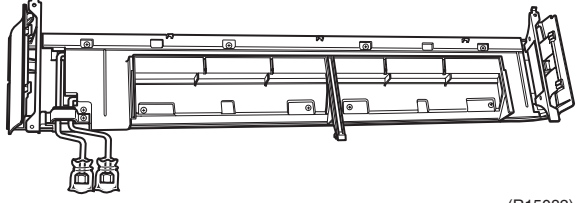
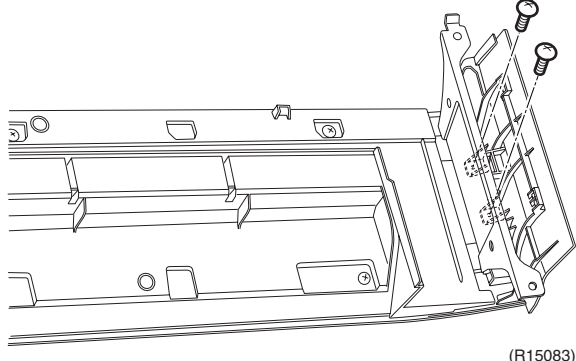
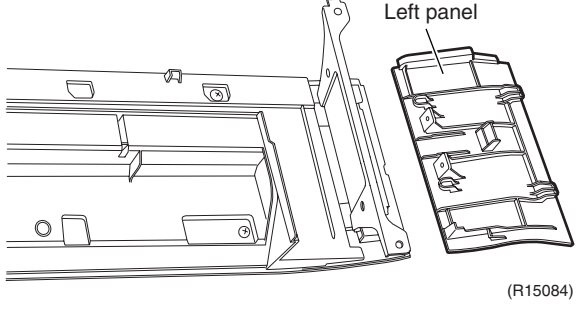
(R15077)



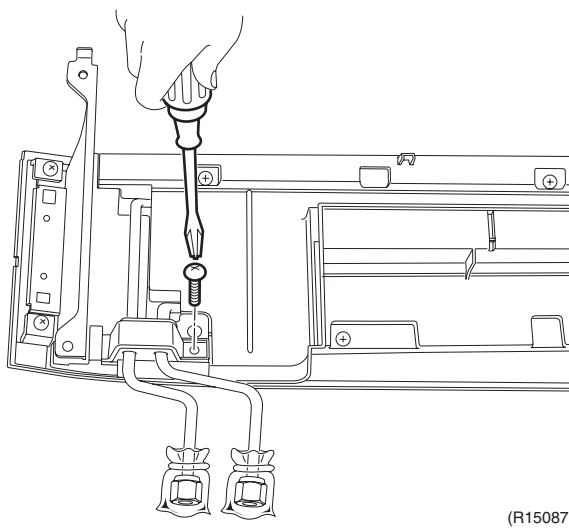
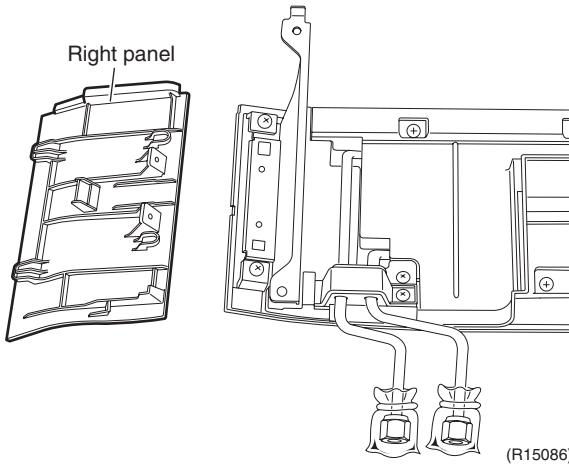
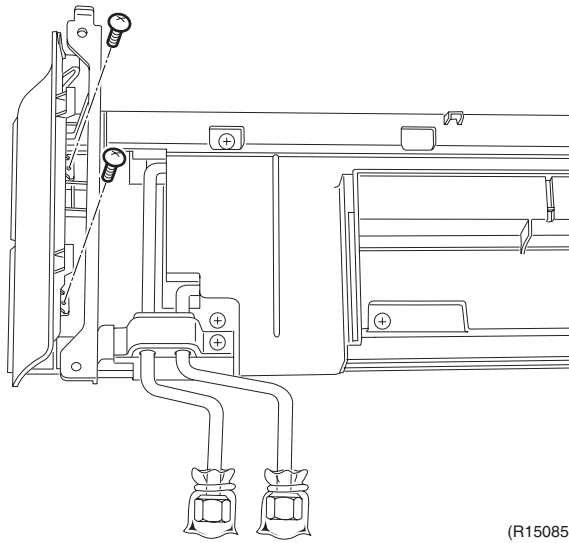
(R15106)

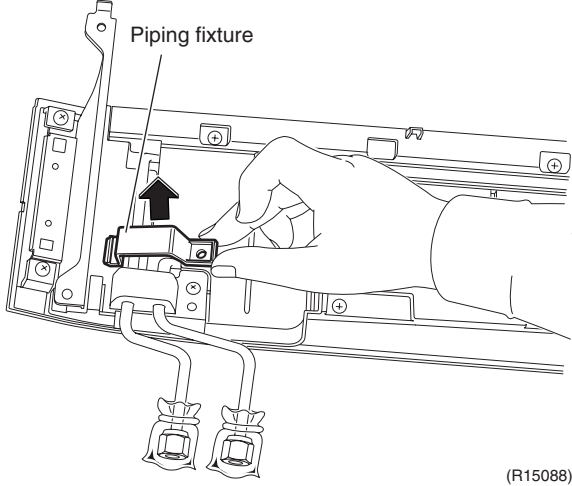
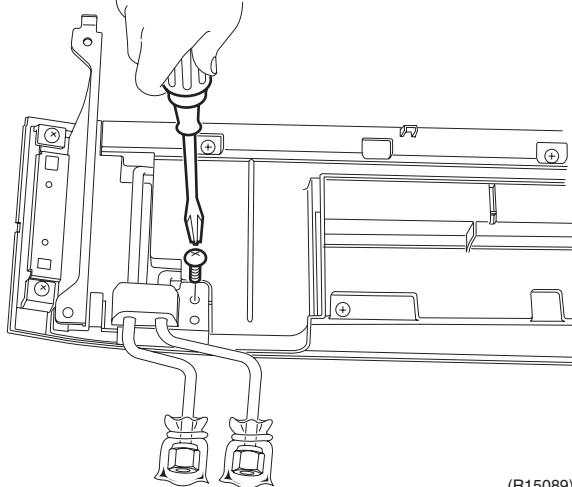
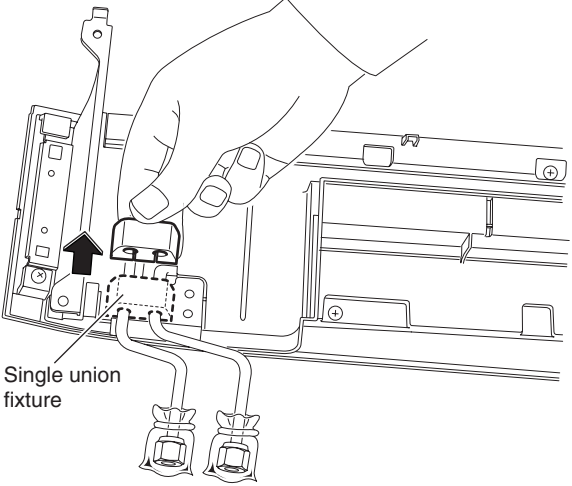


(R15078)

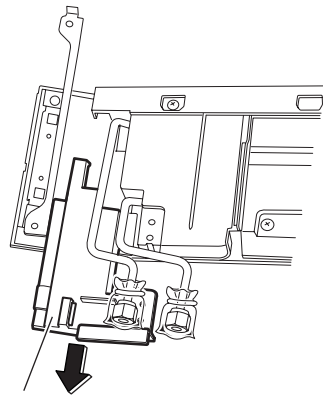
Step	Procedure	Procedure	Points
<p>5 Remove the 2 lower screws on the right and left side of the radiant panel.</p> <p>6 Remove the 2 upper screws on the right and left side of the radiant panel.</p> <p>7 Remove the radiant panel.</p>		 <p style="text-align: center;">Radiant panel</p>	
<p>8 Turn over the radiant panel.</p>		 <p style="text-align: right;">(R15082)</p>	<p style="text-align: right;">(R15081)</p>
<p>9 Remove the 2 screws on the left.</p>		 <p style="text-align: right;">(R15083)</p>	
<p>10 Remove the left panel.</p>		 <p style="text-align: center;">Left panel</p> <p style="text-align: right;">(R15084)</p>	

Step	Procedure	Points
11	Remove the 2 screws on the right.	
12	Remove the right panel.	
13	Remove the screw.	<p>■ M4 x 16</p>



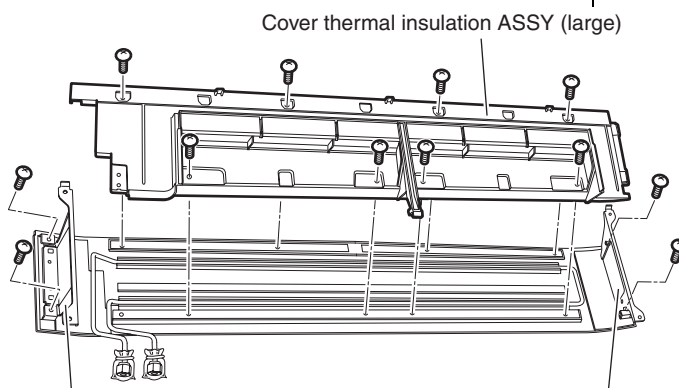
Step	Procedure	Points
14	<p data-bbox="199 219 416 277">Remove the piping fixture.</p>  <p data-bbox="619 264 746 293">Piping fixture</p> <p data-bbox="995 703 1066 725">(R15088)</p>	
15	<p data-bbox="199 750 416 779">Remove the screw.</p>  <p data-bbox="995 1249 1066 1272">(R15089)</p>	
16	<p data-bbox="199 1288 416 1346">Remove the single union fixture.</p>  <p data-bbox="491 1682 619 1740">Single union fixture</p> <p data-bbox="995 1807 1066 1830">(R15129)</p>	

Step	Procedure	Points
17	Remove the cover thermal insulation ASSY (small).	
18	Remove the 8 screws and remove the cover thermal insulation ASSY (large).	
19	Remove the 2 screws to remove the mounting plate (right).	
20	Remove the 2 screws to remove the mounting plate (left).	



Cover thermal insulation ASSY (small)

(R15090)

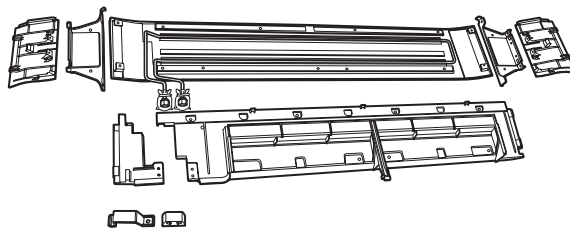


Cover thermal insulation ASSY (large)

Mounting plate (right)

Mounting plate (left)

(R15091)



(R15092)

8. Removal of Air Outlet ASSY

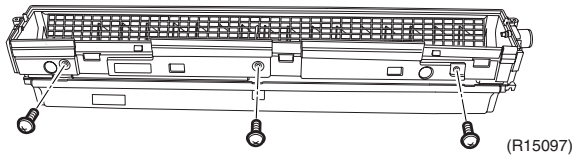
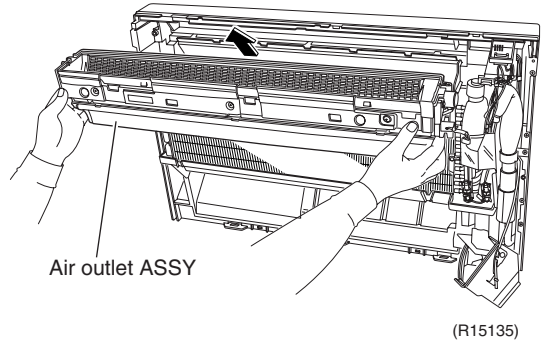
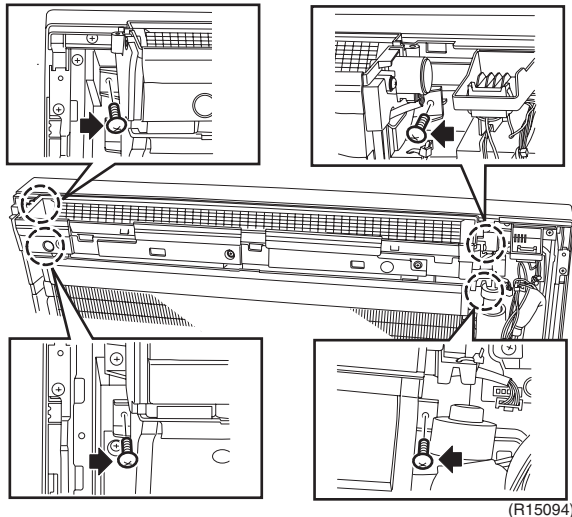
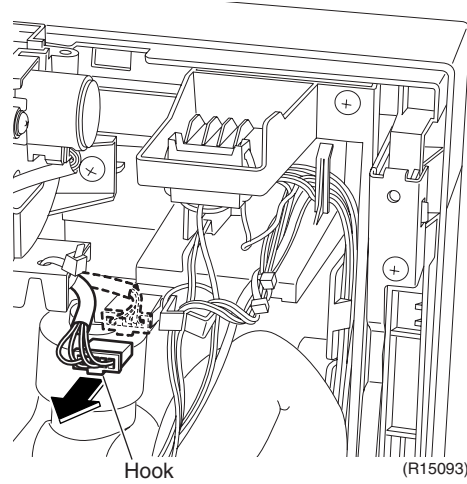
Procedure

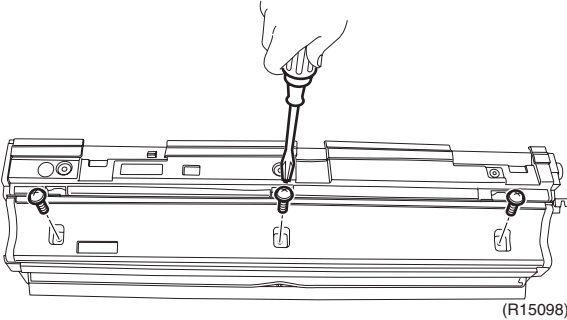
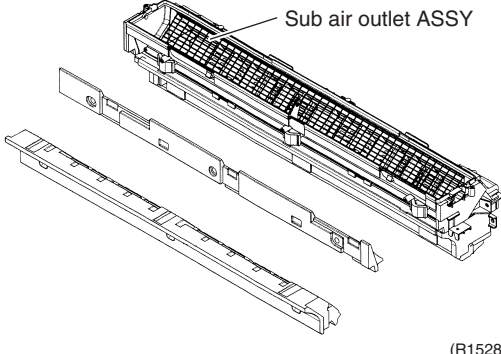
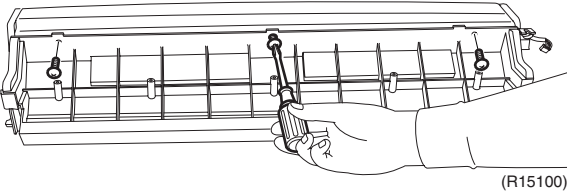
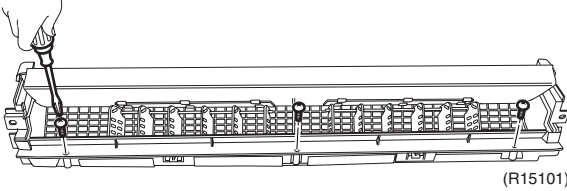
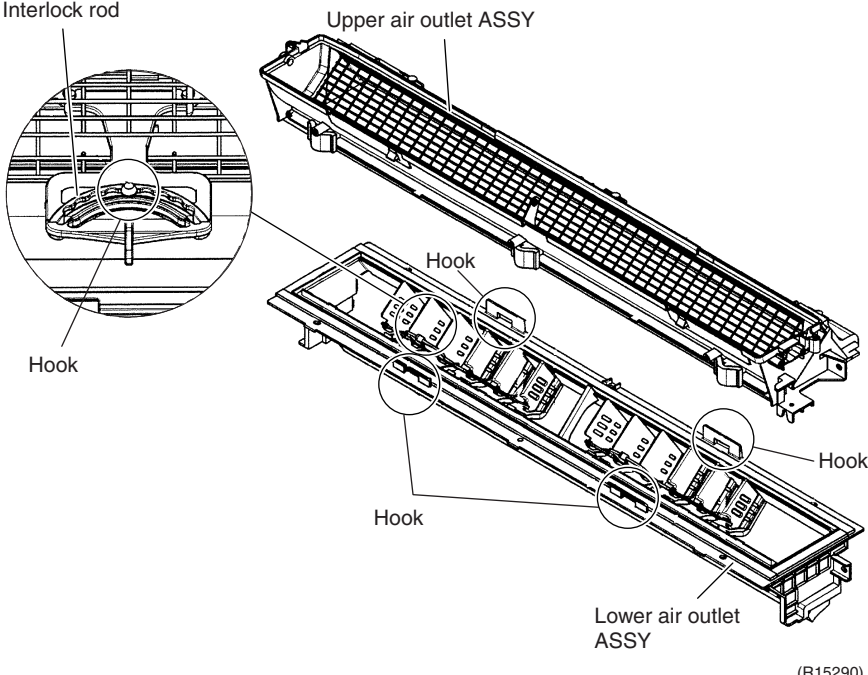


Warning

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

Step	Procedure	Points
1	Unfasten the hook and disconnect the relay connector for the swing motor.	<p>Preparation</p> <ul style="list-style-type: none"> Remove the horizontal blade according to the "Removal of Horizontal Blade".
2	Remove the 4 screws.	
3	Remove the air outlet ASSY.	
4	Remove the 3 screws of the air outlet ASSY.	



Step	Procedure	Procedure	Points
5	Turn over the air outlet ASSY and remove the 3 screws.		
6	Remove the sub air outlet ASSY.		
7	Remove the 3 screws of the sub air outlet ASSY.		
8	Turn over the sub air outlet ASSY and remove the 3 screws.		
9	To divide the sub air outlet ASSY, unfasten the 4 hooks and release the hook of the upper air outlet ASSY from the interlock rod.		

9. Removal of Drain Pan / Indoor Heat Exchanger ASSY

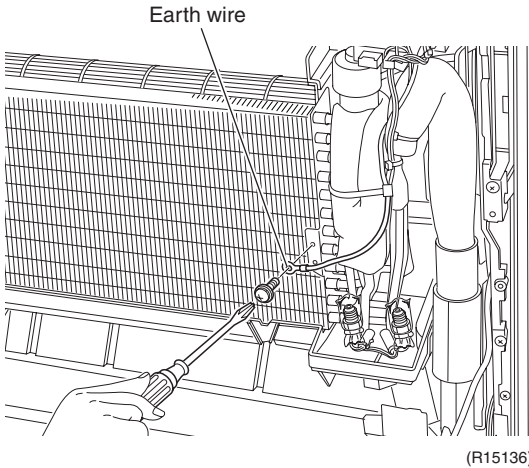
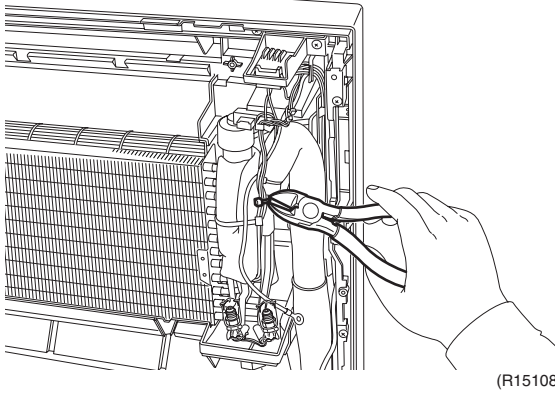
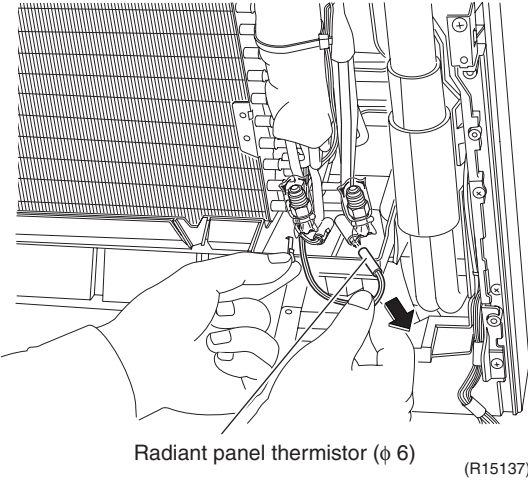
Procedure



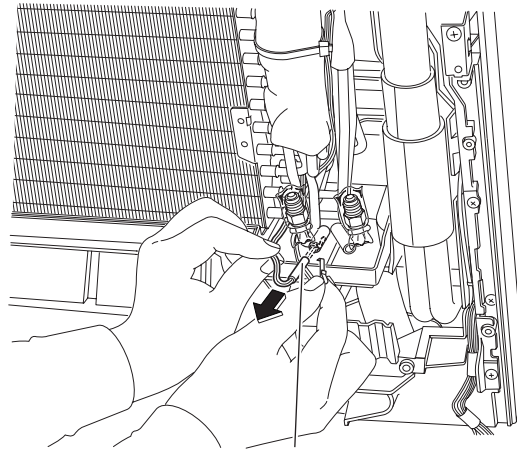
Warning

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

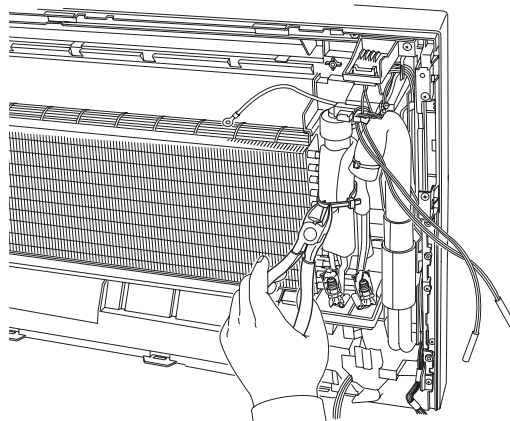
Step	Procedure	Points
1. Remove the drain pan.	<p style="text-align: right;">(R15103)</p>	<ul style="list-style-type: none"> ■ The drip proof sheet is transparent.
2. Remove the screw.	<p style="text-align: right;">(R15104)</p>	
3. Remove the piping fixture.	<p style="text-align: right;">(R15105)</p>	

Step	Procedure	Points
4	Remove the screw of the earth wire.	
	 <p style="text-align: center;">Earth wire</p> <p style="text-align: right;">(R15136)</p>	
5	Cut the clamp.	
	 <p style="text-align: right;">(R15108)</p>	
6	Pull out the radiant panel thermistor (φ 6).	<ul style="list-style-type: none"> ■ Take care not to lose the clip of thermistor.
	 <p style="text-align: center;">Radiant panel thermistor (φ 6)</p> <p style="text-align: right;">(R15137)</p>	

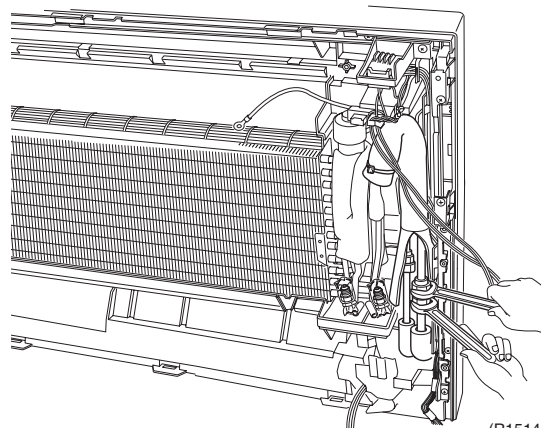
Step	Procedure	Points
7	Pull out the radiant panel thermistor ($\phi 4$).	<ul style="list-style-type: none"> ■ Take care not to lose the clip of thermistor.
8	Cut the clamp.	<ul style="list-style-type: none"> ■ When the pipings are disconnected, protect the both openings from entering moisture.
9	Disconnect the connecting sections of the liquid piping and the gas piping.	
10	Remove the 2 screws.	



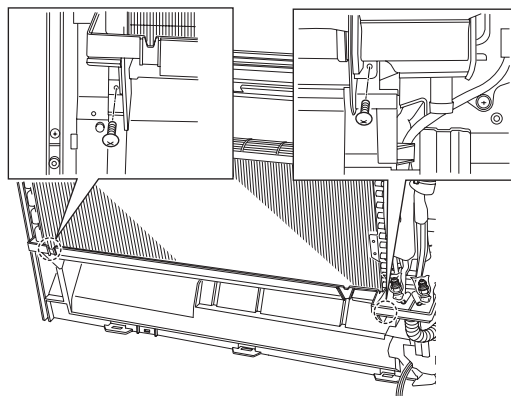
Radiant panel thermistor ($\phi 4$)
(R15138)



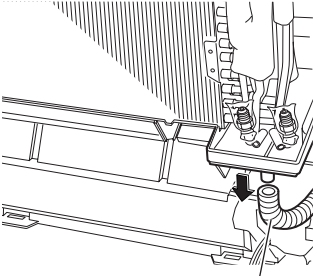
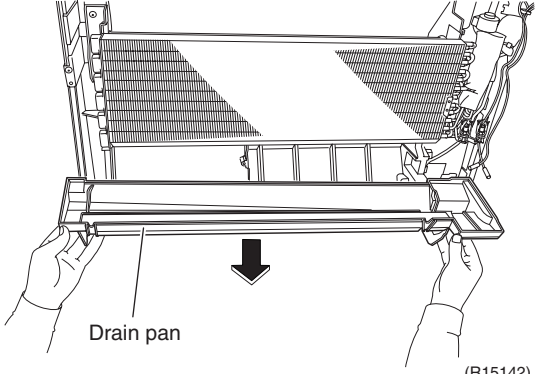
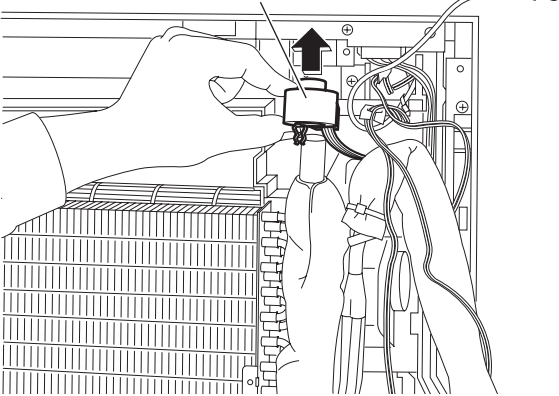
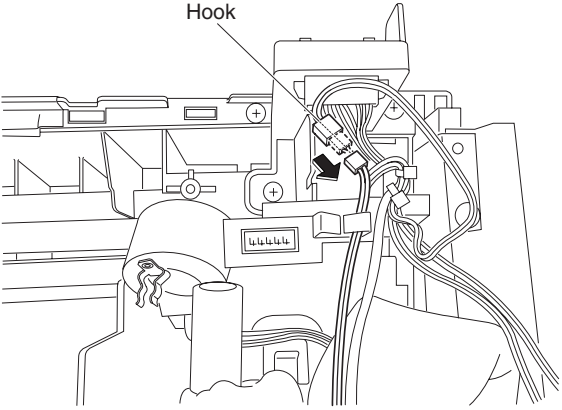
(R15139)

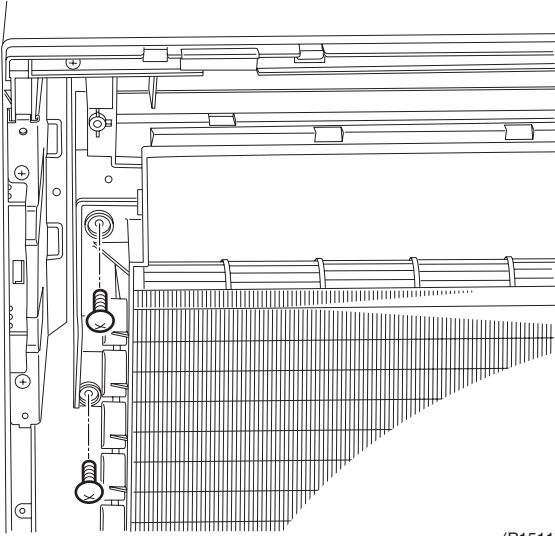

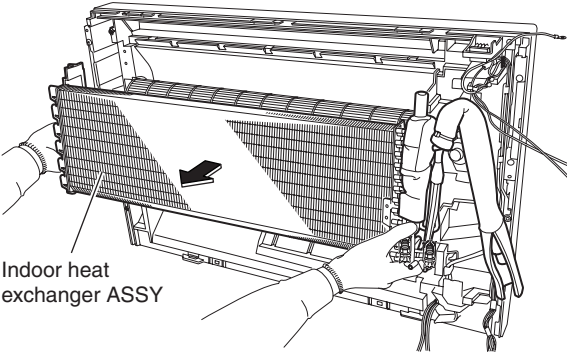
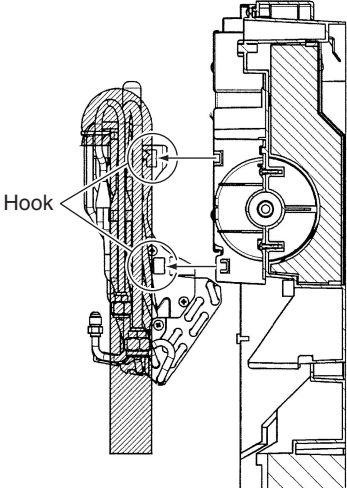
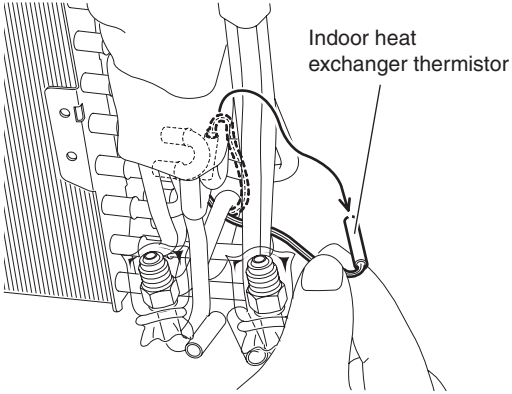


(R15140)



(R15141)

Step	Procedure	Points
<p>11 Disconnect the drain hose.</p> <p>12 Remove the drain pan.</p>	 <p>Drain hose (R15315)</p>  <p>Drain pan (R15142)</p>	<ul style="list-style-type: none"> Be careful not to wet the floor with drain.
<p>2. Remove the indoor heat exchanger ASSY.</p> <p>1 Remove the indoor electronic expansion valve coil.</p> <p>2 Unfasten the hook and disconnect the relay connector for the indoor heat exchanger thermistor.</p>	<p>Indoor electronic expansion valve coil</p>  <p>(R15113)</p> <p>Hook</p>  <p>(R15316)</p>	<ul style="list-style-type: none"> There is a hook inside the indoor electronic expansion valve coil. Do not deform the hook.

Step	Procedure	Points
3	<p>Remove the 2 screws on the left side.</p>  <p style="text-align: right;">(R15117)</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>
4	<p>Unfasten the 2 hooks on the right and remove the indoor heat exchanger ASSY.</p>  <p style="text-align: right;">(R15118)</p>	<p>■ The indoor heat exchanger ASSY has 2 hooks on the right.</p>  <p style="text-align: right;">(R15324)</p>
5	<p>Pull out the indoor heat exchanger thermistor.</p>  <p style="text-align: right;">(R15111)</p>	

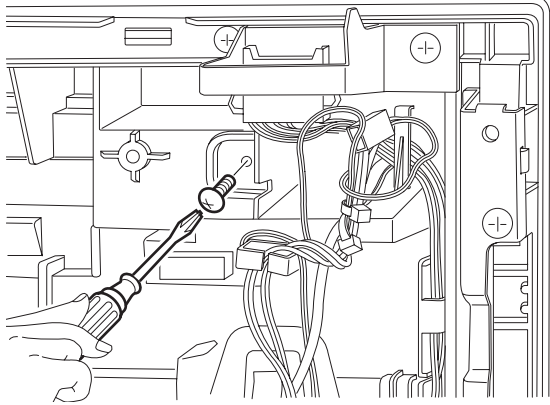
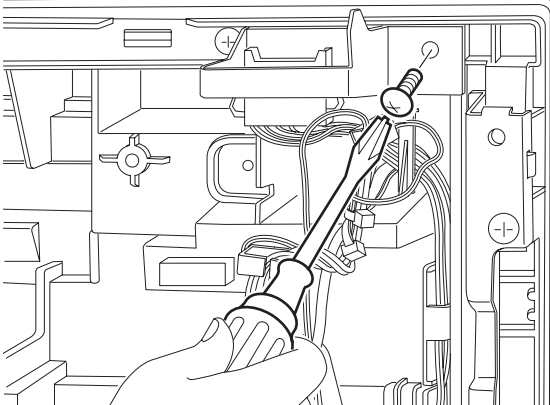
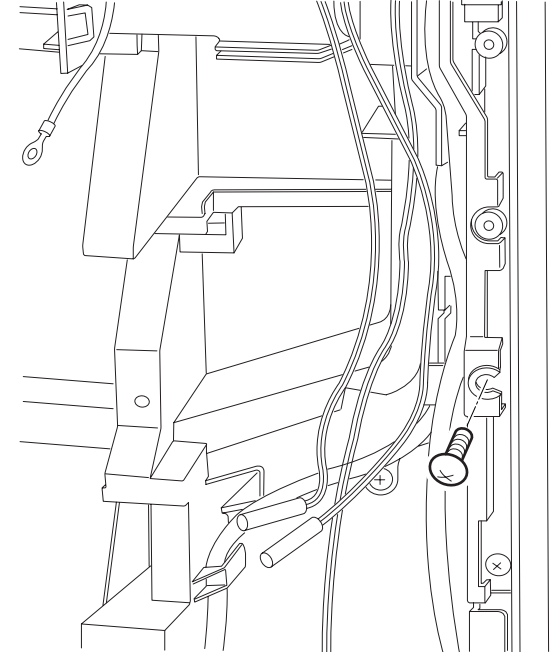
10. Removal of Fan Rotor / Fan Motor

Procedure

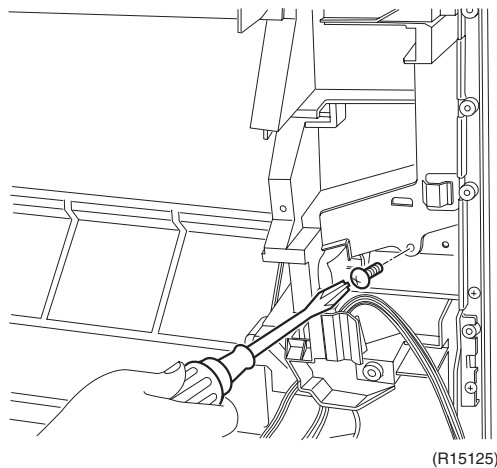
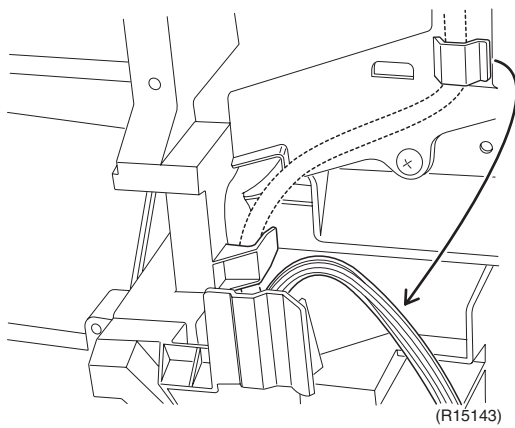
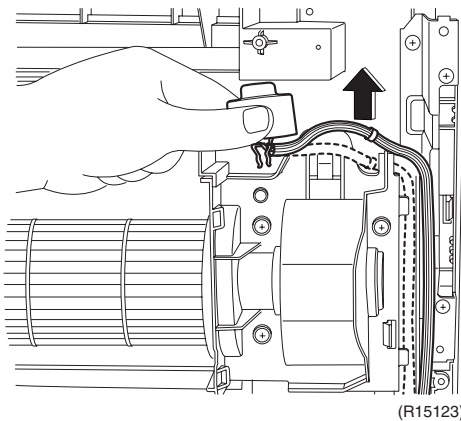
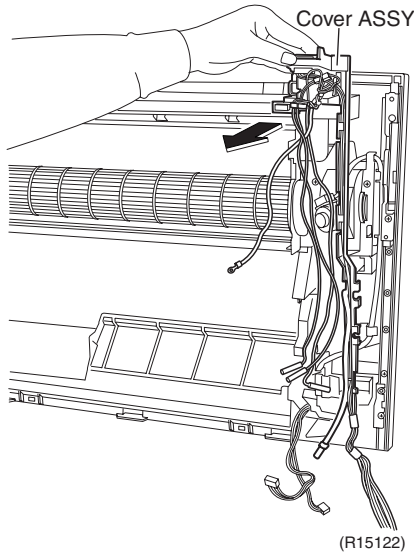


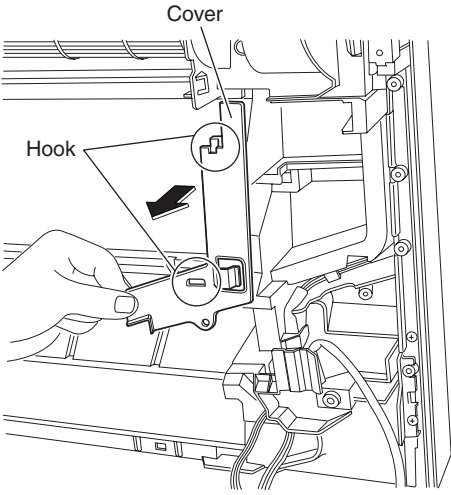
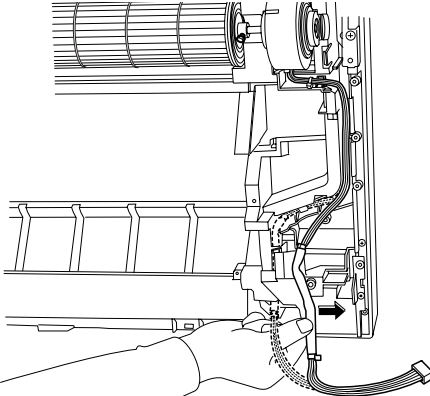
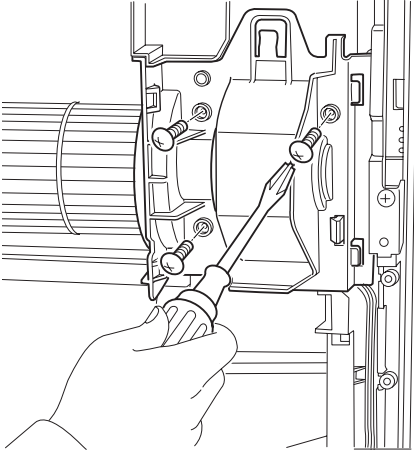
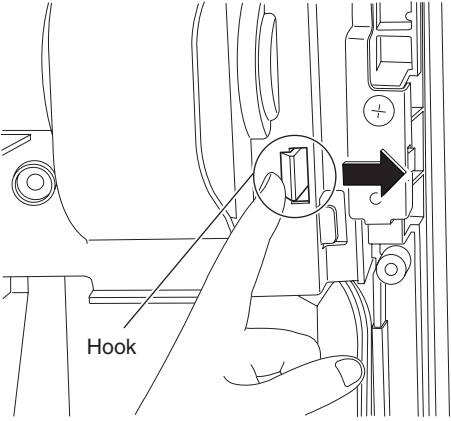
Warning

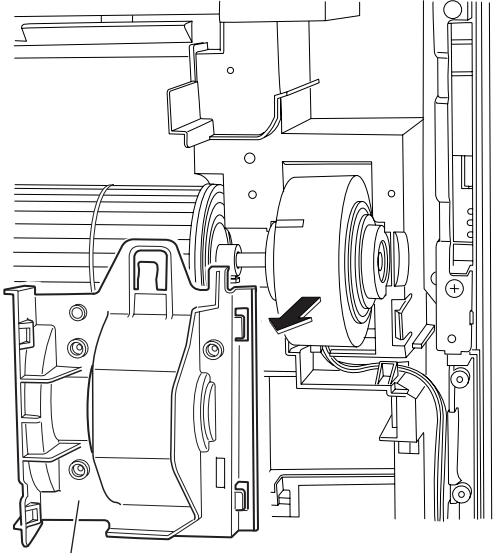
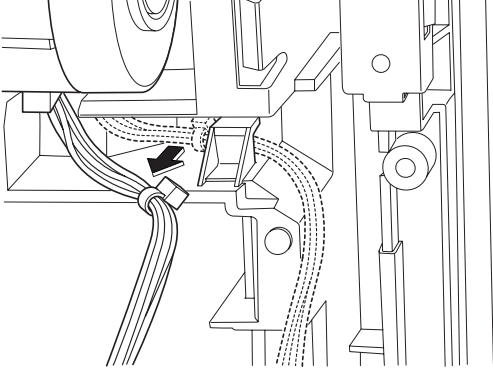
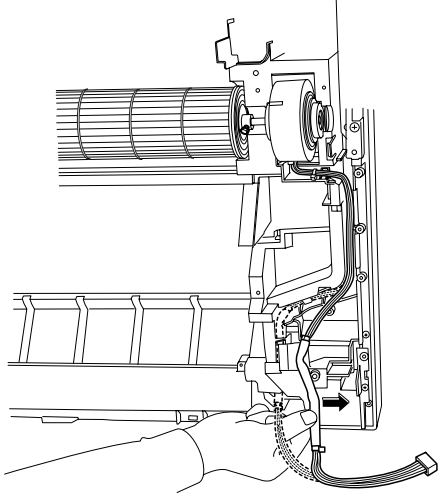
Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1	<p>Remove the 3 screws.</p>  <p>(R15119)</p>  <p>(R15120)</p>  <p>(R15121)</p>	

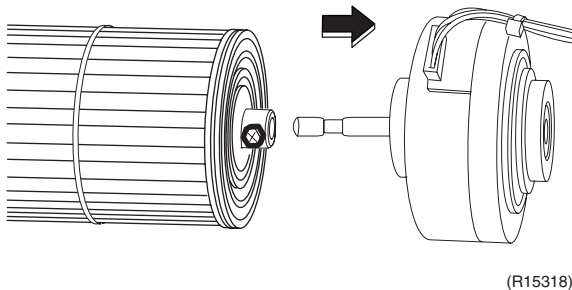
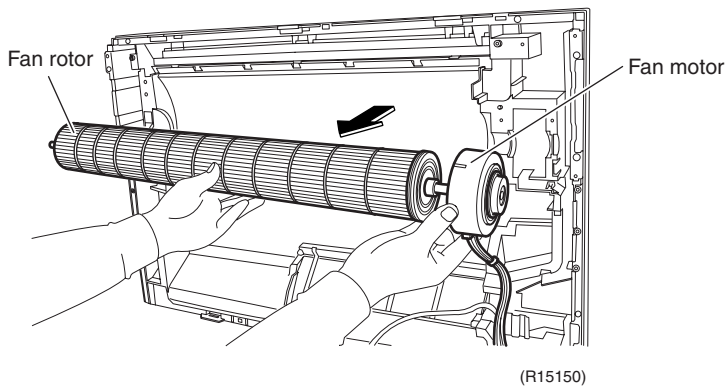
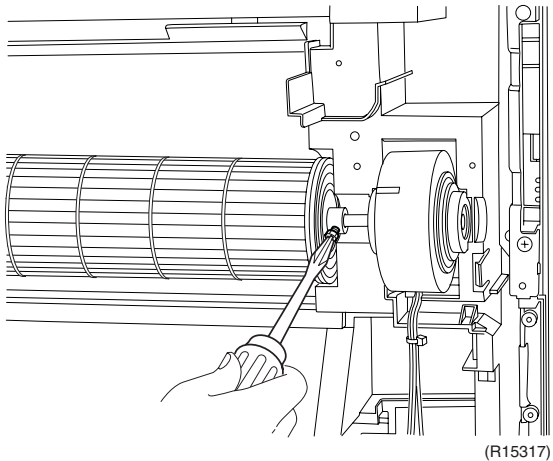
Step	Procedure	Points
2	Remove the cover ASSY.	
3	Release the harnesses for the electronic expansion valve coil from the hook (upper).	
4	Release the harnesses for the electronic expansion valve coil from the hook (lower).	
5	Remove the screw.	



Step		Procedure	Points
6	Unfasten the 2 hooks and remove the cover.	 <p style="text-align: right;">(R15146)</p>	
7	Release the harnesses for the electronic expansion valve coil from the hooks.	 <p style="text-align: right;">(R15144)</p>	
8	Remove the 3 screws.	 <p style="text-align: right;">(R15145)</p>	
9	Unfasten the hook.	 <p style="text-align: right;">(R15147)</p>	

Step		Procedure	Points
10	Remove the motor cover.	 <p data-bbox="555 797 671 819">Motor cover</p> <p data-bbox="963 797 1029 819">(R15148)</p>	
11	Release the harnesses for the fan motor from the hook.	 <p data-bbox="963 1234 1029 1256">(R15149)</p>	
12	Release the harnesses for the fan motor from the hooks.	 <p data-bbox="938 1783 1003 1805">(R15144)</p>	

Step	Procedure	Points
13	Loosen the lock screw.	<ul style="list-style-type: none"> ■ You can remove the fan motor by loosening the screw. You do not need to remove the screw.
14	Remove the fan rotor and the fan motor.	
15	Remove the fan motor.	



Revision History

Month / Year	Version	Revised contents
08/2012	Si061149	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

DAIKIN INDUSTRIES, LTD.

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

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

http://www.daikin.com/global_ac/

©All rights reserved