



4/5/6 HP Class



Inverter

Pair Type



Service Manual Removal Procedure

Outdoor Unit

Applicable Models

●Heat Pump RZQ100KV4A RZQ125KV4A RZQ150KV4A RZQ160KV4A

Table of Contents

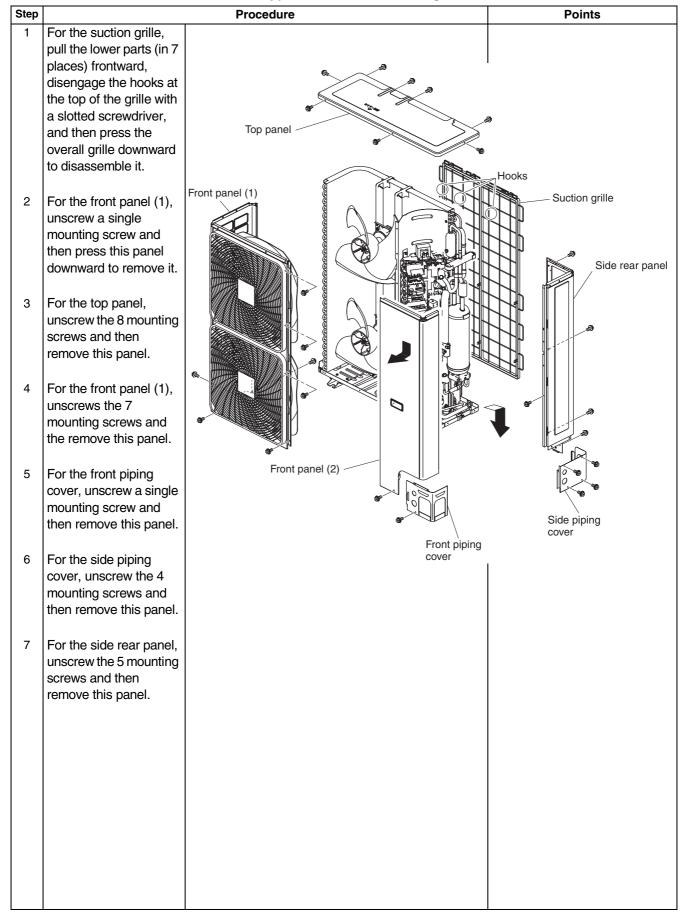
Procedure to Remove Outside Panels	2
Procedure to Remove Propeller Fan and Fan Motor	3
Procedure to Remove Switch Box	4
Procedure to Remove PCB	5
Procedure to Remove Pressure Sensor, Electronic Expansion Valve, and Others	
Procedure to Remove Thermistor	7
Procedure to Remove Four Way Valve	8
Procedure to Remove Compressor	9
	Procedure to Remove Propeller Fan and Fan Motor Procedure to Remove Switch Box Procedure to Remove PCB Procedure to Remove Pressure Sensor, Electronic Expansion Valve, and Others Procedure to Remove Thermistor

1. Procedure to Remove Outside Panels

Procedure

/ Warning

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



Points

2. Procedure to Remove Propeller Fan and Fan Motor

Procedure

Warning

Procedure

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

■ Remove the front panel
(2) accordance with the
Procedure to remove
Outside Panels.

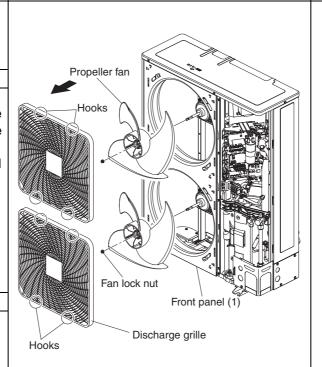
1. Remove the propeller fan

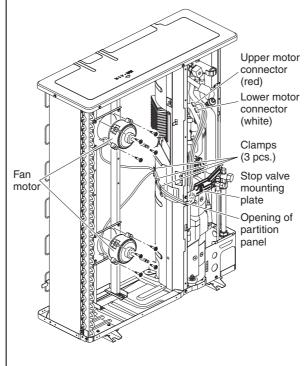
1 Unscrew the 4 screws
that fix the air discharge
grille and disengage the
4 hooks at the top and
bottom of the grille, and
then remove this air

2 Unfasten the fan lock nut that fixes the propeller fan.

discharge grille.

- 2. Remove the fan motor
- Remove the front panel (1) accordance with the Procedure to remove Outside Panels.
- 1 Remove the connector (X206A, X207A) for fan motor from the PCB.
- 2 Cut the clamp of lead wires (located on the reverse side of the stop valve mounting plate).
- 3 Pull out the lead wires through the opening of the partition panel, and then unclamp the 3 clamps. (Note that the partition plate has 3 hooks.)
- 4 Unfastening the 4 lock from the fan motor, enables the removal of this motor.





In order to disconnect the connector, do not pull the lead wire. Hold the connector part and then press the hooks.



Cautions in mounting the motor Be sure to fix the motor lead wire with a clamp. Not heeding this caution will cause the entanglement of the lead wire around the fan, which will result in damage to the fan.

3. Procedure to Remove Switch Box

Procedure



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

Procedure Step **Points** ■ Remove the front panel (2) accordance with the If the top panel cannot be Procedure to remove removed Outside Panels. Screws fixing the reactor Even though workability is Disconnect each Cable tie degraded, it is possible to pull connector on the PCB. (outdoor air the switch box to the front (Refer to the Points thermistor) without removing the top panel. column.) The figure below shows Remove the 2 faston connectors to be terminals. After that, disconnected. unscrew the 3 screws Pressure sensor Upper fan Lower fan that fix the reactor, and A set of lead wire motor [X106A] motor [X107A] lead then remove the **Flectronic** wires expansion reactor. valve [X21A] Clamp Outdoor air 3 Cut the clamp. thermistor Screws [X11A] fixing the Integrated thermistor terminal 4 Remove the clamp of block [X12A] the pressure sensor Liquid pipe thermistor lead wire. [X13A] 0 Pressure 5 Cut the clamp of the outdoor air thermistor. [X17A] Four way Crankcase valve [X25A] heater [X28A] Terminal 6 Disconnect a set of lead Solenoid valve 1 cove wires together from the [X26A] clamp. Solenoid valve 2 [X27A] Remove the terminal ■ Precaution for mounting the cover, and then pressure sensor disconnect the 3 lead Terminal block for compressor wires from the terminal block for the To prevent the lead wire from compressor. hanging over the PCB, hook the lead wire of 160 to 170 mm in Unscrew the 2 screws 8 length from the front end of the that fix the terminal connector on the clamp. block. Disengage the 3 hooks, and then pull out the switch box upward.

Procedure to Remove PCB

4. Procedure to Remove PCB

Procedure

Warning

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

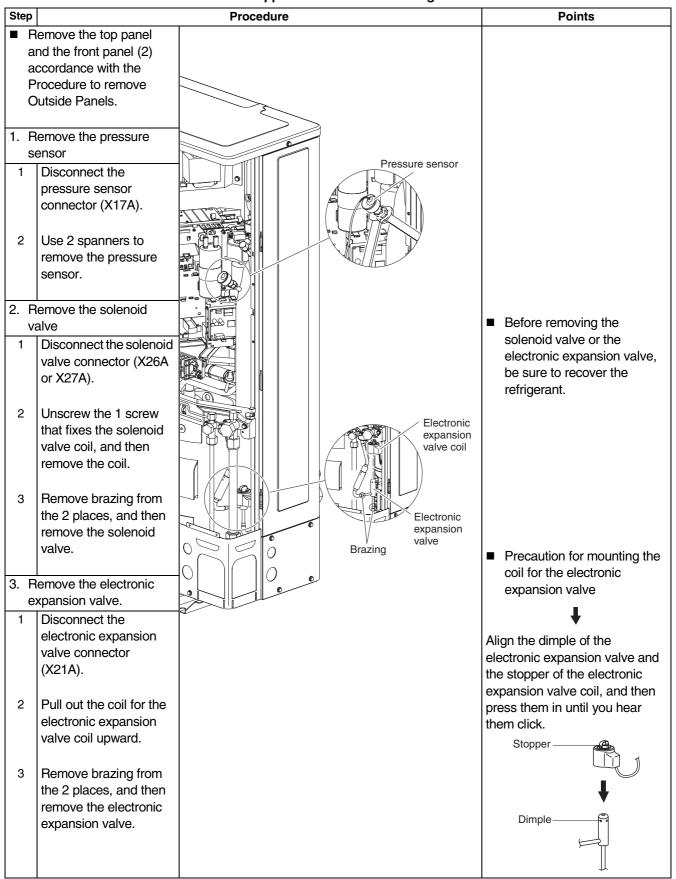
Step		Procedure		Points
	Remove the top panel nd the front panel (2)	Uaska		
	ccordance with the	Hooks		
P	rocedure to remove			
C	Outside Panels.	Tab of cover of electric		
1. F	Remove the PCB (A2P)	Connector		
1	Disconnect the	PCB		
	connector (X205A) from	(A2P) 94 H 95 T		
	the PCB.	Tab of cover harness		
2	While pressing the 2	of electric		
	hooks, remove the PCB	components		
	(A2P).			
	<u> </u>			
	Remove the PCB (A1P)			
	Remove the switch box			
	ccordance with the rocedure to remove the	Clamp (A) Support leg of		
	rocedure to remove the witch Box.	Terminal block Tab of terminal components		
1	Remove the clamp from	block mounting section		
'	the compressor	333		
	harness.			
		Radiation fin thermistor Clamp (B) (X111A) // Compressor		
2	Press the hooks to	/(X102A)		
	remove the terminal			
	block.			
3	Cut the 2 clamps (A).			
		Hooks		
4	Extend the hooks, and then remove the	Hooks		
	support leg of the cover	Hooks Reactor		
	of electrical	(P1)		
	components.	Reactor (P2)		
5	Disengage the 3 hooks			
	on the left side, and	Earth wire		
	then while pushing down the 2 hooks on	(E1)		
	the right side, remove			
	the whole cover of the	Power outs		
	electric components.	Indoor-Outdoor Power supply connection cable cable (X1A)		
	·	(X803A)	_	0
6	Cut the clamps (B).			Connectors used on the PCB
7	Disconnect the			· Compressor (X102A)
	connector listed in point			• Earth wire (E1)
	column.			• Reactors (P1 and P2)
8	Remove the PCB (A1P)			 Power supply cable (X1A)
	together with the			• Indoor-Outdoor connection
	radiation fin.			cable (X803A)

5. Procedure to Remove Pressure Sensor, 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.

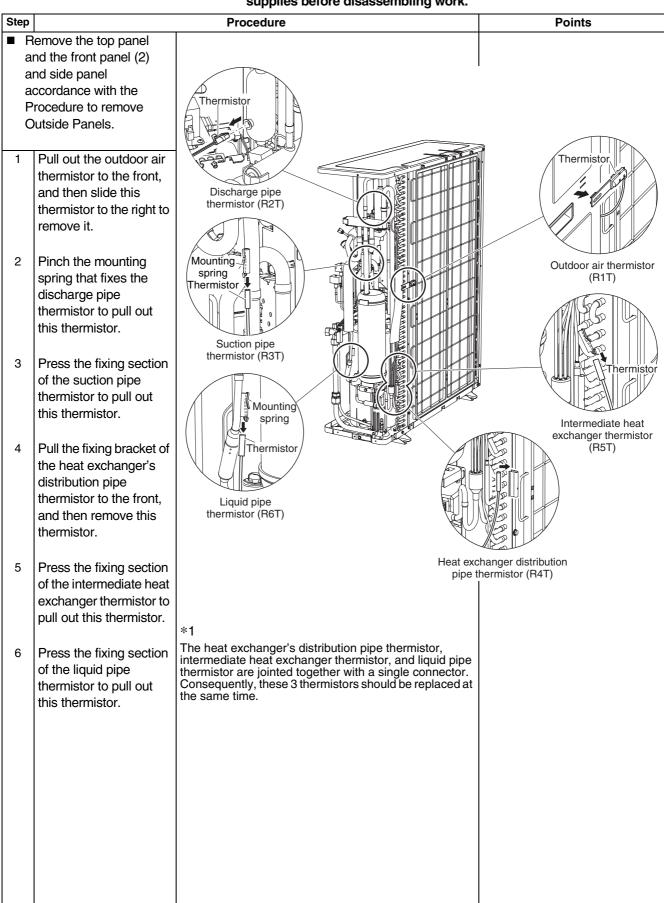


6. Procedure to Remove Thermistor

Procedure

Warning

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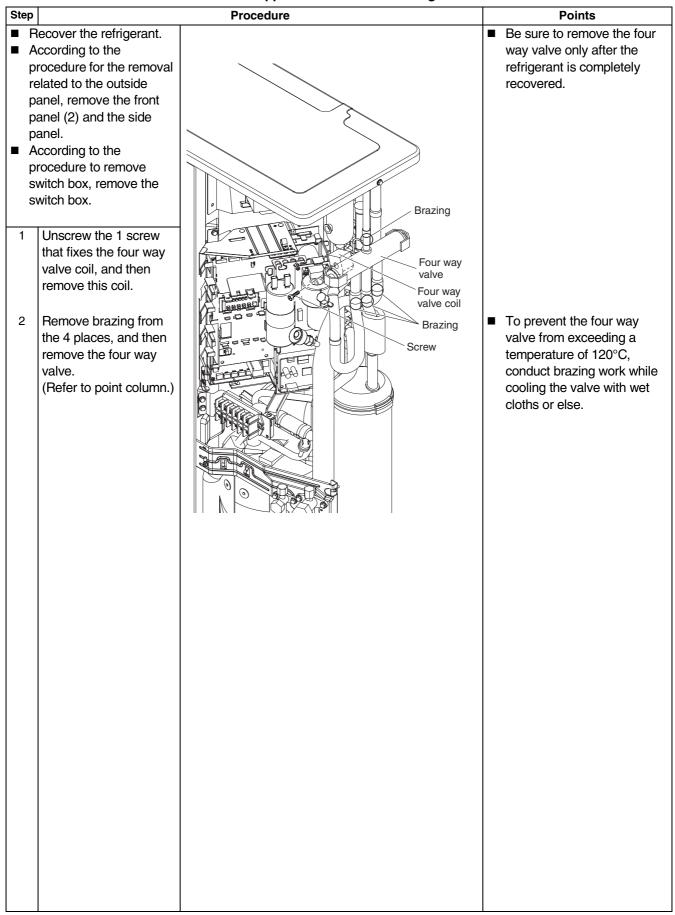


7. Procedure to Remove Four Way Valve

Procedure



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8. Procedure to Remove Compressor

Procedure

Warning

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Step **Procedure Points** ■ Recover the refrigerant. ■ Be sure to remove the (Refer to point column.) compressor only after the ■ Remove the front panel refrigerant is completely Stop (2) and the front piping recovered. valve cover bracket. mounting plate Terminal block Unscrew the 5 screws that fix the stop valve String mounting plate, and W (blue) Gas then remove this piping mounting plate. U (red) Liquid Terminal piping cover 2 Remove the gas piping and the liquid piping. 3 Remove the Compressor compressor terminal lead wires cover. 4 Disconnect the lead wires from the terminal block. String 5 Loosen the 2 strings, and then pull out the 1 out of the nuts that fix the sound insulation of the compressor is located compressor. outside of the partition panel. Unfasten to remove the 3 nuts that fix the compressor. (Refer to Cutting point column.) point (suction 7 Cut the suction pipe and the discharge pipe Brazing using a pipe cutter. (Refer to point column.) Cutting ■ Be sure to cut 3 pipes by point 8 Remove brazing from (discharge using a pipe cutter before pipe) the 3 places. disconnecting the brazed sections of pipes. A sudden 9 Lift to pull out the disconnection of the brazed compressor. sections can cause oil to Insulation catch fire. Nuts fixing the compressor

Revision History

Month / Year	Version	Revised contents
01/2013	Si281316	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

Organization: DAIKIN INDUSTRIES, LTD. AIR CONDITIONING MANUFACTURING DIVISION

Scope of Registration: THE DESIGN/DEVELOPMENT AND MANUFACTURE OF COMMERCIAL AIR CONDITIONING, HEATING, COOLING, REFRIGERATING EQUIPMENT, HEATING EQUIPMENT, RESIDENTIAL AIR CONDITIONING EQUIPMENT. HEAT RECLAIM VENTILATION, AIR CLEANING EQUIPMENT, COMPRESSORS AND VALVES.



JQA-1452

Organization: DAIKIN INDUSTRIES (THAILAND) LTD.

Scope of Registration: THE DESIGN/DEVELOPMENT AND MANUFACTURE OF AIR CONDITIONERS AND THE COMPONENTS INCLUDING COMPRESSORS USED FOR THEM



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