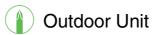




#### SERVICE MANUAL

# 2.0/2.5/3.5/4.2 kW Class 9000/12000/15000 Btu/h Class









## Service Manual Removal Procedure

## **Outdoor Unit**

Cooling Only

RKJ09NV1S RKJ12NV1S

RKJ25NVM RKJ35NVM

RKJ25NVM4 RKJ35NVM4

RKJ25NVMG RKJ35NVMG

RKJ25NVMV RKJ35NVMV

RKM09NV2S RKM12NV2S RKM15NV2S

RKM25NVMG RKM35NVMG RKM42NVMG

RKM25PVMG RKM35PVMG RKM42PVMG

RKV25NVM RKV35NVM

RKV25NVM4 RKV35NVM4

RKV25NVMV RKV35NVMV Heat Pump

ARXS20G4V1B ARXS25G4V1B ARXS35G4V1B

RXG25K3V1B RXG35K3V1B

RXG20L2V1B RXG25L2V1B RXG35L2V1B

RXS20K3V1B RXS25K3V1B RXS35K2V1B

RXS35L2V1B

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	Compressor	
	·	



- The illustrations may be slightly different depending on the model.
  The illustrations are for heat pump models as representative.

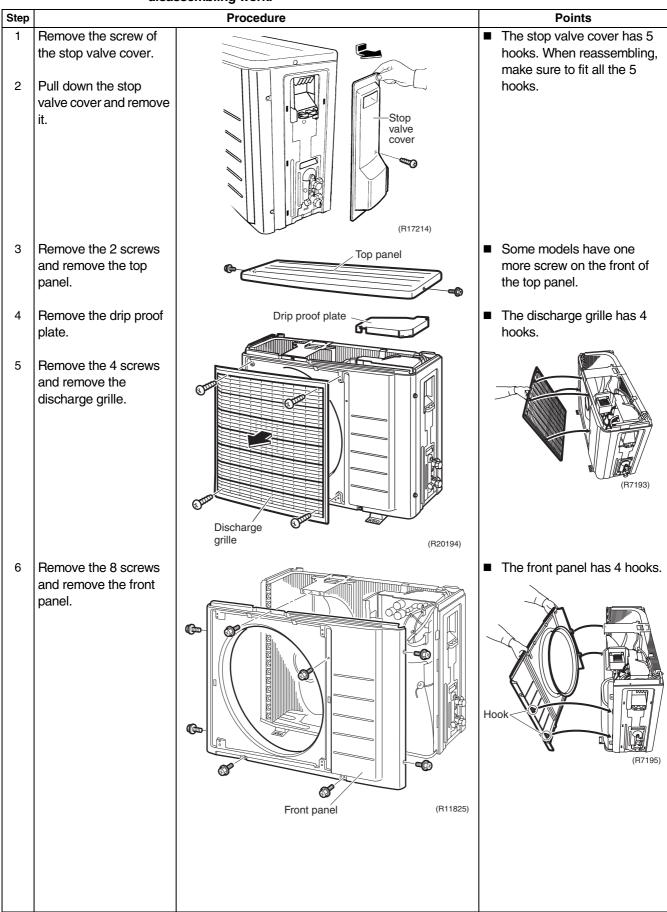
Outer Panels Si001273EC

#### 1. Outer Panels

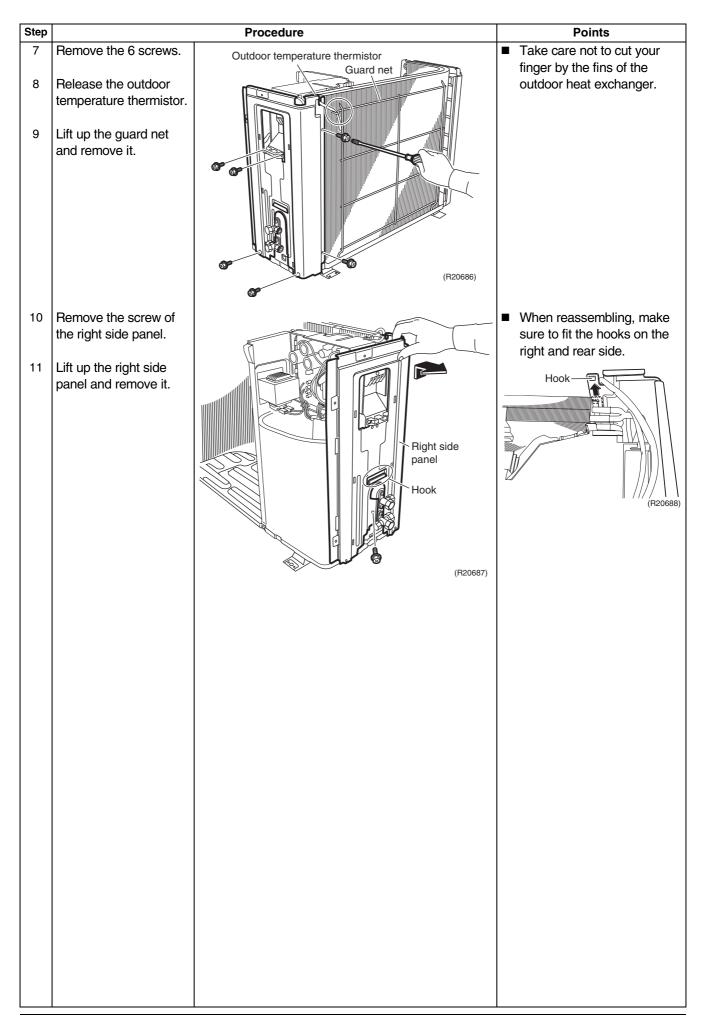


Warning

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



Si001273EC Outer Panels



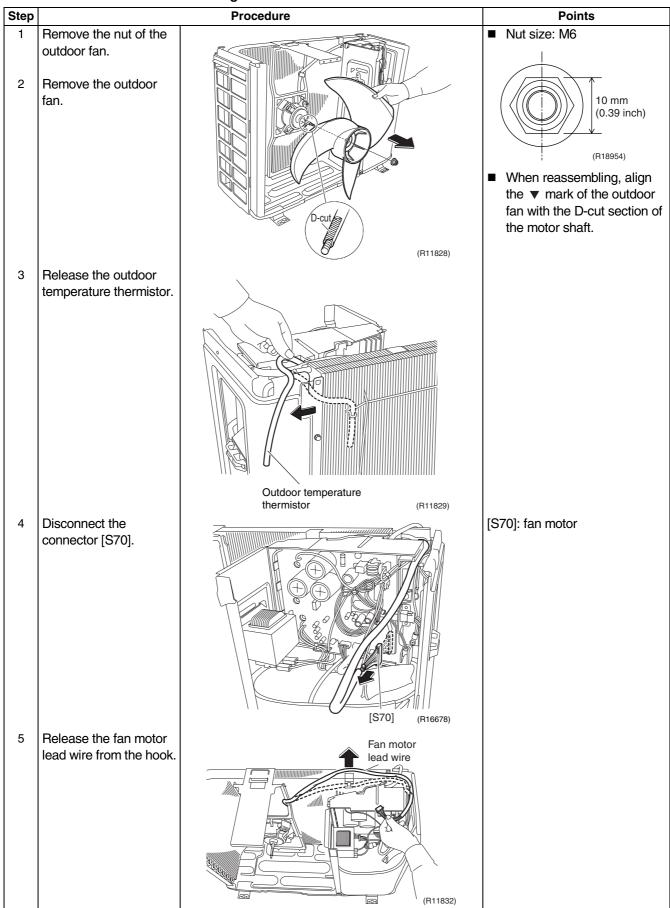
Fan Motor Si001273EC

## 2. Fan Motor

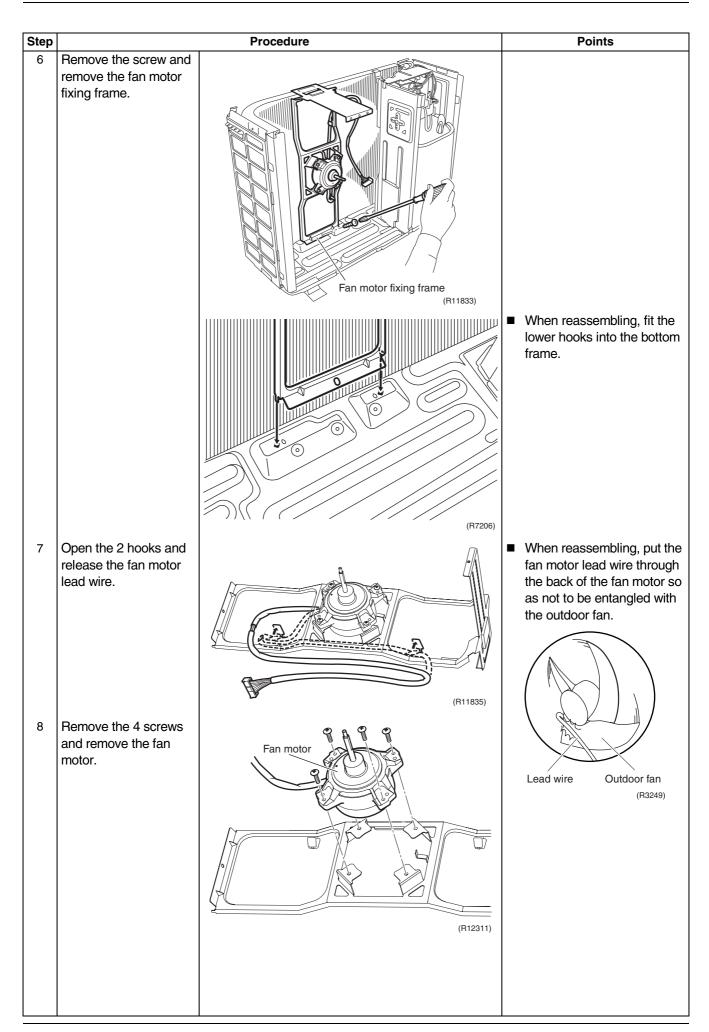


Warning

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



Si001273EC Fan Motor



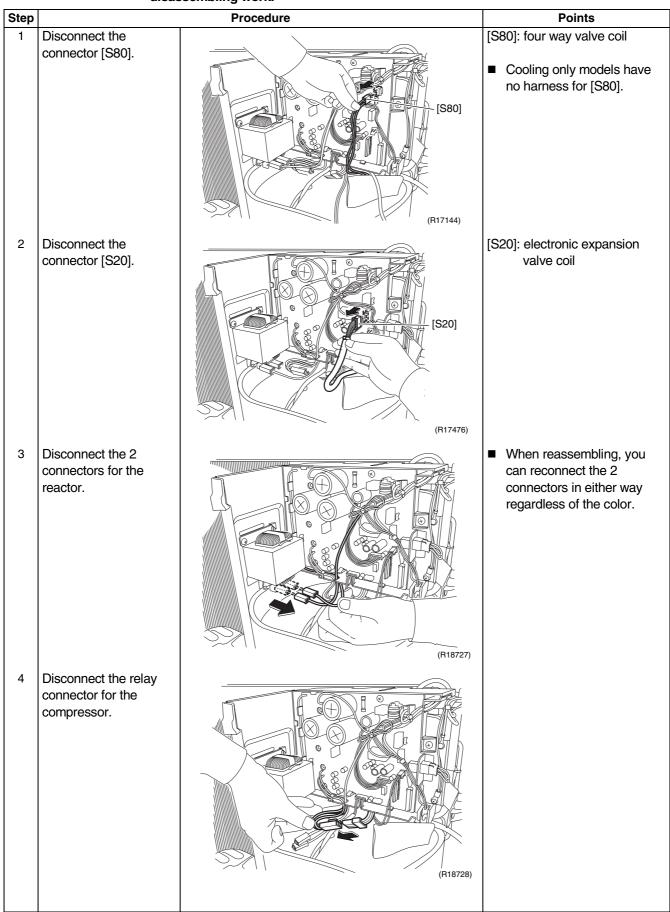
Electrical Box Si001273EC

### 3. Electrical Box

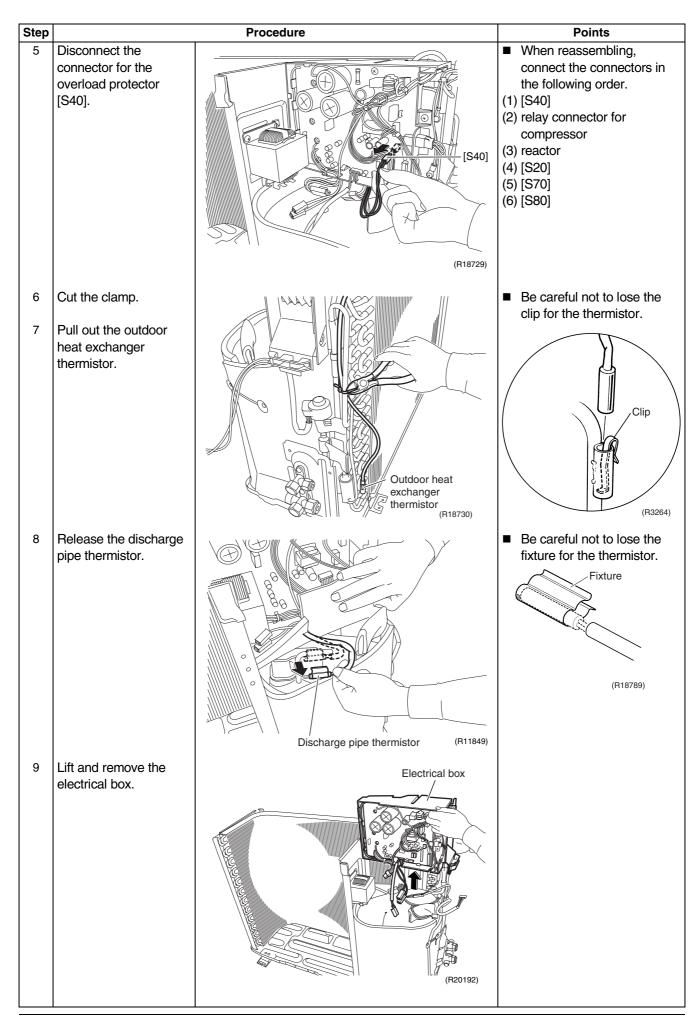


Warning

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



Si001273EC Electrical Box



PCBs Si001273EC

#### 4. PCBs

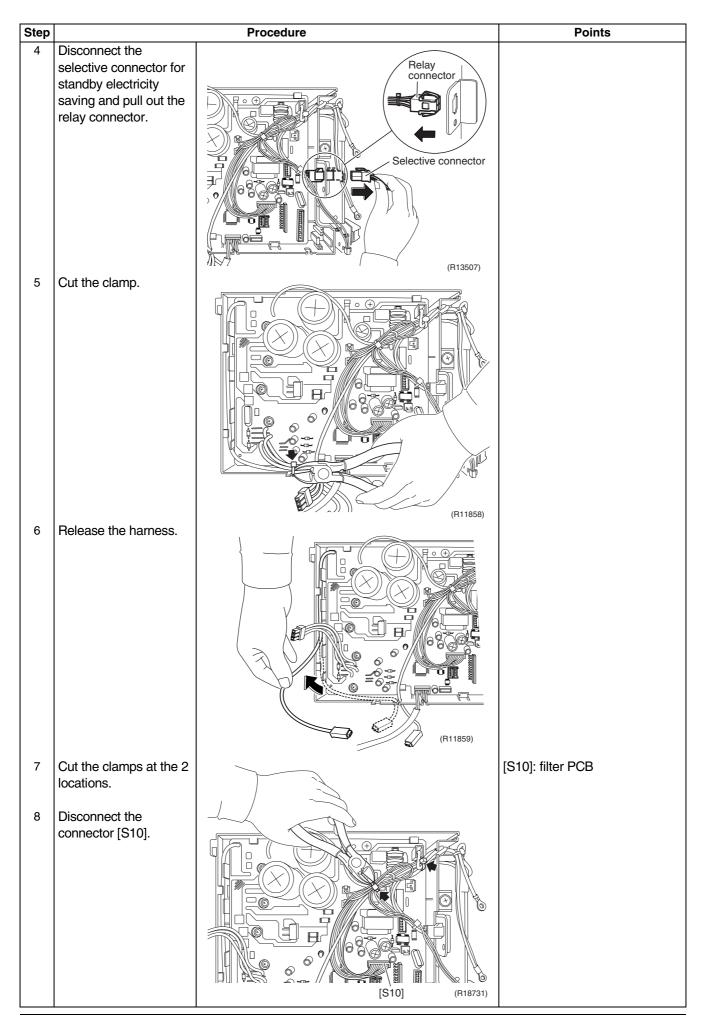


Warning

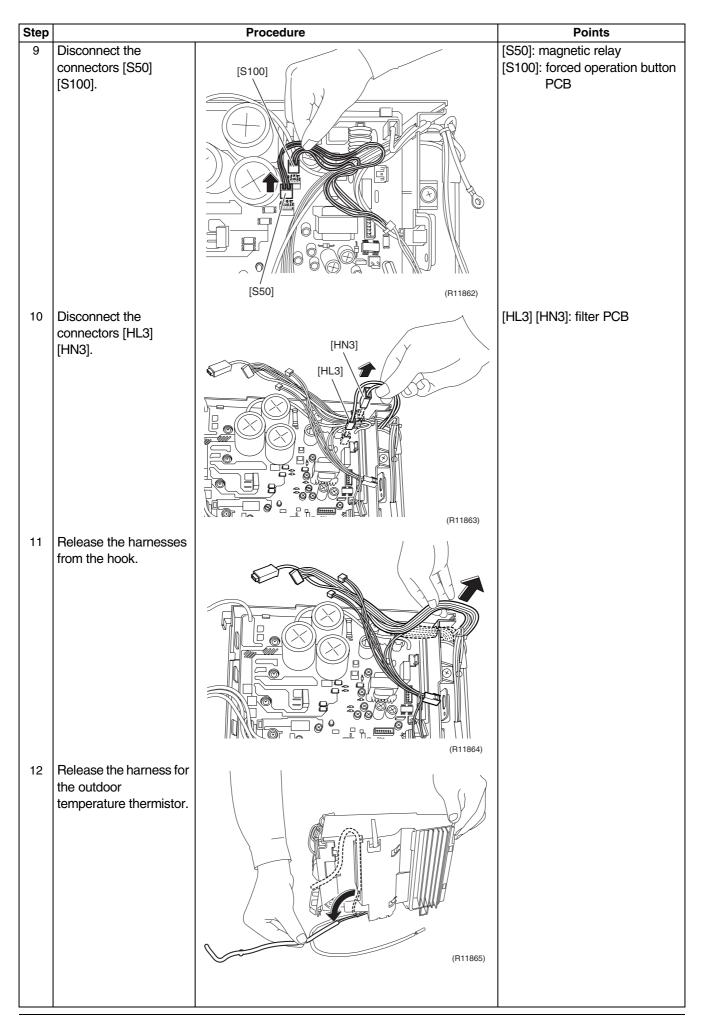
• Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step Procedure **Points** 1. Remove the main PCB You can remove the main and the forced operation PCB without removing the button PCB. electrical box by disconnecting the lead wires Remove the screw on on the terminal board. the terminal board. Terminal board (R11854) 2 Release the 2 earth / ground wires. Earth / ground wire (R20181) Pull out the forced ■ Be careful of a sharp protrusion at the back of the operation button PCB. Disconnect the forced operation button connector [S110] to PCB. remove the forced [S110]: main PCB operation button PCB. Forced operation button PCB (R13742)

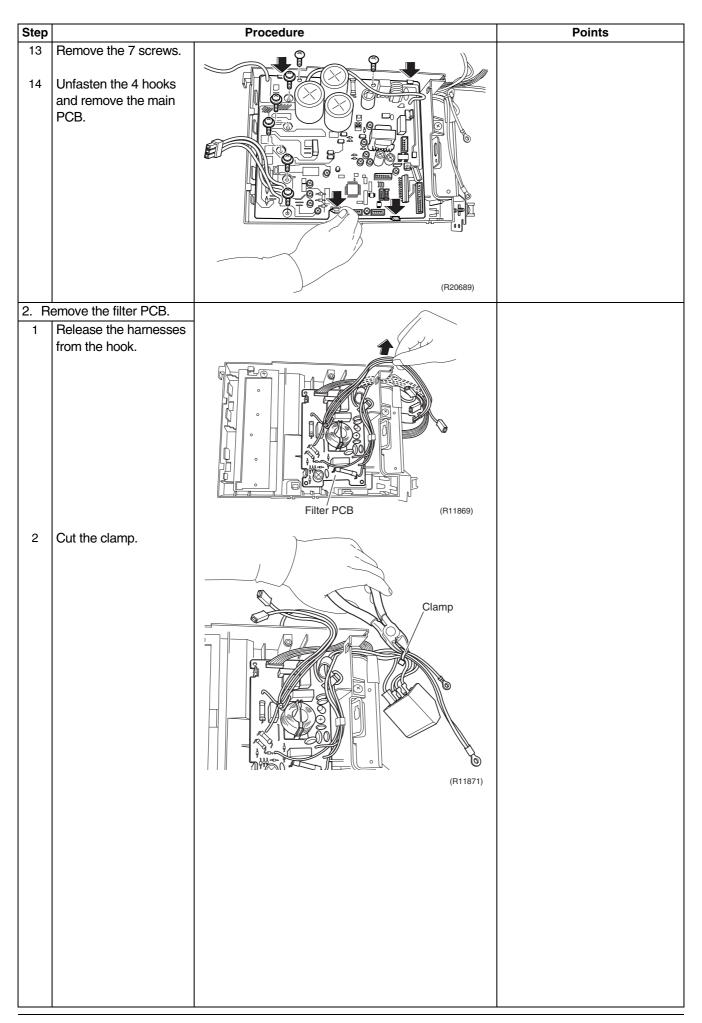
Si001273EC PCBs



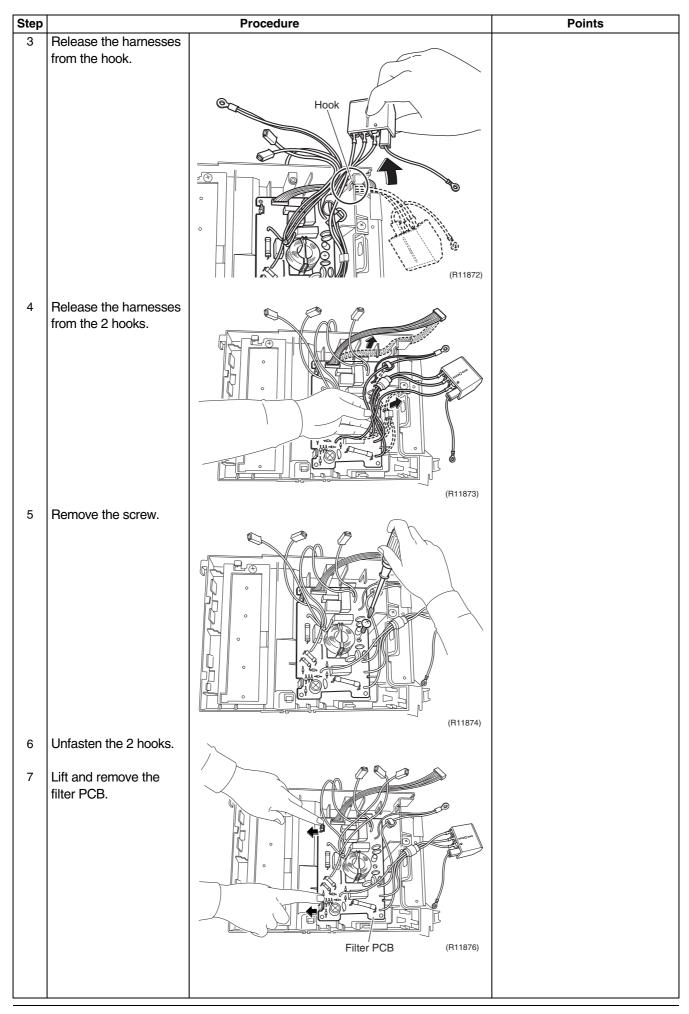
PCBs Si001273EC



Si001273EC PCBs



PCBs Si001273EC



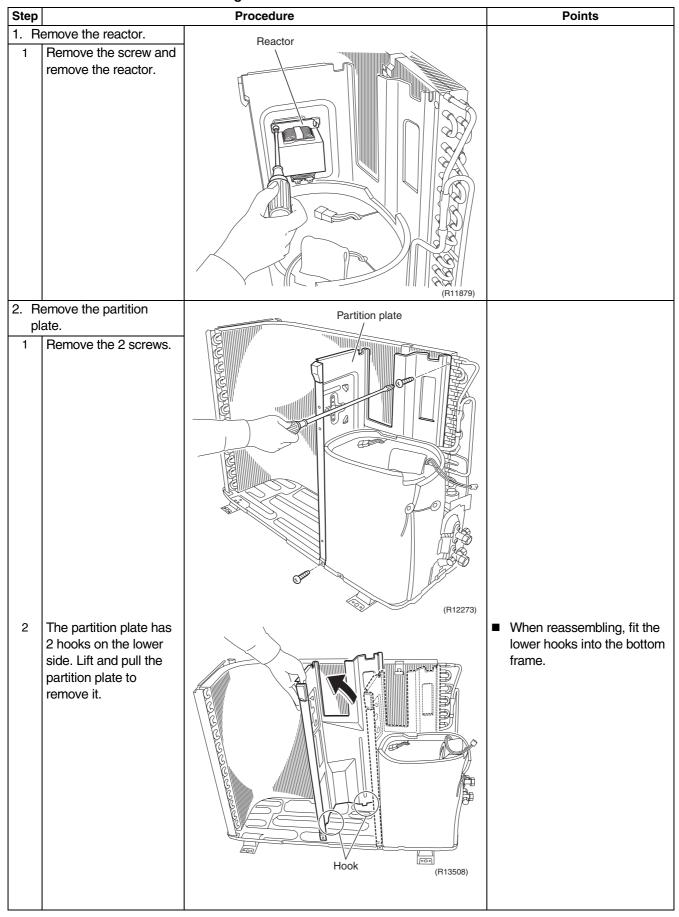
Si001273EC Reactor / Partition Plate

### 5. Reactor / Partition Plate



Warning

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



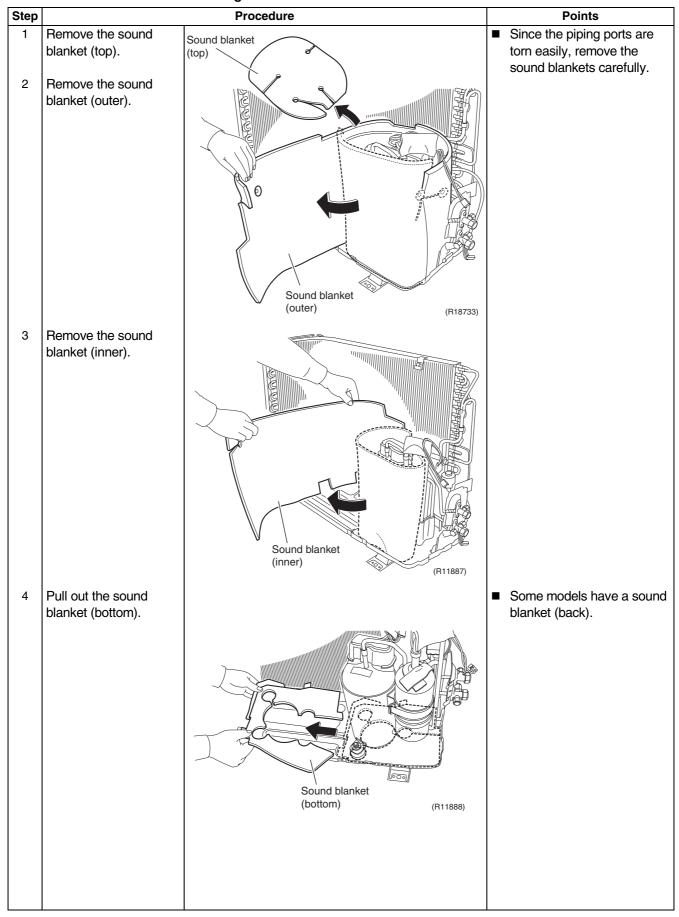
Sound Blankets Si001273EC

### 6. Sound Blankets



Warning

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



Si001273EC Four Way Valve

### 7. Four Way Valve



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

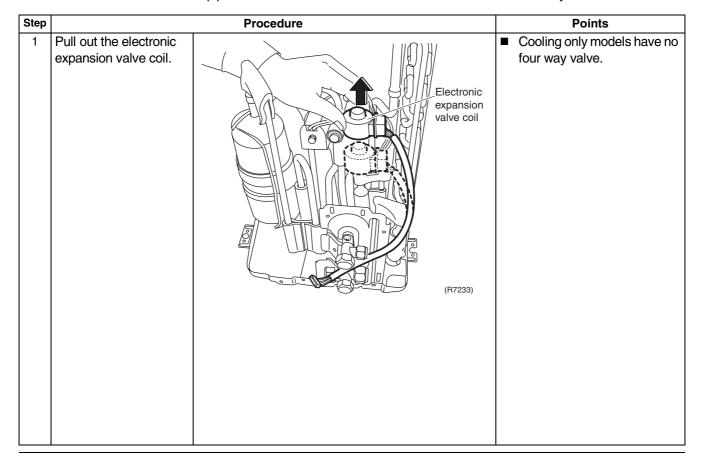
- Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.
- If the refrigerant gas leaks during work, ventilate the room. (If the refrigerant gas is exposed to flames, toxic gas may be generated.)



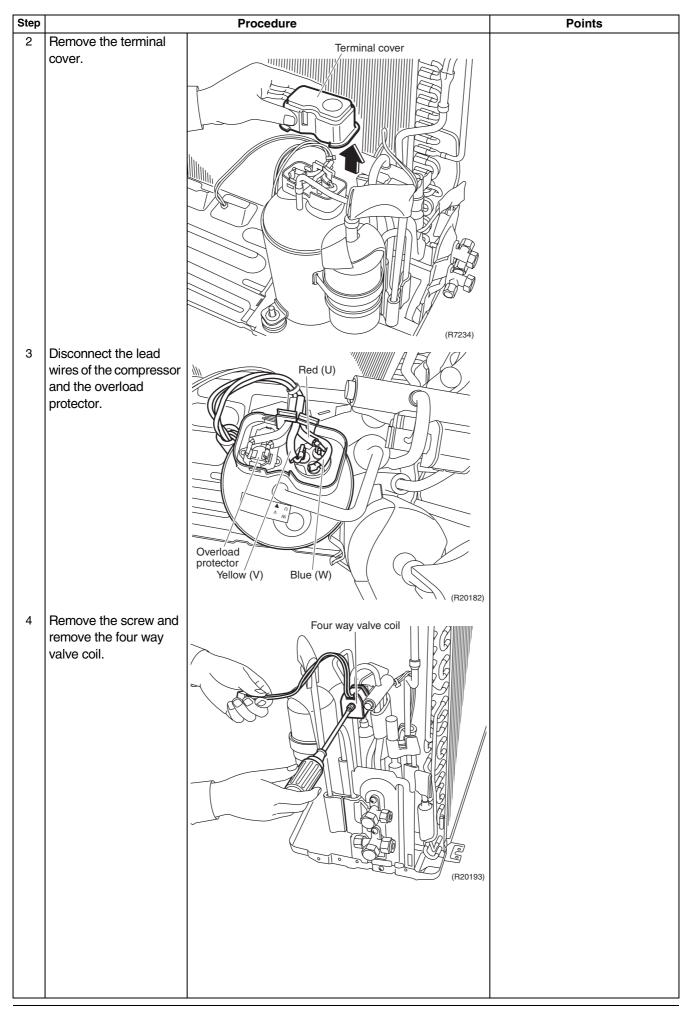
- From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- · Cautions for restoration
  - 1. Restore the piping by non-oxidation brazing.
  - It is required to prevent the carbonization of the oil inside 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.



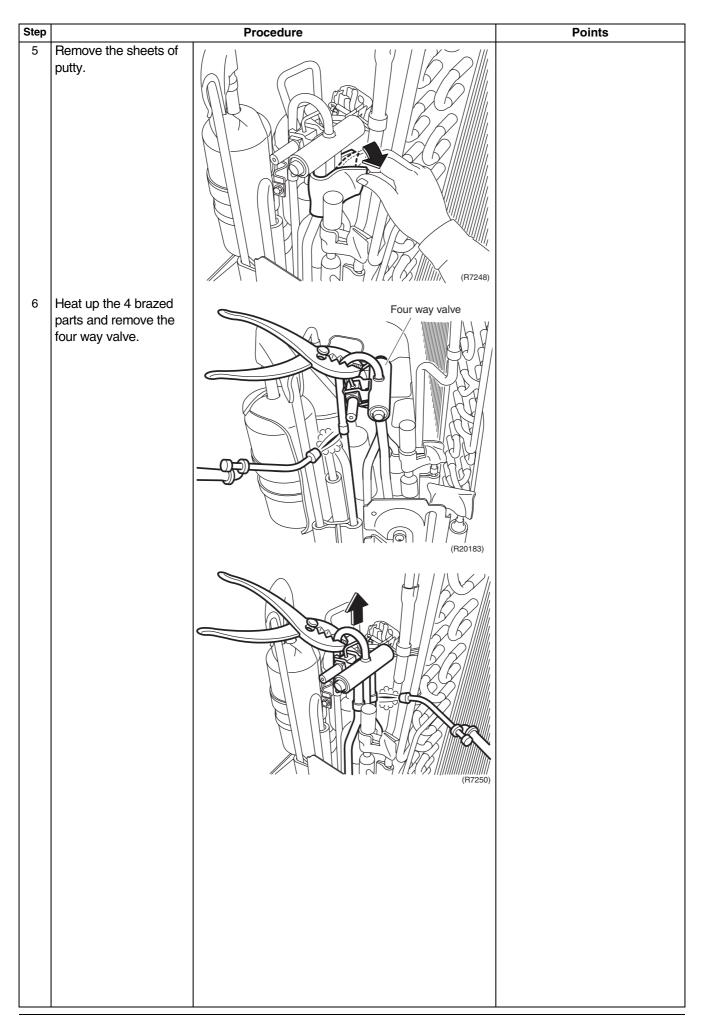
- . Before working, make sure that the refrigerant gas is empty in the circuit.
- Be sure to apply nitrogen replacement when heating up the brazed part.
- Do not use a metal saw for cutting pipes by all means because the sawdust comes into the circuit.
- When withdrawing the pipes, be careful not to 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.



Four Way Valve Si001273EC



Si001273EC Four Way Valve



Compressor Si001273EC

#### 8. 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.

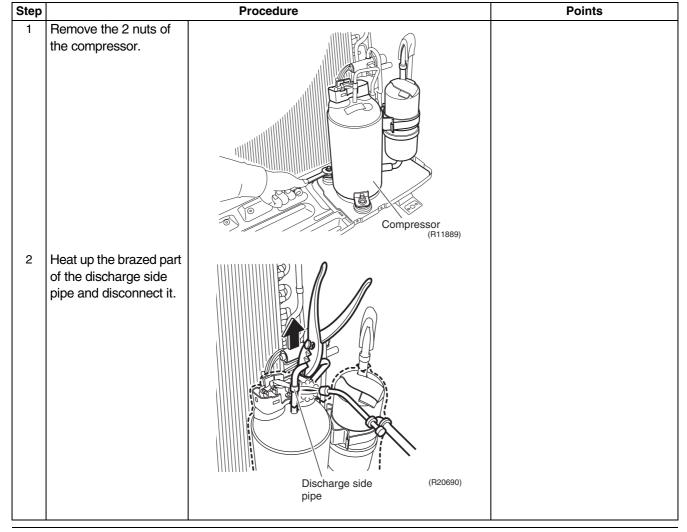


Caution

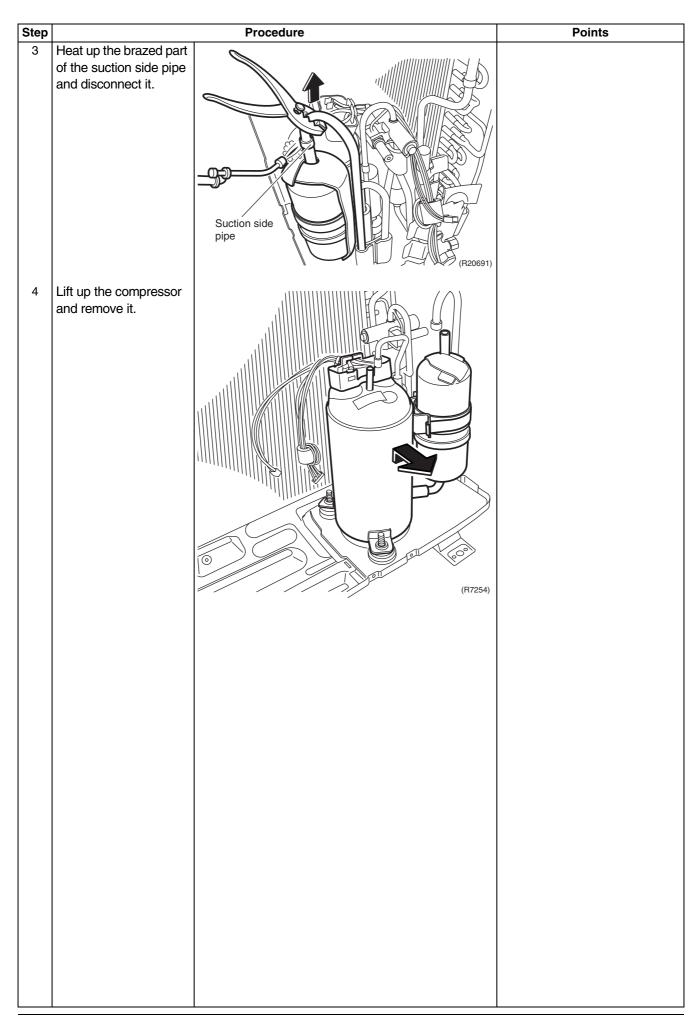
- From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- Restore the piping by non-oxidation brazing.



- . 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.
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- 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.



Si001273EC Compressor



## **Revision History**

Month / Year	Version	Revised contents
02 / 2013	Si001273	First edition
03 / 2014	Si001273EA	Model addition: RXG20/25/35L2V1B, RXS35L2V1B
07 / 2014	Si001273EB	Model addition: RKM09/12/15NV2S, RKM25/35/42NVMG, RKV25/35NVM, RKV25/35NVM4, RKV25/35NVMV
02 / 2015	Si001273EC	Model addition: RKJ09/12NV1S, RKJ25/35NVM, RKJ25/35NVM4, RKJ25/35NVMG, RKJ25/35NVMV, RKM25/35/42PVMG



- 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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