

REMOVAL PROCEDURE



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

11.2/14.0/16.0 kW Class



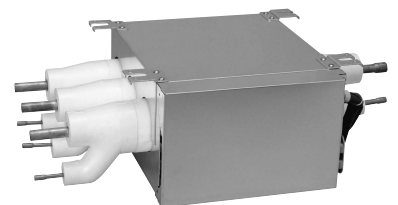
Outdoor Unit



Inverter



Multi Type



Service Manual Removal Procedure

Outdoor Unit

●Cooling Only

**RMKD112DVM
RMKD140DVM
RMKD160DVM**

**RMKS112DV1A
RMKS140DV1A
RMKS160DV1A**

**RMKS112DVM
RMKS140DVM
RMKS160DVM**

●BP Unit

**BPMKS967A2
BPMKS967A3**

**BPMKS967A2B
BPMKS967A3B**

●Heat Pump

**RMXS112DV1A
RMXS140DV1A
RMXS160DV1A**

**RMXS112DVL
RMXS140DVL
RMXS160DVL**

**RMXS112DVM
RMXS140DVM
RMXS160DVM**

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Note:

- The illustrations may be slightly different depending on the model.
- The illustrations are for heat pump models as representative.

1. Outdoor Unit

1.1 Removal of Outer Panels

Procedure

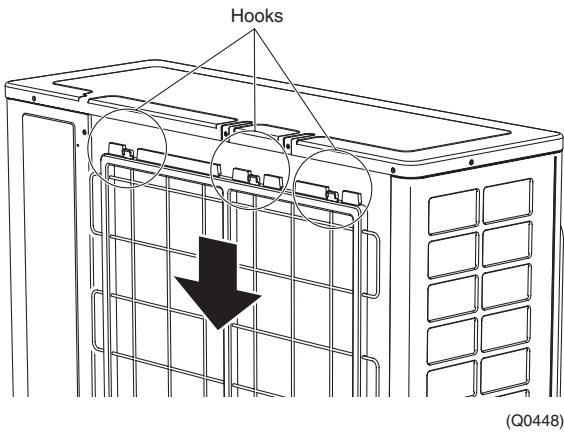


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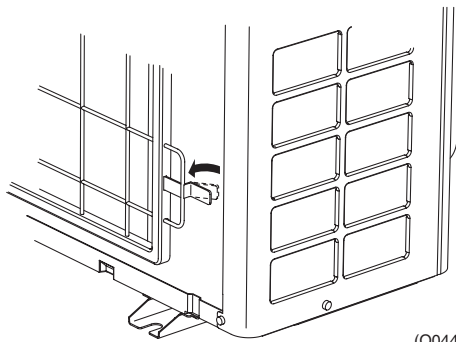
Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Appearance	<p>Top panel</p> <p>Front panel</p> <p>Pipe outlet port</p> <p>(Q0446)</p> <p>Rear protective net</p> <p>Outdoor air thermistor</p> <p>(Q0447)</p>	

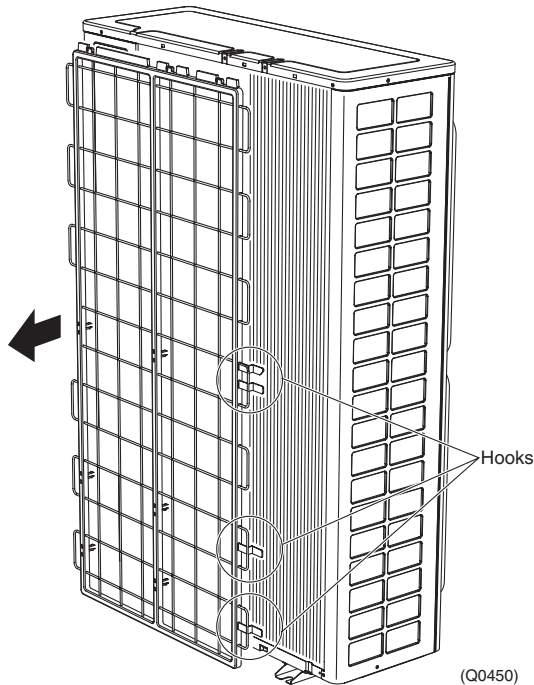
Step	Procedure	Points	
2.	Remove the rear protective net.		
1	Undo the 3 top hooks first.	Bend the rear protective net slightly for easy removal.	
2	Next, undo the 4 right-side hooks. (See the figure at bottom.)		
3	Remove the rear protective net.		



(Q0448)

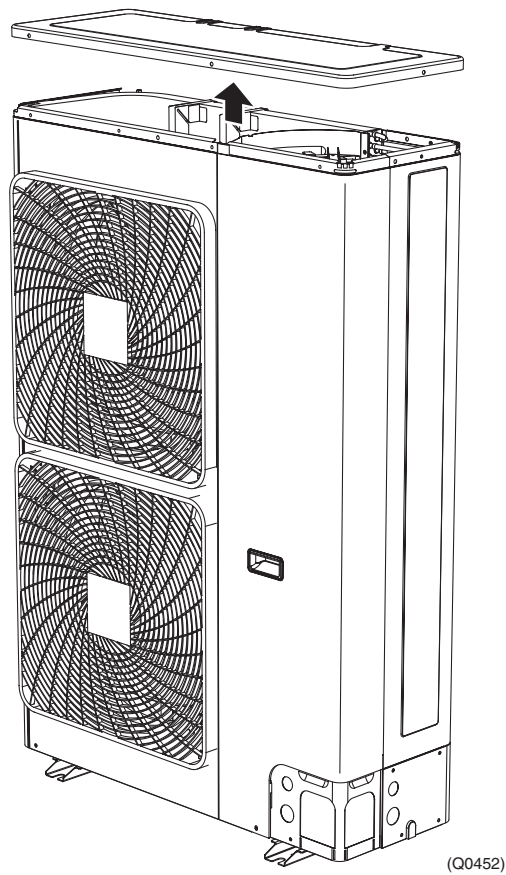
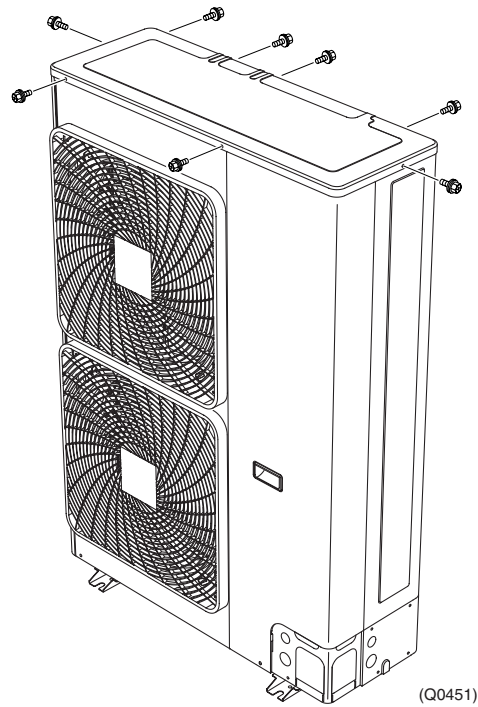


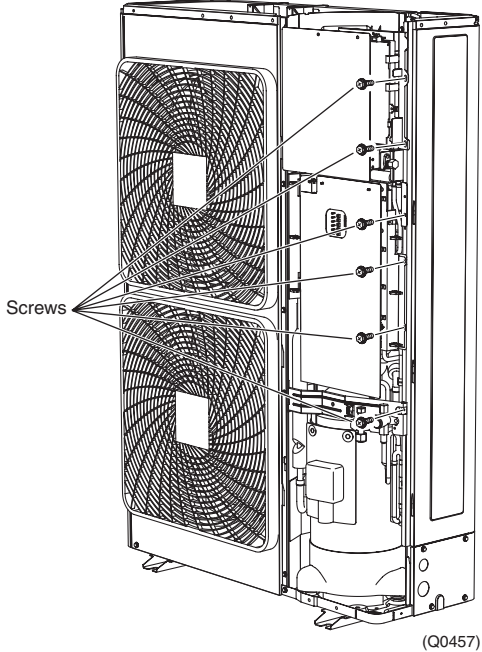
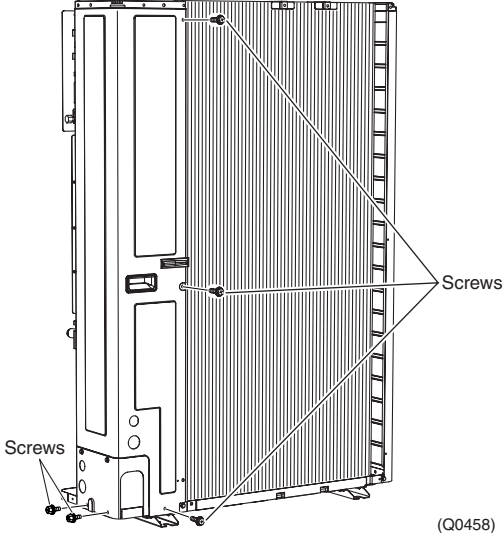
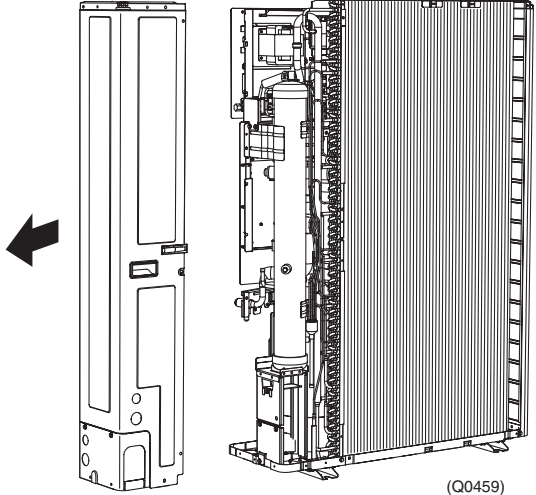
(Q0449)

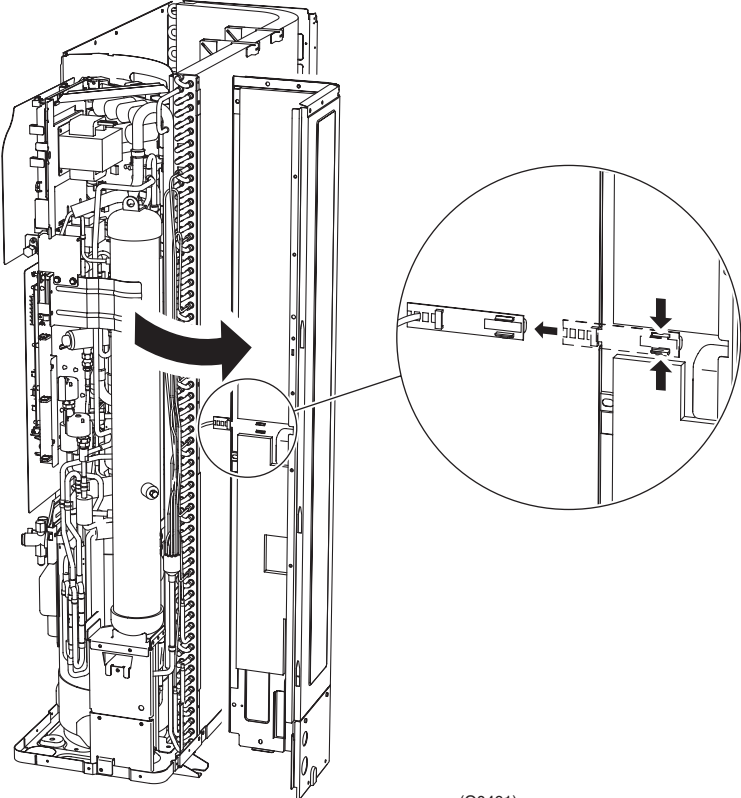
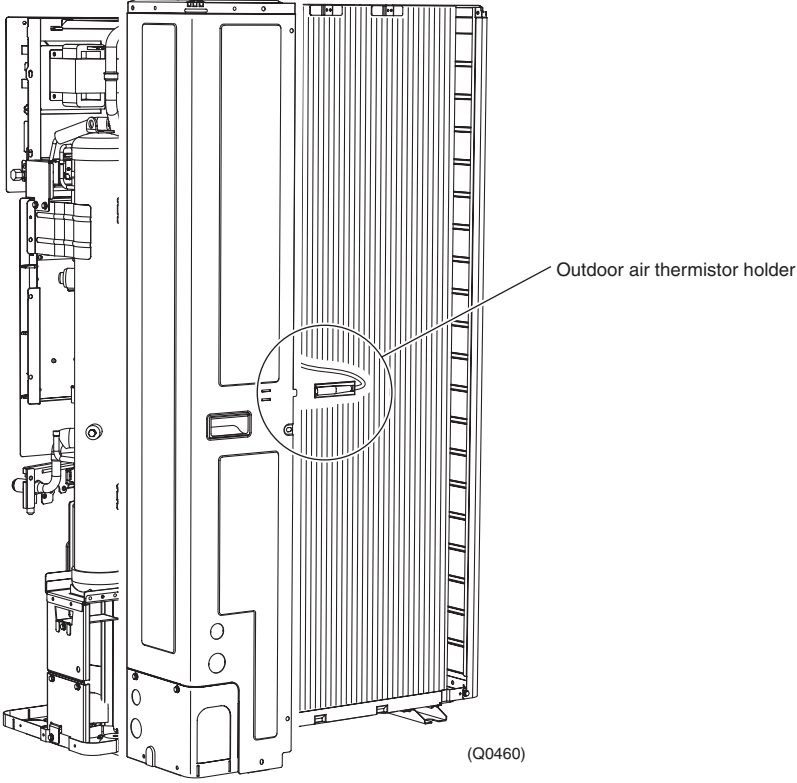


(Q0450)

Step	Procedure	Points
3.	Remove the top panel.	
1	Remove the 8 screws.	
2	Lift and remove the top panel.	



Step	Procedure	Points
6. Right side panel		
1	<p>Remove the 6 screws off the panel's front.</p>  <p style="text-align: right;">(Q0457)</p>	
2	<p>Remove the 3 screws off the panel's back and the 2 screws off the panel's side.</p>  <p style="text-align: right;">(Q0458)</p>	
3	<p>Remove the right side panel.</p>  <p style="text-align: right;">(Q0459)</p>	

Step	Procedure	Points
7.	Remove the outdoor air thermistor.	
1	<p data-bbox="199 286 467 450">Disconnect the outdoor air thermistor holder. Unhook the holder from inside of the right side panel for easy removal.</p>  <p data-bbox="962 1133 1023 1151">(Q0461)</p>	
2	<p data-bbox="199 1182 440 1279">The figure shows the state after disconnection.</p>  <p data-bbox="1058 1496 1302 1514">Outdoor air thermistor holder</p> <p data-bbox="970 1980 1031 1998">(Q0460)</p>	

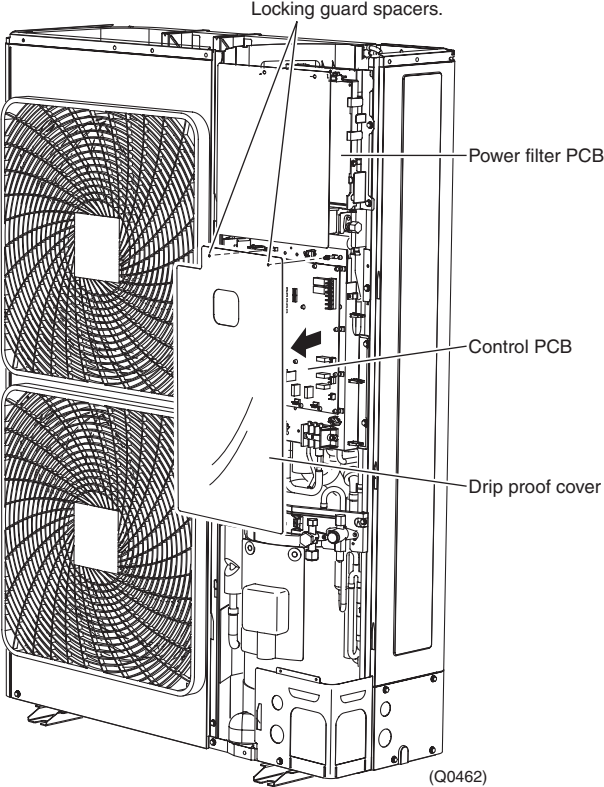
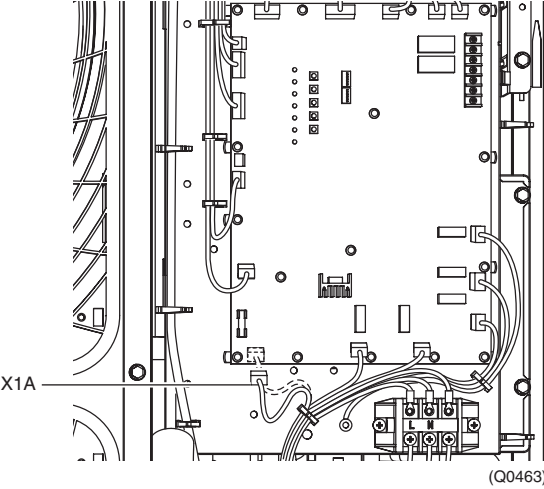
1.2 Removal of PCB

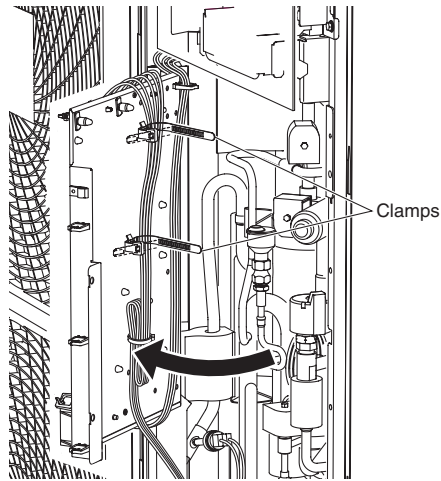
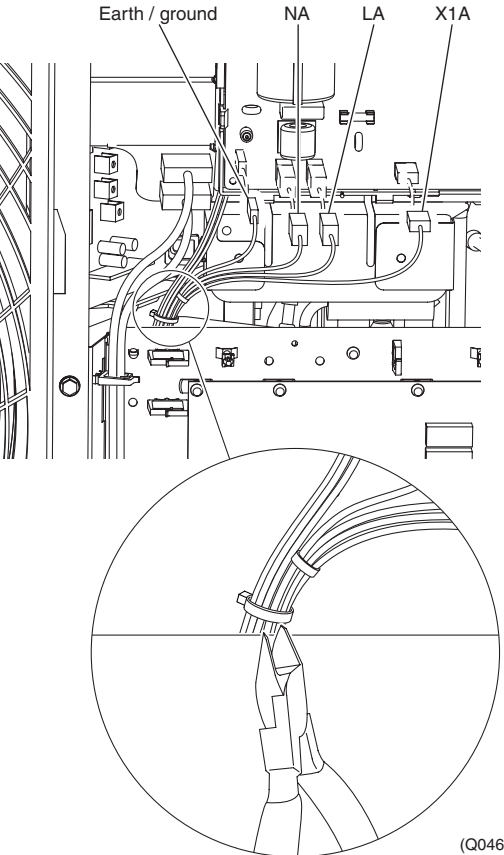
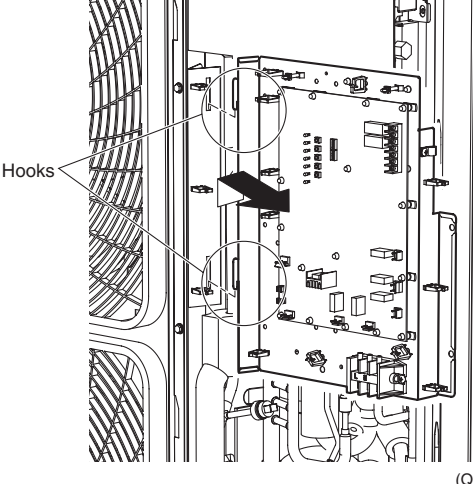
Procedure

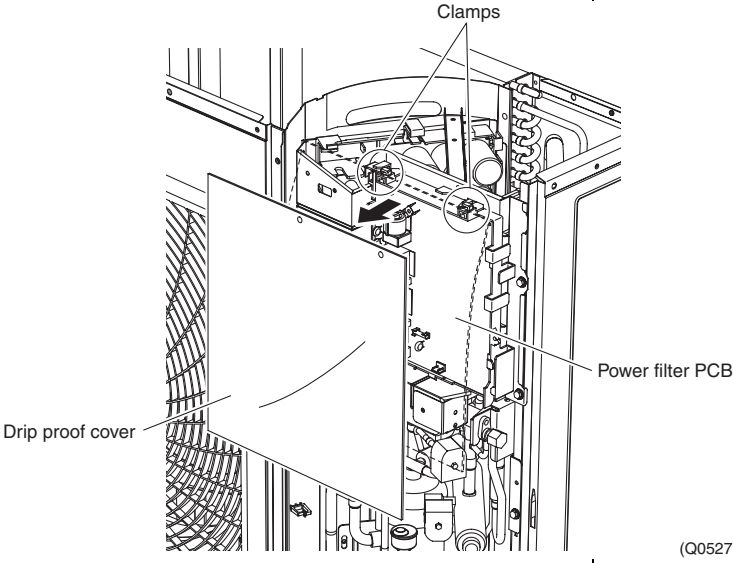
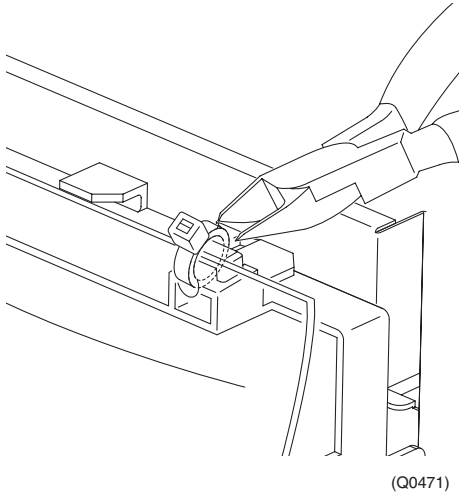
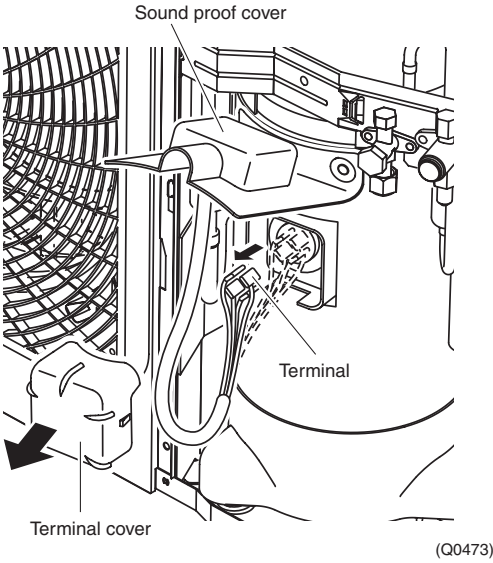
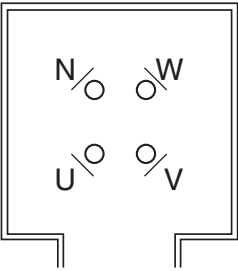


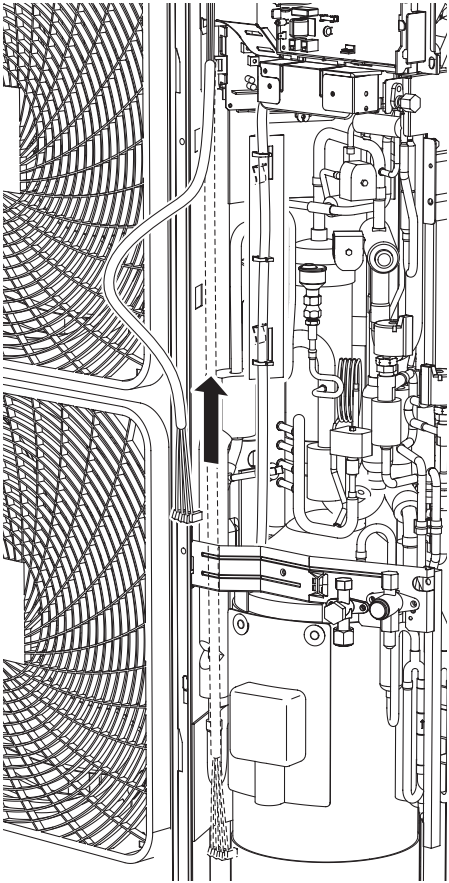
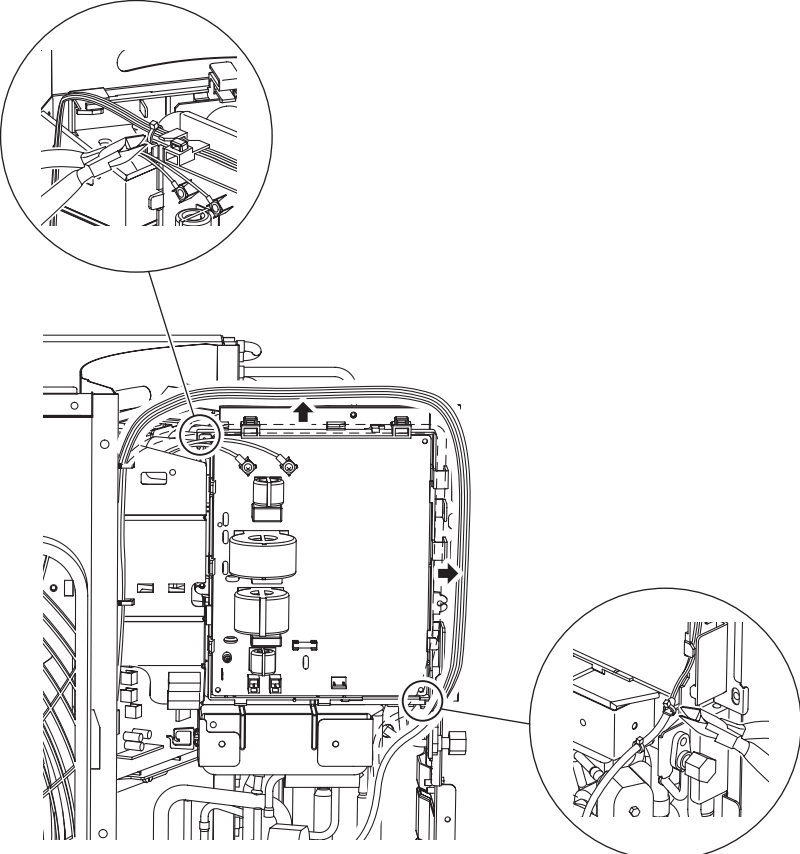
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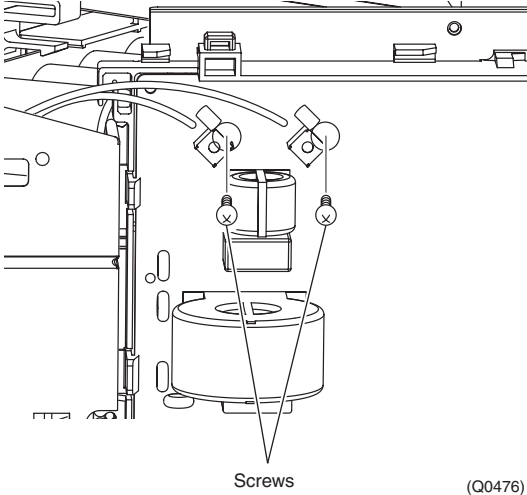
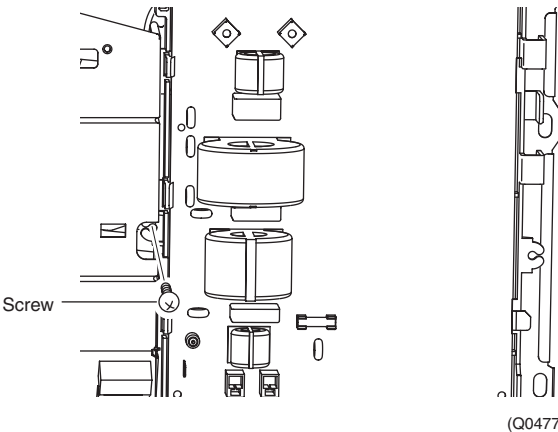
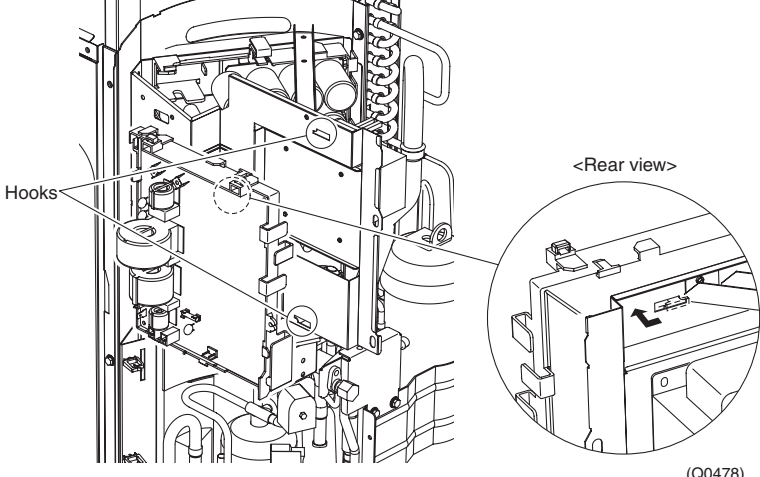
Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

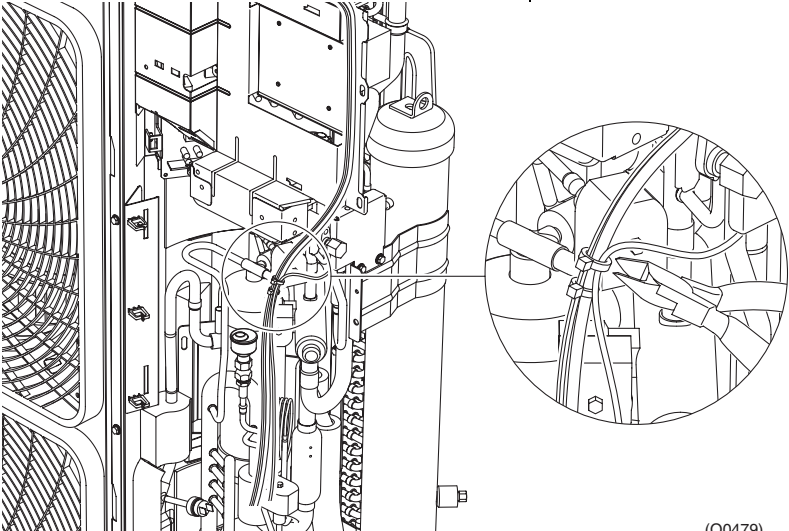
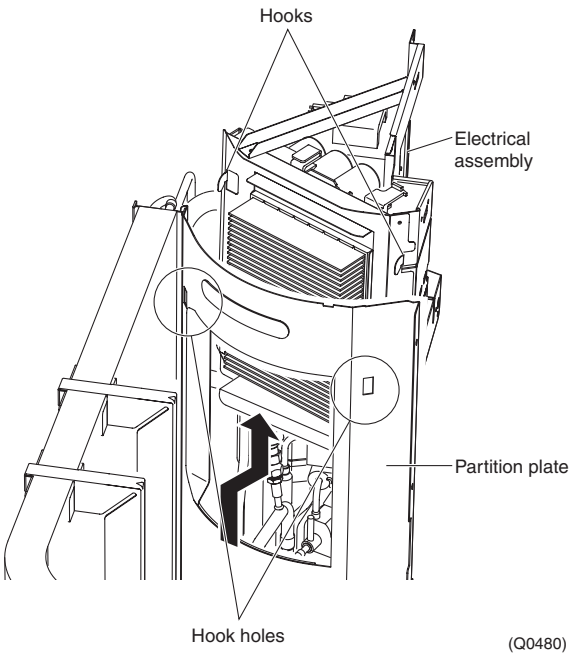
Step	Procedure	Points
1. Remove the control PCB.		
1 Detach the 2 top locking guard spacers. 2 Remove the drip proof cover.		
3 Disconnect the power relay connector. (X1A)		

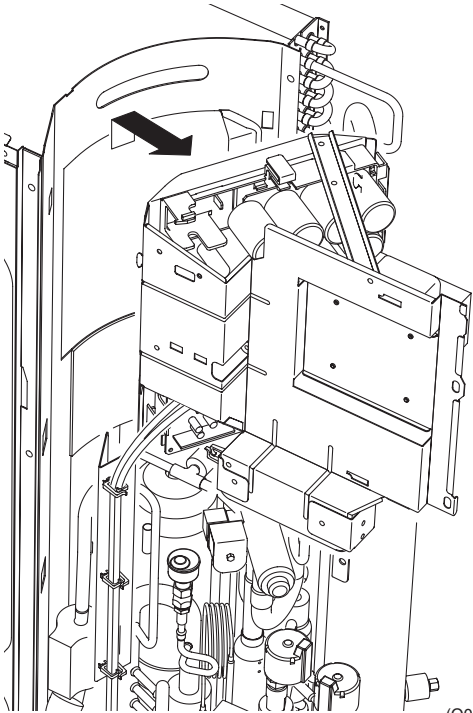
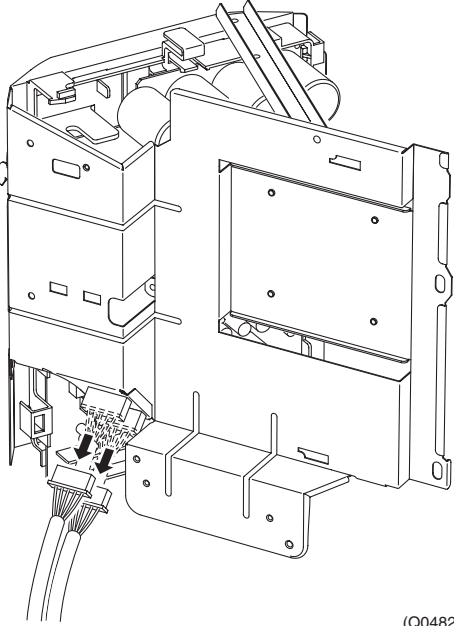
Step	Procedure	Points
<p>2 Open the mounting plate's right side toward yourself.</p> <p>3 Remove the 2 clamps from behind the mounting plate.</p>	 <p>(Q0526)</p>	
<p>4 Disconnect the connectors from the power filter PCB and cut off the clamps.</p>	 <p>(Q0469)</p>	<p>Earth / ground, Power terminals NA (white) / LA (red) / X1A (black) The clamps are to be kept in stock.</p>
<p>5 Lift the mounting plate and undo the 2 left side hooks to remove it.</p>	 <p>(Q0470)</p>	

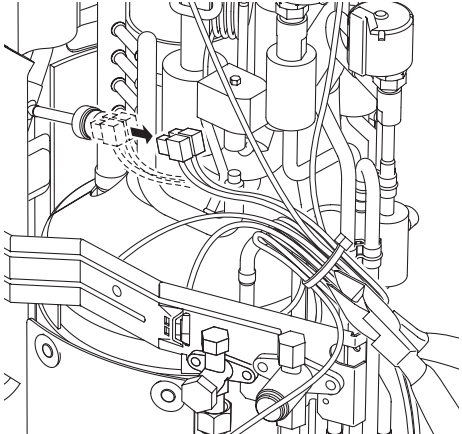
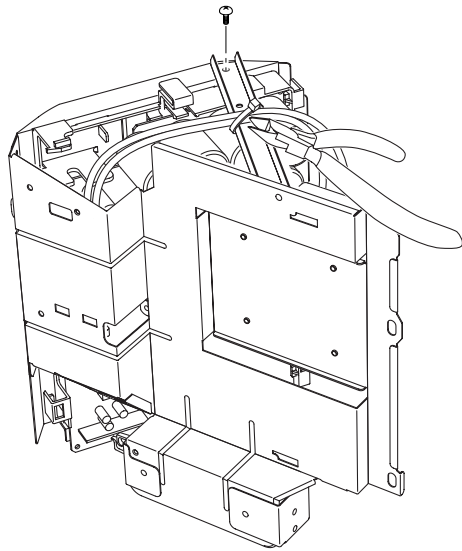
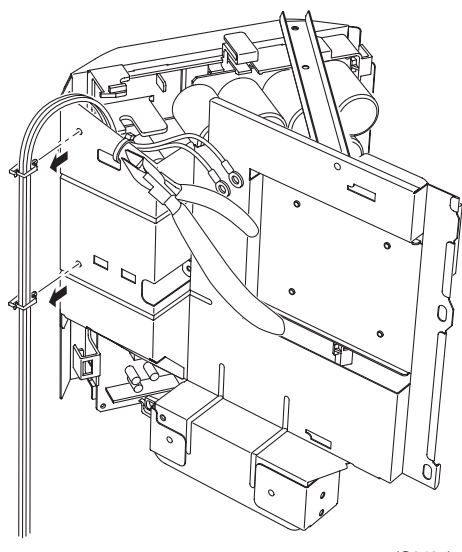
Step	Procedure	Points
3.	Remove the power filter PCB.	
1	<p>Cut off the 2 top clamps and remove the drip proof cover.</p>  <p>(Q0527)</p>	<p>Cut off with nippers. The clamp is to be kept in stock.</p>
2 3 4	<p>Tilt up the compressor's sound proof cover. Remove the terminal cover. Disconnect the compressor lead connector (terminal).</p>   <p>(Q0473)</p>	<p>Using long nose pliers, pull out the following.</p> <p>U: Red V: White W: Blue N: Brown</p> 

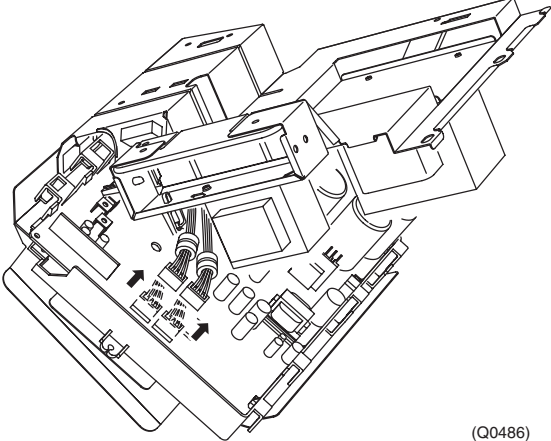
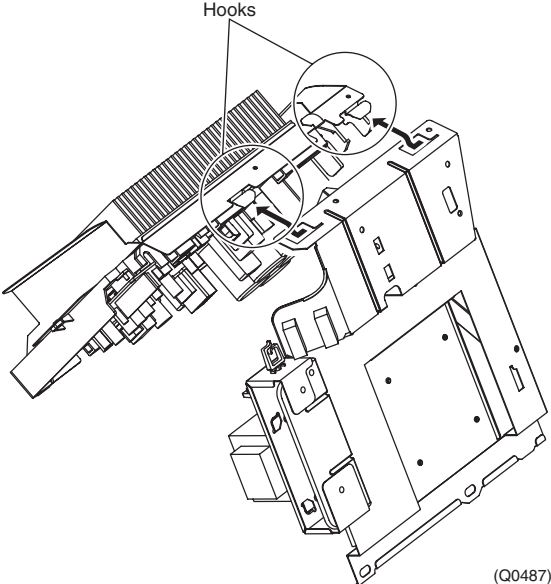
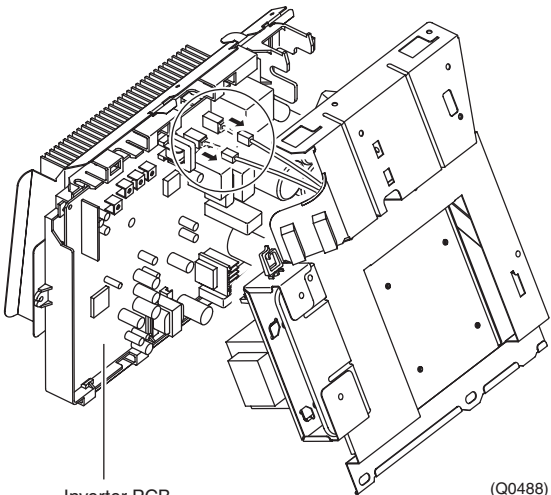
Step		Procedure	Points
5	Release the compressor lead out of the groove.	 <p>(Q0474)</p>	
6	Remove the 2 clamps.	 <p>(Q0475)</p>	Cut off with nippers.

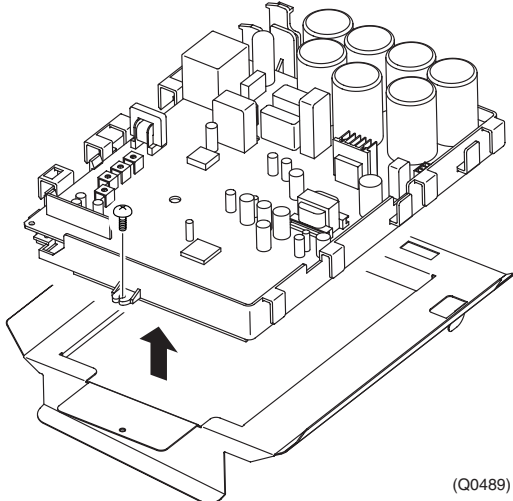
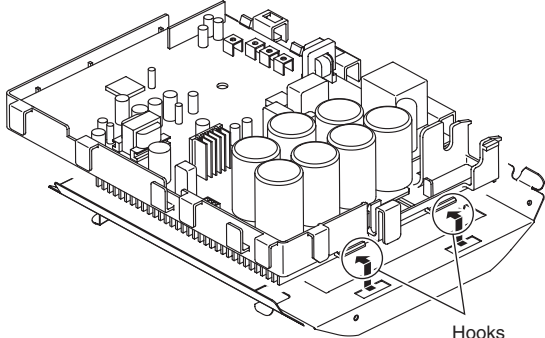
Step	Procedure	Procedure	Points
7	Remove the screws of the reactor leads.	 <p>Screws (Q0476)</p>	
8	Remove the screw.	 <p>Screw (Q0477)</p>	
9	The power filter PCB is provided with 2 hooks. Slide the PCB to the right to unhook it.	 <p>Hooks (Q0478)</p> <p><Rear view></p>	

Step	Procedure	Points
4. Remove the electrical assembly.		
1 Remove the clamp.		<p>Cut off with nippers. The clamp is to be kept in stock.</p> <p>(Q0479)</p>
2 Lift the electrical assembly to unhook it.		<p>(Q0480)</p>

Step	Procedure	Points
<p>3</p>	<p>Disconnect the fan motor relay connector.</p>  <p>(Q0481)</p>  <p>(Q0482)</p>	<p>pcs.: Red and white</p>

Step	Procedure	Procedure	Points
4	Disconnect the HPS connector and the electrical box connector from each other.	 <p>(Q0483)</p>	HPS connector: Red Electrical box connector: White Cut off with nippers. The clamp is to be kept in stock.
5	Remove the clamp and unbind the leads.		 <p>(Q0484)</p>
6	Remove the clamp (reactor lead).	 <p>(Q0485)</p>	
7	Remove the screw.		
8	Remove the clamp (reactor lead).		Cut off with nippers.
9	Remove the two clamps and disconnect the compressor lead.		

Step	Procedure	Points
10	<p>Disconnect the fan motor electrical box relay connector.</p>  <p>(Q0486)</p>	<p>Connector X206A: Red Connector X207A: White</p>
5. Remove the inverter PCB.		
1	<p>Separate the power filter PCB mounting plate from the electrical assembly.</p>  <p>(Q0487)</p>	<p>There are two hooks. Slide the plate to unhook it.</p>
2	<p>Remove the reactor connectors P1 and P2.</p>  <p>(Q0488)</p>	<p>P1: White, P2: White</p>

Step	Procedure	Points
3	<p>Remove the screw and detach the inverter PCB.</p>  <p>(Q0489)</p>	
4	<p>There are 2 hooks at the far side (condenser side). When reassembling, catch these hooks first.</p>  <p>Hooks (Q0490)</p>	

1.3 Removal of Solenoid Valve, Four Way Valve and Motorized Valve

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 solenoid valve coil, motorized valve coil and four way valve coil.</p>		<p>Remove the screw.</p> <p>Use two open end wrenches for disassembling.</p>
<p>1 Remove the solenoid valve and four way valve. 2 Remove the motorized valve.</p>		

1.4 Removal of Thermistor Assembly

Procedure



Warning

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Step	Procedure	Points
1.	Remove the thermistors.	
1	Remove the under cool thermistor.	
2	Remove the suction pipe thermistor.	
3	Remove the discharge pipe thermistor.	
	<p>Under cool thermistor</p> <p>Discharge pipe thermistor</p> <p>Suction pipe thermistor</p>	<p>(Q0494)</p>

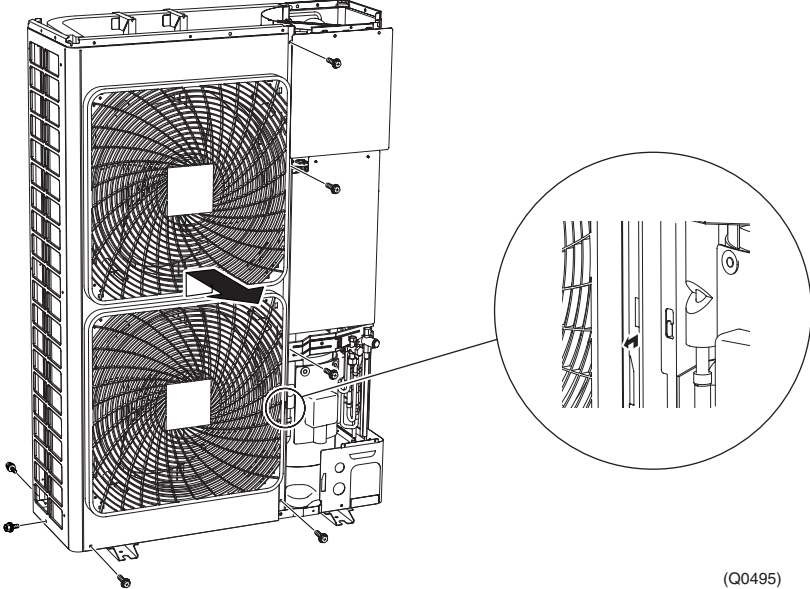
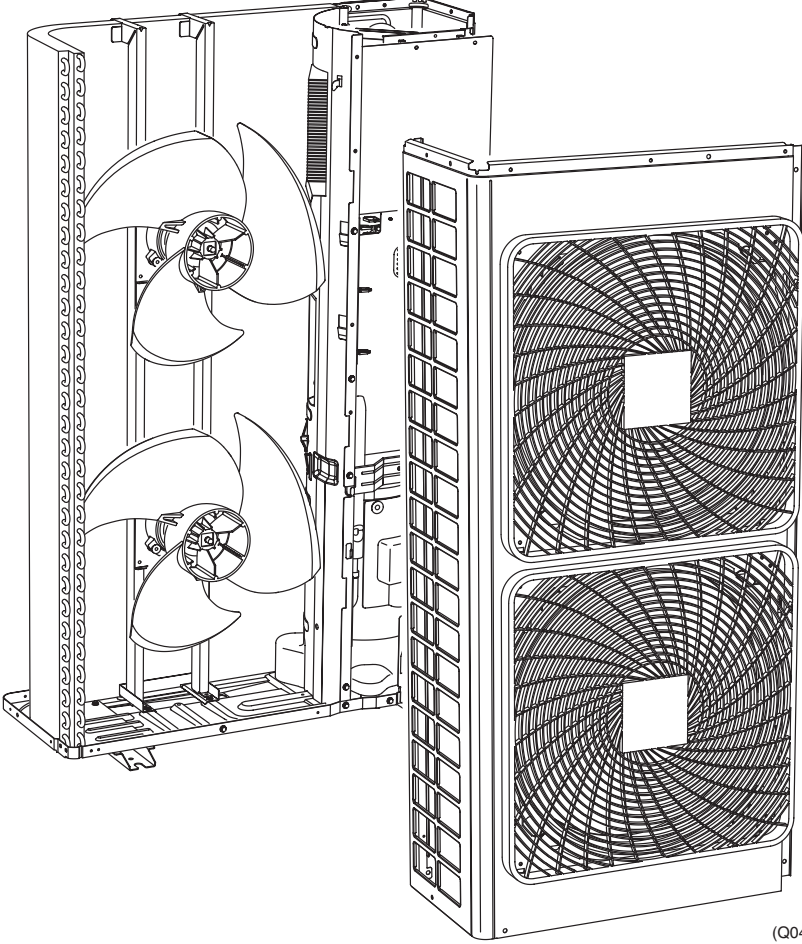
1.5 Removal of Fan Motor

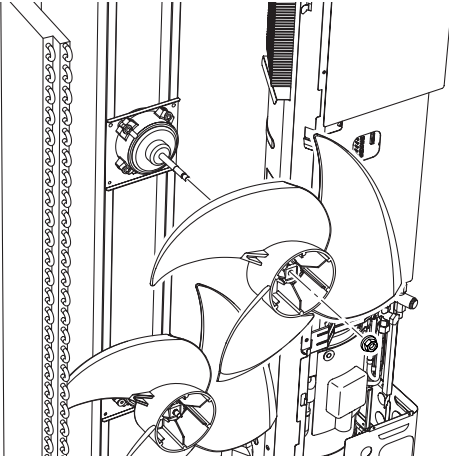
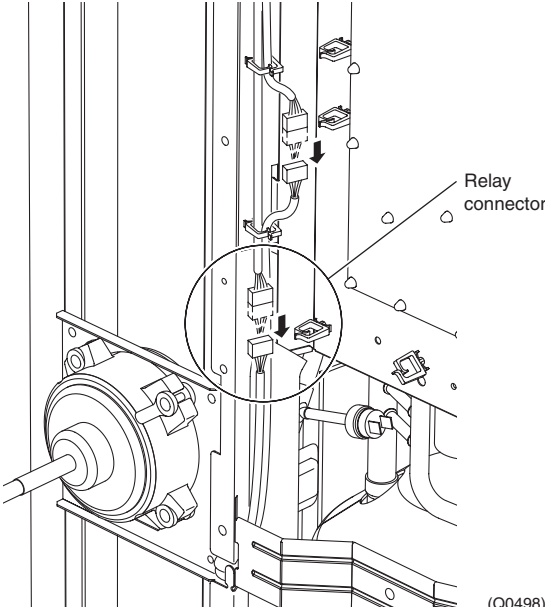
Procedure

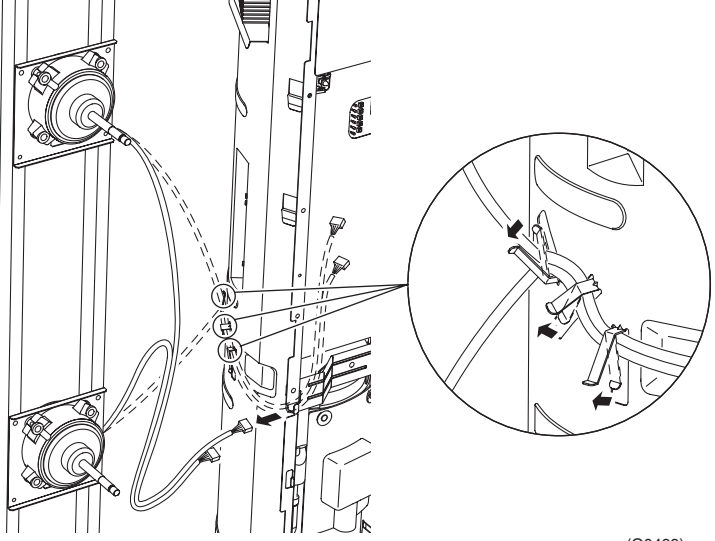
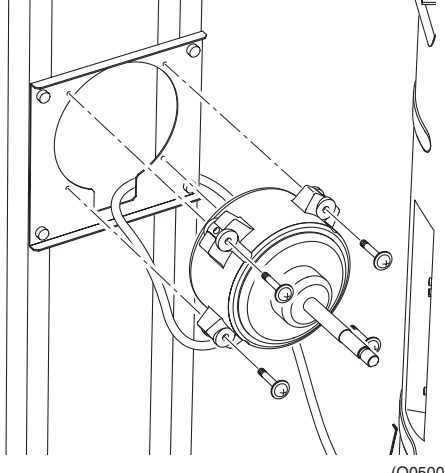


Warning

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Step	Procedure	Points
1. Remove the front cover.		
1 Remove the 7 screws.		<p>(Q0495)</p>
2 Slide up the front cover to unhook and detach it.		<p>(Q0496)</p>

Step	Procedure	Points
2.	<p data-bbox="129 215 475 248">Remove the propeller fan.</p> <p data-bbox="153 248 475 792">1 Remove the nut and detach the propeller fan.</p> <p data-bbox="153 792 475 2130">2 Disconnect the fan motor lead's relay connector.</p>	
	 <p data-bbox="948 770 1011 792">(Q0497)</p>	
	 <p data-bbox="963 1016 1054 1061">Relay connector</p> <p data-bbox="995 1435 1054 1458">(Q0498)</p>	

Step	Procedure	Points
3	<p>Open the fan motor lead fixture.</p>	<p>When reassembling, make sure the lead wires are fastened by the fixtures.</p>  <p>(Q0499)</p>
4	<p>Remove the 4 screws and take out the fan motor.</p>	<p>Remove the 2 bottom screws first. If the top two screws are removed first, the fan motor may tilt down or fall by gravity, getting you injured.</p>  <p>(Q0500)</p>

2. BP Unit

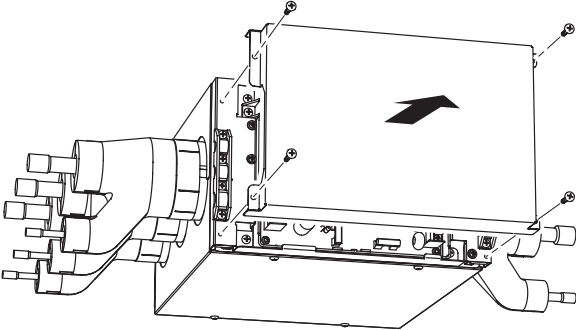
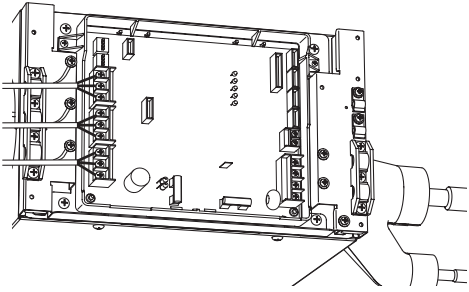
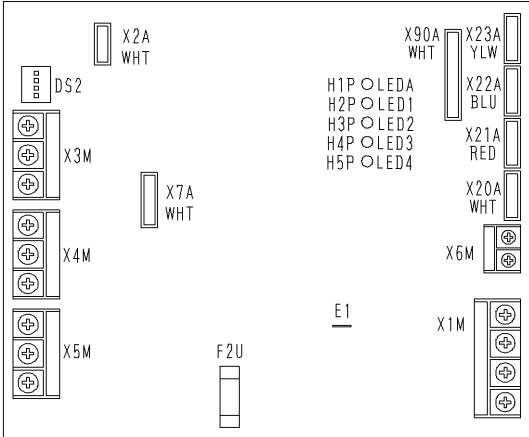
2.1 Removal of PCB

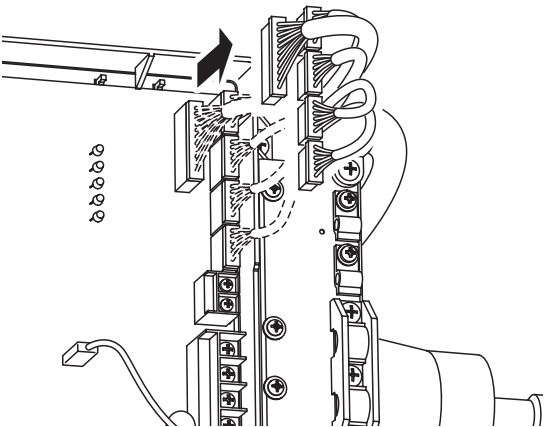
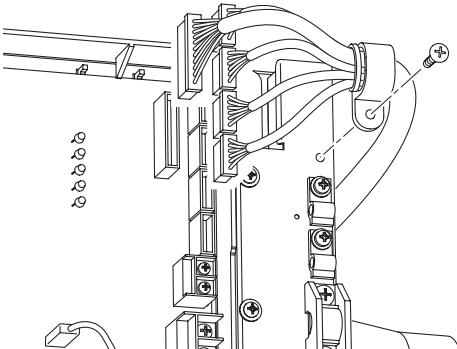
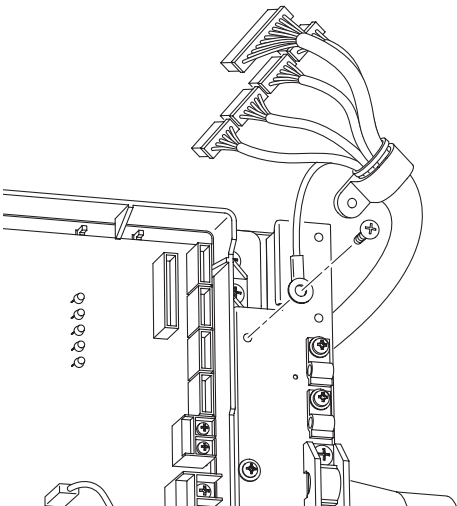
Procedure

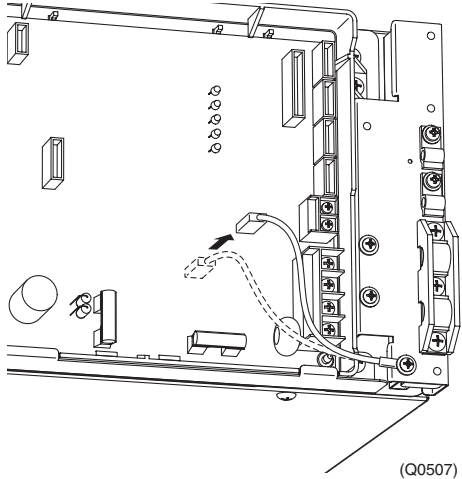
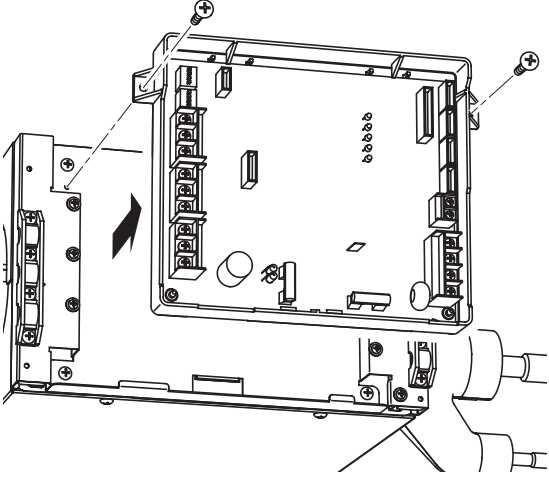


Warning

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Step	Procedure	Points
1. Remove the PCB.	 <p style="text-align: right;">(Q0501)</p>  <p style="text-align: right;">(Q0502)</p>	<p>The PCB is coated resistant to moisture. This means that the fuse and varistor cannot be replaced.</p> <p>When reassembling, have test operation for checking wrong wiring.</p>
2	<p>The PCB is as shown at right. Disconnect all the relay cables.</p>	
	 <p style="text-align: right;">(Q0503)</p>	

Step	Procedure	Points
3	<p>Disconnect the solenoid valve connector and the thermistor connector.</p>  <p>(Q0504)</p>	
4	<p>Remove the screw off the wire harness band.</p>  <p>(Q0505)</p>	
5	<p>Remove the screw off the grounding lug.</p>  <p>(Q0506)</p>	

Step	Procedure	Points
6	<p>Disconnect the Faston terminal of the grounding cable.</p>  <p>(Q0507)</p>	
7	<p>Remove the 2 screws and take out the PCB.</p>  <p>(Q0508)</p>	

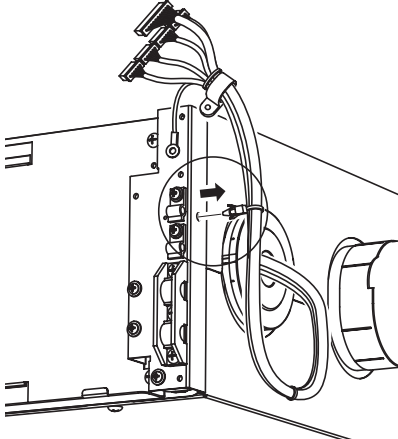
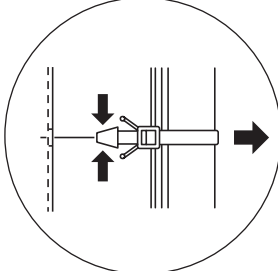
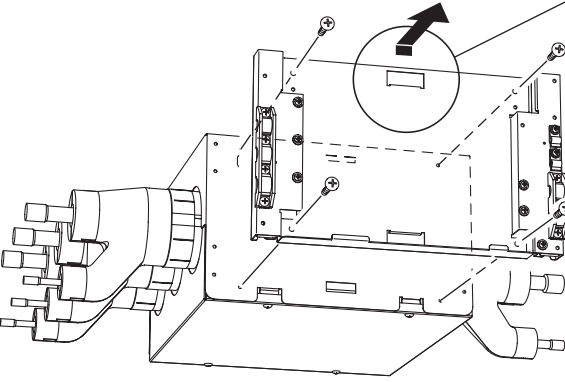
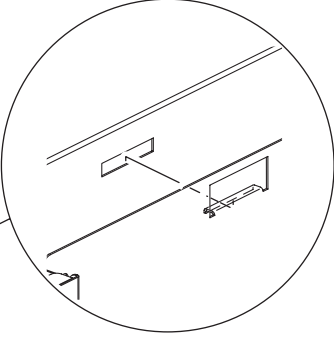
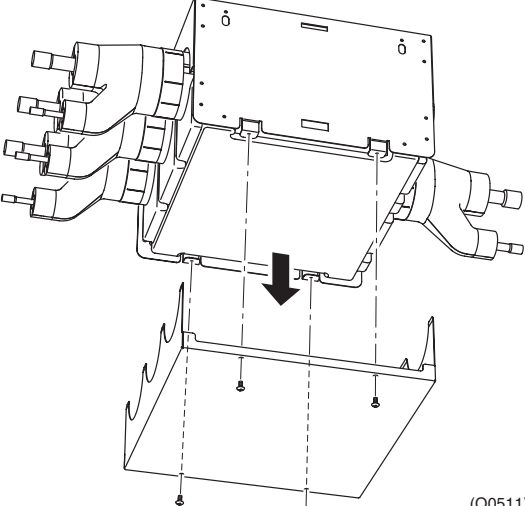
2.2 Removal of Solenoid Valve Coil

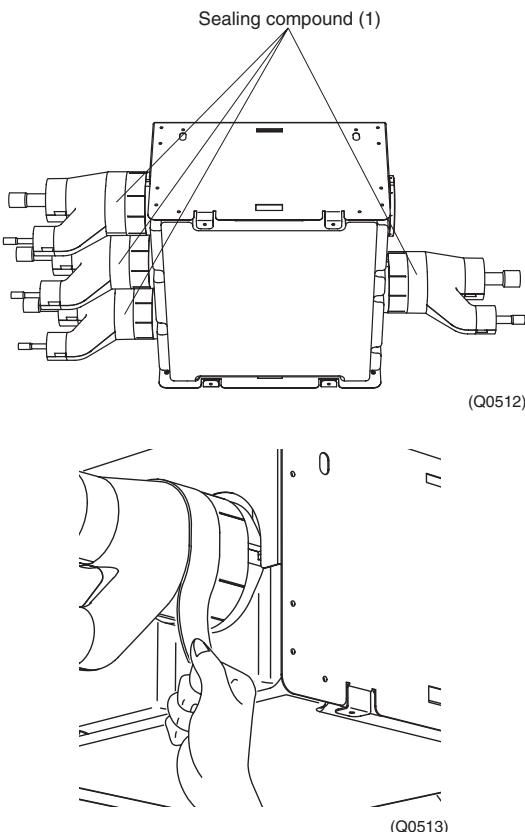
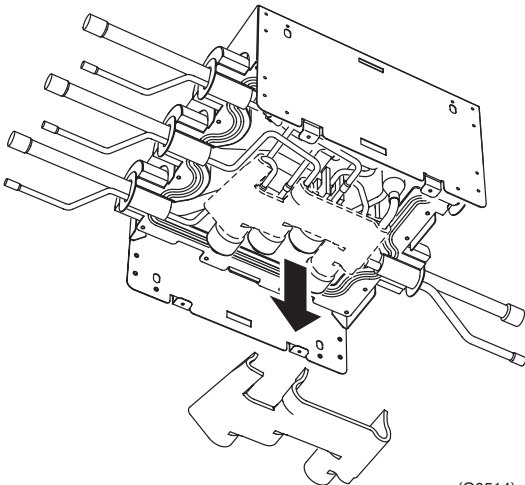
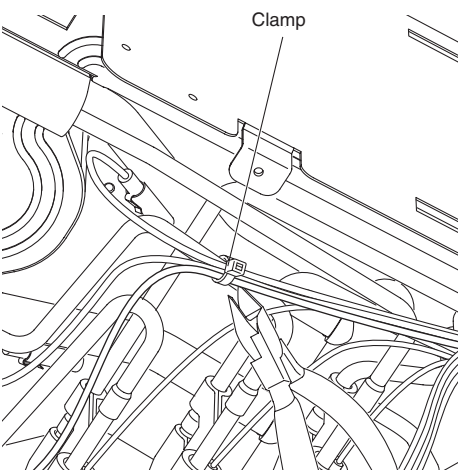
Procedure

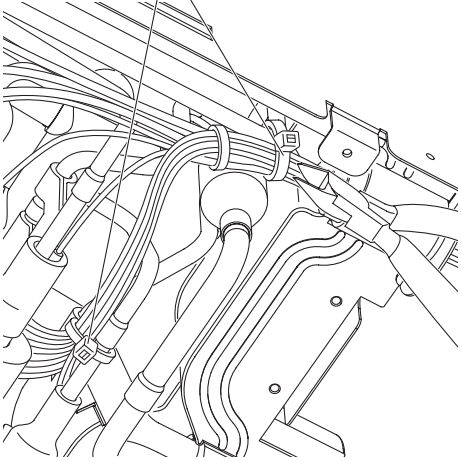


Warning

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

Step	Procedure	Points
1. Remove the PCB.		
1 Remove the legged clamp from the wire harness.	 <p style="text-align: right;">(Q0509)</p>	<p>Preparations Take the steps for removing the PCB.</p> <p>Press the fixture between your fingers to unhook.</p> 
2 Remove the 4 screws off the electrical box mounting plate. Lift the plate up to detach it.	 <p style="text-align: right;">(Q0510)</p>	
3 Remove the 4 screws off the bottom plate.	 <p style="text-align: right;">(Q0511)</p>	

Step		Procedure	Points
4	Remove the sealing compound (1) of the pipe insulation sleeves.	 <p style="text-align: center;">Sealing compound (1)</p> <p style="text-align: right;">(Q0512)</p> <p style="text-align: right;">(Q0513)</p>	The sealing compound (1) is a servicing part.
5	Remove the putty.	 <p style="text-align: right;">(Q0514)</p>	
6	Cut off the clamp.	 <p style="text-align: center;">Clamp</p> <p style="text-align: right;">(Q0528)</p>	The clamp is to be kept in stock.

Step	Procedure	Points
	<p data-bbox="683 259 751 286">Clamps</p>  <p data-bbox="946 790 1007 813">(Q0529)</p>	<p data-bbox="1094 215 1422 275">The clamps are to be kept in stock.</p>

Revision History

Month / Year	Version	Revised contents
07 / 2013	Si18-797	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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