

Si001658EA



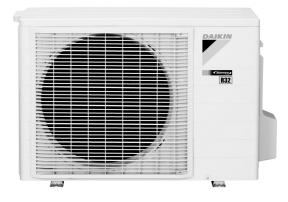
## 4.0/5.0/6.0/7.1 kW Class 18000/24000/28000 Btu/h Class



Outdoor Unit







## Service Manual Removal Procedure

# **Outdoor Unit**

Cooling Only
 RKC18QV2S
 RKC24QV2S
 RKC28QV2S

RKC50QVM RKC60QVM RKC71QVM

RKC50QVM4 RKC60QVM4 RKC71QVM4

RKC50QVMV RKC60QVMV RKC71QVMV

Heat Pump
 RHM50HVMV
 RHM60HVMV
 RHM71HVMV

RHP40HVLT RHP50HVLT

RXF50QVMA RXF60QVMA

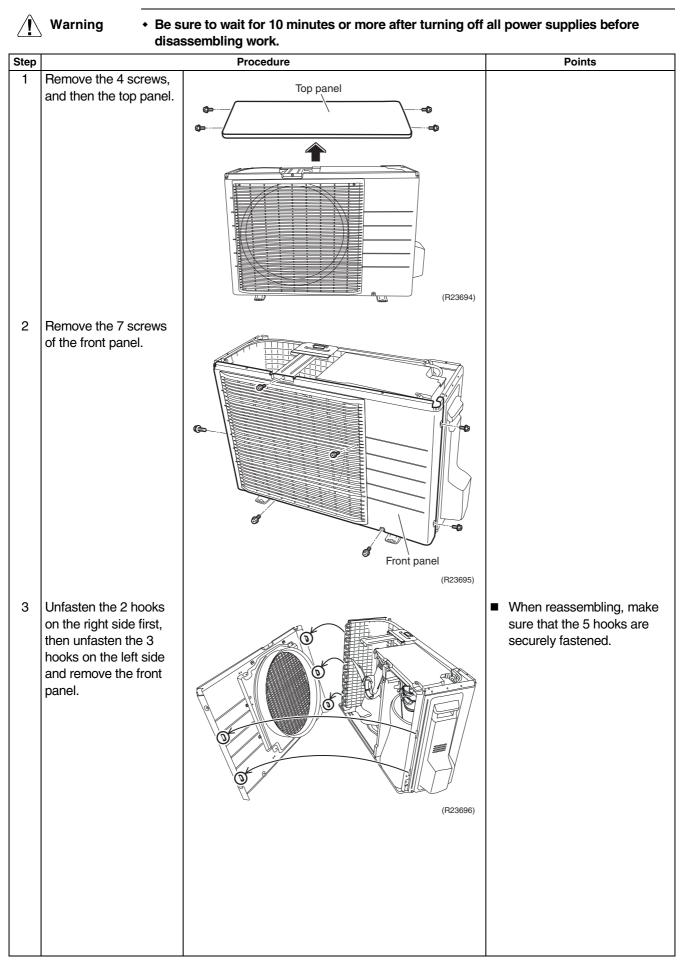
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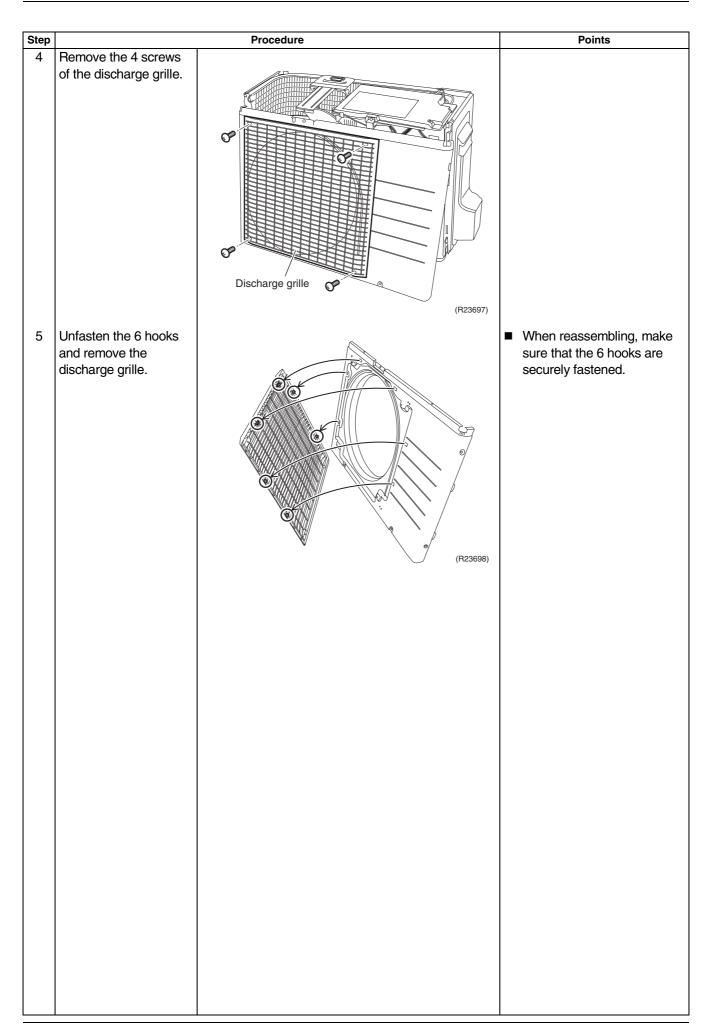
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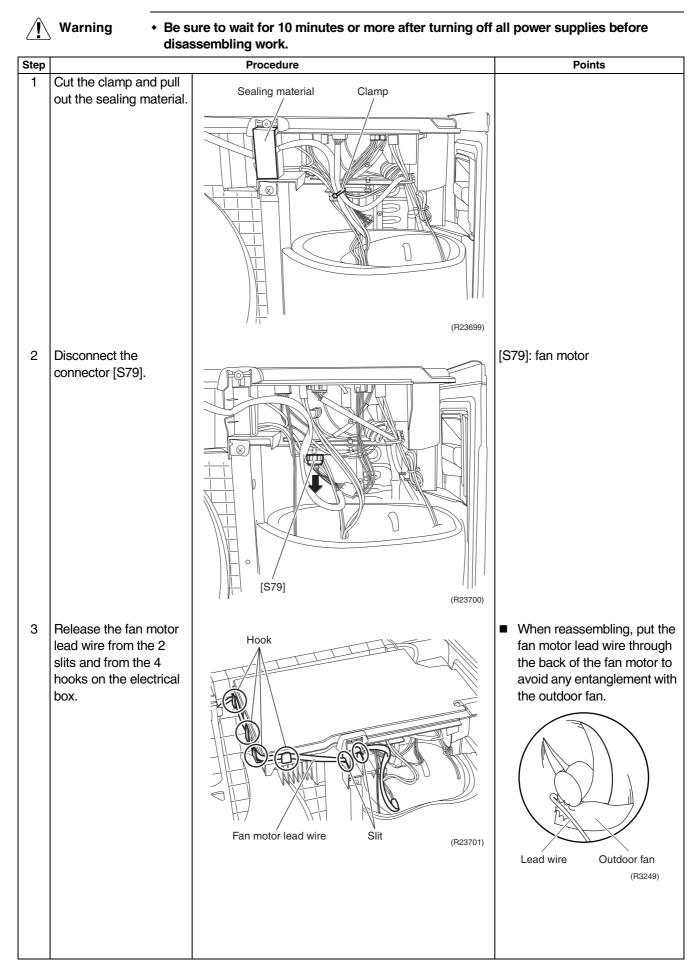
**Note:** • The illustrations may be slightly different depending on the model.

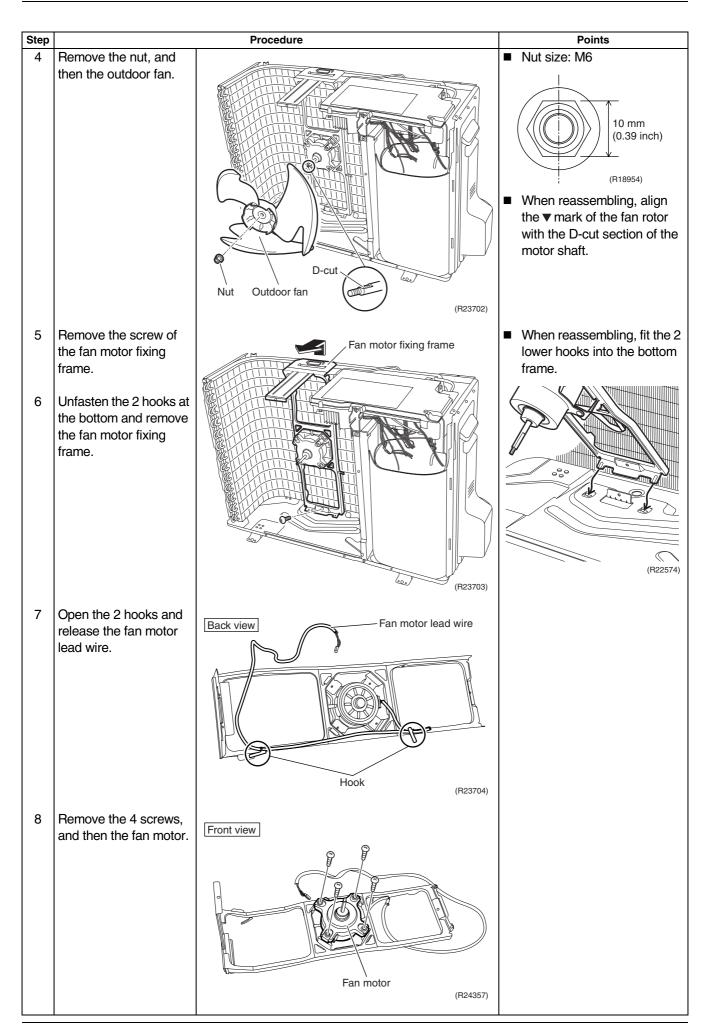
### 1. Outer Panels





### 2. Outdoor Fan / Fan Motor

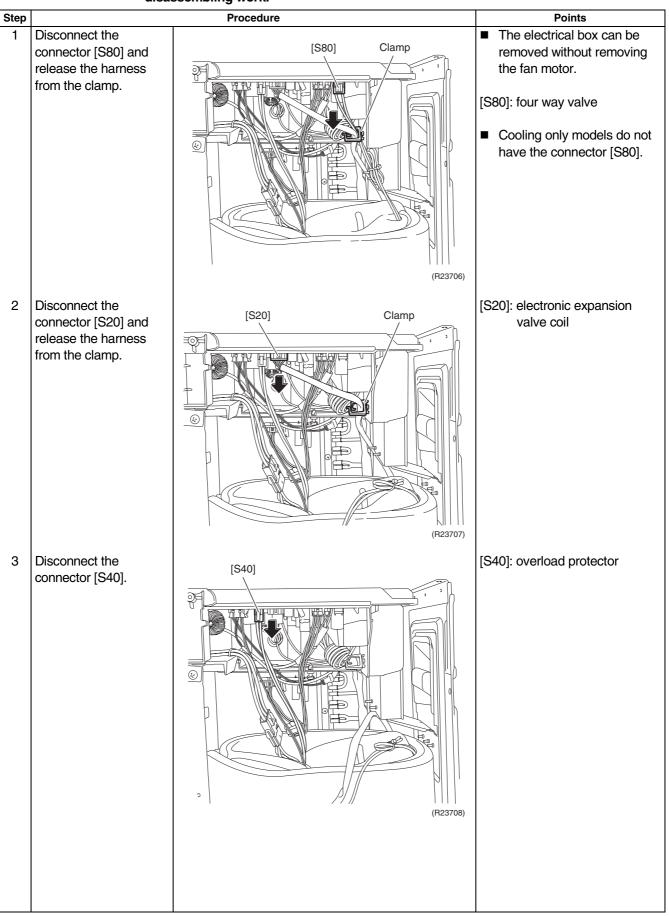


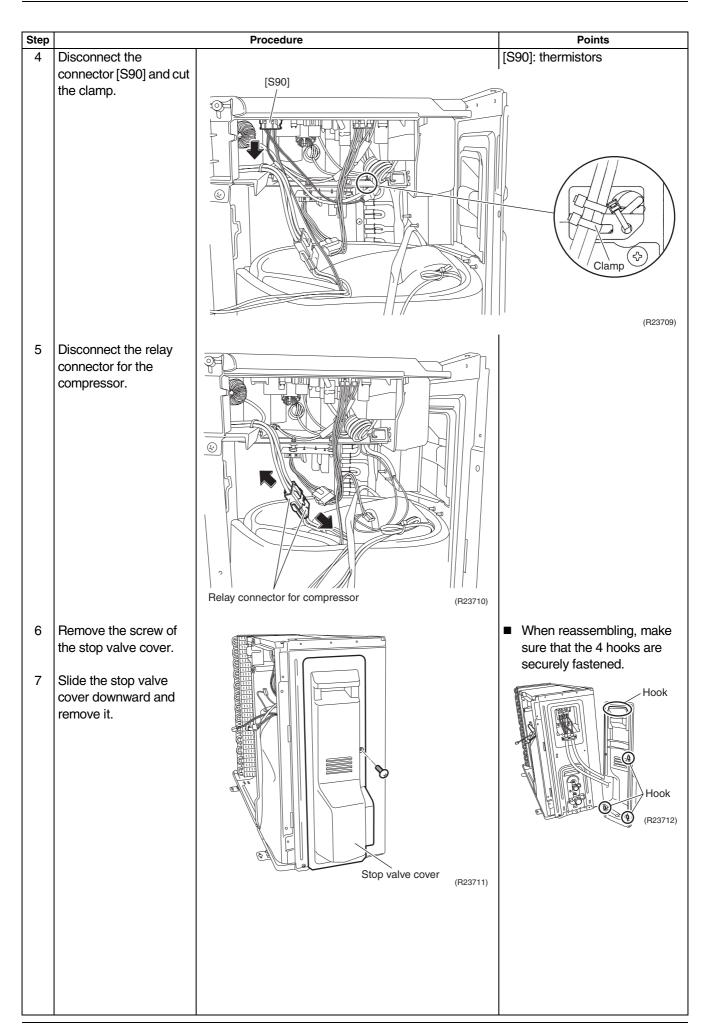


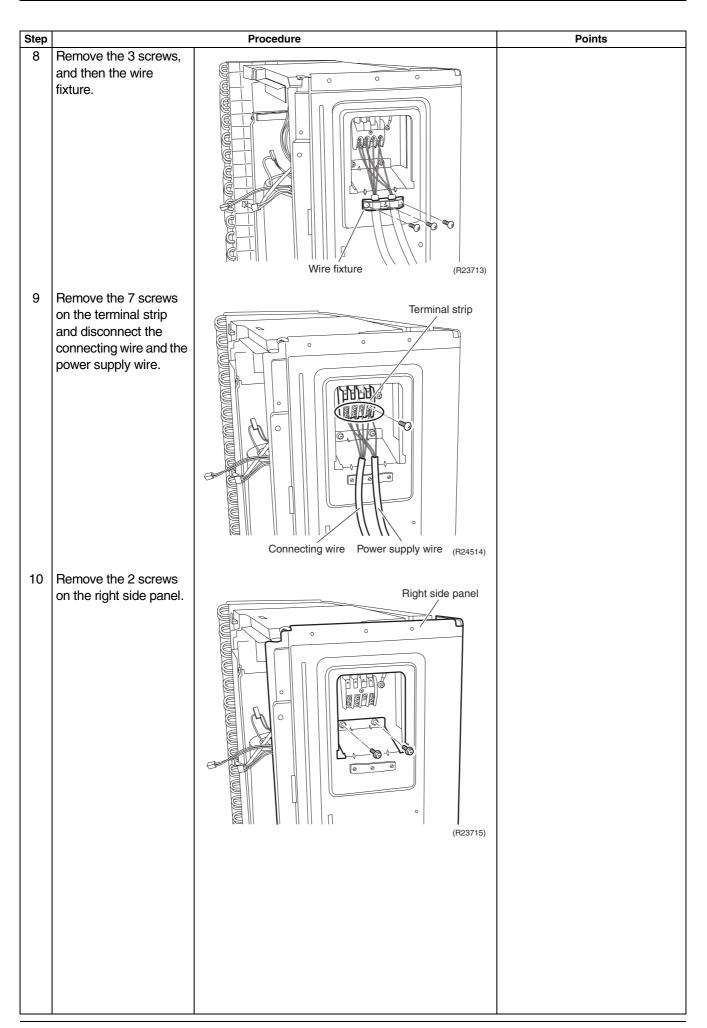
### 3. Electrical Box

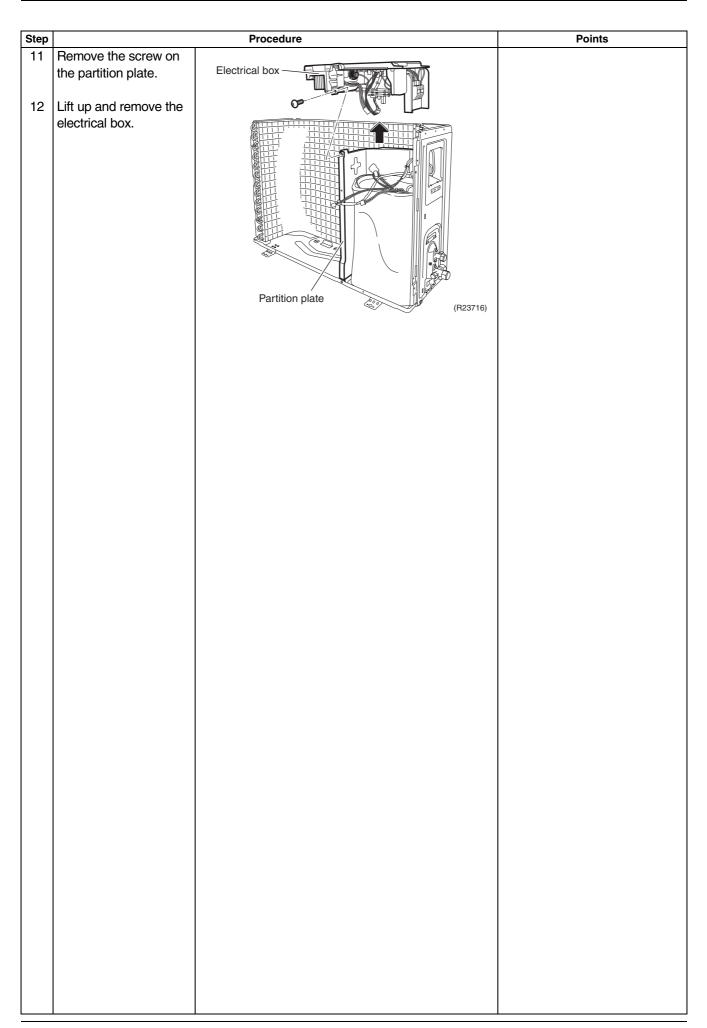
Warning

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



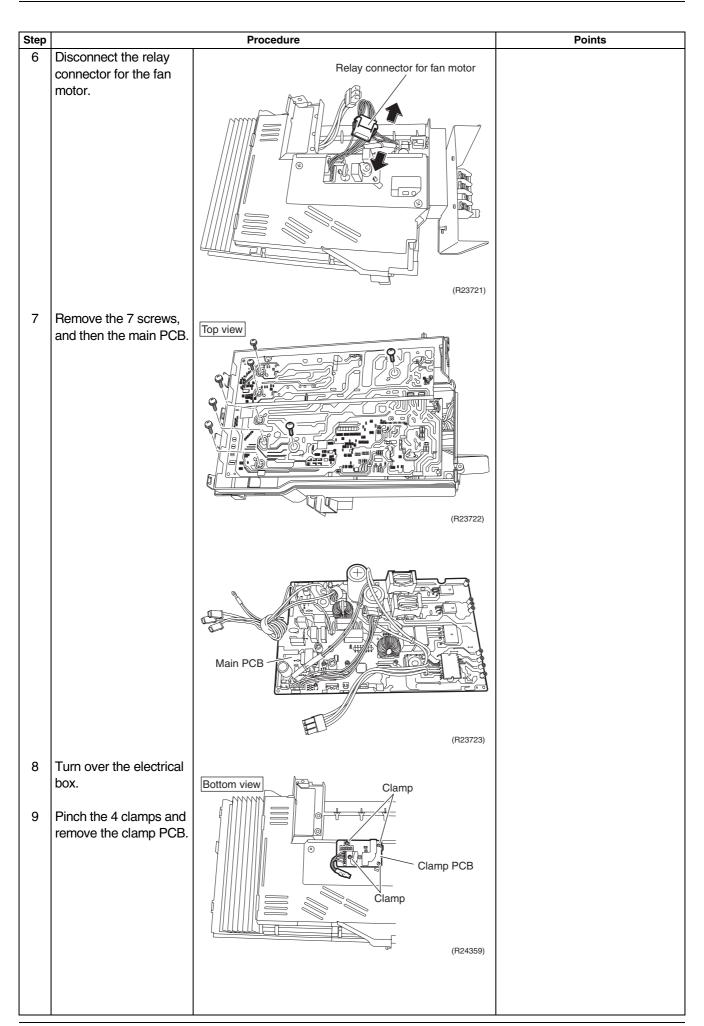






#### 4. PCBs Warning · Be sure to wait for 10 minutes or more after turning off all power supplies before /| disassembling work. Step Procedure Points The locations of the hooks 1 Remove the screw. Top view are indicated with ▼ mark Electrical box cover Hook 2 Unfasten the 2 hooks on the electrical box cover. and remove the electrical box cover. When reassembling, make sure that the 2 hooks are securely fastened. Hook (R23717) 3 Disconnect the 3 ■ When reassembling, put all Earth/ground screw (upper) Hole connectors from the the wires through the hole of terminal strip. the electrical box. 4 Remove the earth/ [HL1] [HN1] [S]: terminal strip ground screw (upper). HN1 (white) $\infty \alpha$ S (red) HL1 (black) Terminal strip HL1 HN1 S (R24358) 5 Cut the 2 clamps. Bottom view Clamp (R23720)

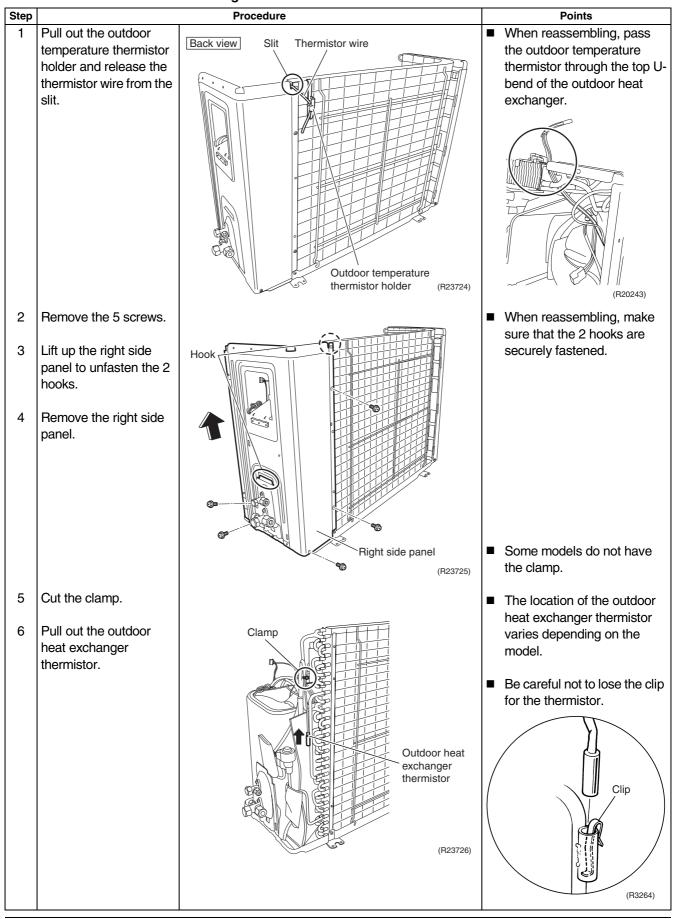
(R23719)

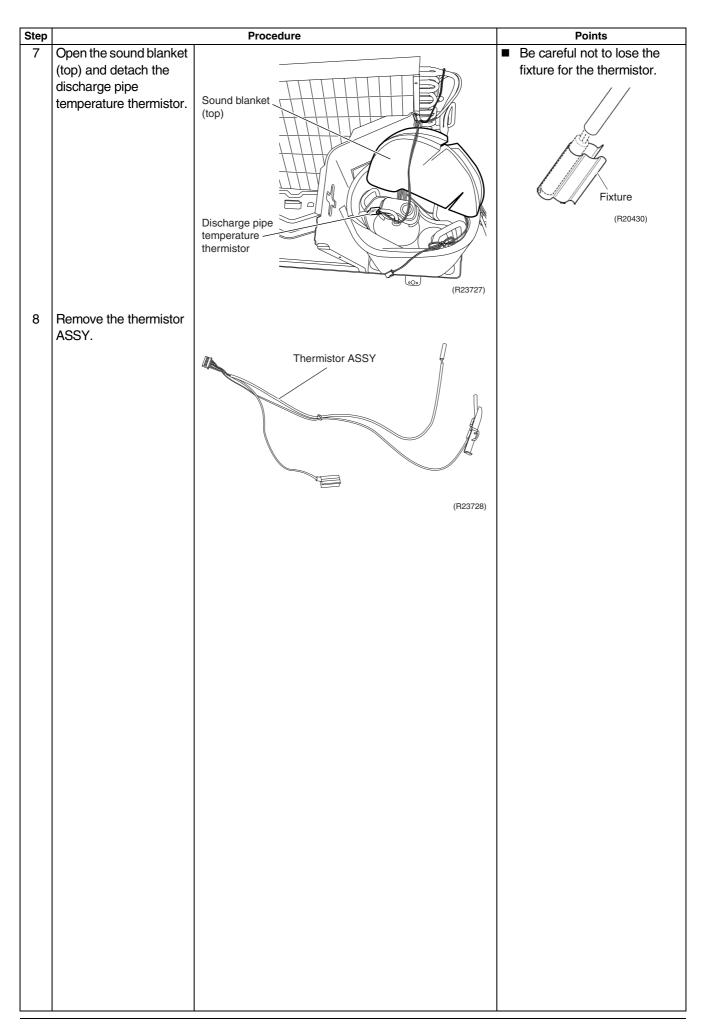


### 5. Thermistor ASSY

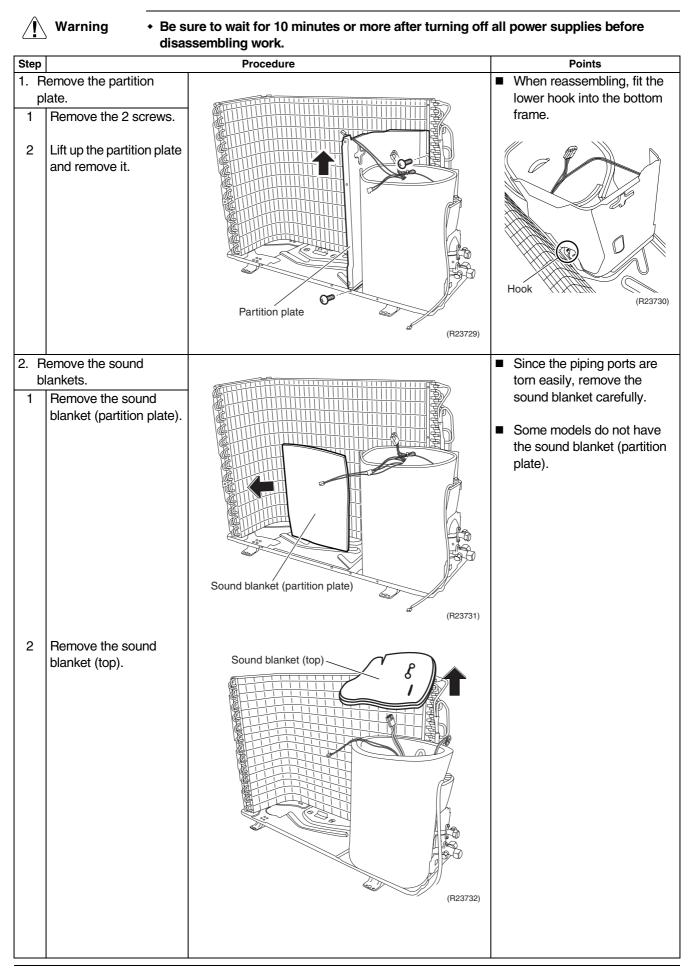
Warning

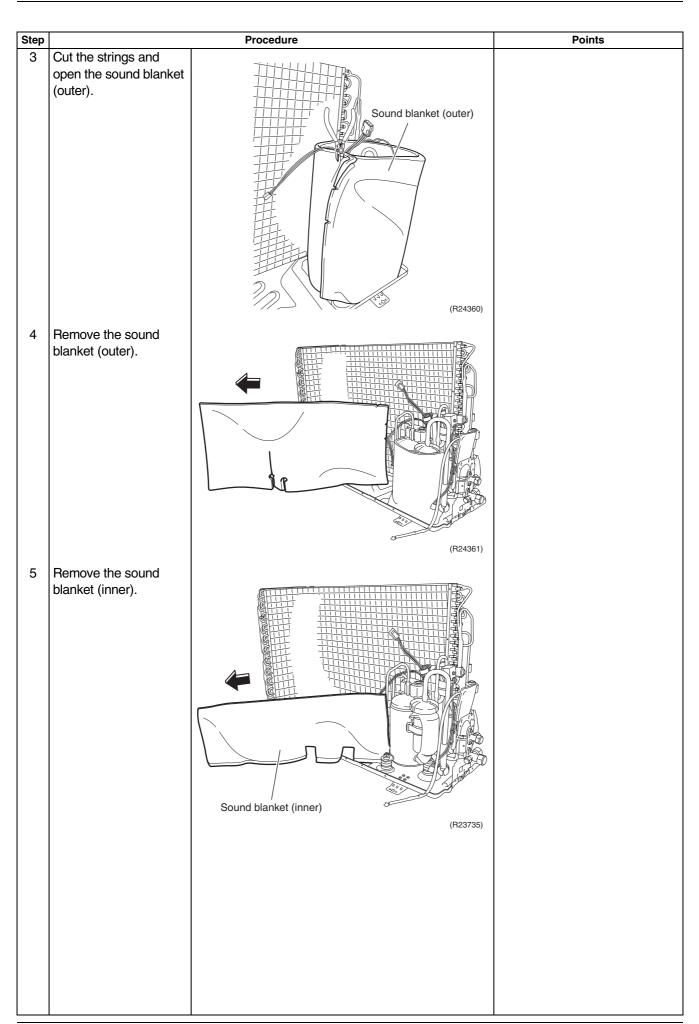
• Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.





### 6. Partition Plate / Sound Blankets





### 7. Electronic Expansion Valve

Warning	<ul> <li>Be sure to wait for 10 minutes or more after turning off disassembling work.</li> </ul>	all power supplies before
	<ul> <li>Be careful not to get yourself burnt with the pipes and the gas brazing machine.</li> </ul>	other parts that are heated by
	<ul> <li>If the refrigerant gas leaks during work, ventilate the re exposed to flames, toxic gas may be generated.)</li> </ul>	oom. (If the refrigerant gas is
	<ul> <li>Since it may happen that the refrigerant oil in the comp cloth so as to extinguish fire immediately.</li> </ul>	ressor catches fire, prepare wet
Caution	<ul> <li>From the viewpoint of global environment protection, or gas in the atmosphere. Make sure to collect all the refr</li> <li>Restore the piping by non-oxidation brazing.</li> </ul>	• •
Note	<ul> <li>Before working, make sure that the refrigerant gas is e</li> <li>Be sure to apply nitrogen replacement when heating u</li> <li>Do not use a metal saw for cutting pipes by all means b the circuit.</li> </ul>	p the brazed part.
	<ul> <li>When withdrawing the pipes, be careful not to pinch th may get deformed.</li> </ul>	em firmly with pliers. The pipes
	<ul> <li>Provide a protective sheet or a steel plate so that the b peripheries.</li> </ul>	razing flame cannot influence
	<ul> <li>Be careful so as not to burn the compressor terminals, heat exchanger fin.</li> </ul>	the name plate, the outdoor
	<ul> <li>In case of difficulty with gas brazing machine</li> </ul>	
	1. Disconnect the brazed part where is easy to disconnect	and restore
	2. Cut pipes on the main unit with a tube cutter in order to	
Step	Procedure	Points
1 Pull out the e	lectronic	

otop		lioodalo	1 61110
1	Pull out the electronic expansion valve coil.	Electronic expansion valve coil	
		(R23736)	

Step		Procedure	Points
2	Remove the terminal		
	cover.	Terminal cover	
3	Remove the protection	Protection bushing	
	bushing.	I THIN THE	
4	Disconnect the compressor lead wires (U, V, W) and the overload protector.	U (red)	
_		Overload protector V (yellow) W (blue) (R23738)	
5	Cut the clamp.		
6	Remove the putties.		
7	Heat up the 2 brazed	Clamp	
	parts and remove the electronic expansion	Electronic expansion	
	valve.	valve	
		Brazed part (R23739)	

#### 8. Four Way Valve Warning · Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work. Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine. If the refrigerant gas leaks during work, ventilate the room. (If the refrigerant gas is exposed to flames, toxic gas may be generated.) / Caution From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas. Cautions for restoration 1. Restore the piping by non-oxidation brazing. 2. It is required to prevent the carbonization of the oil inside the four way valve and the deterioration of the gaskets affected by heat. (Keep below 120°C (248°F).) For the sake of this, wrap the four way valve with wet cloth and provide water so that the cloth does not dry. Note • Before working, make sure that the refrigerant gas is empty in the circuit. Be sure to apply nitrogen replacement when heating up the brazed part. · Do not use a metal saw for cutting pipes by all means because the sawdust comes into the circuit. · When withdrawing the pipes, be careful not to pinch them firmly with pliers. The pipes may get deformed. Provide a protective sheet or a steel plate so that the brazing flame cannot influence peripheries. Be careful so as not to burn the compressor terminals, the name plate, the outdoor heat exchanger fin. · In case of difficulty with gas brazing machine 1. Disconnect the brazed part where is easy to disconnect and restore. 2. Cut pipes on the main unit with a tube cutter in order to make it easy to disconnect. Step Procedure Points 1 Remove the screw, and Cooling only models do not then the four way valve have four way valve. coil. Four way valve coil (R23740)

Step		Procedure	Points
2	Remove the terminal		
	cover.	Image: Constrained cons	
3	Remove the protection bushing.	Protection bushing	
4	Disconnect the compressor lead wires (U, V, W) and the overload protector.	Overload protector V (yellow) W (blue) (R23738)	
5	Cut the clamp.	Clamp Four way valve Putty	
6	Remove the putty.		
7	Heat up the 2 brazed parts and remove the four way valve.	Brazed part	

#### 9. Compressor Warning · Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work. Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine. If the refrigerant gas leaks during work, ventilate the room. (If the refrigerant gas is exposed to flames, toxic gas may be generated.) Since it may happen that the refrigerant oil in the compressor catches fire, prepare wet cloth so as to extinguish fire immediately. ✓I Caution From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas. • Restore the piping by non-oxidation brazing. Note Before working, make sure that the refrigerant gas is empty in the circuit. • Be sure to apply nitrogen replacement when heating up the brazed part. Do not use a metal saw for cutting pipes by all means because the sawdust comes into the circuit. When withdrawing the pipes, be careful not to pinch them firmly with pliers. The pipes may get deformed. Provide a protective sheet or a steel plate so that the brazing flame cannot influence peripheries. Be careful so as not to burn the compressor terminals, the name plate, the outdoor heat exchanger fin. In case of difficulty with gas brazing machine 1. Disconnect the brazed part where is easy to disconnect and restore.

2. Cut pipes on the main unit with a tube cutter in order to make it easy to disconnect.

Step		Procedure	Points
1	Remove the terminal cover.	(R23741)	

Step		Procedure	Points
2	Remove the protection		Fonts
2	bushing.	Protection bushing	
3	Disconnect the compressor lead wires (U, V, W) and the overload protector.	U (red) Overload protector	
4	Cut the clamp.	V (yellow) W (blue) (R23738)	
		Brazed part of the Clamp Brazed part of the discharge side pipe \ suction side pipe	
5	Remove the putties.		
6	Heat up the brazed part of the discharge side pipe and disconnect it.		
7	Heat up the brazed part of the suction side pipe and disconnect it.	Putty	
8	Remove the 3 nuts of the compressor.	Compressor	
9	Lift up the compressor and remove it.	(R23743)	

## **Revision History**

Month / Year	Version	Revised contents
09 / 2016	Si001658E	First edition
12 / 2016	Si001658EA	Model addition: RKC18/24/28QV2S, RKC50/60/71QVM, RKC50/60/71QVM4, RKC50/60/71QVMV, RXF50/60QVMA



- 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

Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
 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/products/ac/ ©All rights reserved