

PROCEDURE SERVICE MANUAL SERVICE MANUAL

3 HP Class









Service Manual Removal Procedure

Outdoor Unit

Applicable Models

●Heat Pump RZQ71KAVLT

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1. Procedure to Remove Outside Panels and Related Parts

Procedure

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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 front panel 2 (the front panel of the side panel), after removing the 1 screw and pushing the front panel downward.	Top panel	a	
2	Remove the top panel, after removing the 8 screws.	Ho	oks Suction grille	
3	Remove the front panel 1, after removing the 7 screws.			
4	Remove the right side panel, after removing the 5 screws.			
5	Remove the front panel of the piping cover, after removing the 1 screw.	Front panel 1	Right	
6	Remove the side panel of the piping cover, after removing the 4 screws.		nt panel 2	
7	Hold the lower part (2 positions) and pull frontward. Remove from the top hooks using a flathead screwdriver etc. and then pull downward the whole suction grille to remove it.	Front pane piping cov	al of er	

Points

2. Procedure to Remove Propeller Fan and Fan Motor

Procedure

Warning

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

■ Remove the front panel 2, following the procedure indicated at "Removal of Outside Panels and Related Parts".

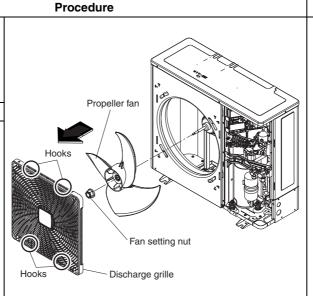
1. Remove the propeller fan

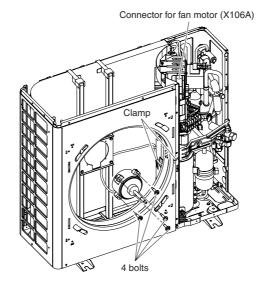
1 Remove the 4 screws that fix the discharge grille. Remove from 4 hooks at upper and lower side and then remove the discharge grille.

Remove the fan setting nut that fixes the propeller fan.

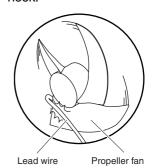
* Remove the top panel, following the procedure indicated at "Removal of Outside Panels and Related Parts".

- 2. Remove the fan motor
- 1 Remove the connector for the fan motor from the printed wiring board (PWB). (Refer to *1)
- Remove the 3 clamps which fix the lead wire.(3 hooks of partition plate)
- 3 Remove the 3 screws of the front panel and then pull lead wire frontward.
- Pull out the fan motor, after removing the 4 fixing bolts.





In case of removing the connector, do not pull the lead wire. Hold the connector part and press the hook.



Precaution for the motor installation:

Be sure to fix the lead wire of the motor. Otherwise the lead wire might be entangled with the motor and causes failure.

3. Procedure to Remove Switch Box

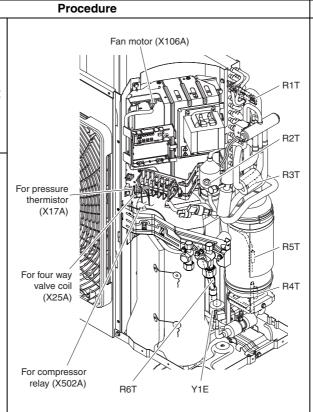
Procedure

/ Warning

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

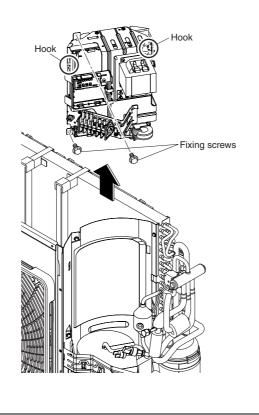
■ Remove the front panel, the suction grille, the top panel, the side panel, and the piping cover, following the procedure indicated at "Removal of Outside Panels and Related Parts".

- Remove the wirings to the switch box and the related parts
 - Remove the connectors below;
 - Fan motor (X106A)
 - Pressure thermistor (X17A)
 - Coil of four way valve (X25A)
 - Compressor relay (X502A)
 - Remove the parts below;
 - Coil of motor operated valve (Y1E)
 - Liquid pipe thermistor (R6T)
 - Suction pipe thermistor (R3T)
 - Discharge pipe thermistor (R2T)
 - Outdoor air thermistor (R1T)
 - Heat exchange thermistor (R4T)
 - Thermistor at the midpoint of heat exchange (R5T)
 - When removing, cut the clamps that fix each lead wire of each part.
- 2 Removing the switch box
 - Remove 2 screws that fix the switch box.
 - Holding the switch box, lift upward and remove the 2 hooks (1 right and 1 left) and then pull out.



Precaution for the installation of the switch box: After restoring each part, fix each lead wire with the clamps in the same way as originally fixed.

Points

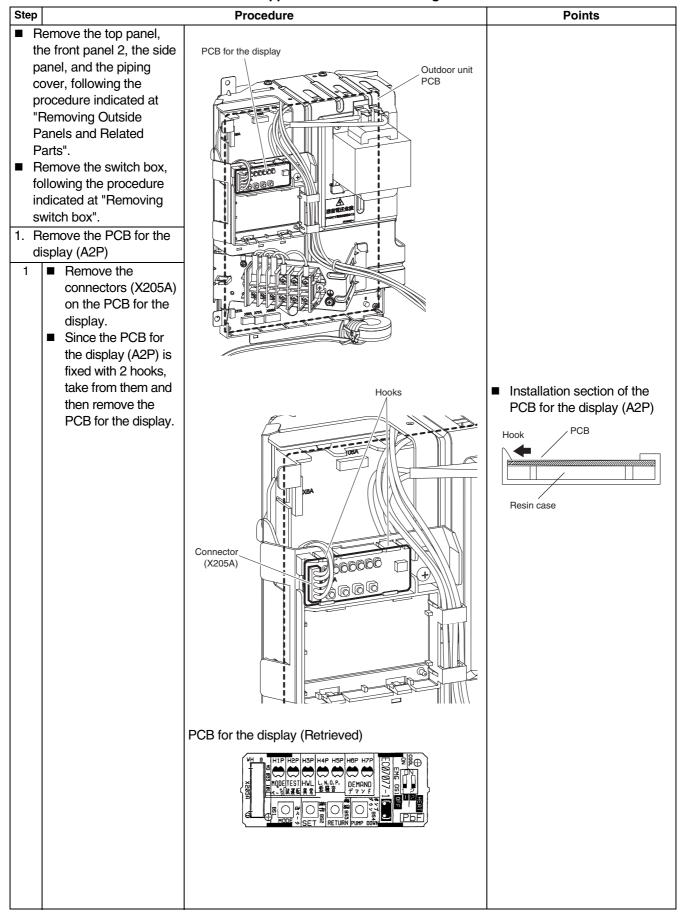


4. Procedure to Remove PCB Assy (1)

Procedure

/ Warning

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

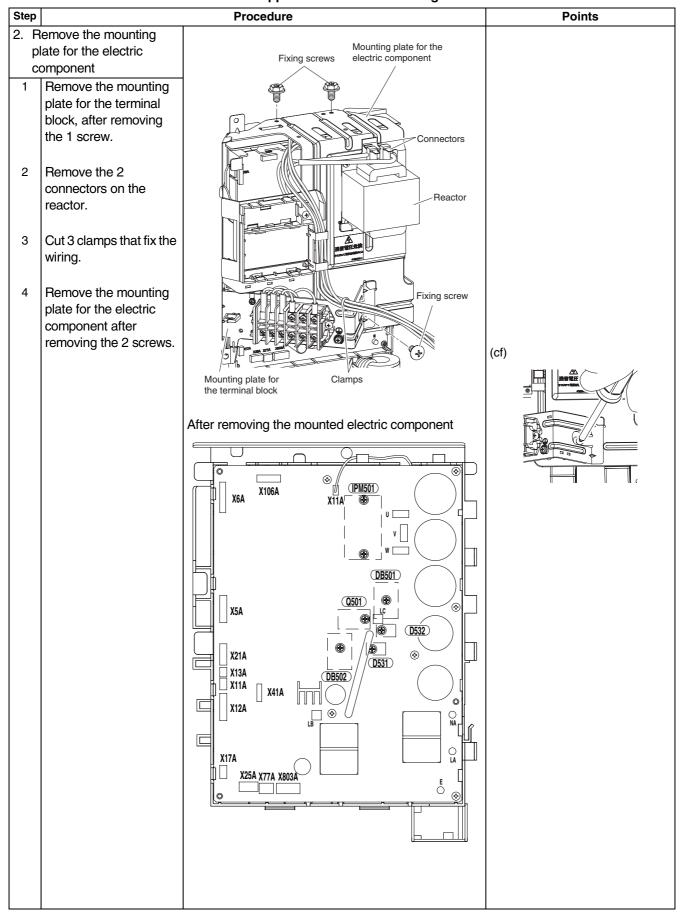


5. Procedure to Remove Assy (2)

Procedure

/ Warning

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

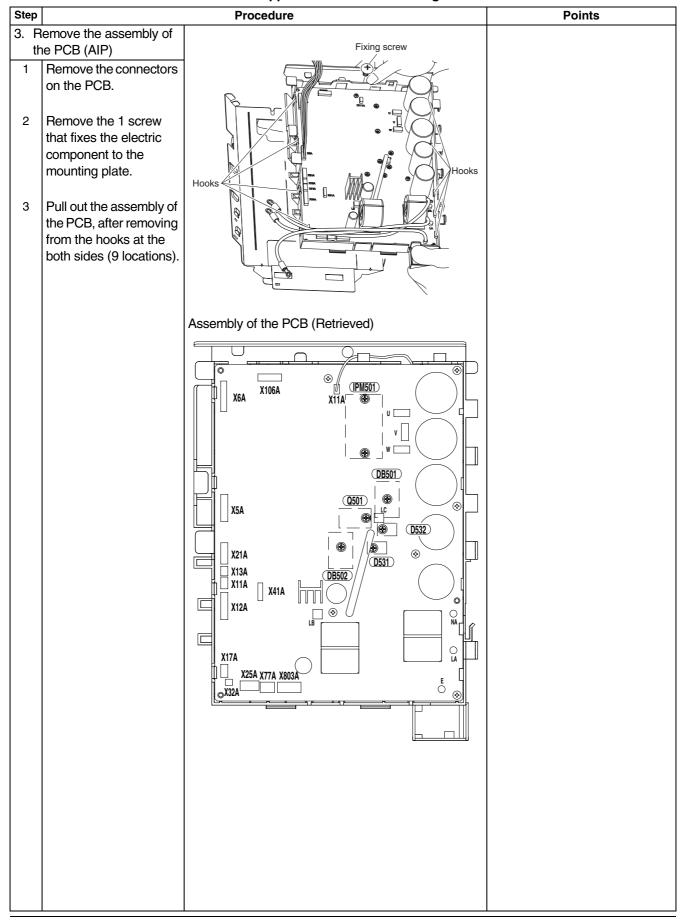


6. Procedure to Remove Assy (3)

Procedure

/ Warning

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



7. Procedure to Remove Low Pressure Thermistor, Electronic Expansion Valve, and Others

Procedure

/ Warning

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

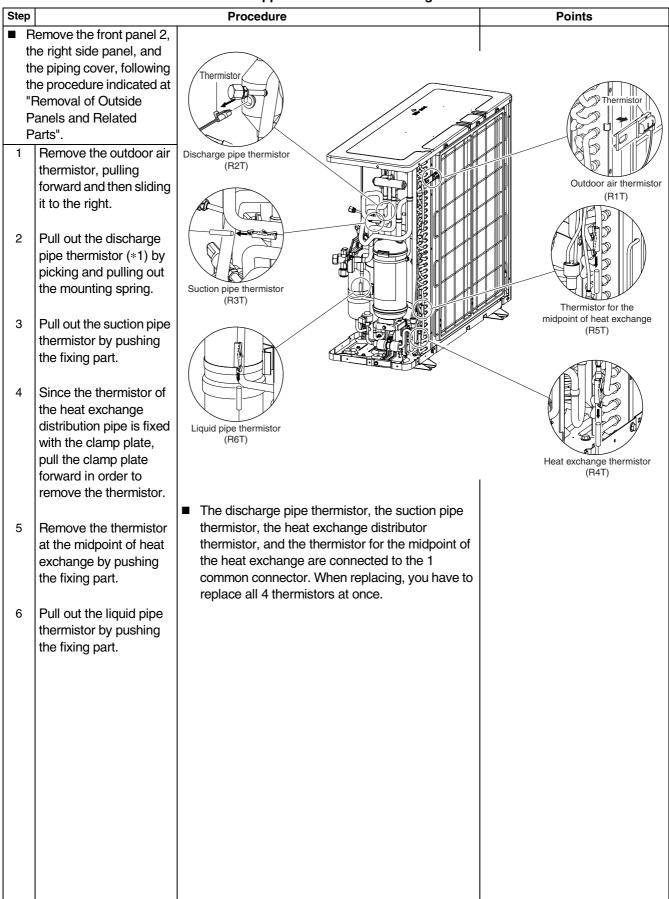
Step Procedure	Points	
Remove the outside panels, their parts, and the switch box, following the procedure indicated at "Removal of Outside Panels and Related Parts' and other instructions. 1. Remove the pressure thermistor 1. Remove the pressure thermistor 1. Remove the pressure thermistor 2. Remove the pressure switch 1. Remove the pressure switch 1. Remove the pressure switch 2. Remove the pressure switch after cutting off the brazing off the brazing. 3. Remove the electronic expansion valve upward. 2. Cut the brazing (2 locations) and remove the body of the electronic expansion valve. (Replace with the assembly of the electronic expansion valve. (Replace with the assembly of the electronic expansion valve)	■ Be sure to collect the refrigerant first, before removing the main unit of the motor operated valve. ■ Precaution for the mounting of the coil of the motor operated valve Press the coil into tube until the clip completely fits in the tube.	

8. Procedure to Remove Thermistor

Procedure

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



9. Procedure to Remove Four Way Valve

Procedure

• Warning

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

Procedure **Points** Step ■ Collect the refrigerant. ■ Be sure to confirm that the ■ Remove the outside Coil for the four refrigerant is completely way valve Brazing panels, their parts, and collected before starting the switch box, following the work. procedure indicated at "Removing Outside ■ Protect other pipings using a Panels and Related Parts" protective sheet for the and other instructions. welding or steel plate so that the flame for the gas welding Remove the four way valve after removing the may not damage them. 1 screw. When brazing, cool down the main unit using a wet waste Remove the main unit 2 etc. so that the temperature of the four way valve of the main unit may not get after cutting off the higher than 120 °C. brazing (4 locations).

10.Procedure to Remove Compressor

Procedure

1 Warning

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

Procedure **Points** Step ■ Collect the refrigerant. ■ Be sure to confirm that the ■ Remove the outside Fixing plate for the stop valve refrigerant is completely panels, their parts, and collected before starting the the switch box, following work. the procedure indicated at "Removing Outside The color of each terminal Panels and Related Parts" Rubber bush and other instructions. Glass terminal Remove the fixing plate for the stop valve after removing the 5 screws. 2 Remove the sound QVinsulation (1). Remove the terminal U: Red V: White W: Blue cover, after pushing the projective parts from the both sides. Fixing nuts Remove the lead wire from the terminal (2). ■ One of the fixing nuts of the Pull out the sound 5 Sound insulation (1) compressor is located at the insulation by unwinding outer side of the partition the strings (2 locations). plate. Remove the nuts that fix the compressor. (All the equipments are Terminal cover fixed with 3 nuts). 7 Cut off the brazing (2 Brazing locations). 8 Pull out the compressor by lifting upward. Sound insulation (2) String

Revision History

Month / Year	Version	Revised contents	
06 / 2013	Si281314E	First edition	



- 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.



JMI-0107

Dealer

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