

## 2.5/3.5 kW Class





Inverter



Pair Type



# Service Manual Removal Procedure

## **Outdoor Unit**

**Applicable Models** 

●Heat Pump RXN25KEV1B RXN35KEV1B

RXN425KC RXN435KC

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6.	Removal of Compressor	



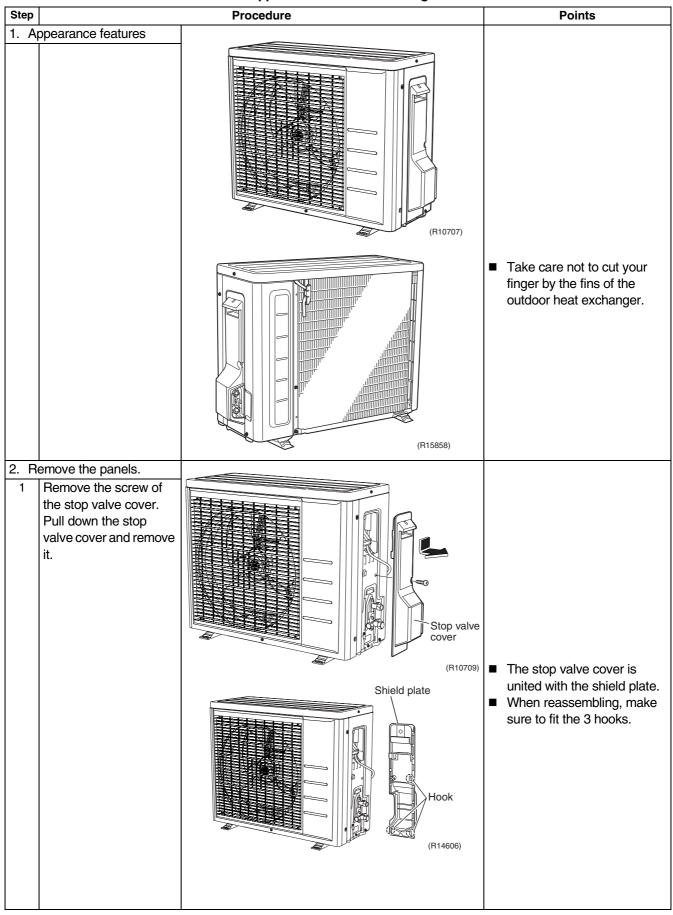
Note: • The illustrations may be slightly different depending on the model.

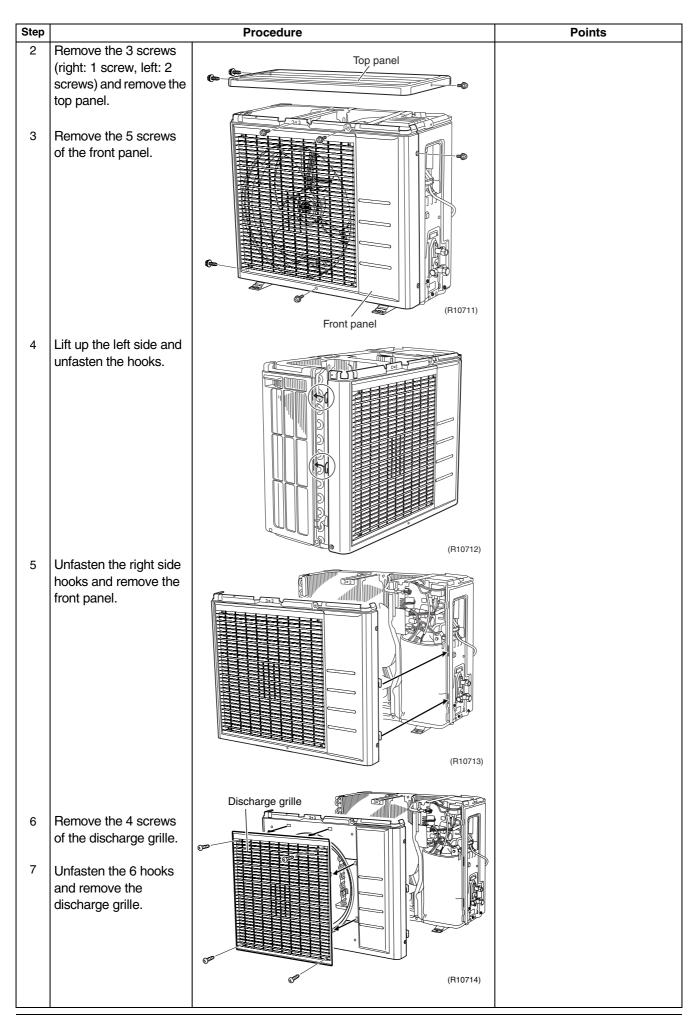
Removal of Outer Panels Si001161

### 1. Removal of Outer Panels

**Procedure** 

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

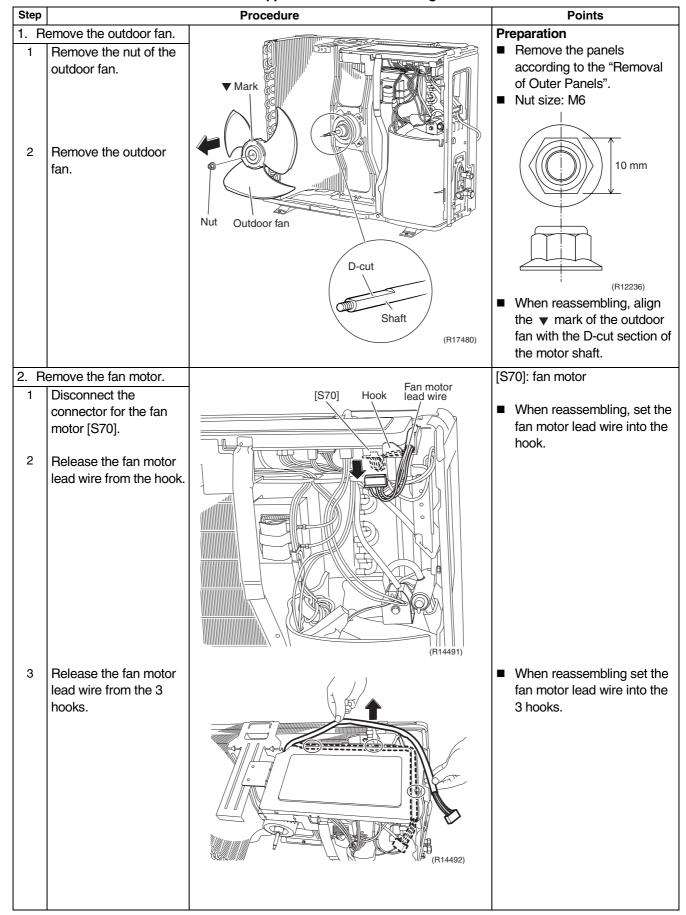


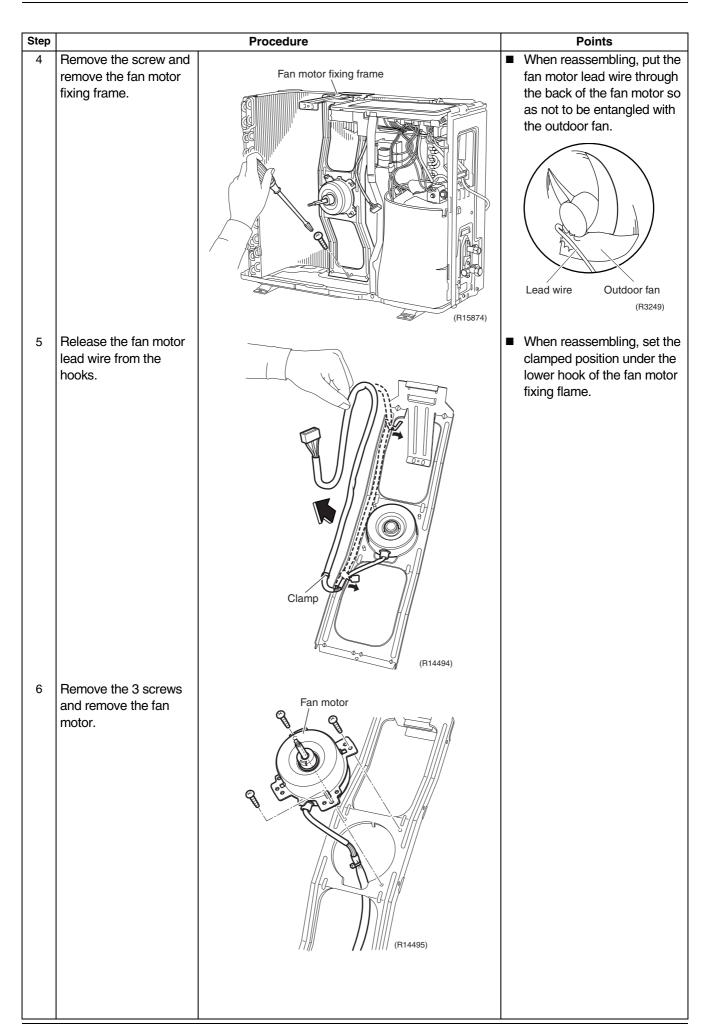


### 2. Removal of Outdoor Fan / Fan Motor

#### **Procedure**

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



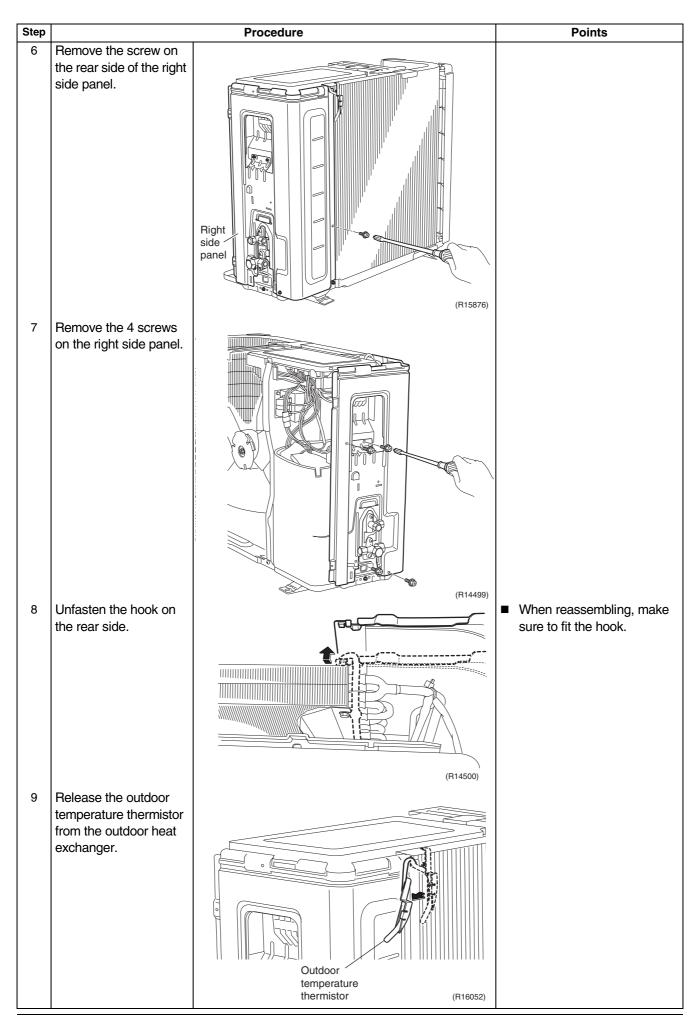


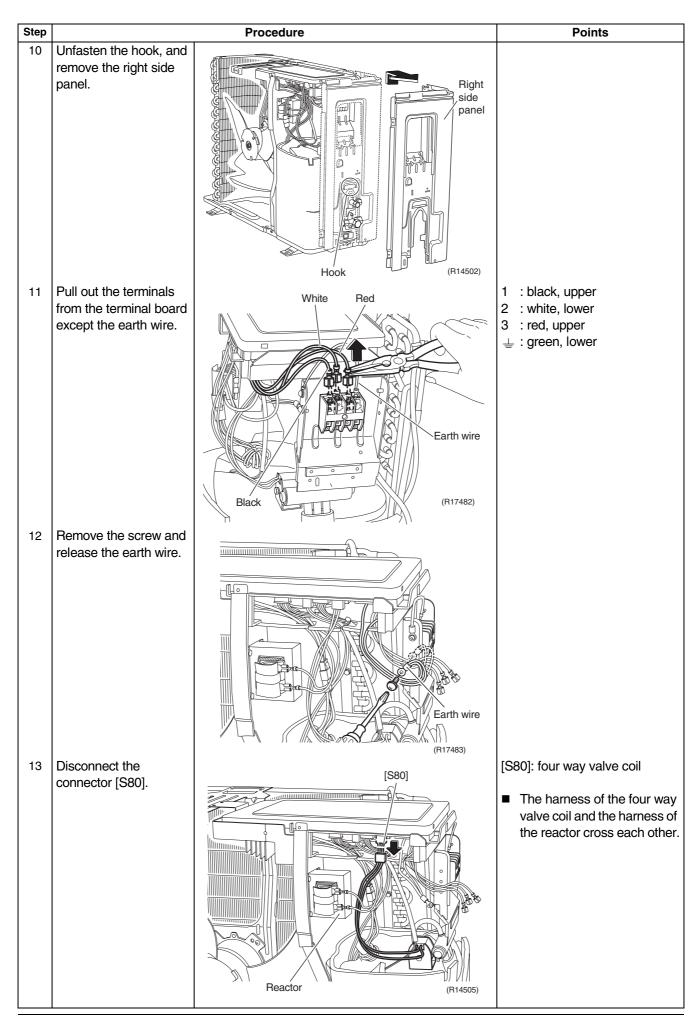
### 3. Removal of Electrical Box / PCB

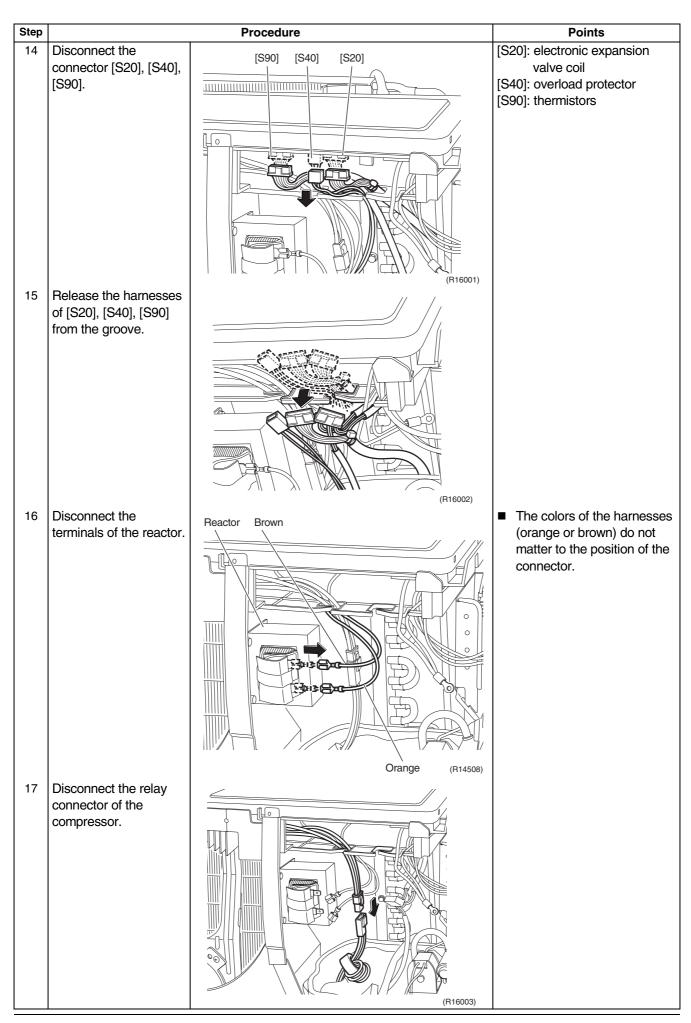
#### **Procedure**

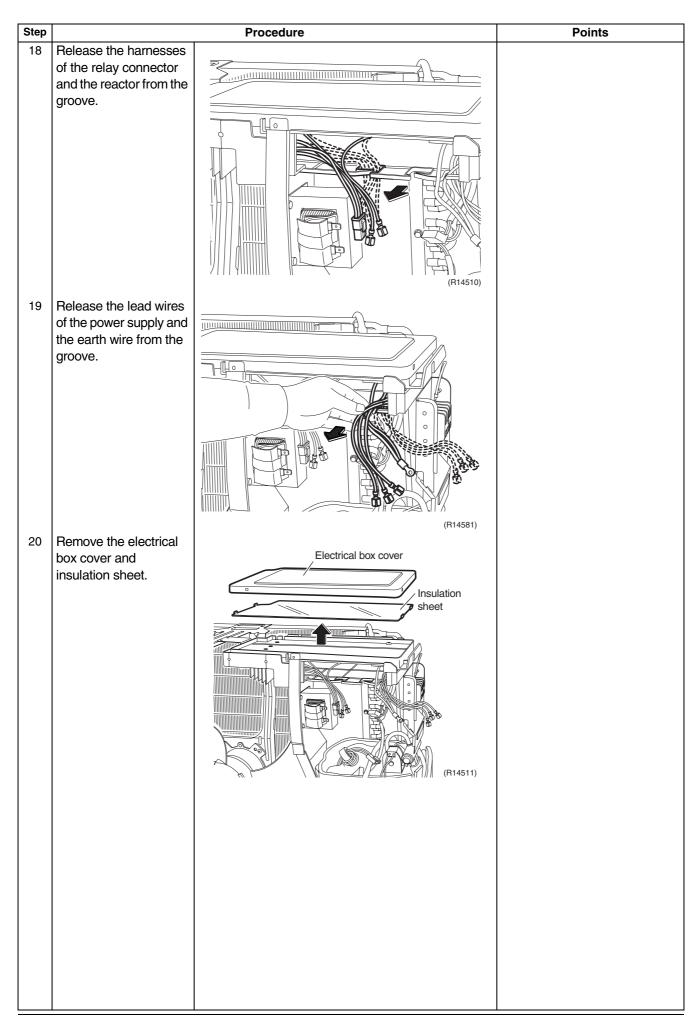
Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

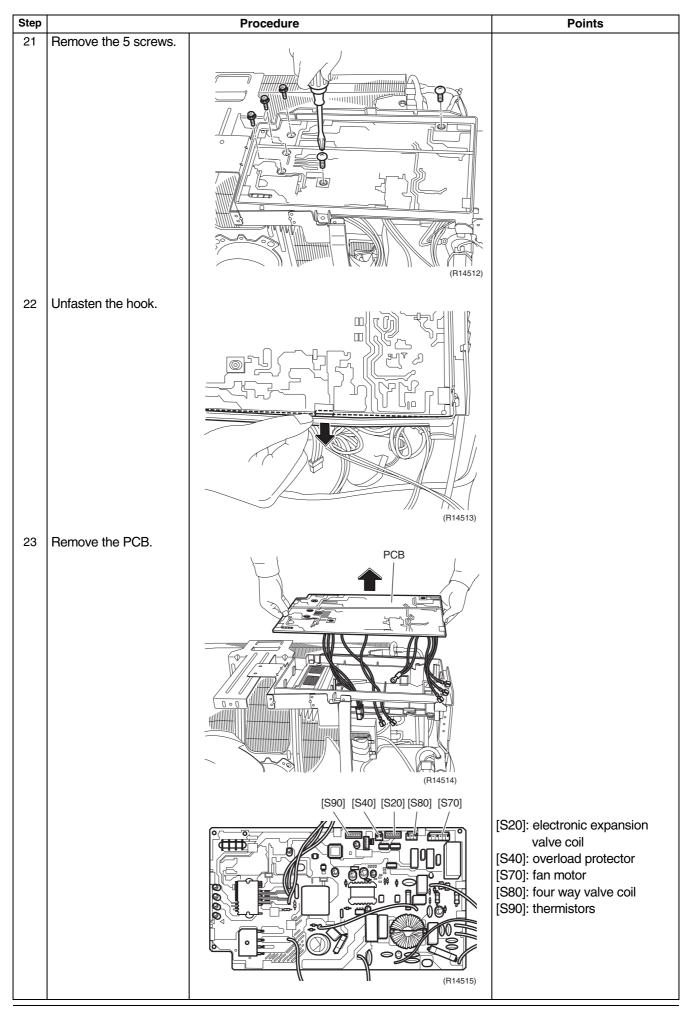
Step **Procedure Points** 1. Remove the PCB. **Preparation** ■ Remove the panels Remove the screws according to the "Removal and release the of Outer Panels". connecting wire. ■ Some models have another wiring for outdoor powerreceiving system. (R17481) Remove the 3 screws 2 and remove the wire clamp. Wire clamp (R15875) Disconnect the [S70]: fan motor Fan motor connector for the fan [S70] Hook motor [S70]. Release the fan motor 4 lead wire from the hook. 5 Release the fan motor lead wire from the 3 hooks.

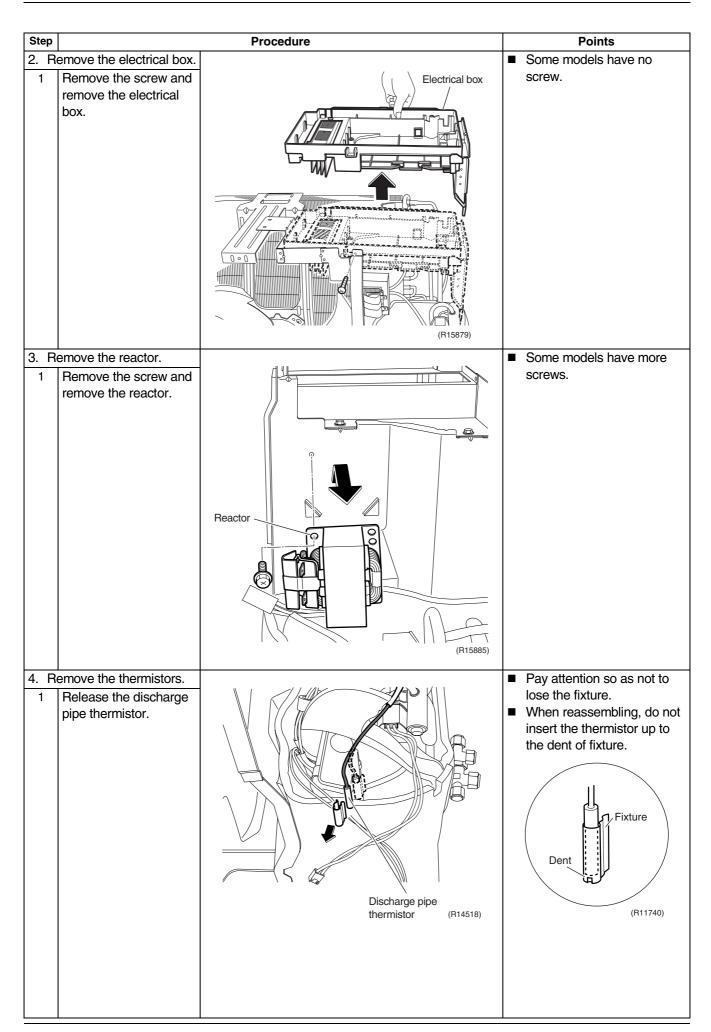


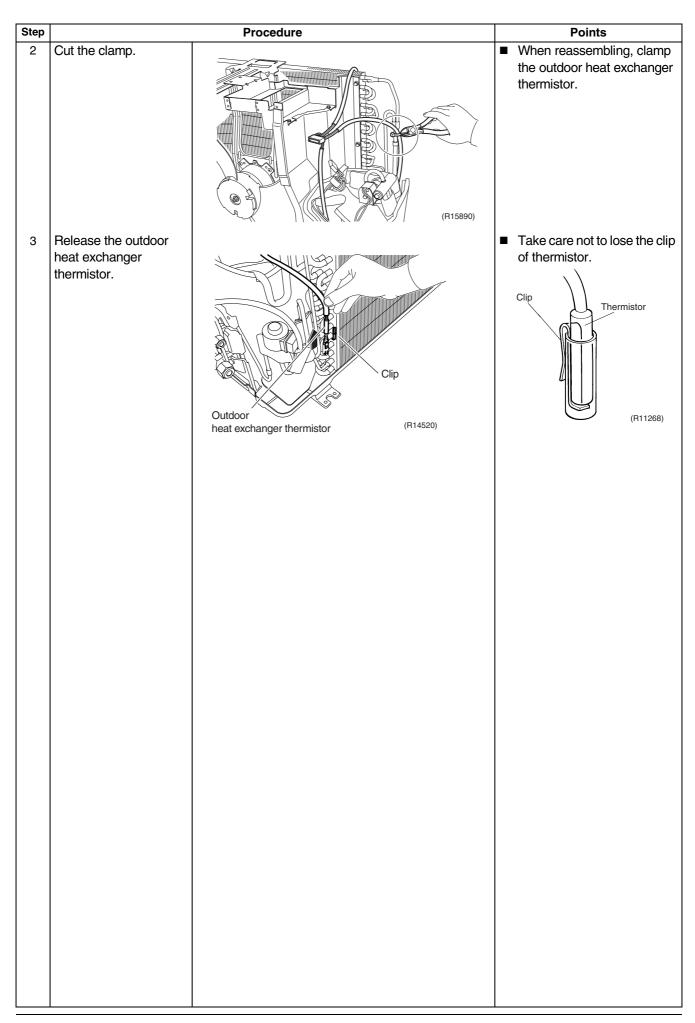










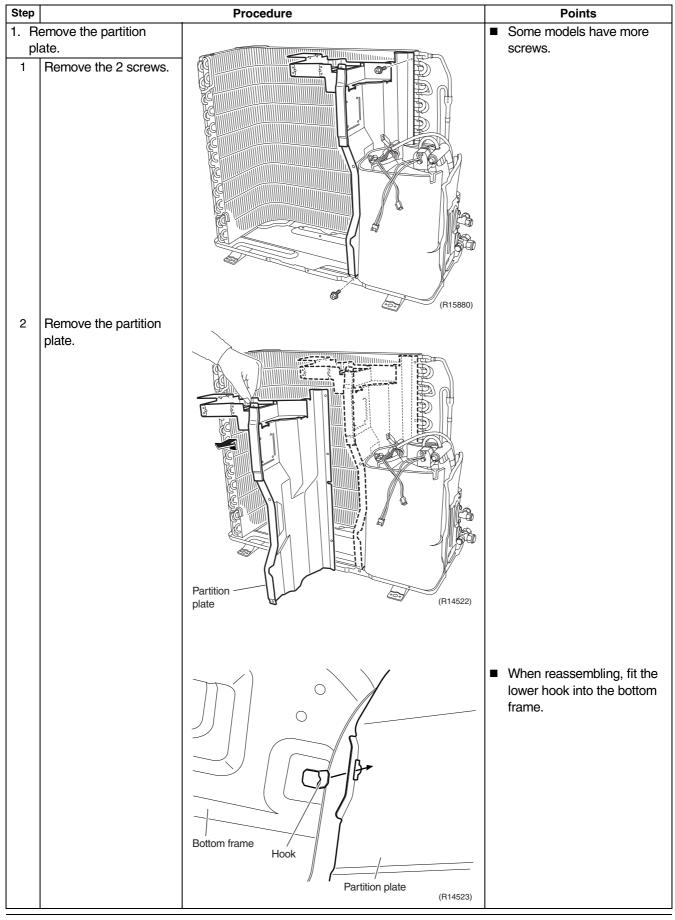


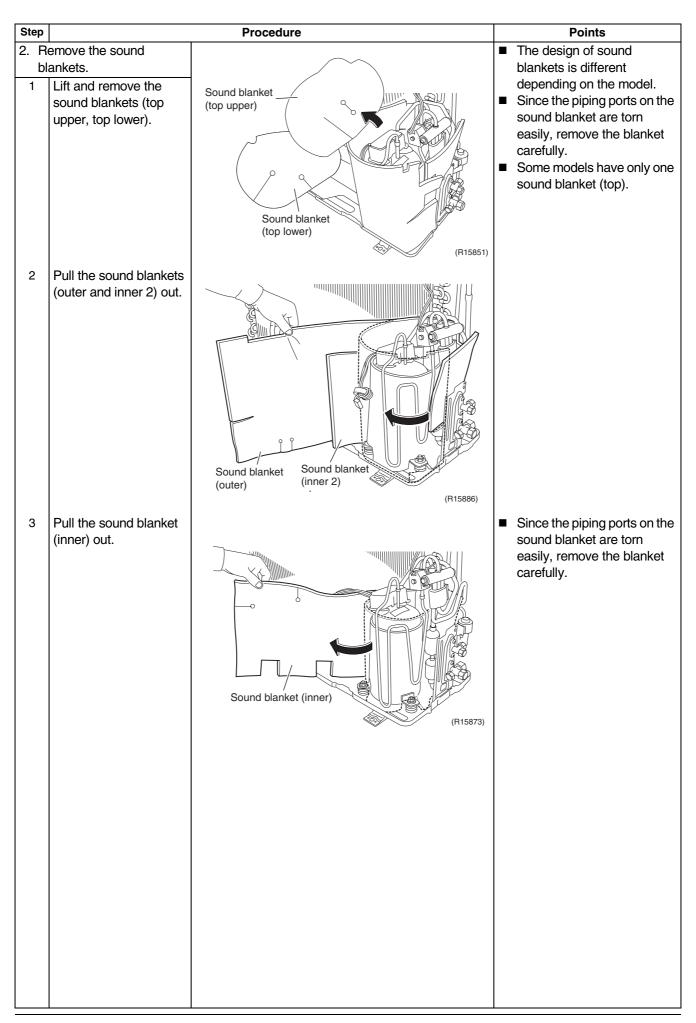
Removal of Sound Blankets Si001161

### 4. Removal of Sound Blankets

**Procedure** 

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

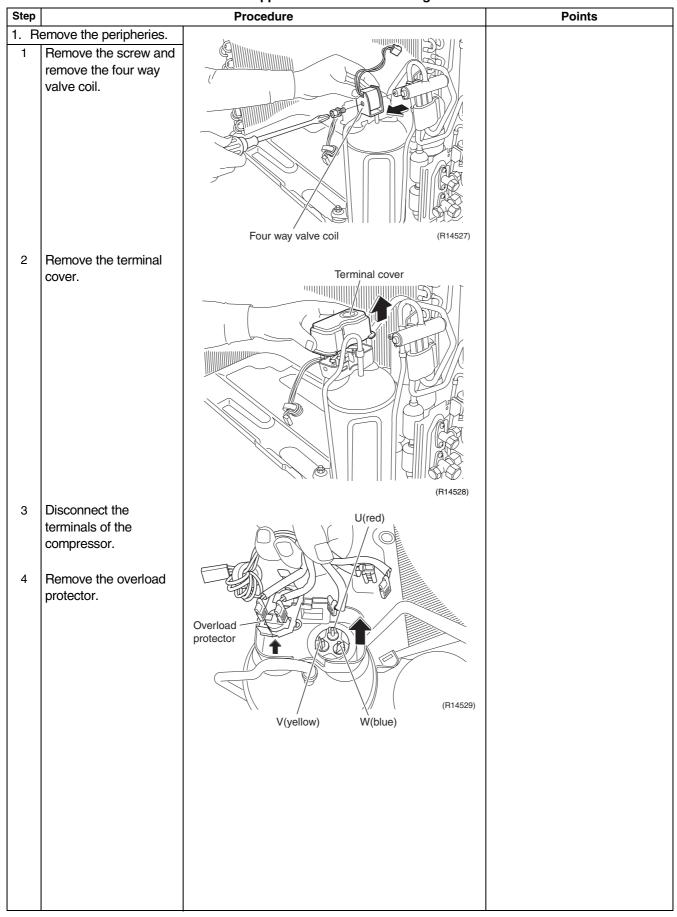


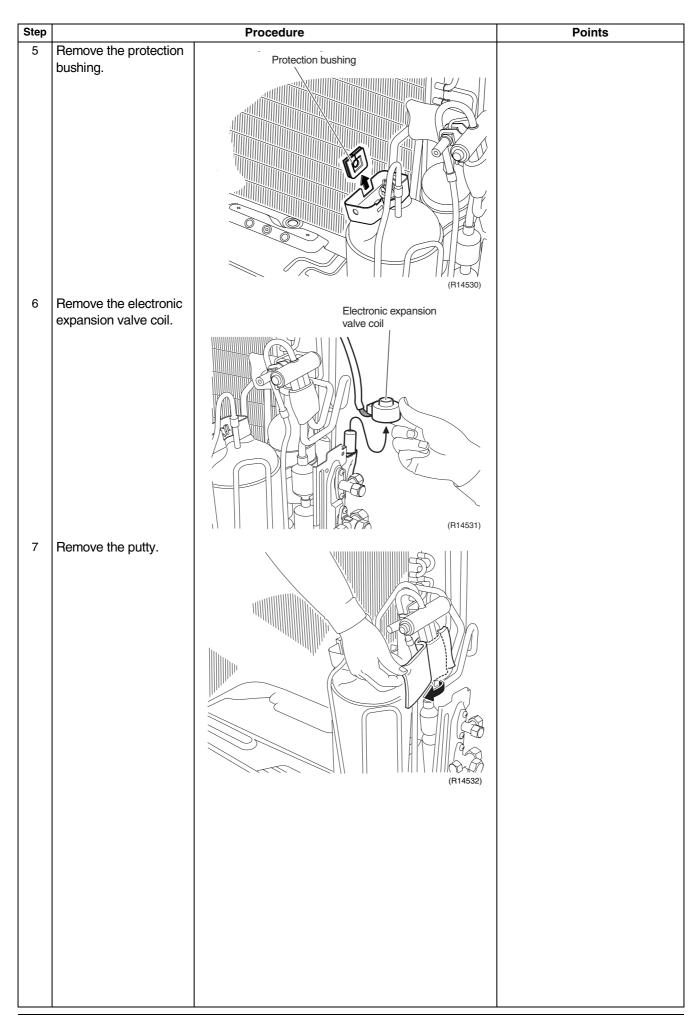


## 5. Removal of Four Way Valve

**Procedure** 

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





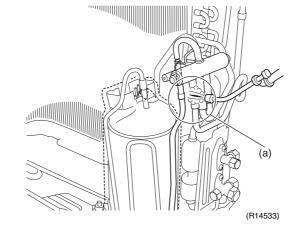
#### Step

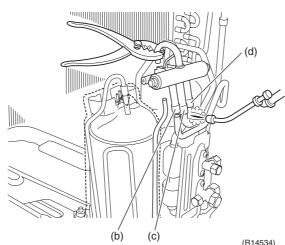
- Before working, make sure that the refrigerant gas is empty in the circuit.
- Be sure to apply nitrogen replacement when heating up the brazed part.
- 2. Remove the four way valve.
- Heat up the brazed point (a) and withdraw the piping with pliers.
- 2 Heat up the 3 brazed points of the four way valve. Disconnect the point (b) first.
- Disconnect the points (c) and (d).

#### Note:

- 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.

#### Procedure





#### **Points**

Warning
Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.

Warning
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**

- Restore the piping by nonoxidation 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.) For the sake of this, wrap the four way valve with wet cloth and provide water so that the cloth does not dry.

## In case of difficulty with gas brazing machine

- Disconnect the brazed part where is easy to disconnect and restore.
- Cut pipes on the main unit with a tube cutter in order to make it easy to disconnect.

**Removal of Compressor** 

### 6. Removal of Compressor

#### **Procedure**

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

Step			
1	Remove the four way		
	valve, the terminal		
	cover and disconnect		
	the terminals of the		
	compressor so as not to		
	burn them.		
2	Remove the 3 nuts of		

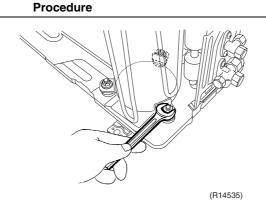
 Before working, make sure that the refrigerant gas is empty in the circuit.

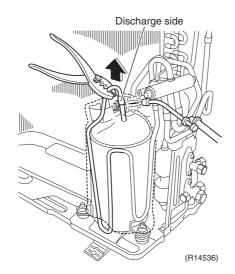
the compressor.

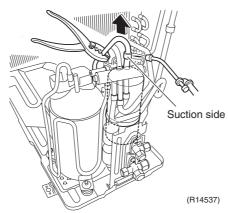
- Be sure to apply nitrogen replacement when heating up the brazed part.
  - 3 Heat up the brazed part of the discharge side and disconnect.
- 4 Heat up the brazed part of the suction side and disconnect.
- 5 Lift the compressor up and remove it.

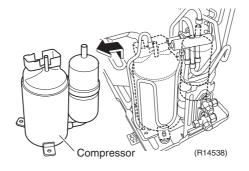
#### Note:

- 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 heat exchanger fin.









#### Points

Warning
Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.

Warning
If the refrigerant gas leaks
during work, ventilate the
room. (If the refrigerant gas is
exposed to flames, toxic gas
may be generated.)

Warning
Since it may happen that the refrigerant oil in the compressor catches fire, prepare wet cloth so as to extinguish fire immediately.

Caution
From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the

#### **Cautions for restoration**

refrigerant gas.

- 1. Restore the piping by non-oxidation brazing.
- 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.) For the sake of this, wrap the four way valve with wet cloth and provide water so that the cloth does not dry.

## In case of difficulty with gas brazing machine

- Disconnect the brazed part where is easy to disconnect and restore.
- Cut pipes on the main unit with a tube cutter in order to make it easy to disconnect.

# **Revision History**

Month / Year	Version	Revised contents
08/2012	Si001161	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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