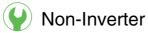


PROCEDURE SERVICE MANUAL SERVICE MANUAL

7.1 kW Class









Service Manual Removal Procedure

Outdoor Unit

Applicable Models

●Heat Pump RQ71LV1A

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1. Procedure to Remove Outside Panels and Related Parts

Procedure

/ 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	Top panel		
	and pushing the front panel downward.	No. of the state o		
2	Remove the top panel, after removing the 8 screws.	Hooks Suction grille		
3	Remove the front panel 1, after removing the 7 screws (1 screw on rear side).	Right side panel		
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 2		
6	Remove the side panel of the piping cover, after removing the 4 screws.	Side panel of piping cover Front panel of piping cover		
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.			

Points

2. Procedure to Remove Propeller Fan and Fan **Motor**

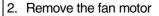
Procedure

Warning

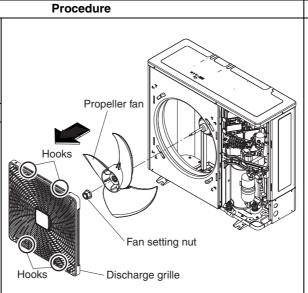
Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

	-			
р				
Remove the front panel 2,				
fo	llowing the procedure			
indicated at "Procedure to				
Remove Outside Panels				
aı	nd Related Parts".			
R	emove the propeller fan			
	Remove the 4 screws			
	that fix the discharge			
	grille. Remove from 4			
	hooks at upper and			
	lower side and then			
	remove the discharge			
	grille.			
	R fo in R aı			

- Remove the fan setting nut that fixes the propeller fan.
- 3 Remove the top panel, following the procedure indicated at "Procedure to Remove Outside Panels and Related Parts".



- Remove the connector for the fan motor from the PCB.
- Remove the 3 clamps which fix the lead wire. (3 hooks of partition plate)
- 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.



4 bolts

Connector for fan motor (X106A)

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

Procedure

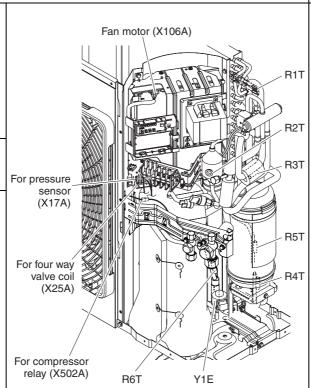
Warning

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 "Procedure to Remove Outside Panels and Related Parts".

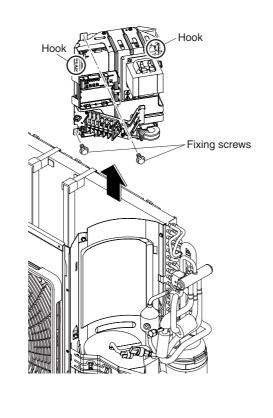
 Remove the wirings to the switch box and the related parts

- 1 Remove the connectors below;
 - Fan motor (X106A)
 - Pressure sensor (X17A)
 - Coil of four way valve (X25A)
 - Compressor relay (X502A)
- 2 Remove the parts below:
 - Coil of electronic expansion valve (Y1E)
 - Liquid pipe thermistor (R6T)
 - suction pipe thermistor (R3T)
 - Discharge pipe thermistor (R2T)
 - Outdoor air thermistor (R1T)
 - Heat exchanger thermistor (R4T)
 - Intermediate heat exchanger thermistor (R5T)
 - * When removing, cut the clamps that fix each lead wire of each part.
- 2. Removing the switch box
 - 1 Remove 2 screws that fix the switch box.
 - Holding the switch box, lift upward and remove the 2 hooks (one right and one 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

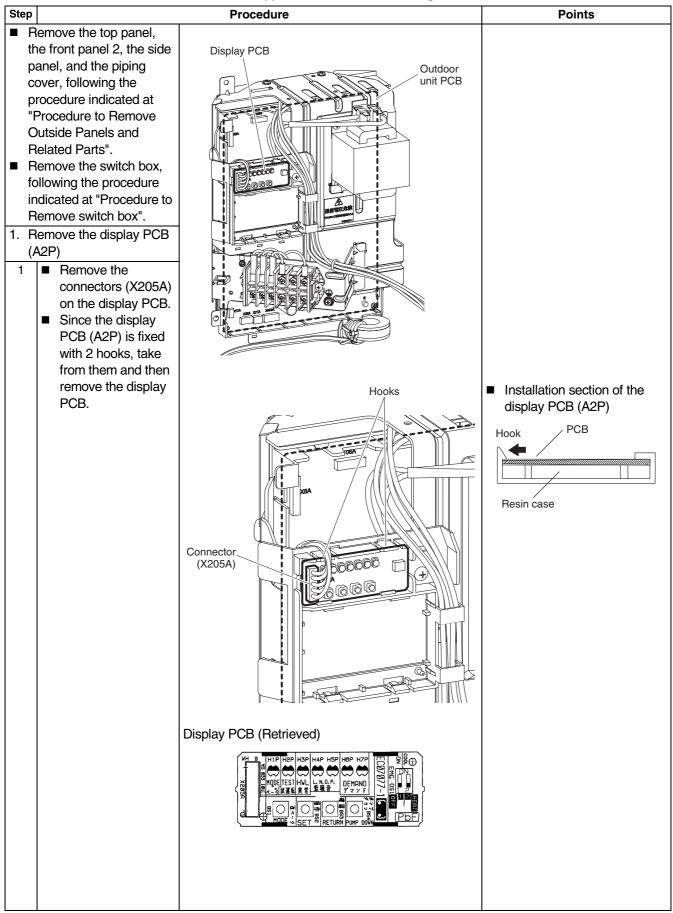


4. Procedure to Remove PCB Assy (1)

Procedure

/ Warning

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

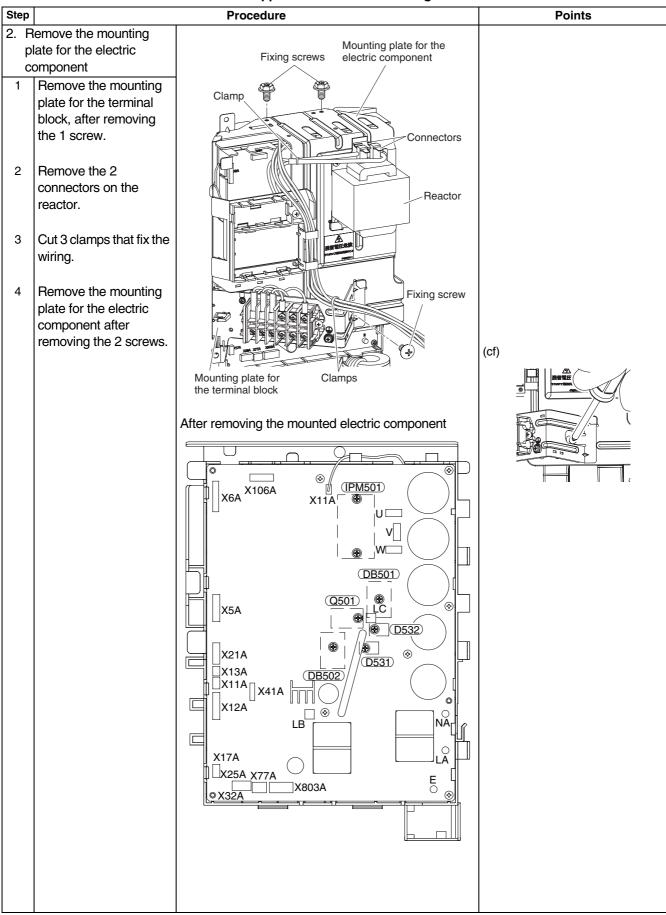


5. Procedure to Remove PCB Assy (2)

Procedure

Warning

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

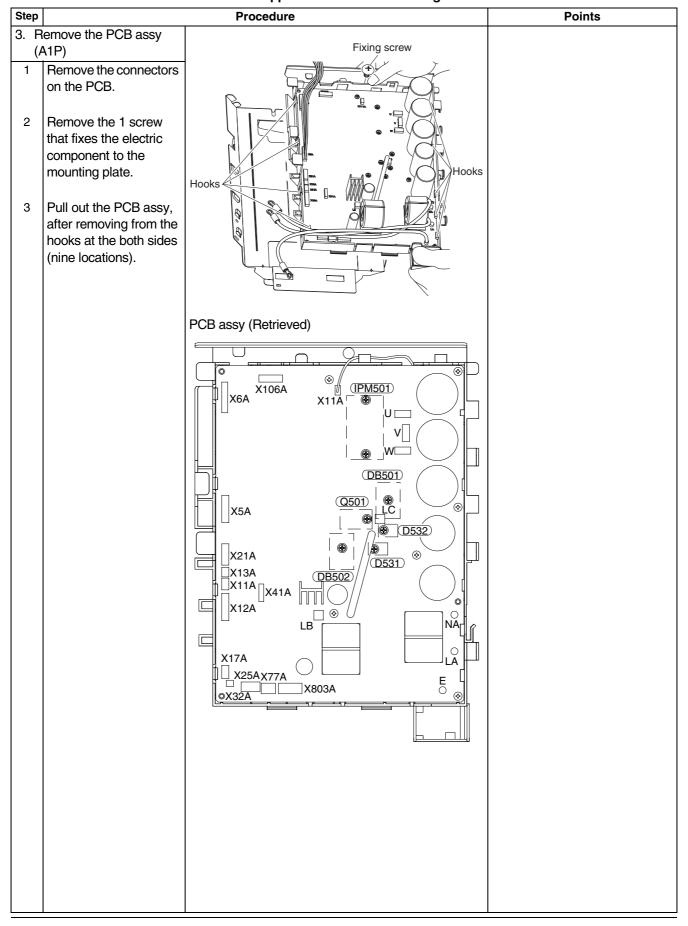


6. Procedure to Remove PCB Assy (3)

Procedure

V 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 Sensor, Electronic Expansion Valve, and Others

Procedure

V Warning

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

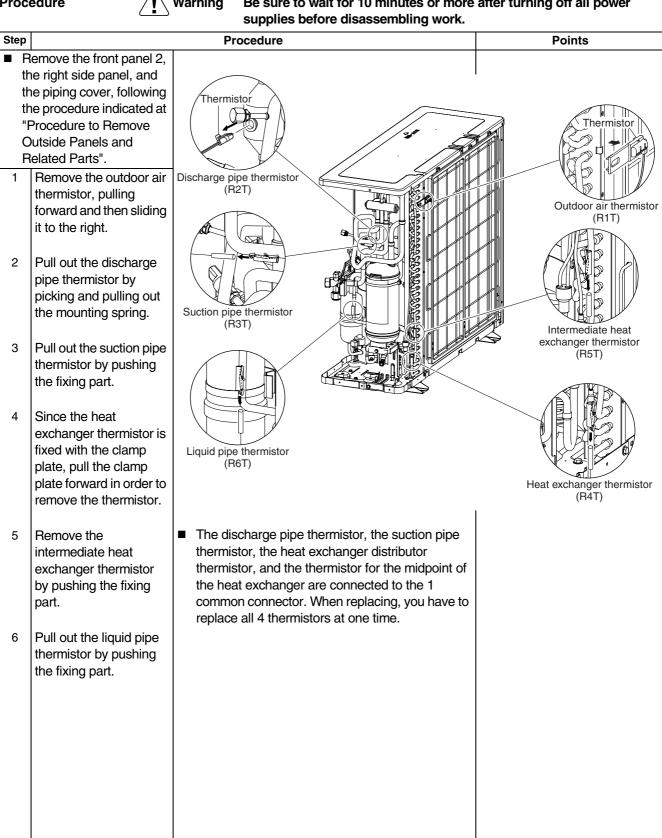
Step	Procedure		Points
 Remove the outside panels, their parts, and the switch box, following the procedure indicated at "Procedure to Remove Outside Panels and Related Parts" and other instructions. Remove the pressure 	Pressure sensor Pressure switch		
1 Remove the connector for the pressure sensor (X17A). 2 Remove the pressure sensor after cutting off the brazing (1 location).	Coil of electronic expansion valve Body of electronic expansion e	 Be sure to collect the refrigerant first, before removing the main unit of the electronic expansion valve. Precaution for the mounting 	
Remove the pressure	valve		of the coil of the electronic expansion valve.
switch 1 Remove the lead wire.			
2 Remove the pressure switch after cutting off the brazing.			Clip
Remove the electronic expansion valve			
Pull out the coil from the electronic expansion valve upward.			Push the coil into tube until the clip completely fits in the tube.
2 Cut the brazing (2 locations) and remove the body of the electronic expansion valve. (Replace with the assembly of the electronic expansion valve)			

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.



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

10.Procedure to Remove Compressor

Procedure

V 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 "Procedure to Remove The color of each terminal Outside Panels and Rubber bush Related Parts" and other Glass terminal instructions. Remove the fixing plate for the stop valve after removing the 5 screws. QV2 Remove the sound insulation (1). U: Red V: White W: Blue 3 Remove the terminal cover, after pushing the projective parts from the both sides. Fixing nut Remove the lead wire from the terminal. ■ One of the fixing nuts of the Sound insulation (1) compressor is located at the Pull out the sound outer side of the partition insulation (2) by plate. unwinding the strings (2 locations). Remove the 3 nuts that Terminal cover fix the compressor. (1 nut on rear side). Brazing 7 Cut off the brazing (2 locations). 8 Pull out the compressor by lifting upward. Sound insulation (2) String

Revision History

Month / Year	Version	Revised contents
09/2012	SiAU281212	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

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