



4/5/6 HP Class



Inverter

Pair Type



Service Manual Removal Procedure

Outdoor Unit

Applicable Models

●Heat Pump RZQ100HY4A RZQ125HY4A RZQ160HY4A

Table of Contents

1.	Procedure to Remove Outside Panels	2
	Procedure to Remove Propeller Fan and Fan Motor	
3.	Procedure to Remove Switch Box	4
4.	Procedure to Remove PCB Assy (1)	6
5.	Procedure to Remove PCB Assy (2)	7
6.	Procedure to Remove PCB Assy (3)	8
	Procedure to Remove Low Pressure Sensor,	
	Electronic Expansion Valve, and Others	9
8.	Procedure to Remove Thermistor	10
9.	Procedure to Remove Four Way Valve	11
10	Procedure to Remove Compressor	12

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.

Step		Procedure		Points
1	For the suction grille, pull the lower parts (in 7 places) frontward, disengage the hooks at the top of the grille with a slotted screwdriver, and then press the overall grille downward to disassemble it.	Top panel	Suction grille	
2	For the front panel (side front panel), unscrew a single mounting screw and then press this panel downward to remove it.			
3	For the top panel, unscrew the 8 mounting screws and then remove this panel.	Front panel Side panel cover Front pane	rear panel el of	
4	For the front panel of the piping cover, unscrew a single mounting screw and then remove this panel.	piping cov	er	
5	For the side panel of the piping cover, unscrew the 4 mounting screws and then remove this panel.			
6	For the side rear panel, unscrew the 6 mounting screws and then remove this panel.			

cause the entanglement of the lead wire around the fan, which will result in damage

to the fan.

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. Step **Procedure Points** ■ Remove the front and top panels in accordance with the Procedure to remove Outside Panels. 1. Remove the propeller fan Propeller fan Unscrew the 4 screws Hooks that fix the air discharge grille and disengage the 4 hooks at the top and bottom of the grille, and then remove this air discharge grille. Unfasten the fan lock nut that fixes the propeller fan. Air discharge grille Hooks 2. Remove the fan motor ■ In order to disconnect the connector, do not pull the Remove the connector Connector for fan motor lead wire. Hold the for the fan motor from connector part and then the PCB. press the hooks. (X206A, X207A) 2 The lead wire is clamped in 3 places. (Click on partition plate×3 places) 3 Unscrew the 3 screws that fix the front panel Screws (3 numbers) and then pull up the Lead wire Propeller fan lead wire. Clamp Cautions in mounting the Unfastening the 4 lock bolts from the fan motor Be sure to fix the motor lead enables the removal of wire with a clamp. Not this fan motor. heeding this caution will

Removal Procedure

Bolts (4 numbers)

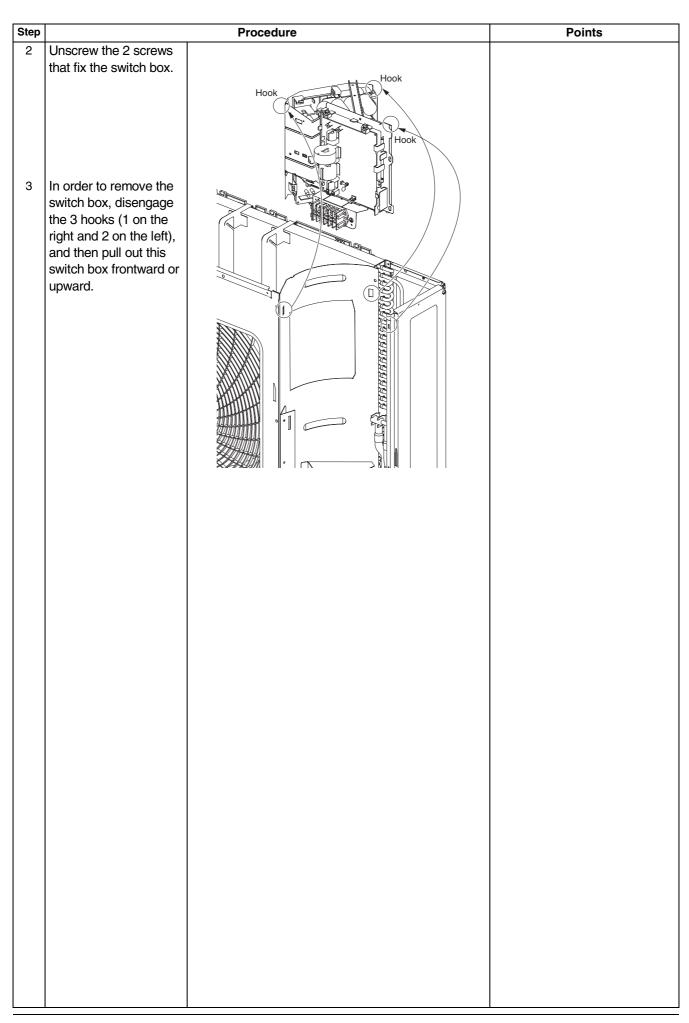
3. Procedure to Remove Switch Box

Procedure

/ Warning

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

Procedure Step **Points** Remove the front and top ■ If the top panel cannot be panels in accordance with removed, this switch box will the Procedure to remove be able to be dismounted Outside Panels. without removing the top panel. Remove all connectors and Fasten terminals, which have a connection to the switch box. Remove the lead wire from the terminal of the high pressure switch. ■ Remove the lead wire of the compressor from the terminal cover of Fixing screw of this compressor. switch box ■ Disconnect the relay connector from the lead wire of the reactor. ■ Disconnect the relay connector(s) from the lead wire of the fan motor(s). ■ Remove the lead wire from the terminal of the high pressure switch and low pressure sensor. ■ Disconnect the respective connectors from the following parts on the PCB. · Each thermistor · Coil of four way valve · Coil of solenoid valve

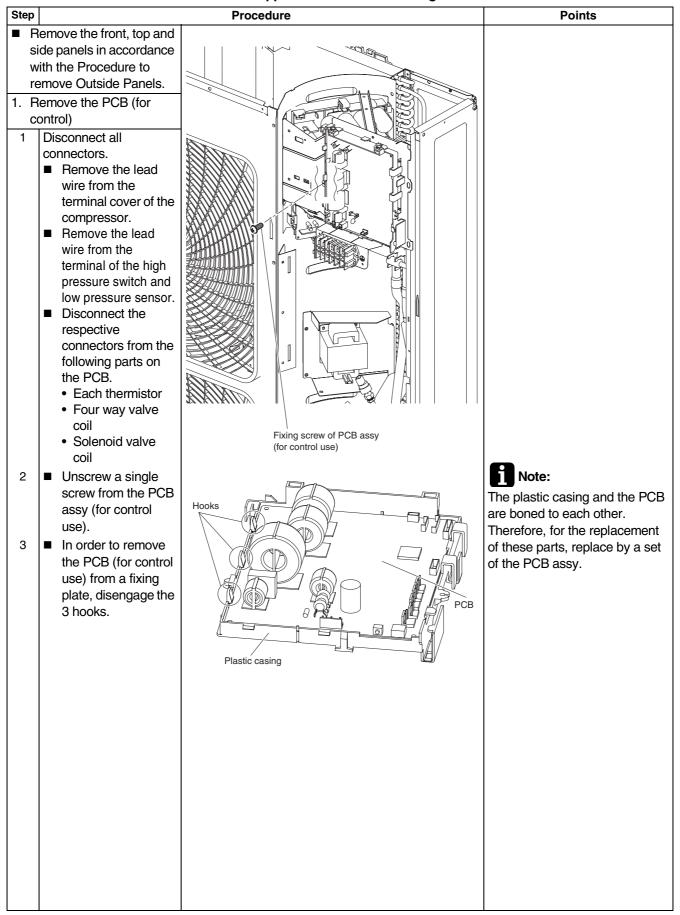


4. Procedure to Remove PCB Assy (1)

Procedure

/ Warning

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

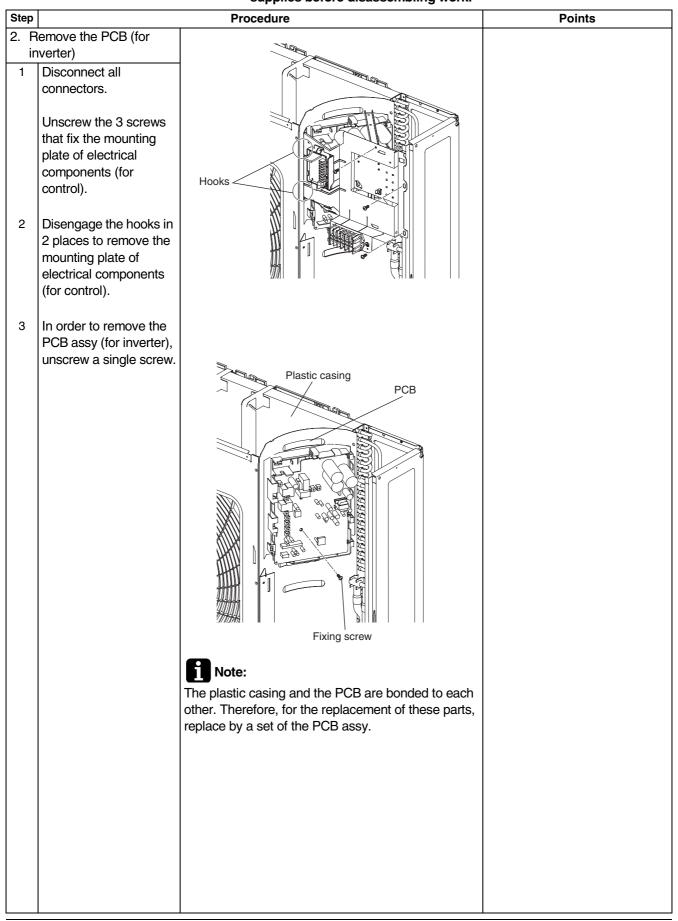


5. Procedure to Remove PCB Assy (2)

Procedure

Warning

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



6. Procedure to Remove PCB Assy (3)

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 PCB unit (for	5	
	nverter).		
1	Unscrew the 4 screws that fix the PCB and the		
	radiation fin.		
	Tadiation iiii.		
2	Disengage the 2 hooks,	•	
	and then while peeling		
	off silicon, remove the PCB (for inverter).		
	T CD (for inverter).		
3	Disengage the 4		
	mounting screws to		
	remove the radiation fin.		
	IIII.		
		,	
		PCB mounting plate	
		Radiation fin	
		•	

7. Procedure to Remove Low 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.

Step	Procedure	Points
 Remove the parts related to the outside panel and the switch box in accordance with the Procedure to remove Outside Panels. Remove the electronic 	Low pressure sensor High pressure switch	
expansion valve		
Pull out the coil from the electronic expansion valve upward. Strip off the brazed sections in 2 places on the body of the valve and then remove this	Solenoid valve coil Body of solenoid valve	
body.	valve coil	
Remove the high pressure switch	Body of electronic	
Disconnect the terminals from the high pressure switch and then strip off the brazed section on the switch.	expansion valve	
Remove the solenoid		
valve		
Unscrew a single screw from the solenoid valve coil and then remove this coil.		
2 Strip off the brazed sections in 2 places on the main unit of the solenoid valve and then remove this body.		
4. Remove the low pressure		
1 Disconnect the terminals from the low pressure sensor and then strip off the brazed section on the switch.		

8. Procedure to Remove Thermistor

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 front and top panels in accordance with the Procedure to remove Outside Panel and others In order to remove the discharge pipe Outdoor air thermistor thermistor, pinch the mounting spring and pull out this thermistor. Thermistor For the heat exchanger Thermistor distributor pipe thermistor, pull the clamp frontward and then remove this thermistor. Thermistor In order to remove the outdoor air thermistor, Heat exchanger distributor pipe pull out this thermistor thermistor frontward and then slide it to the right. For the suction pipe thermistor, pull this thermistor frontward and then remove it. Thermistor Thermistor Discharge pipe thermistor Suction pipe thermistor

9. Procedure to Remove Four Way Valve

Procedure

/ Warnin

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

to the outside panel and Body of four	Points Check to be sure there are no more refrigerants left in
to the outside panel and Body of four	
the switch box in accordance with the Procedure to remove	the unit before starting this removal.
Outside Panels. 1 Unscrew a single screw that fixes the four way valve coil and then remove this coil.	In order to prevent a gas welding flame from having influence on other pipes, protect them with a sheet or iron plate used for welding operation.
Strip off the brazed sections in 4 places on body of the four way valve and then remove this body.	Caution: While in installation of the four way valve, in order to prevent the main unit from reaching a temperature of 120°C or more, expose the valve to a flame while cooling it with a wet rag.

10.Procedure to Remove Compressor

Procedure

Warning

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

Step Procedure		Points	
to th a F	temove the parts related to the outside panel and the switch box in accordance with the temoval Procedure for outside Panels.	Cut here (on suction pipe)	 Check to be sure there are no more refrigerants left in the unit before starting this removal. Color of terminal pins
1	Unscrew the 5 screws from the stop valve mounting plate.	Cut here (on discharge pipe)	(Red) U (Red) U
2	Disconnect the gas piping and liquid piping.		V (White)
3	Press the protrusion from both sides to remove the terminal cover.		1 of the 2 nuts that fix the compressor is located outside the partition plate.
4	Remove the lead wires from the terminal pins.		
5	Remove the sound insulation (1), (2), and vibration-isolating putty.		
6	Unlock the nuts (*) that fix the compressor.		Caution: If the brazed sections are
	A total of 3 nuts are provided.		directly stripped off from the pipes, oil may catch fire. Be sure to cut the pipes in
7	Strip off the brazed sections (in 2 places*). Before stripping off the brazed sections, be sure to cut the suction and discharge pipes with a pipe cutter. (See Caution in the column of Points.)		advance with a pipe cutter.
8	Lift up the compressor to pull out it.		

Revision History

Month / Year	Version	Revised contents
01/2013	Si281317	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.

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

http://www.daikin.com/global_ac/

© All rights reserved