




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
-  Duct Connected Type



Service Manual Removal Procedure

Indoor Unit

●Heat Pump

FDXS25EV2C

FDXS35EV2C

FDXS50EV2C

PDXS25EV2C

PDXS35EV2C

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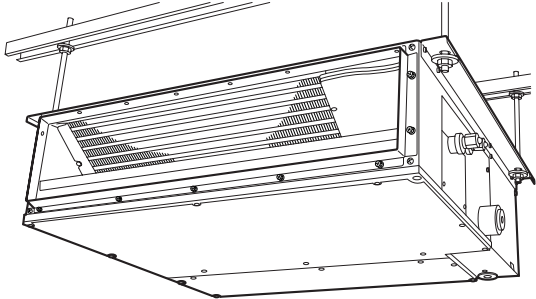
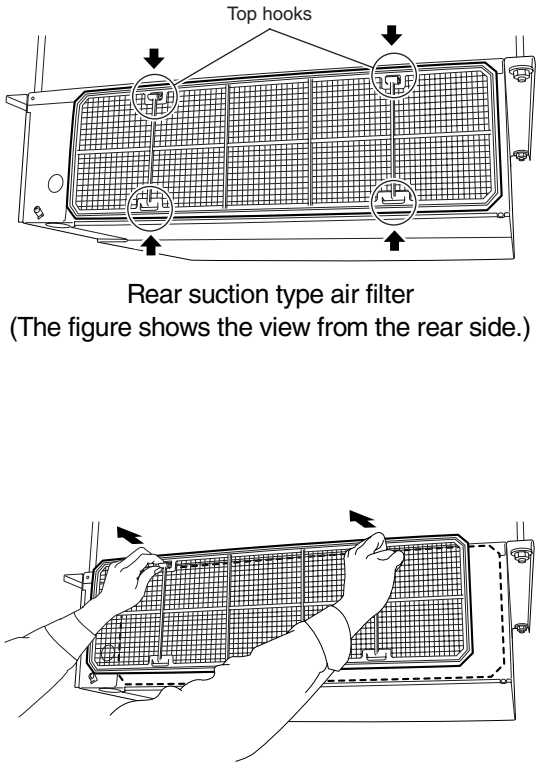
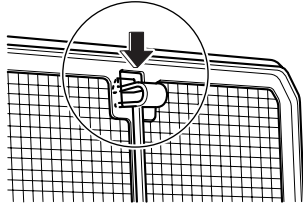
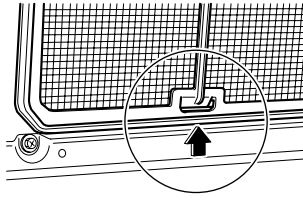
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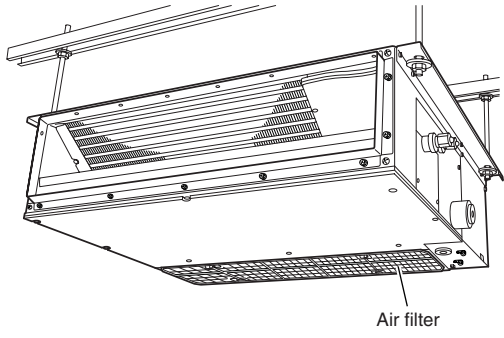
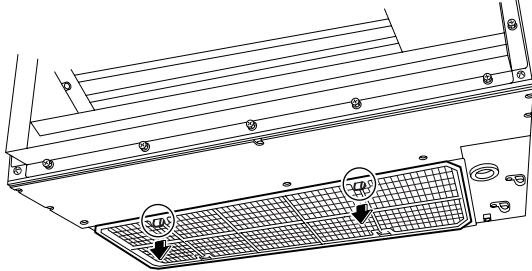
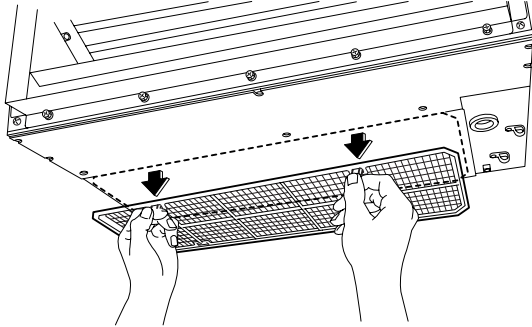
♦ The illustrations may be slightly different depending on the model.

1. Removal of Air Filter

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 air filter</p> <p>1 Appearance</p>	 <p style="text-align: center;">Appearance</p>	<ul style="list-style-type: none"> There are cases of rear suction type and the bottom suction type filters.
<p>2. Remove the rear suction type air filter</p> <p>1 Undo 2 top hooks and pull the filter toward your side.</p> <p>2 Lift up the filter and undo the 2 bottom hooks to remove the air filter.</p>	<p style="text-align: center;">Top hooks</p>  <p style="text-align: center;">Rear suction type air filter (The figure shows the view from the rear side.)</p>	 <p style="text-align: center;">Details of the hook in the air filter upper area</p>  <p style="text-align: center;">Details of the hook in the air filter lower area</p>

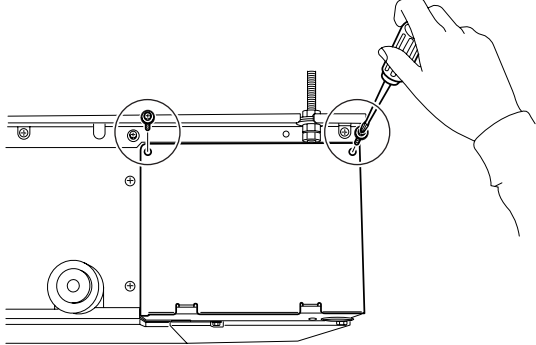
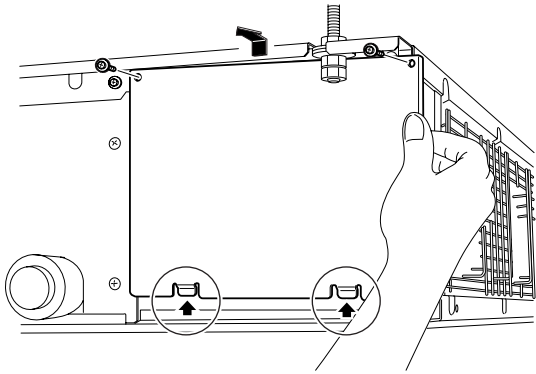
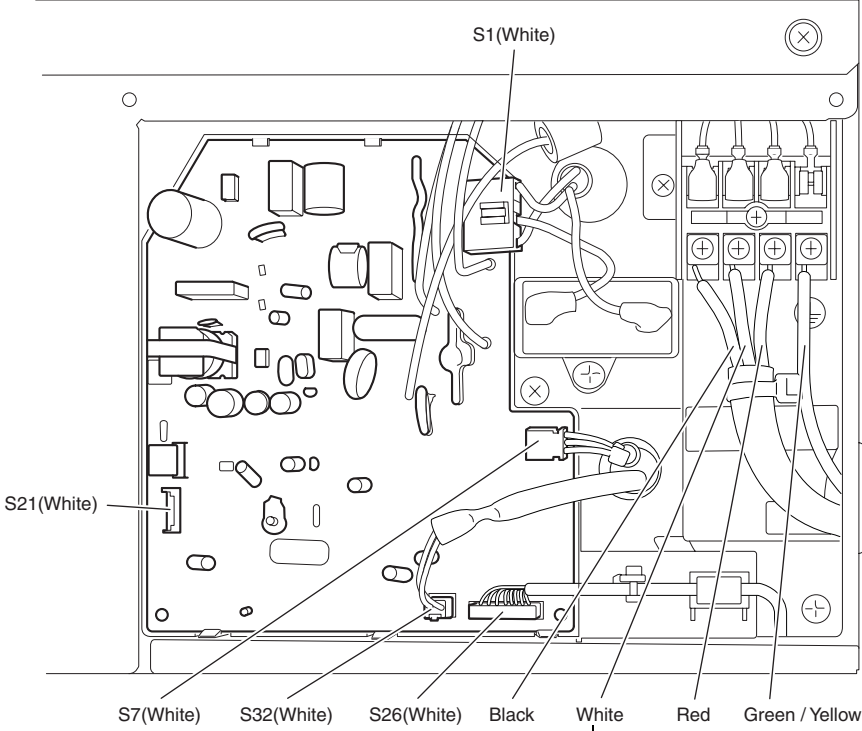
Step	Procedure	Points
3. Remove the bottom suction type air filter	<p data-bbox="528 257 1034 593">  Air filter </p> <p data-bbox="528 607 1034 640">Appearance (Bottom suction type air filter)</p> <p data-bbox="153 712 464 840">1 Undo 2 hooks as shown in the figure of the rear suction type (previous page).</p> <p data-bbox="512 723 1046 992">  </p> <p data-bbox="153 1122 464 1249">2 Undo the 2 positions in the opposite side of the hooks above. After that, remove the air filter.</p> <p data-bbox="512 1133 1046 1458">  </p>	

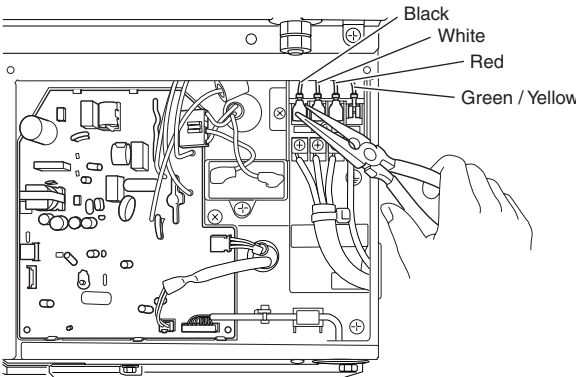
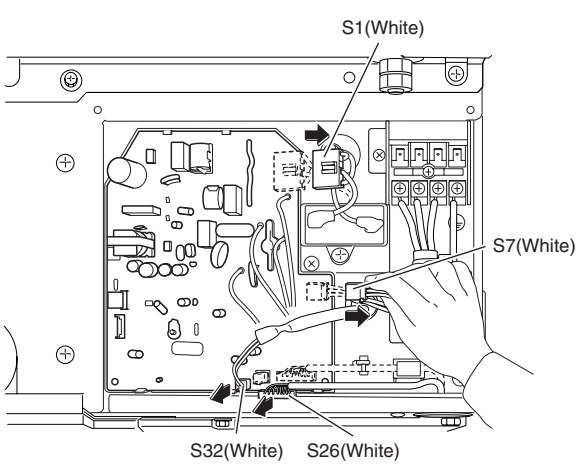
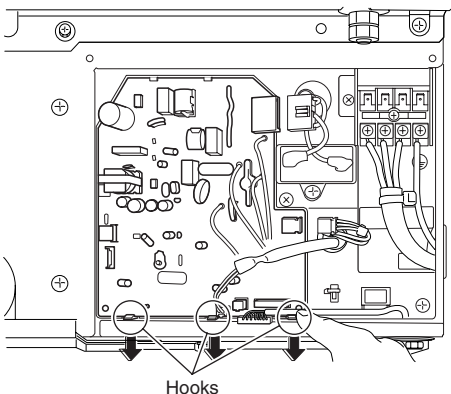
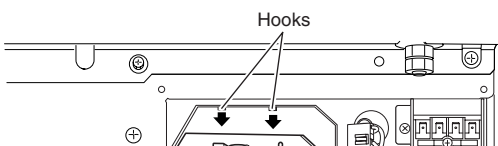
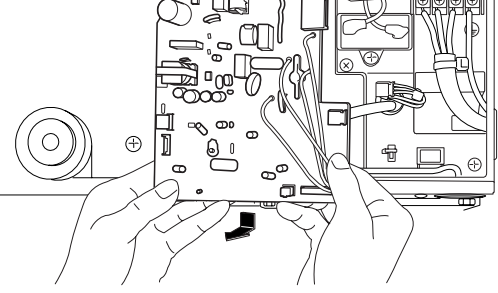
2. Removal of PCB (Room Air Conditioner Type)

Procedure



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

Step	Procedure	Points
1. Remove the electrical box cover		
1 Remove the 2 screws from the upper area.		
2 Lift up the electrical box cover to undo the hooks and remove the cover.		
3 Appearance of the PCB.		

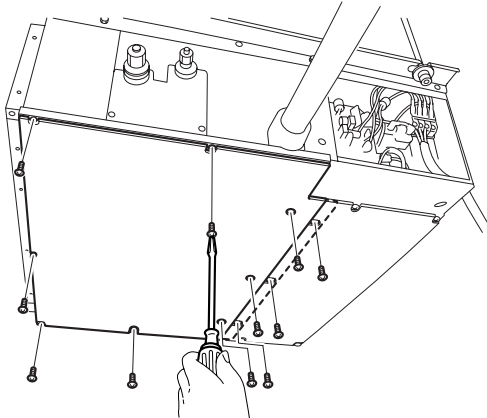
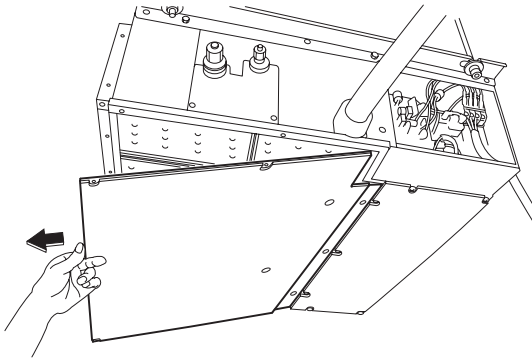
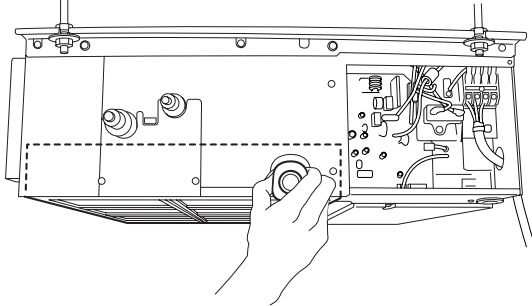
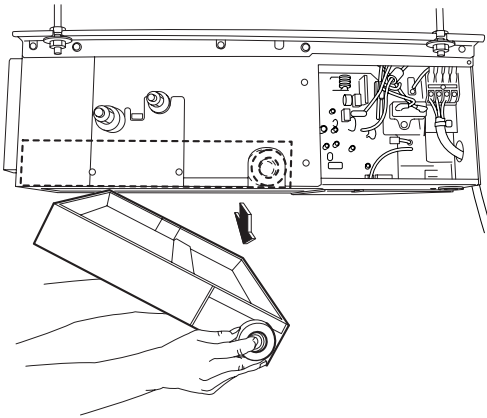
Step	Procedure	Points
2.	Remove the PCB	
1	<p>Pull the Faston terminals out from the terminal board with pliers to remove them.</p> <p>1: Black 2: White 3: Red Earth cable: Green / Yellow</p>	
2	<p>Disconnect the connectors.</p> <p>S1 (White): Fan motor S7 (White): Fan motor (For feedback) S32 (White): Heat exchanger thermistor S26 (White): Photo detector unit assembly</p>	
3	<p>Release the 3 bottom hooks to remove the PCB.</p>	
4	<p>Pull the lower part of the PCB toward your side and undo the 2 top hooks.</p>	
5	<p>Remove the PCB.</p>	

3. Removal of Drain Pan

Procedure



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

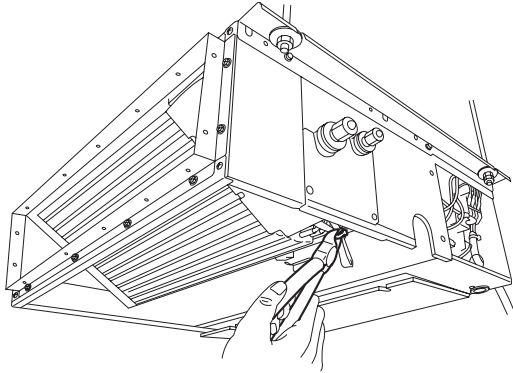
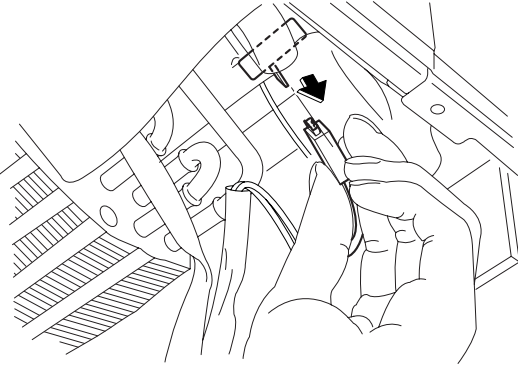
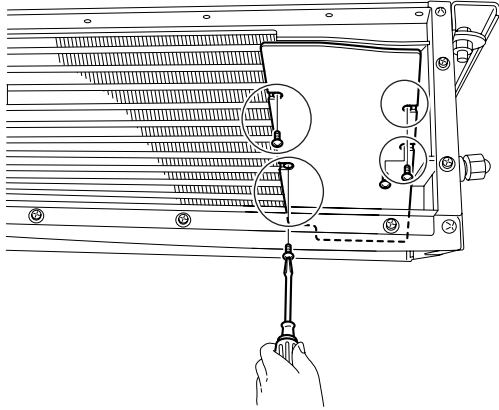
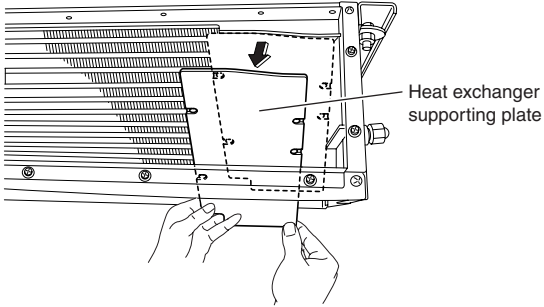
Step	Procedure	Points
<p>1. Remove the bottom plate</p> <p>1 Remove the 11 screws from the bottom plate.</p> <p>2 Slide the bottom plate to your side and remove the plate.</p>	 	
<p>2. Remove the drain pan</p> <p>1 Remove the drain socket cap.</p> <p>2 Grip the drain socket area with your right hand.</p> <p>3 Support the drain pan with your both hands to lower the pan and remove it.</p>	 	

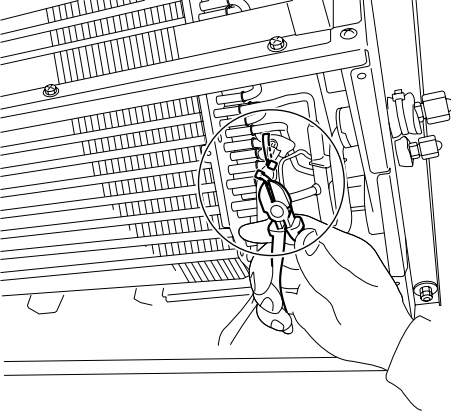
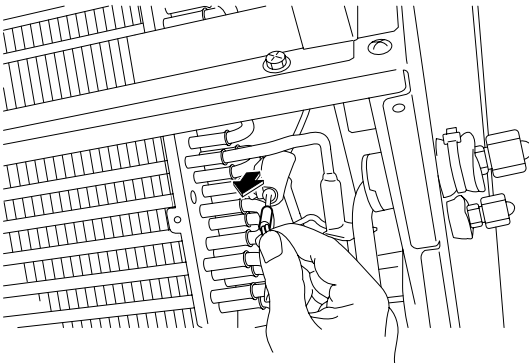
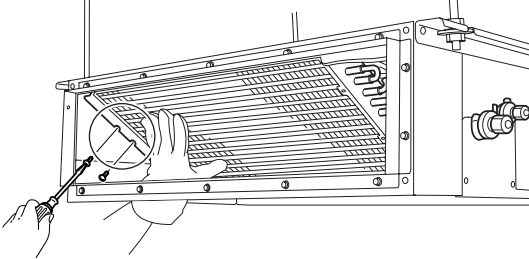
4. Removal of Heat Exchanger

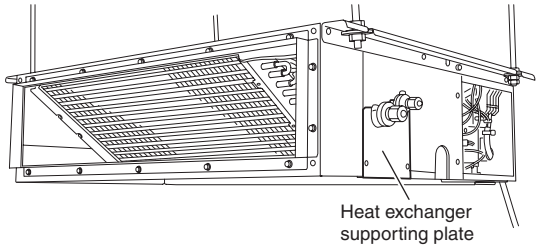
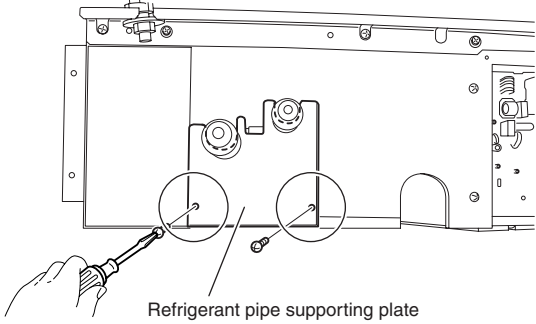
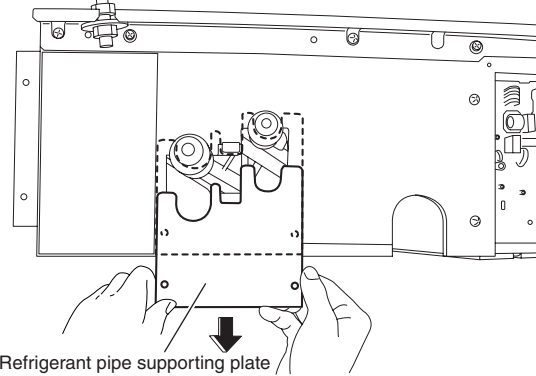
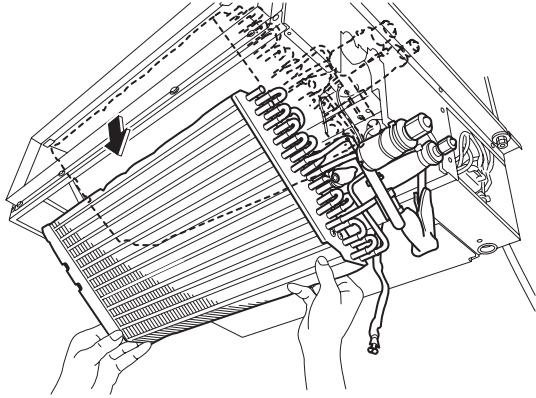
Procedure



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

Step	Procedure	Points
<p>1. Remove the heat exchanger</p> <p>★ Make sure that the gases are removed after the pump down work. After that, start the removal of the heat exchanger.</p> <p>■ Remove the drain pan and the like before starting the removal of the heat exchanger.</p>		<p>Warning When any gas leakage is found, repair the gas leakage points. After that, collect all refrigerants in the air conditioner, vacuum dry the inside and then fill it with refrigerant.</p>
<p>1 Cut one part in the clamp to remove the Faston terminal (earth wire).</p>		<p>Warning Do not entrain air or the like other than the specified refrigerant (R-410A) in the refrigerating cycle. (If air is entrained into the refrigerant cycle, the inside of the refrigerating cycle is extraordinarily raised and will cause an explosion or result in injury.)</p>
<p>2 Remove the 4 screws from the heat exchanger supporting plate.</p>		<p>Caution If any gas is leaked during the operation, ventilate the room. (If the refrigerant gas is exposed to any flammable material, toxic gas may occur.)</p>
<p>3 Remove the heat exchanger supporting plate.</p>		<p>Caution To prevent the heat exchanger from dropping, be sure to support it while you remove the screws.</p>

Step	Procedure	Points
4	Cut one part in the clamp in the heat exchanger thermistor area.	
		
5	Remove the heat exchanger thermistor.	
		
6	Support the heat exchanger to prevent it from dropping while you remove the 2 screws from the left side of the heat exchanger.	
		<p>■ Note: The Heat exchanger is fixed with these 4 screws (2 in the heat exchanger left side and 2 in the pipe line supporting plate). Always support the heat exchanger to prevent it from dropping off while removing the screws.</p>

Step		Procedure	Points
		 <p style="text-align: center;">Heat exchanger supporting plate</p> <p style="text-align: center;">Appearance before the heat exchanger is removed</p>	
7	Remove the 2 screws from the refrigerant pipe supporting plate.	 <p style="text-align: center;">Refrigerant pipe supporting plate</p>	
8	Slide the refrigerant pipe supporting plate downward to remove it.	 <p style="text-align: center;">Refrigerant pipe supporting plate</p>	
9	Remove the heat exchanger.		

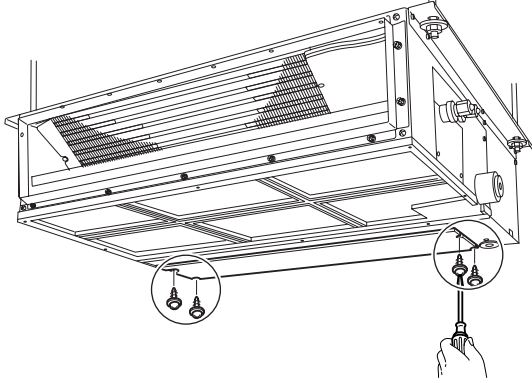
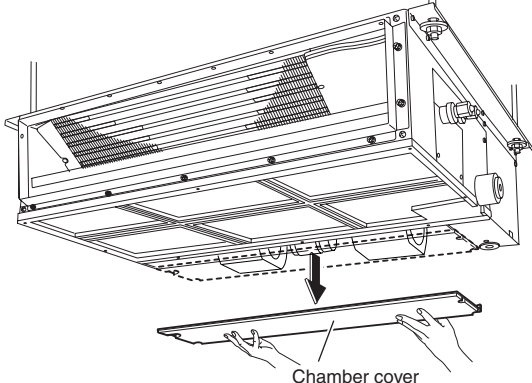
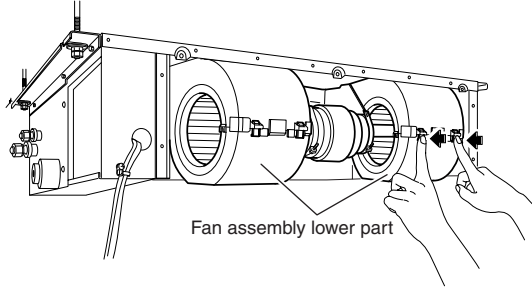
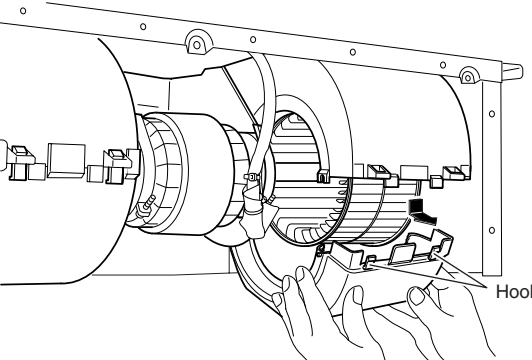
5. Removal of Fan Rotor / Fan Motor

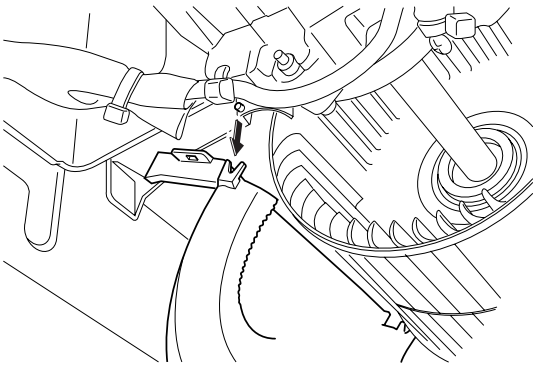
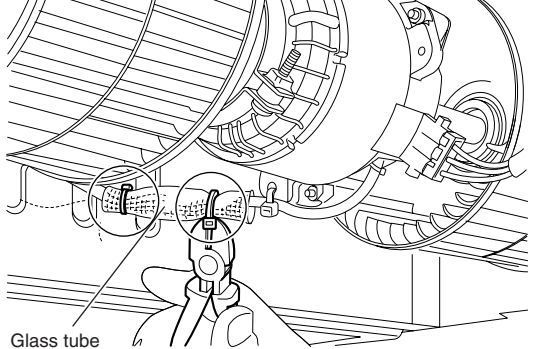
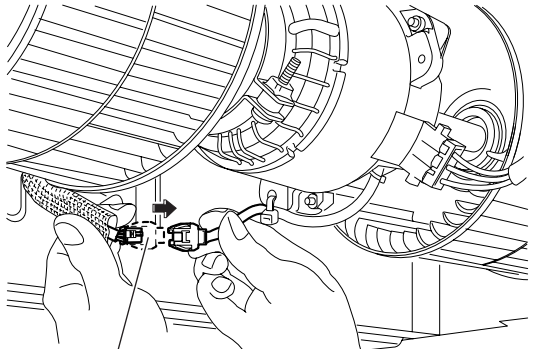
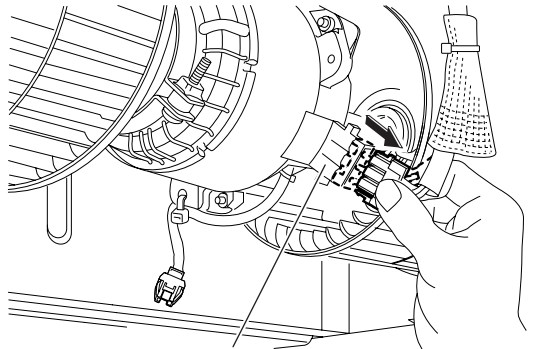
Procedure

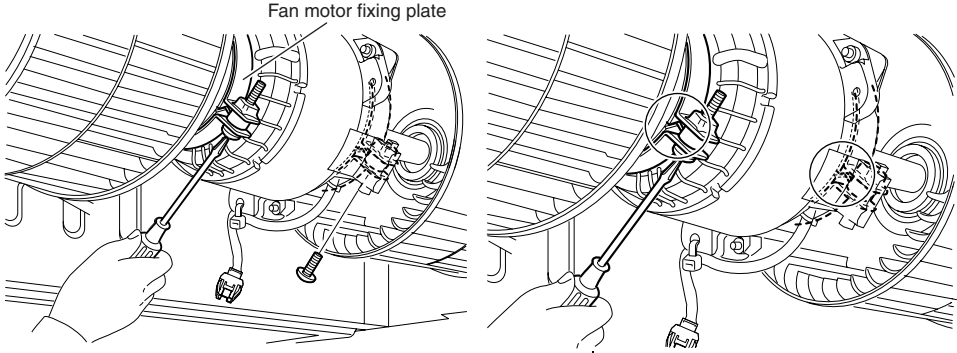


Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
<p>1. Remove the protective grille</p> <p>1 Remove the 6 screws from the guard net.</p> <p>2 Remove the guard net.</p>	<p style="text-align: center;">Guard net</p> <p style="text-align: center;">Guard net</p>	
<p>2. Remove the bottom plate</p> <p>1 Remove the 11 screws from the bottom plate.</p> <p>2 Slide the bottom plate to your side and remove the plate.</p>		

Step	Procedure	Points
<p>3. Remove the chamber cover</p>	<p>1 Remove the 4 screws from the chamber cover.</p>  <p>2 Remove the chamber cover.</p> 	
<p>4. Remove the fan housings</p>	<p>1 Press the 2 hooks at the fan assembly lower part to undo the hooks.</p>  <p>2 Bring the fan assembly lower part down and pull it to your side to undo the inside hooks.</p> 	

Step	Procedure	Points
3	<p>Remove the fan assembly lower part. (The procedure above applies to both right and left fan assembly.)</p> 	
5. Remove the fan motor		
1	<p>Cut 2 parts in the clamp.</p>	
2	<p>Shift the glass tube.</p>  <p>Glass tube</p>	
3	<p>Disconnect the fan motor cable connector.</p>  <p>Fan motor cable connector</p>	
4	<p>Disconnect the fan motor connector.</p>  <p>Fan motor connector</p>	<p>■ Note: When assembling the fan motor, tighten the screws so as to cover the notch.</p>

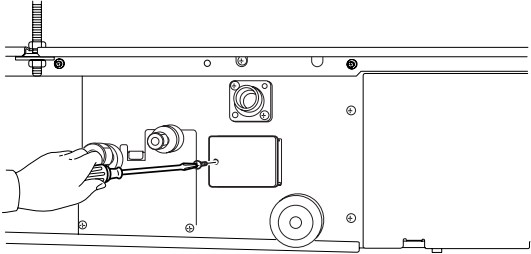
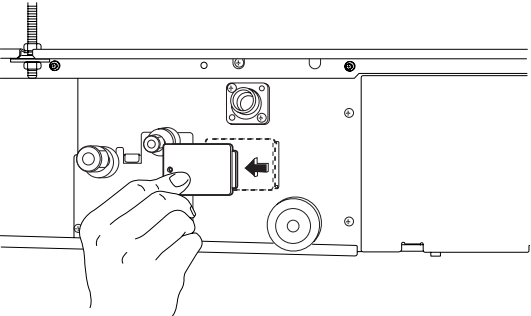
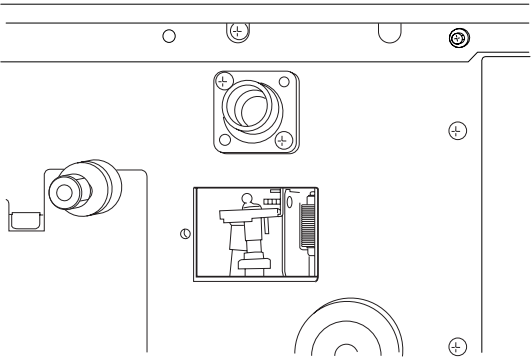
Step	Procedure	Points
5	<p>Remove the one screw from the fan motor fixing plate to remove the both right and left fan motors.</p>	
6. Remove the fan rotor	<p>1 Remove the fan rotor assembly.</p> <p>2 Insert a hexagonal wrench key from the notch in the fan, remove the fan rotor fixing screw and remove the fan rotor.</p>	<p>■ Remark: To remove the fan rotor, it is necessary to remove the fan rotor assembly.</p> <p>■ Note: When assembling the fan rotor, align the rotor with the D-cut.</p>

6. Removal of Drain Pump Cover

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 drain pump</p> <p>1 Remove the one screw from the drain pump cover.</p> <p>2 Move the drain pump cover to the left and remove it.</p> <p>3 You can check the float switch, etc..</p>	  	<p>■ Remark: It is not necessary to remove the PCB before you remove the drain pump.</p>

7. Removal of Drain Pump

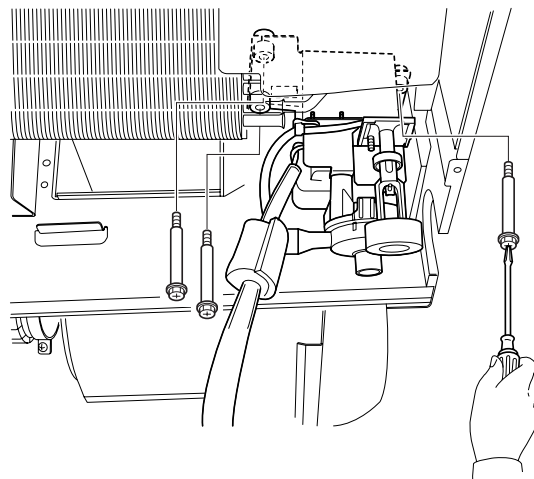
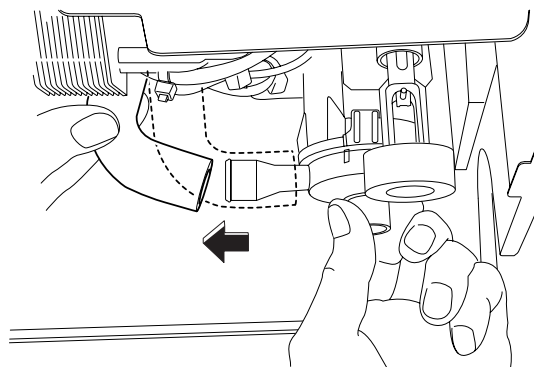
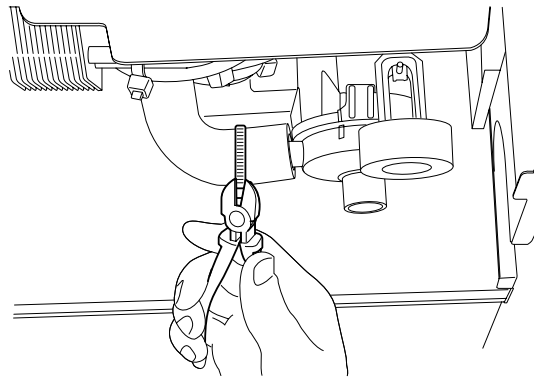
Procedure

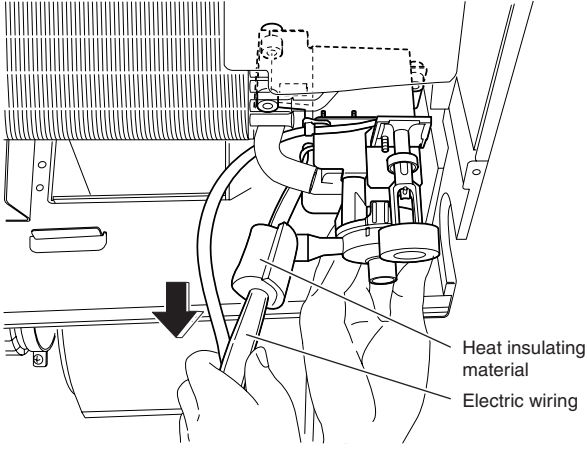
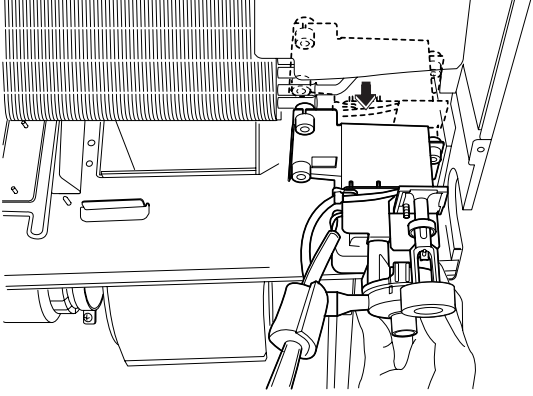


Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
<p>1. Remove the bottom plate</p> <p>1 Remove the 11 screws from the bottom plate.</p> <p>2 Slide the bottom plate to your side to remove it.</p>		
<p>2. Remove the drain pan</p> <p>1 Remove the drain socket cap.</p> <p>2 Hold the drain socket area with your right hand.</p> <p>3 Support the drain pan with your both hands to lower the drain pan, and remove it.</p>		
<p>3. Remove the drain pump</p> <p>1 Cut the clamp.</p>		

Step	Procedure	Points
2	Pull the connector out. (X8A, X25A)	
3	Cut the clamp for fixing the rubber hose at the pump discharge side.	
4	Pull the drain hose out.	
5	Remove the 3 screws.	



Step	Procedure	Points
6	<p data-bbox="199 219 470 344">Hold the drain pump and pull out the electric wiring together with the heat insulating material.</p>  <p data-bbox="943 562 1074 640">Heat insulating material Electric wiring</p>	
7	<p data-bbox="199 833 403 891">Remove the drain pump.</p> 	

8. Removal of Heat Exchanger Thermistors

Procedure



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

Step	Procedure	Points
1. Remove the heat exchanger thermistors		
1 Cut 3 parts in the clamp.		
2 Pull the earth terminal out.		
3 Cut the clamp to remove the 2 thermistors.		

Revision History

Month / Year	Version	Revised contents
06 / 2013	Si07-863	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

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