




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

●Heat Pump

FVXG25K2V1B

FVXG35K2V1B

FVXG50K2V1B

Table of Contents

1. Front Panel.....	2
2. Air Filters	3
3. Front Grille ASSY	4
4. Electrical Box / PCBs	5
5. Horizontal Blade	12
6. Swing Motor	13
7. Radiant Panel.....	14
8. Air Outlet ASSY.....	17
9. Drain Pan / Indoor Heat Exchanger ASSY.....	19
10. Fan Rotor / Fan Motor	23



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

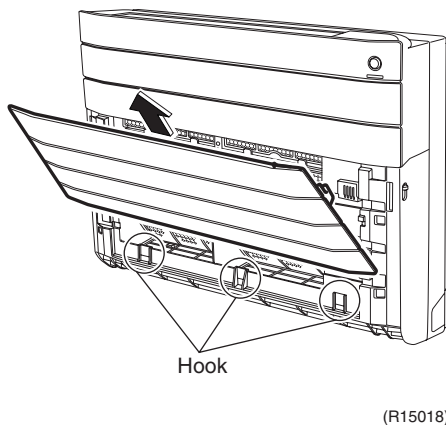
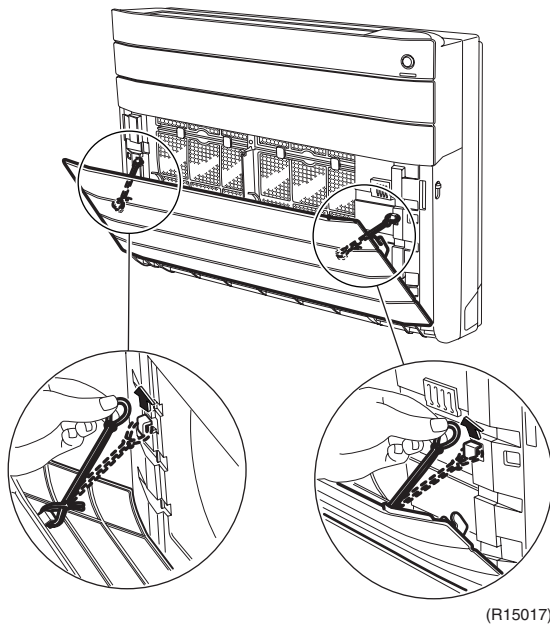
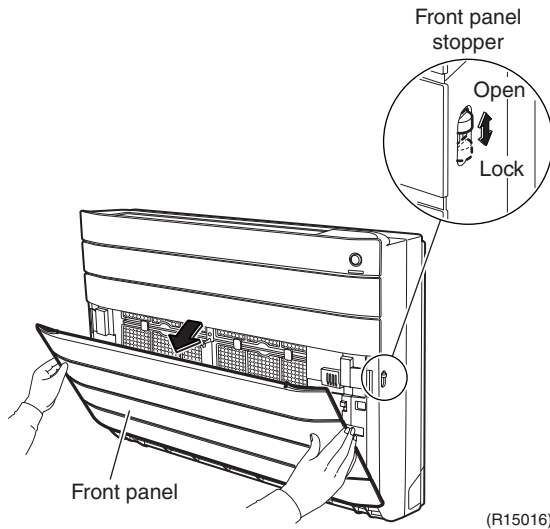
1. Front Panel



Warning

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

Step	Procedure	Points
1	Open the front panel.	
2	Release the strings from the hooks.	■ When reassembling, hang the strings on the hooks.
3	Unfasten the 3 lower hooks and remove the front panel.	

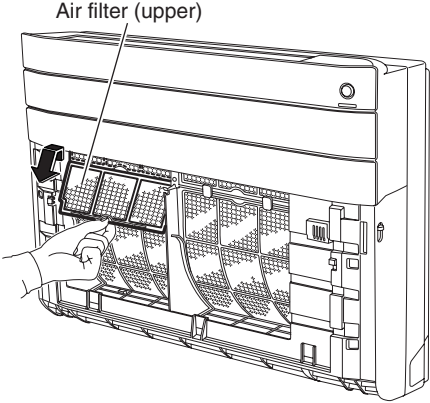
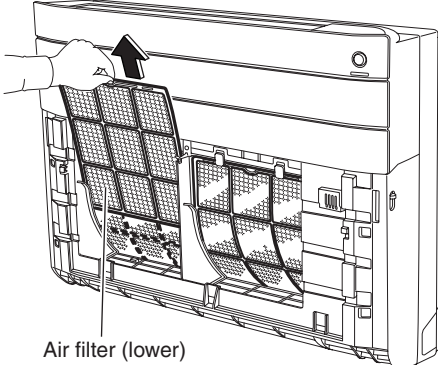
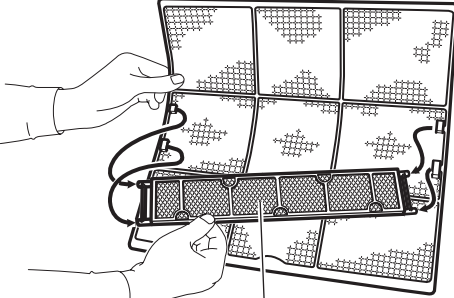
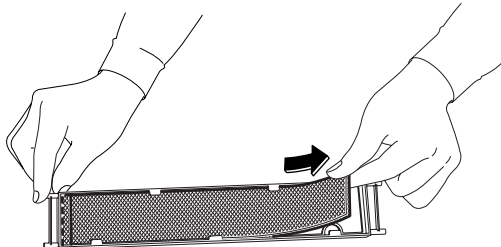


2. Air Filters



Warning

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Step	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 from the rear side of the air filter (lower).	 <p style="text-align: right;">(R15021)</p>  <p style="text-align: right;">(R15022)</p>

- To prevent the damage, do not remove the Titanium apatite photocatalytic air-purifying filter from the frame when cleaning it.

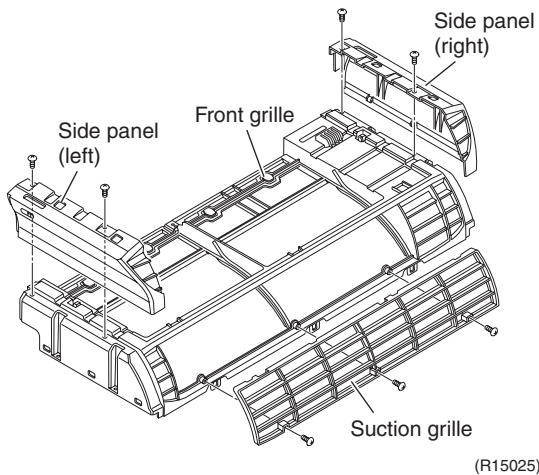
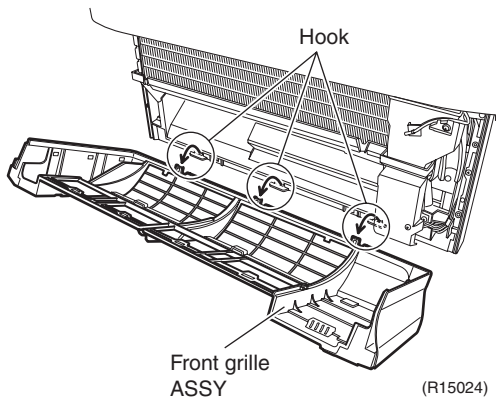
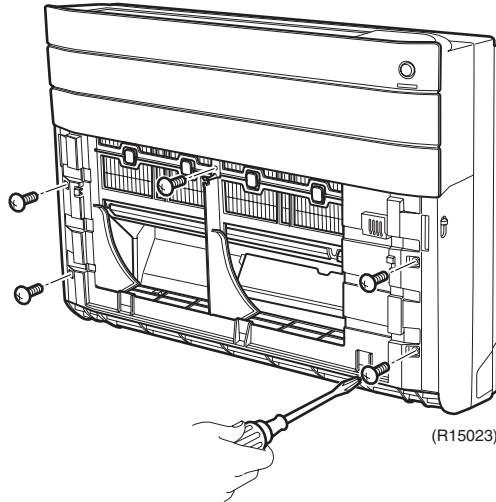
3. Front Grille ASSY



Warning

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Step	Procedure	Points
1	Remove the 5 screws.	
2	Unfasten the 3 lower hooks and remove the front grille ASSY	
3	Remove the 2 screws to remove the side panel (right).	
4	Remove the 2 screws to remove the side panel (left).	
5	Remove the 3 screws to remove the suction grille.	

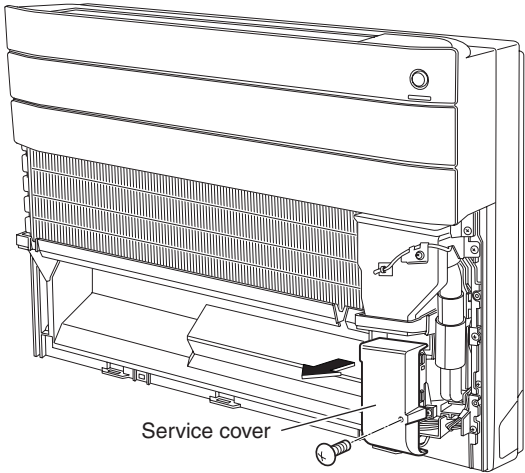
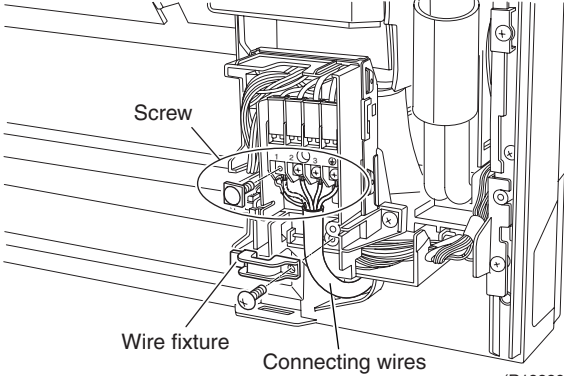
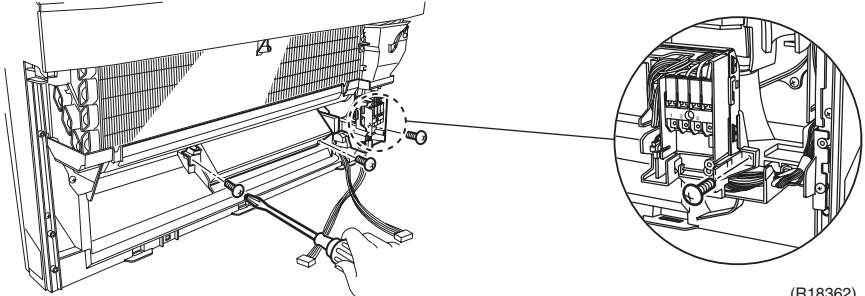


4. Electrical Box / PCBs

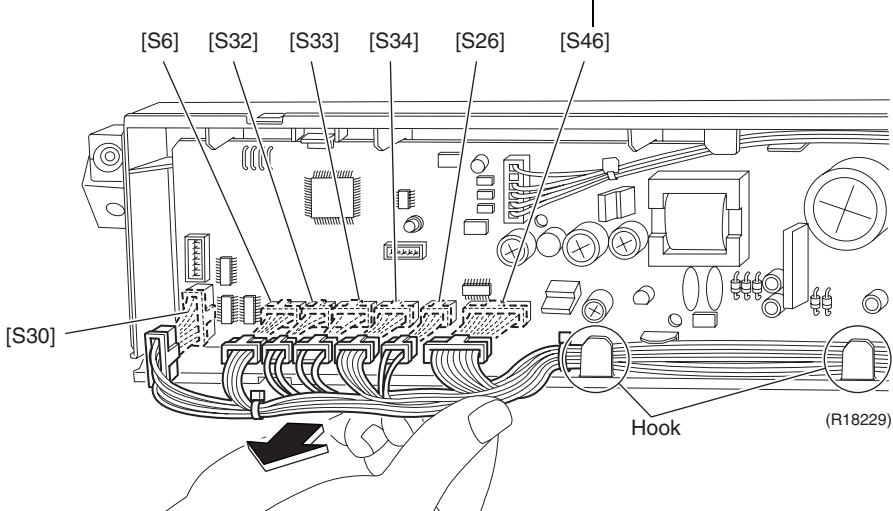
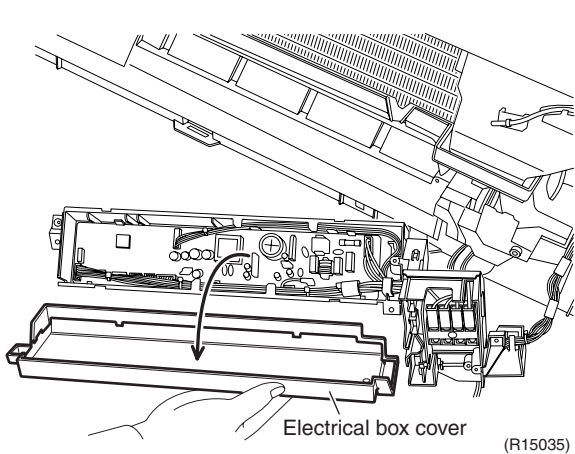
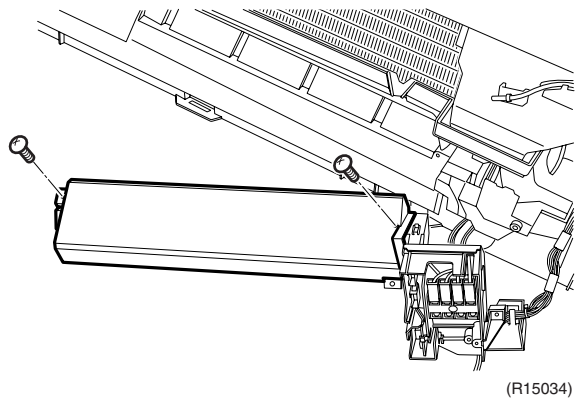


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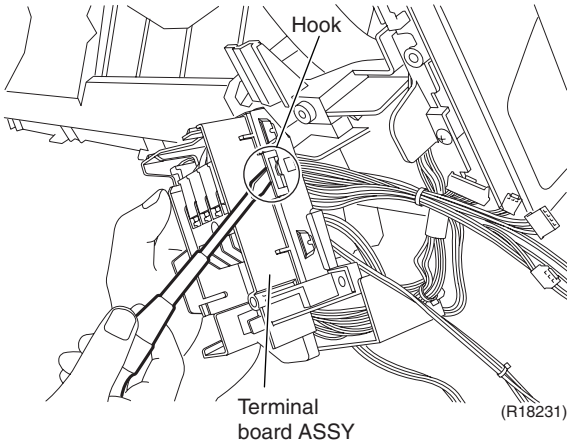
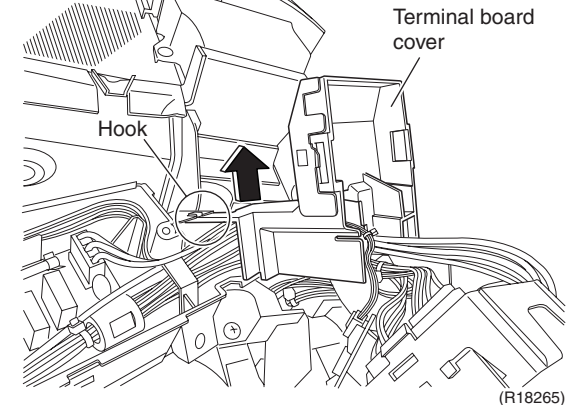
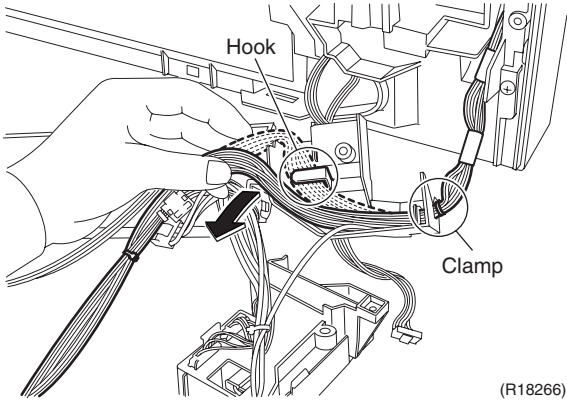
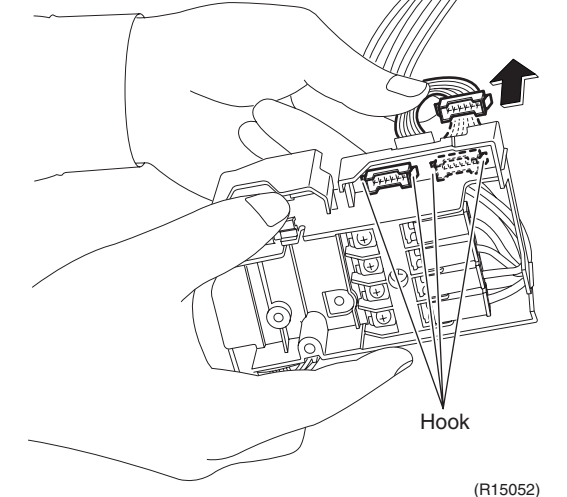
◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

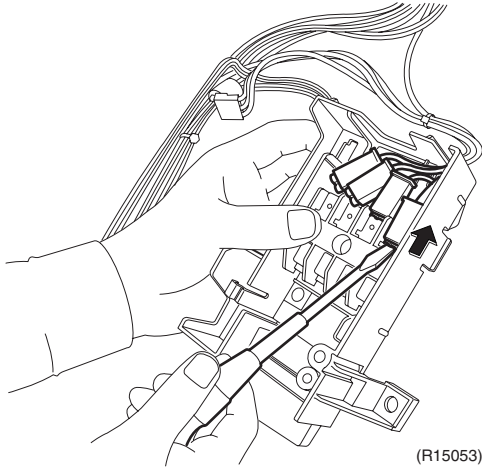
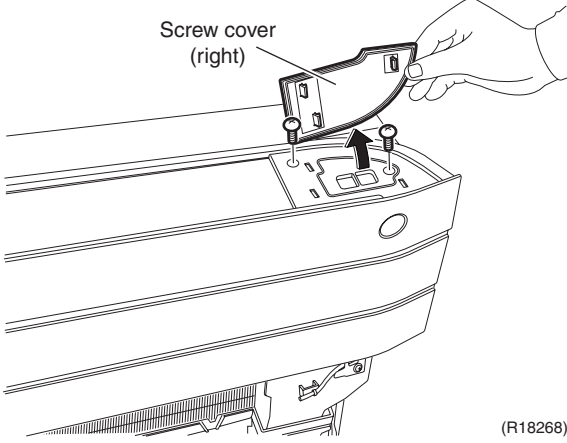
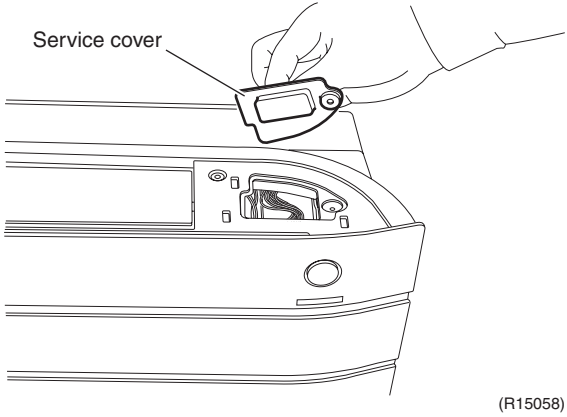
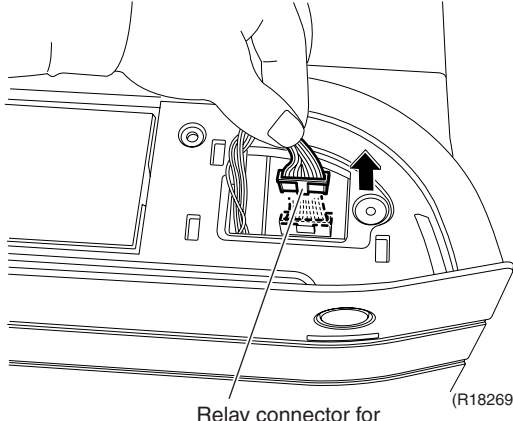
Step	Procedure	Points
1.	Remove the electrical box.	
1	Remove the screw of the service cover and remove it.	
	 <p style="text-align: center;">Service cover</p> <p style="text-align: right;">(R18225)</p>	
2	Remove the 4 screws and disconnect the connecting wires.	
3	Remove the screw and remove the wire fixture.	
	 <p style="text-align: center;">Screw</p> <p style="text-align: center;">Wire fixture</p> <p style="text-align: center;">Connecting wires</p> <p style="text-align: right;">(R18226)</p>	
4	Disconnect the relay connector for the indoor electronic expansion valve coil.	
5	Disconnect the relay connector for the fan motor.	<p>Upper: for fan motor Lower: for indoor electronic expansion valve coil</p>
6	Remove the 3 screws.	 <p style="text-align: right;">(R18362)</p>

Step	Procedure	Points
2.	Remove the main PCB.	
1	Remove the 2 screws.	
2	Remove the electrical box cover.	
3	Disconnect the connectors.	
4	Release the harnesses from the 2 hooks.	<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>

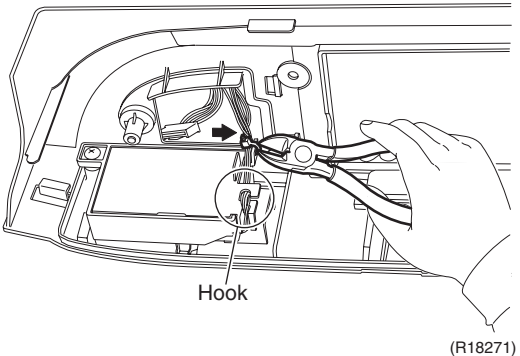
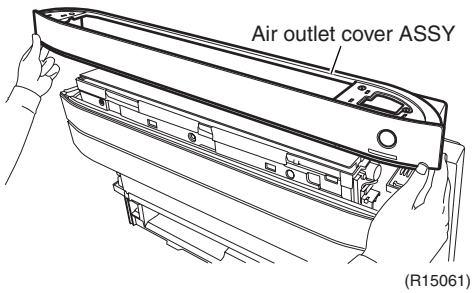
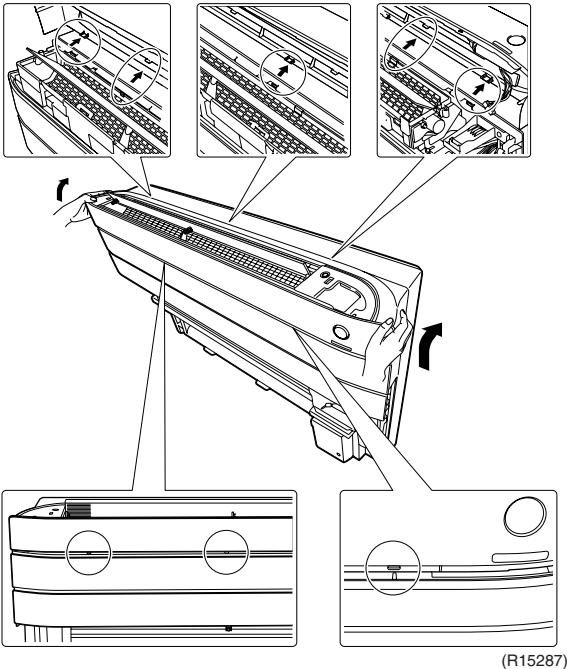
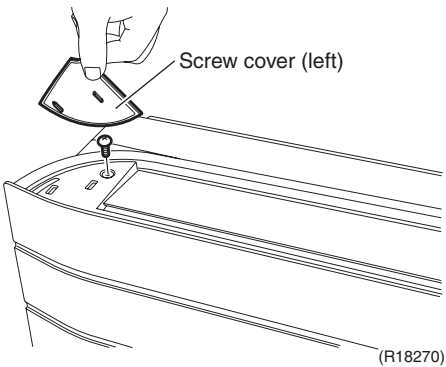


Step	Procedure	Points
<p>5 Disconnect the connector [FG] [S1] [S2].</p> <p>6 Unfasten the 2 hooks and remove the main PCB.</p>	<p style="text-align: center;">Hook</p> <p style="text-align: center;">[S1] [FG] [S2]</p> <p style="text-align: right;">(R18228)</p>	<p>[FG]: earth / ground [S1]: fan motor [S2]: terminal board</p>
3. Remove the service PCB.		
<p>1 Unfasten the hook.</p> <p>2 Disconnect the connector [S27] and remove the service PCB.</p>	<p style="text-align: right;">Hook</p> <p style="text-align: right;">[S27] Service PCB</p> <p style="text-align: right;">(R18230)</p>	<p>[S27]: for main PCB</p>
4. Remove the terminal board ASSY.		
<p>1 Remove the screw.</p>	<p style="text-align: right;">(R15047)</p>	

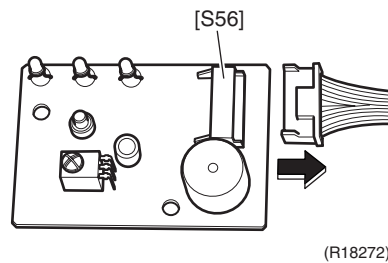
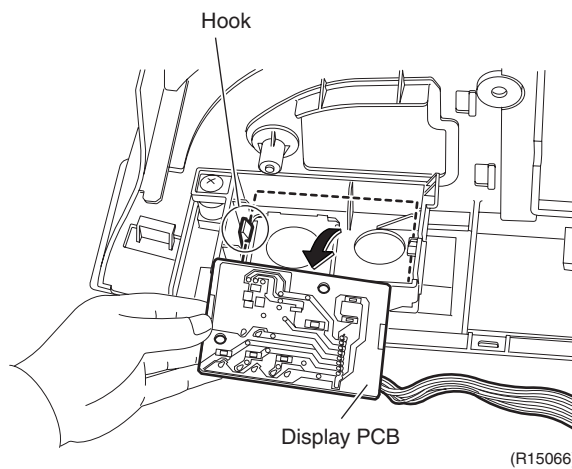
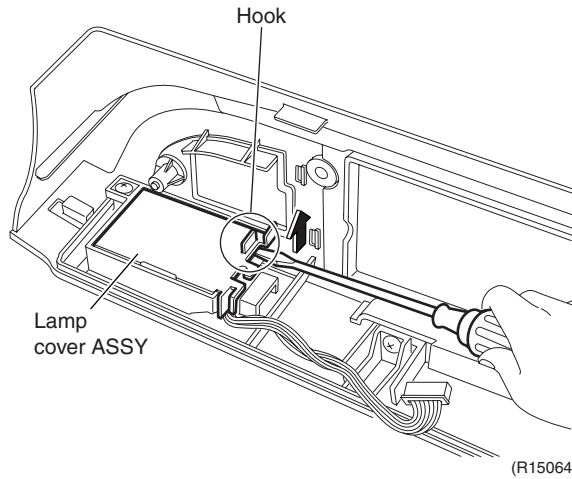
Step	Procedure	Points
2	Unfasten the hook and remove the terminal board ASSY.	
3	Unfasten the hook and remove the terminal board cover.	
4	Release the harnesses from the hook.	
5	Cut the clamp.	
6	Unfasten the 2 hooks of each connector. Pull out the 2 relay connectors.	<p>Upper (brown): fan motor Lower (red): indoor electronic expansion valve</p>
		

Step	Procedure	Points
7	<p>Release the 4 terminals and remove the terminal board ASSY.</p>  <p>(R15053)</p>	
<p>5. Remove the display PCB.</p> <p>1</p> <p>2</p> <p>3</p> <p>4</p>	<p>Remove the screw cover (right) with a flat screwdriver.</p> <p>Remove the 2 screws.</p> <p>Remove the service cover.</p> <p>Disconnect the relay connector for the display PCB.</p>  <p>Screw cover (right)</p> <p>(R18268)</p>  <p>Service cover</p> <p>(R15058)</p>  <p>Relay connector for the display PCB</p> <p>(R18269)</p>	<p>■ Use a piece of cloth to protect the surface of the indoor unit.</p>

Step	Procedure	Points
5	Remove the screw cover (left) with a flat screwdriver and remove the screw.	<ul style="list-style-type: none"> ■ Use a piece of cloth to protect the surface of the indoor unit.
6	Unfasten the 8 hooks.	
7	Remove the air outlet cover ASSY.	
8	Turn over the air outlet cover ASSY and cut the clamp.	
9	Release the harnesses from the hooks.	



Step	Procedure	Points
10	Lift up the cover of the lamp cover ASSY with a flat screwdriver and open the cover.	
11	Unfasten the hook and remove the display PCB.	
12	Disconnect the connector [S56].	[S56]: main PCB



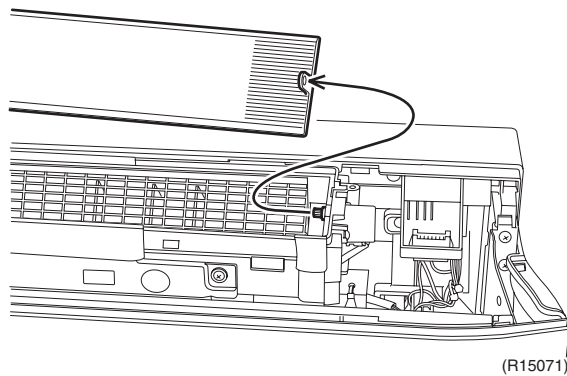
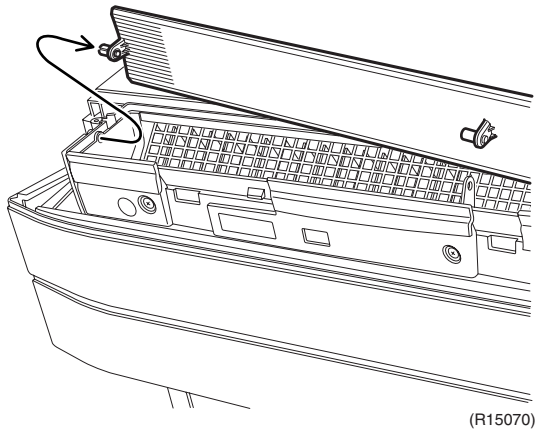
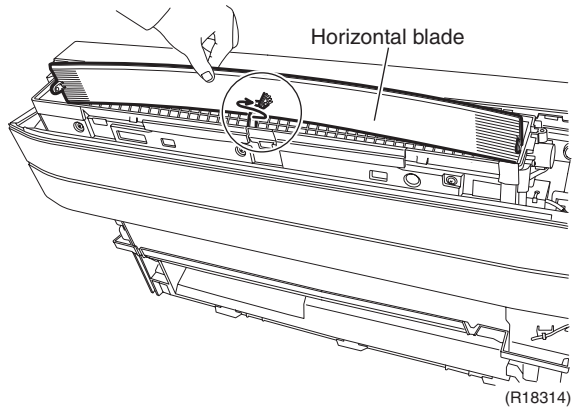
5. Horizontal Blade



Warning

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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.	



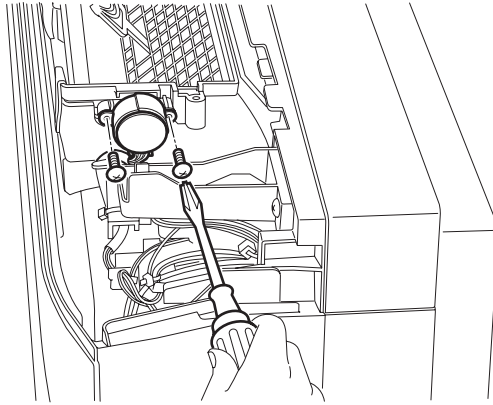
6. Swing Motor



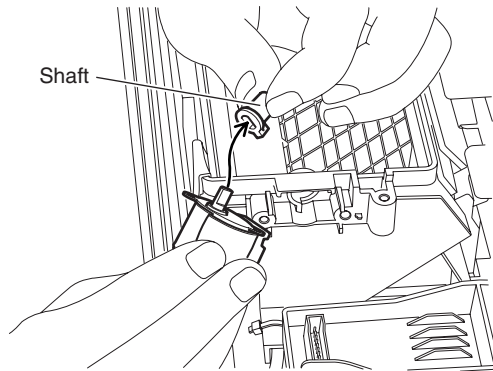
Warning

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Step	Procedure	Points
1	Remove the 2 screws and remove the swing motor.	
2	Remove the shaft.	
3	Unfasten the hook and disconnect the connector.	



(R15072)



(R15074)



(R18363)

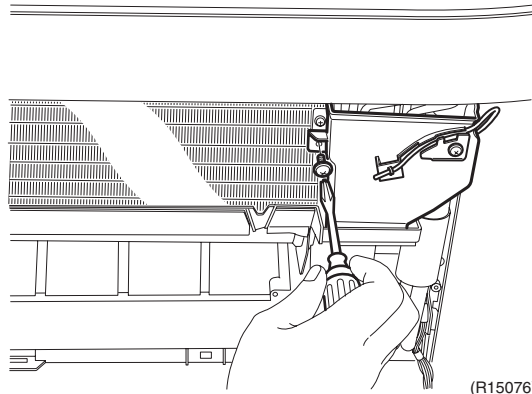
7. Radiant Panel



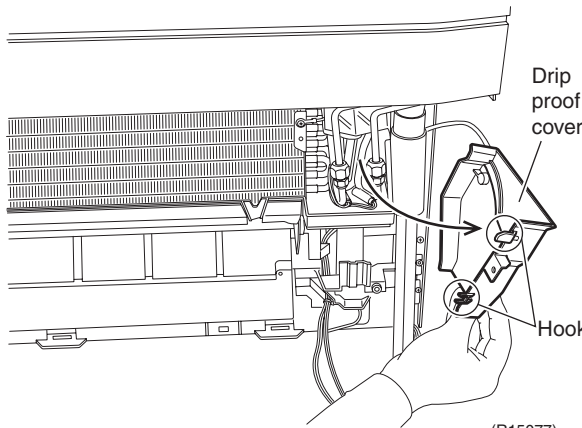
Warning

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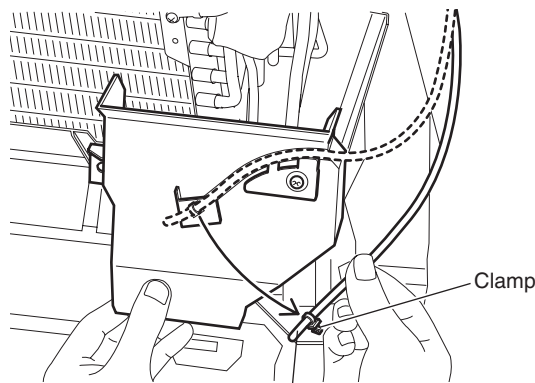
Step	Procedure	Points
1	Remove the screw.	
2	Unfasten the 2 hooks and remove the drip proof cover.	
3	Release the room temperature thermistor from the drip proof cover.	
4	Disconnect the connecting sections of the 2 pipings for the radiant panel.	<p>■ When the pipings are disconnected, protect the both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



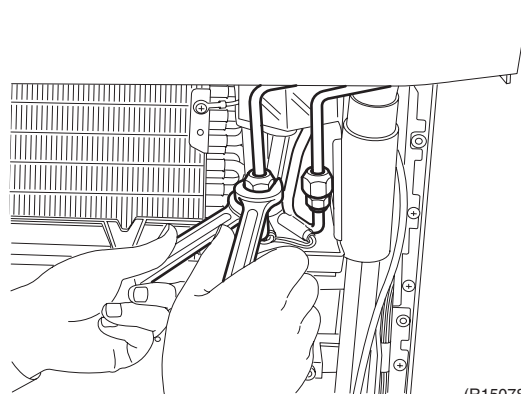
(R15076)



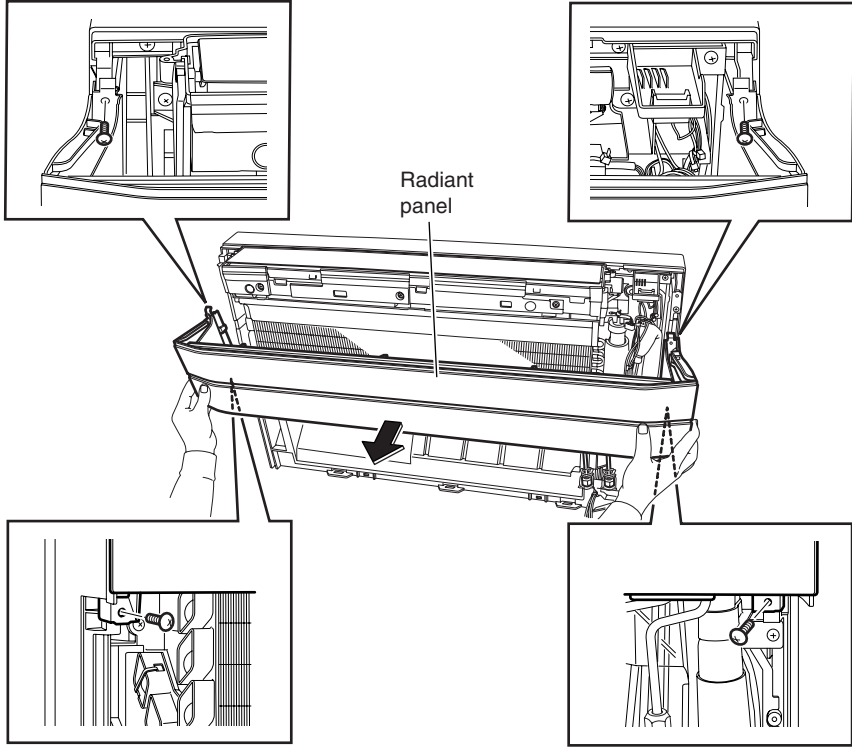
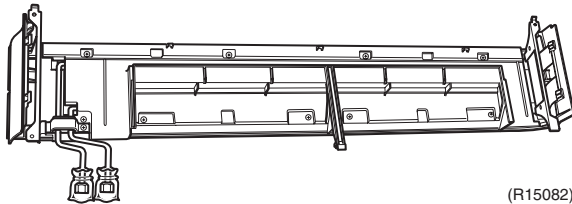
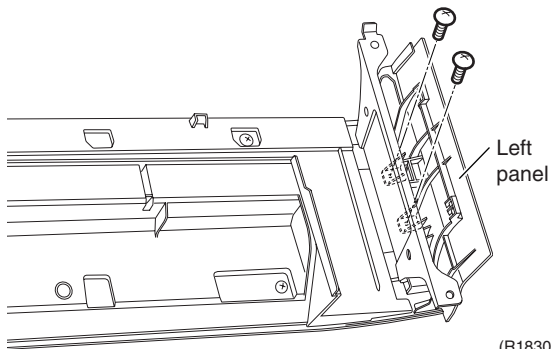
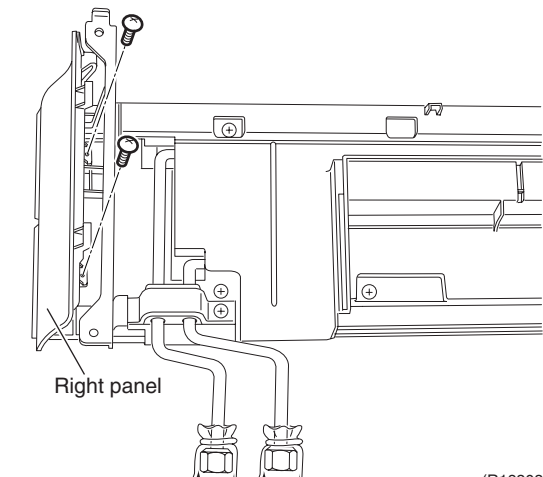
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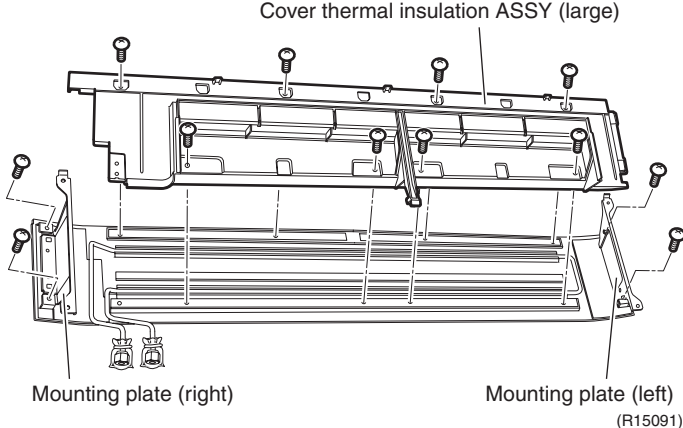
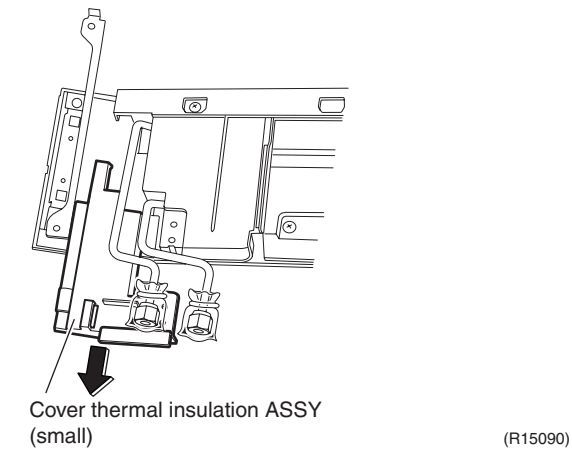
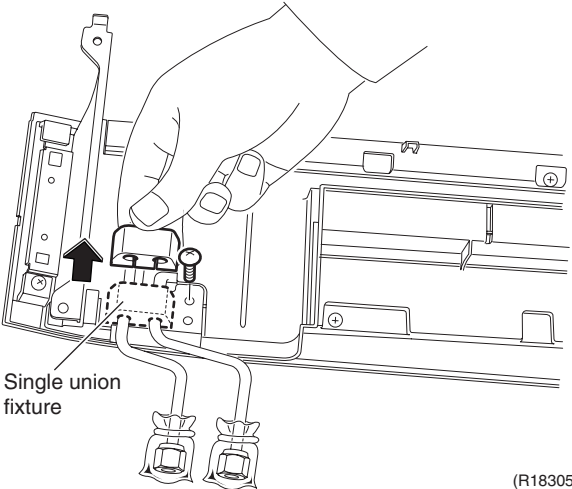
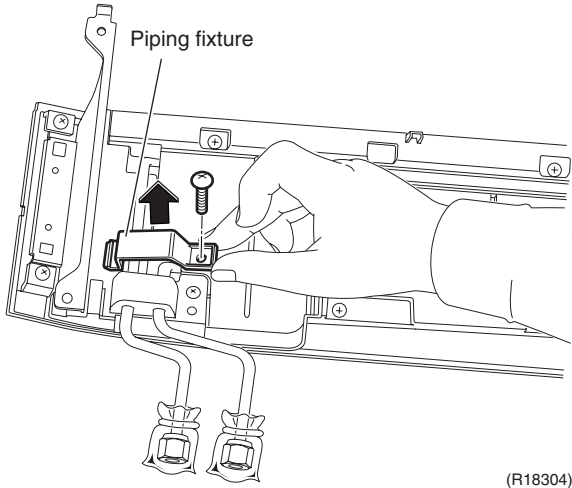
(R18315)



(R15078)

Step	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>(R15081)</p>
<p>8 Turn over the radiant panel.</p>		<p>(R15082)</p>
<p>9 Remove the 2 screws on the left and remove the left panel.</p>	 <p style="text-align: right;">Left panel</p>	<p>(R18302)</p>
<p>10 Remove the 2 screws on the right and remove the right panel.</p>	 <p style="text-align: left;">Right panel</p>	<p>(R18303)</p>

Step	Procedure	Points
11	Remove the screw and remove the piping fixture.	■ M4 × 16
12	Remove the single union fixture.	
13	Remove the screw.	
14	Remove the cover thermal insulation ASSY (small).	
15	Remove the 8 screws and remove the cover thermal insulation ASSY (large).	
16	Remove the 2 screws and remove the mounting plate (right).	
17	Remove the 2 screws and remove the mounting plate (left).	



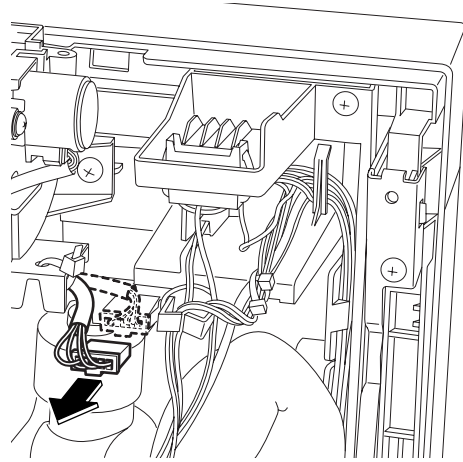
8. Air Outlet ASSY



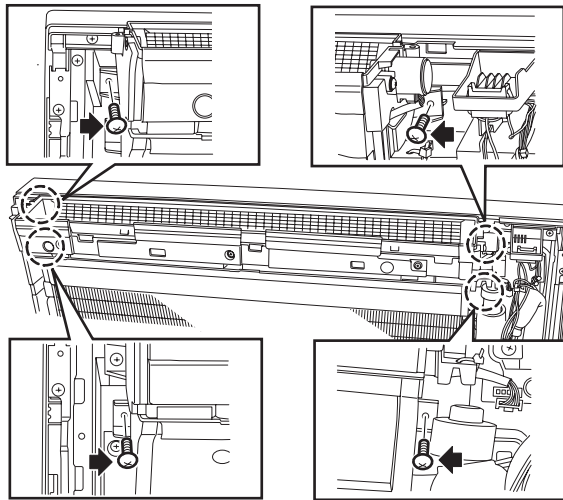
Warning

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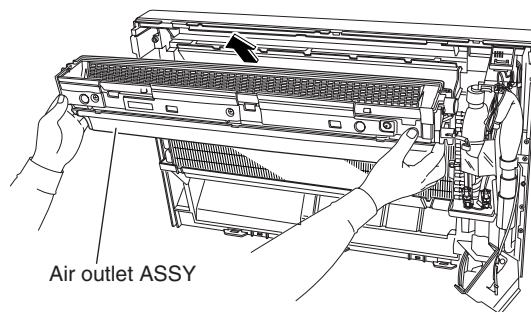
Step	Procedure	Points
1	Disconnect the relay connector for the swing motor.	
2	Remove the 4 screws.	
3	Remove the air outlet ASSY.	
4	Remove the 3 screws of the air outlet ASSY.	



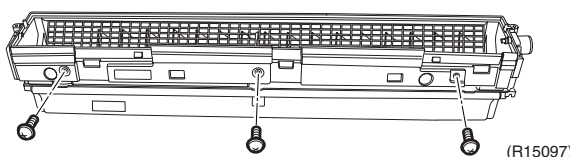
(R18306)



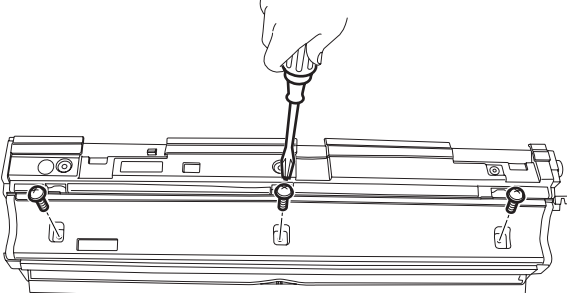
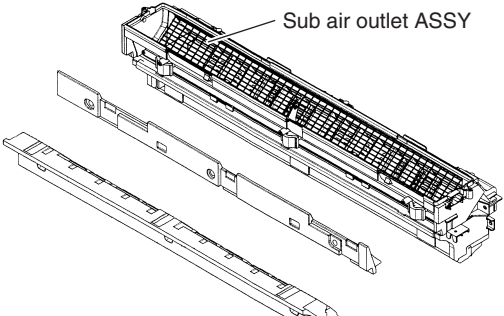
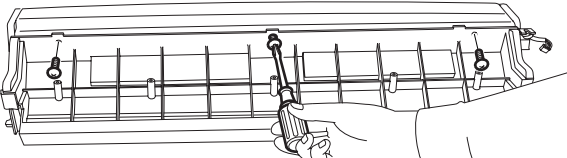
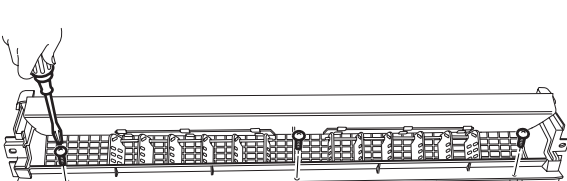
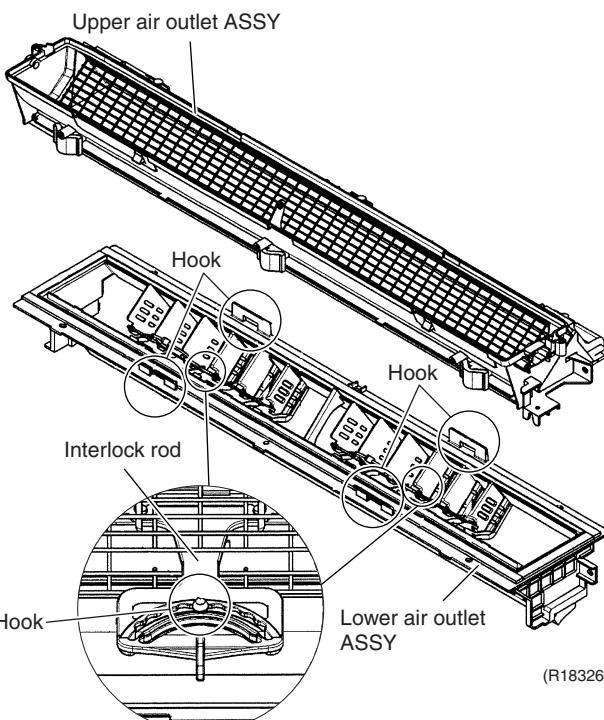
(R15094)



(R15135)



(R15097)

Step	Procedure	Procedure	Points
5	Turn over the air outlet ASSY and remove the 3 screws.	 <p>(R15098)</p>	
6	Remove the sub air outlet ASSY.	 <p>Sub air outlet ASSY</p> <p>(R15288)</p>	
7	Remove the 3 screws of the sub air outlet ASSY.	 <p>(R15100)</p>	
8	Turn over the sub air outlet ASSY and remove the 3 screws.	 <p>(R15101)</p>	
9	Unfasten the 4 hooks and release the hook of the upper air outlet ASSY from the interlock rod.	 <p>Upper air outlet ASSY</p> <p>Hook</p> <p>Hook</p> <p>Interlock rod</p> <p>Lower air outlet ASSY</p> <p>(R18326)</p>	

9. Drain Pan / Indoor Heat Exchanger ASSY



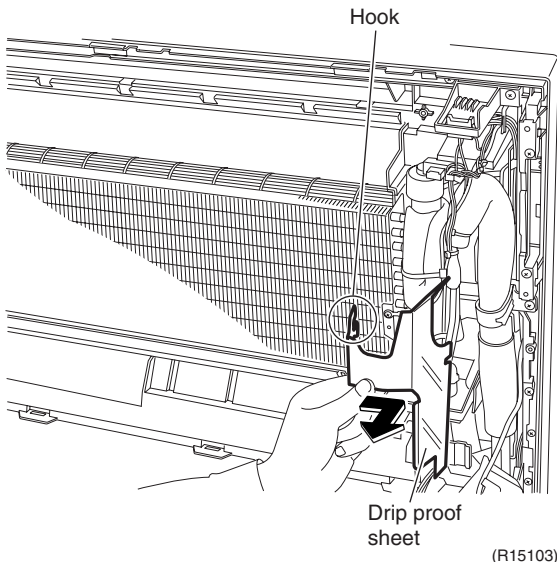
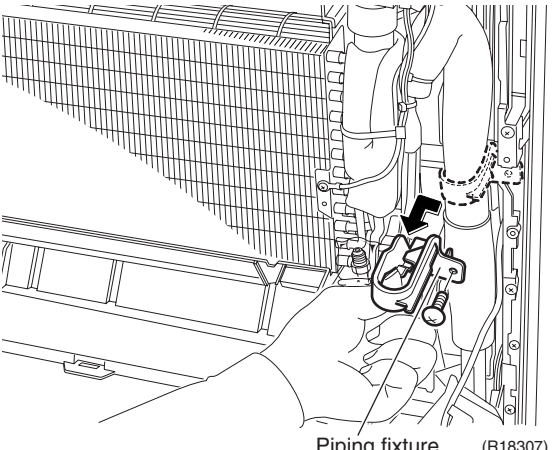
Warning

- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.
- ◆ In pump-down work, be sure to stop the compressor before disconnecting the refrigerant pipe. If the refrigerant pipe is disconnected with the compressor operating and the stop valve open, air may be sucked in and may generate an over-pressure in refrigeration cycle, thus resulting in pipe rupture or accidental injury.
- ◆ When removing or reinstalling the indoor heat exchanger, be sure to wear gloves or wrap the indoor heat exchanger with cloths. (You may be injured by the fins.)

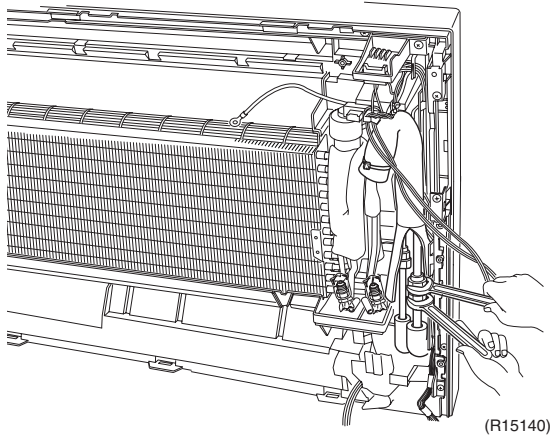
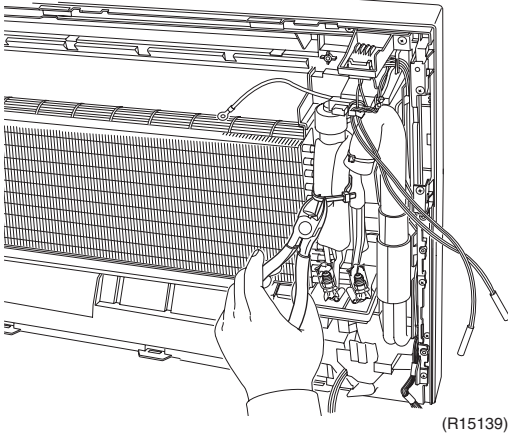
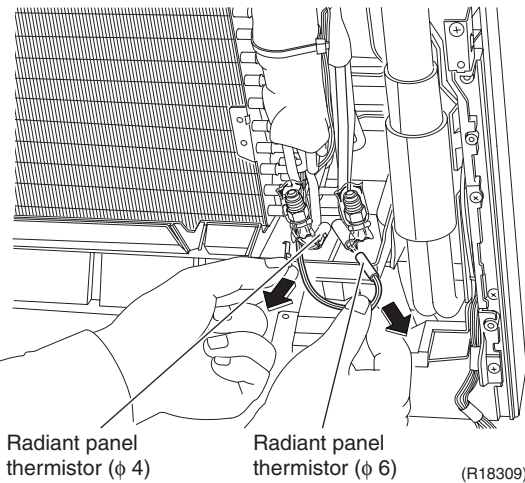
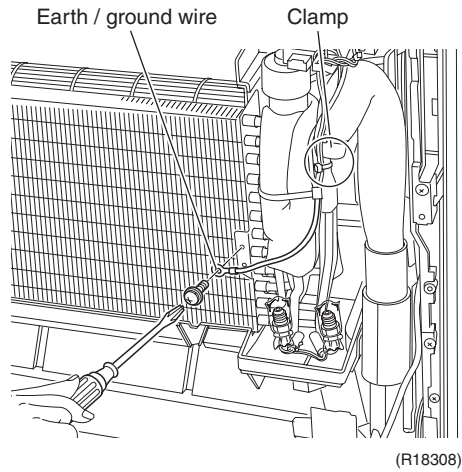


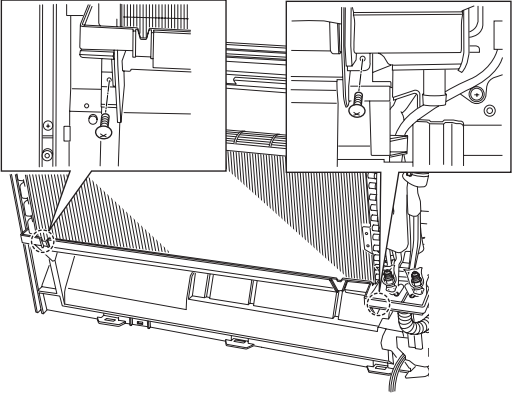
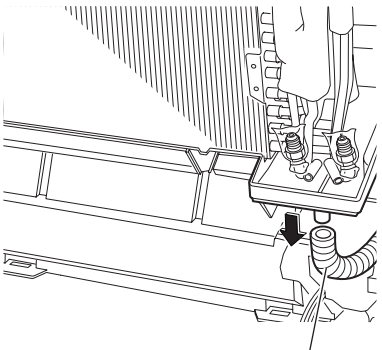
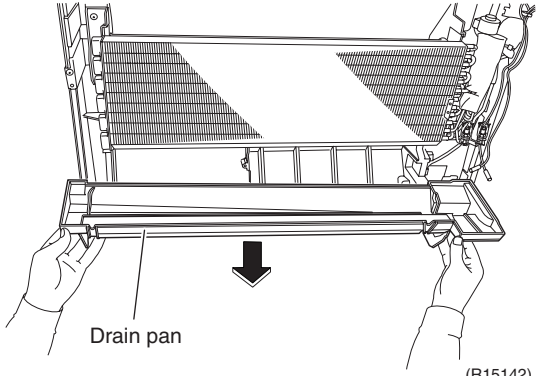
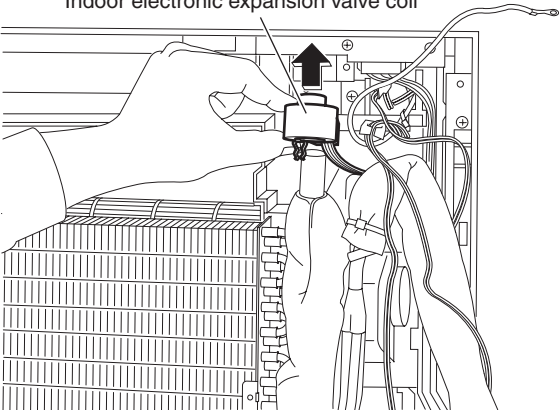
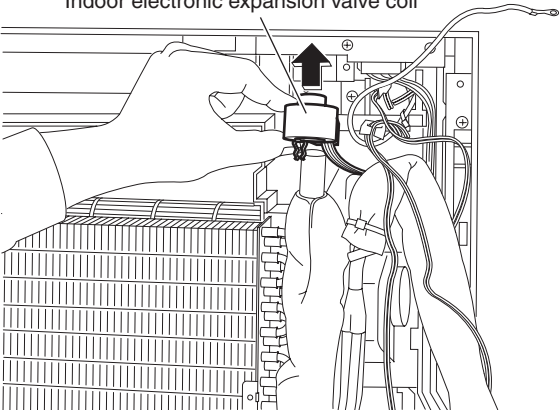
Caution

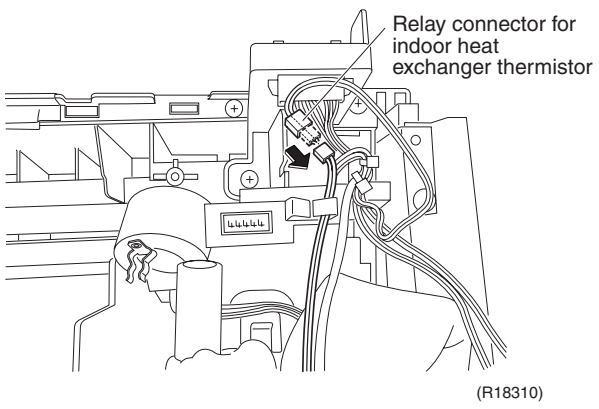
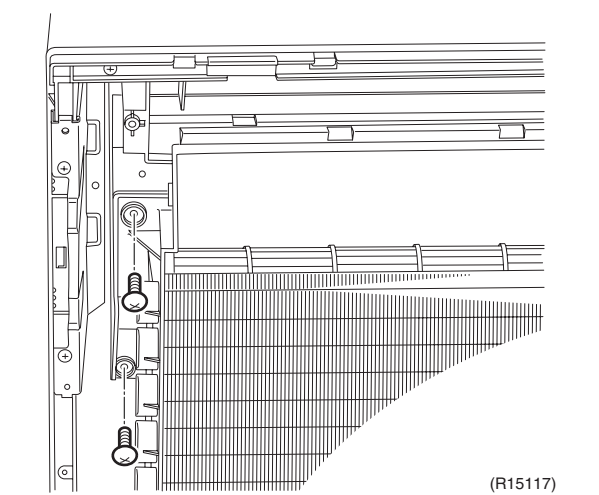
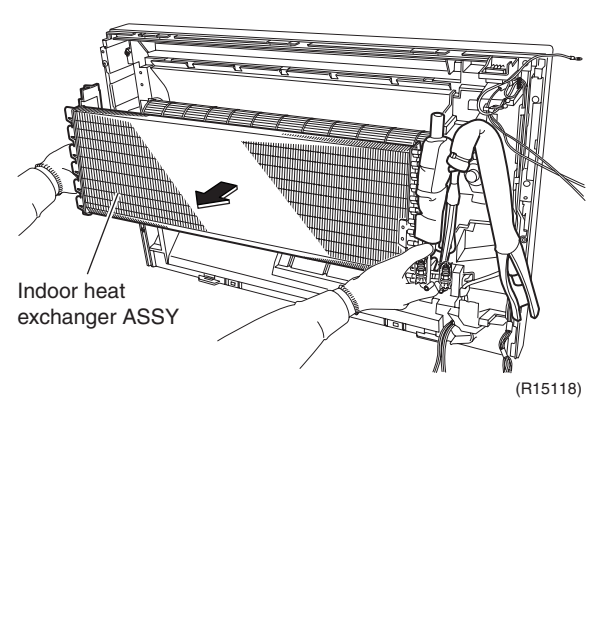
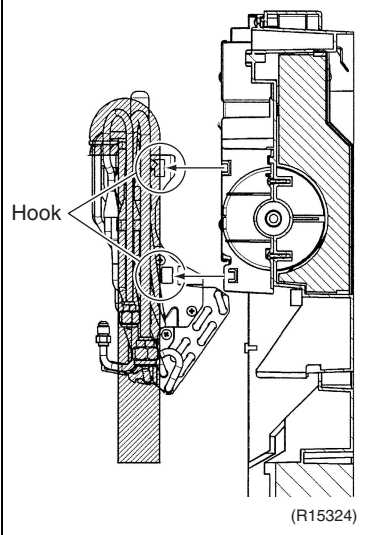
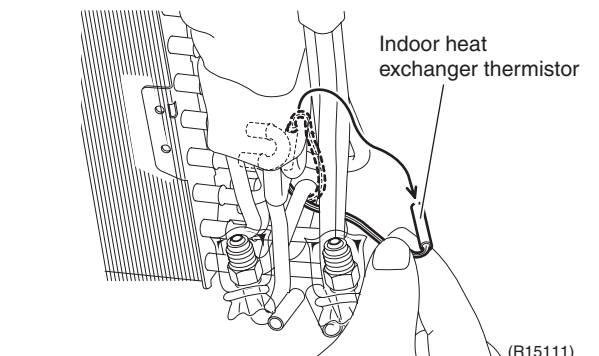
- ◆ Be sure to conduct pump down operation before disassembling the refrigerant pipe.
- ◆ If the refrigerant leaks, repair the spot of leaking, then collect all refrigerant from the unit. After conducting vacuum drying, recharge proper amount of refrigerant.
- ◆ From the viewpoint of global environmental protection, make sure to use a vacuum pump for air purging.

Step	Procedure	Points
1. Remove the drain pan. 1 Unfasten the hook and remove the drip proof sheet. 2 Remove the screw and remove the piping fixture.	 	<ul style="list-style-type: none"> ■ The drip proof sheet is transparent.

Step	Procedure	Points
3	Remove the screw of the earth / ground wire.	
4	Cut the clamp.	
5	Pull out the radiant panel thermistor (ϕ 6) and the radiant panel thermistor (ϕ 4).	<ul style="list-style-type: none"> Take care not to lose the clips of thermistors.
6	Cut the clamp.	
7	Disconnect the connecting sections of the liquid piping and the gas piping.	<ul style="list-style-type: none"> When the pipings are disconnected, protect the both openings from entering moisture.



Step	Procedure	Points
8	Remove the 2 screws.  <p style="text-align: right;">(R15141)</p>	
9	Disconnect the drain hose.  <p style="text-align: center;">Drain hose (R15315)</p>	<ul style="list-style-type: none"> ■ Be careful not to wet the floor with drain.
10	Remove the drain pan.  <p style="text-align: center;">Drain pan (R15142)</p>	
2.	Remove the indoor heat exchanger ASSY.  <p style="text-align: center;">Indoor electronic expansion valve coil (R15113)</p>	<ul style="list-style-type: none"> ■ There is a hook inside the indoor electronic expansion valve coil. Do not deform the hook.
1	Remove the indoor electronic expansion valve coil.  <p style="text-align: center;">Indoor electronic expansion valve coil (R15113)</p>	

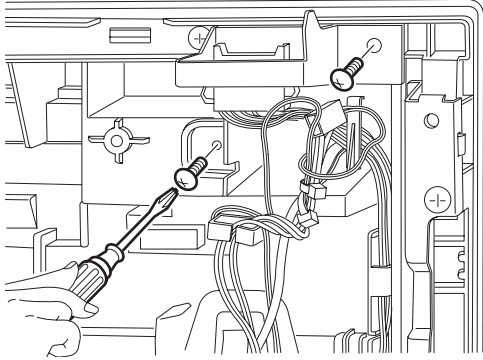
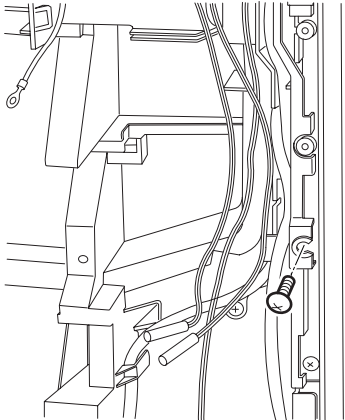
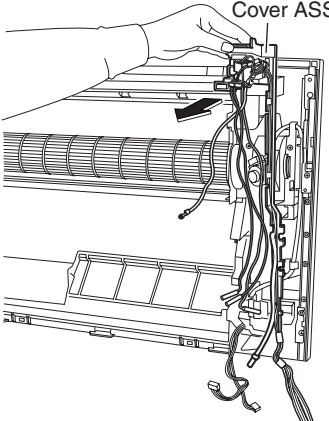
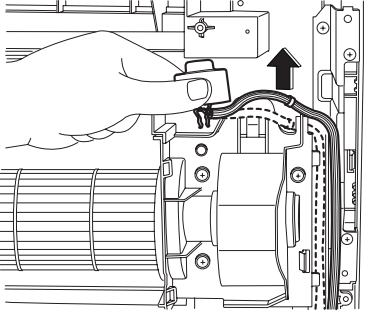
Step	Procedure	Procedure	Points
2	Disconnect the relay connector for the indoor heat exchanger thermistor.	 <p>Relay connector for indoor heat exchanger thermistor</p> <p>(R18310)</p>	
3	Remove the 2 screws on the left side.	 <p>(R15117)</p>	
4	Unfasten the 2 hooks on the right and remove the indoor heat exchanger ASSY.	 <p>Indoor heat exchanger ASSY</p> <p>(R15118)</p>	<p>■ The indoor heat exchanger ASSY has 2 hooks on the right.</p>  <p>Hook</p> <p>(R15324)</p>
5	Pull out the indoor heat exchanger thermistor.	 <p>Indoor heat exchanger thermistor</p> <p>(R15111)</p>	

10.Fan Rotor / Fan Motor

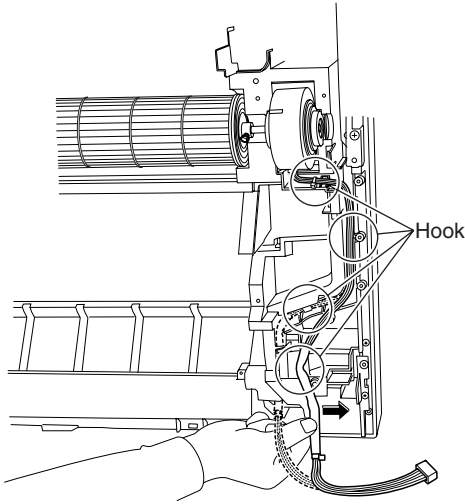
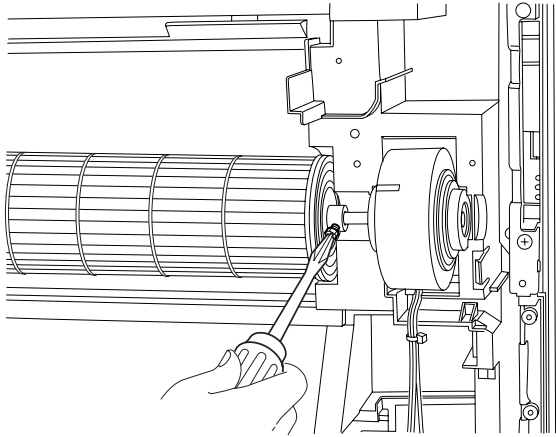
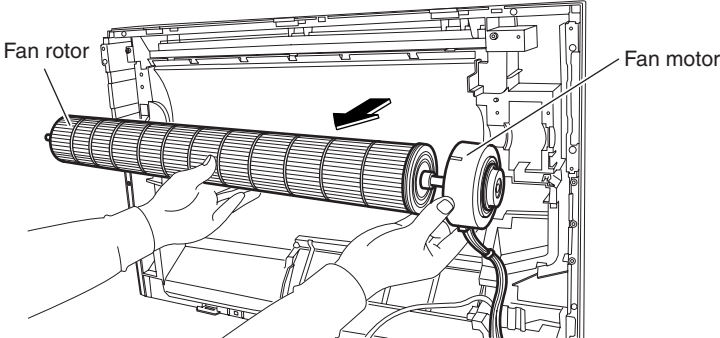
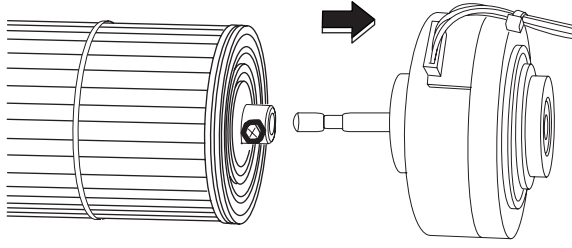


Warning

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

Step	Procedure	Points
1	<p>Remove the 3 screws.</p>  <p>(R18311)</p>  <p>(R15121)</p>	
2	<p>Remove the cover ASSY.</p>  <p>Cover ASSY</p> <p>(R15122)</p>	
3	<p>Release the harnesses for the indoor electronic expansion valve coil from the hooks (upper).</p>  <p>(R15123)</p>	

Step	Procedure	Points
4	Release the harnesses for the indoor electronic expansion valve coil from the hooks (lower).	
	<p>(R15143)</p>	
5	Remove the screw.	
6	Unfasten the 2 hooks and remove the cover.	
	<p>(R18312)</p>	
7	Remove the 3 screws.	
8	Unfasten the hook and remove the motor cover.	
	<p>(R18313)</p>	

Step	Procedure	Points
9	Release the harnesses for the fan motor from the 4 hooks.	 <p data-bbox="938 734 1007 757">(R18327)</p>
10	Loosen the lock screw.	<p data-bbox="1090 768 1463 891">■ You can remove the fan motor by loosening the screw. You do not need to remove the screw.</p>  <p data-bbox="975 1227 1043 1249">(R15317)</p>
11	Remove the fan rotor and the fan motor.	 <p data-bbox="1018 1653 1086 1675">(R15150)</p>
12	Remove the fan motor.	 <p data-bbox="995 1989 1064 2011">(R15318)</p>

Revision History

Month / Year	Version	Revised contents
04 / 2013	Si061263	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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