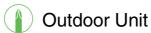




### SERVICE MANUAL

### 5.0/6.0 kW Class



Inverter

Pair Type



# Service Manual Removal Procedure

# **Outdoor Unit**

●Heat Pump RXN50KEV1B RXN60KEV1B

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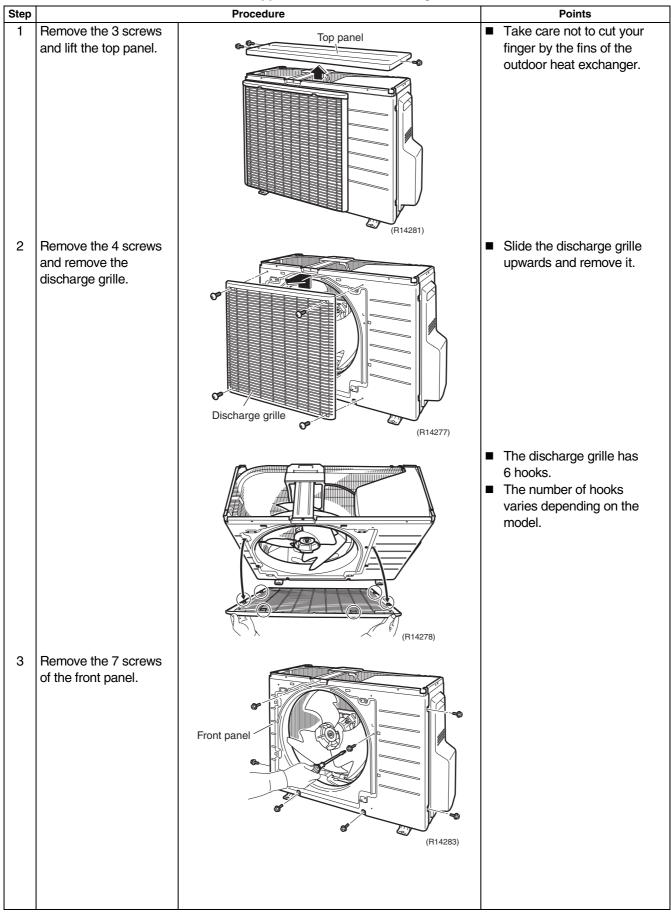
• The illustrations may be slightly different depending on the model.

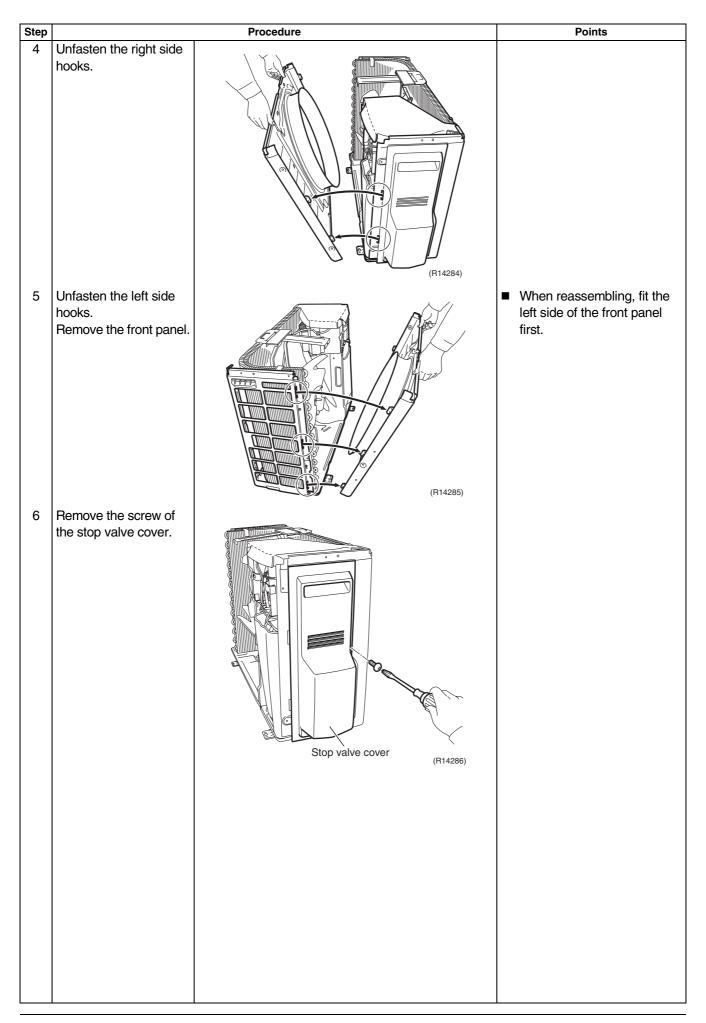
Removal of Outer Panels Si001075

### 1. Removal of Outer Panels

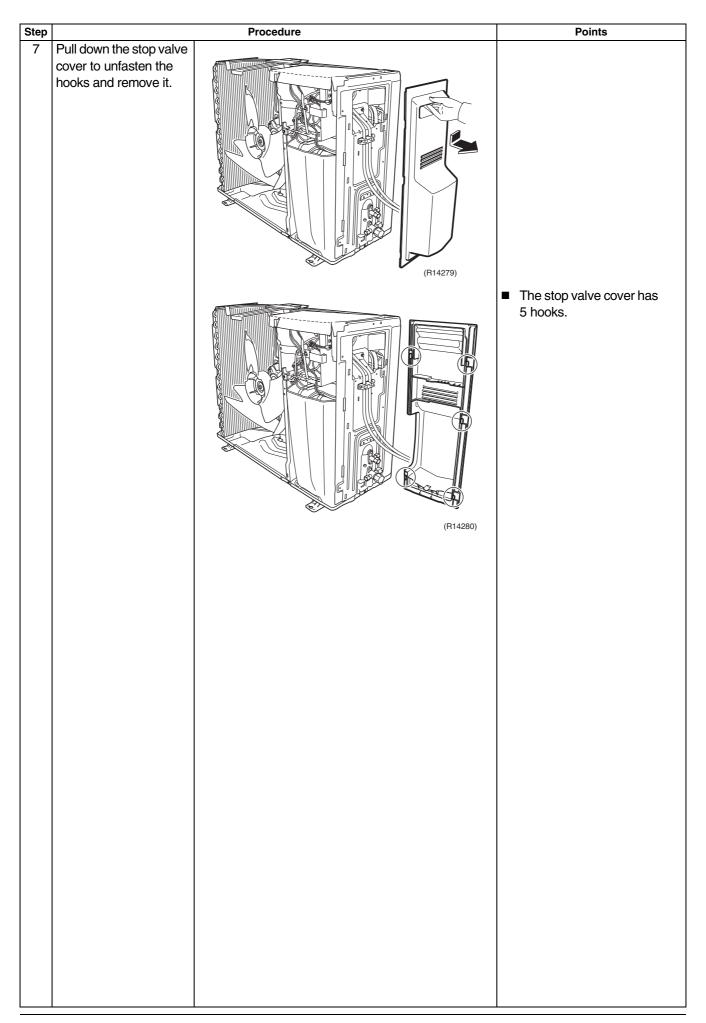
**Procedure** 

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





Removal of Outer Panels Si001075

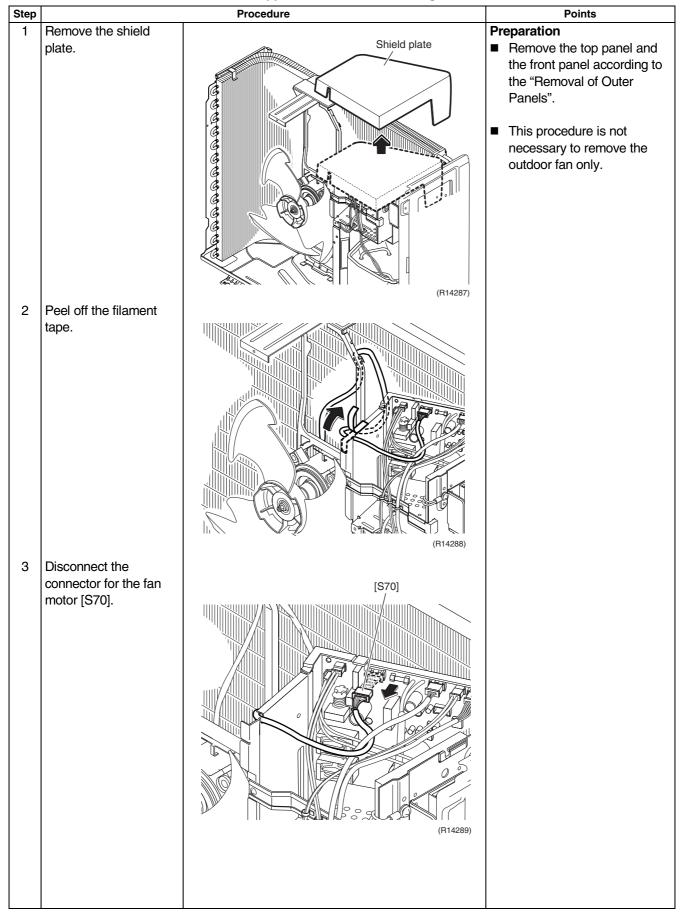


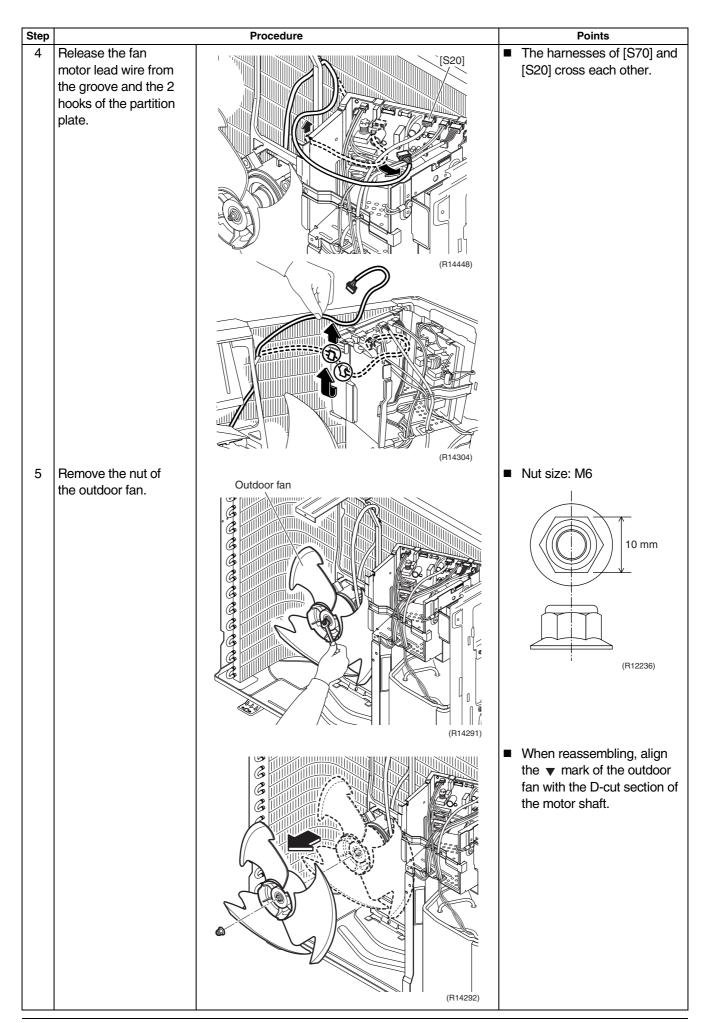
### 2. Removal of Outdoor Fan / Fan Motor

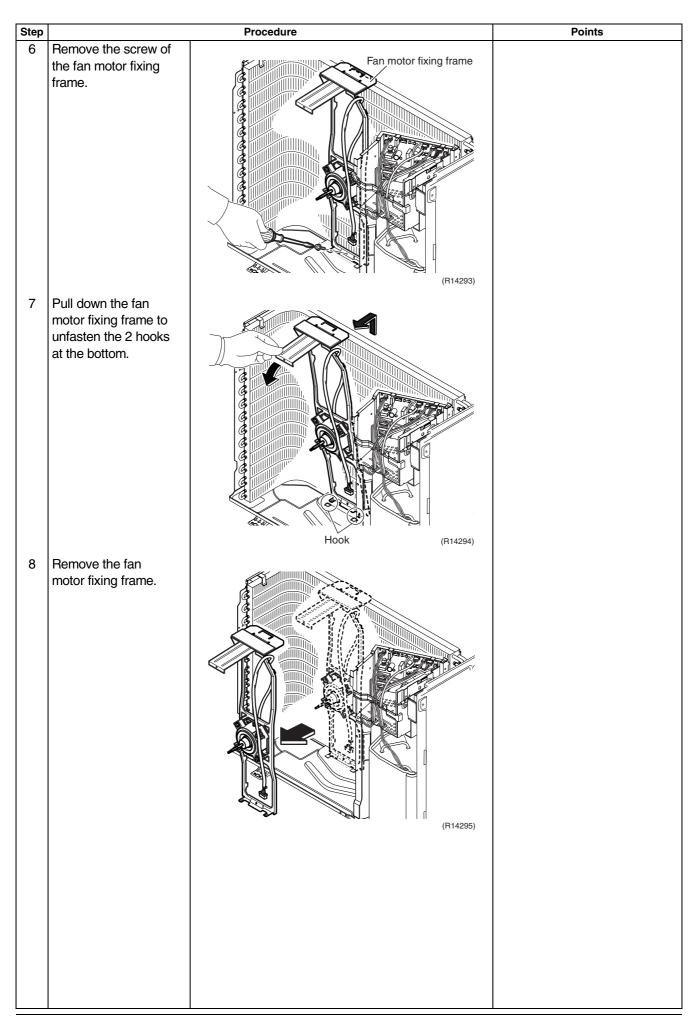
#### **Procedure**

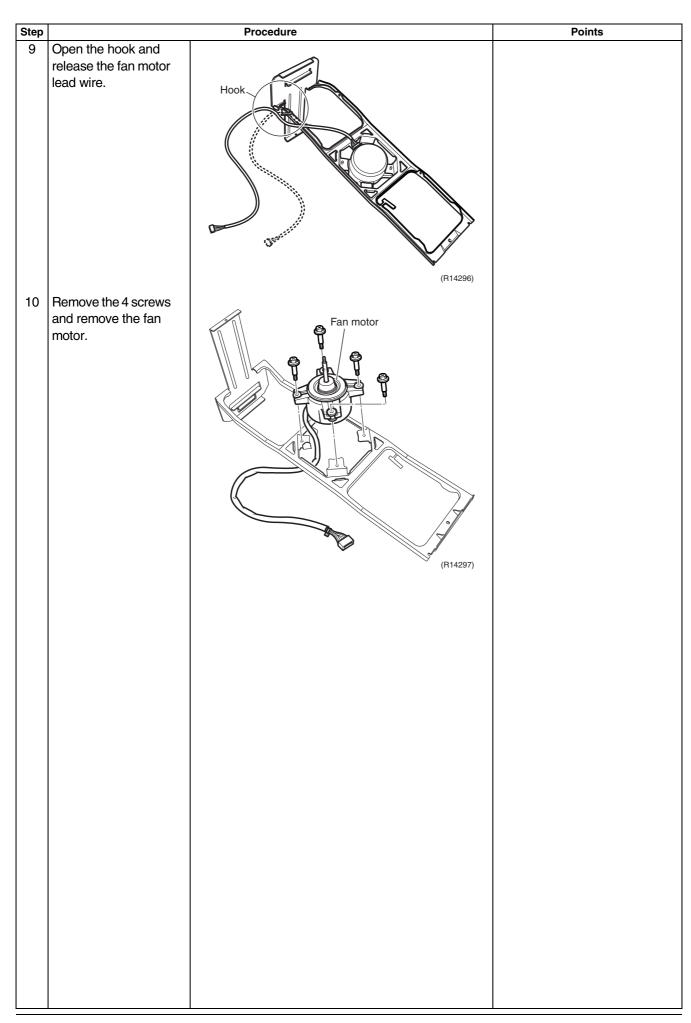
**Warning** 

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





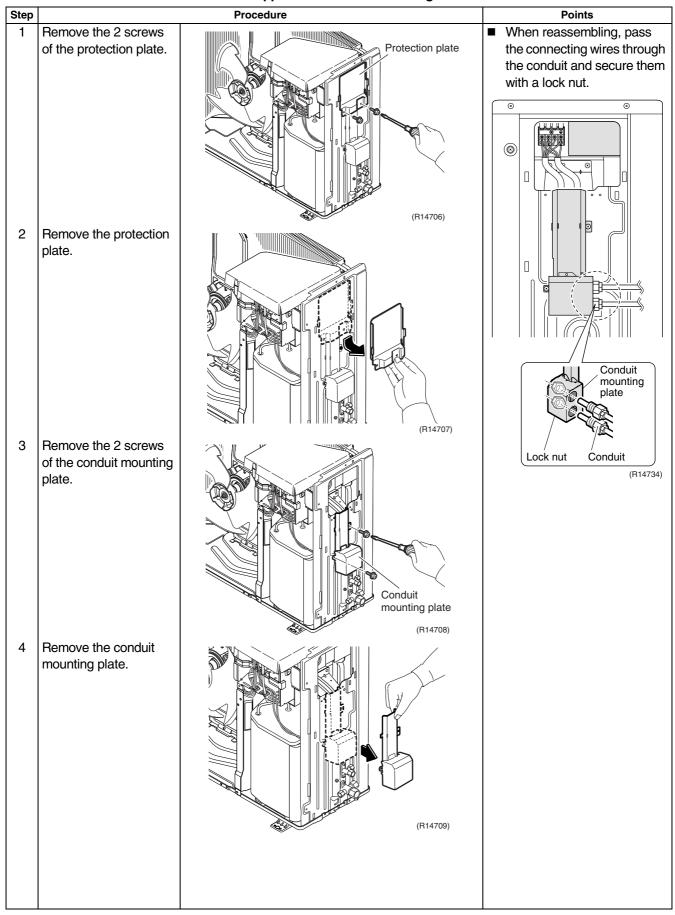




### 3. Removal of Conduit Mounting Plate

**Procedure** 

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

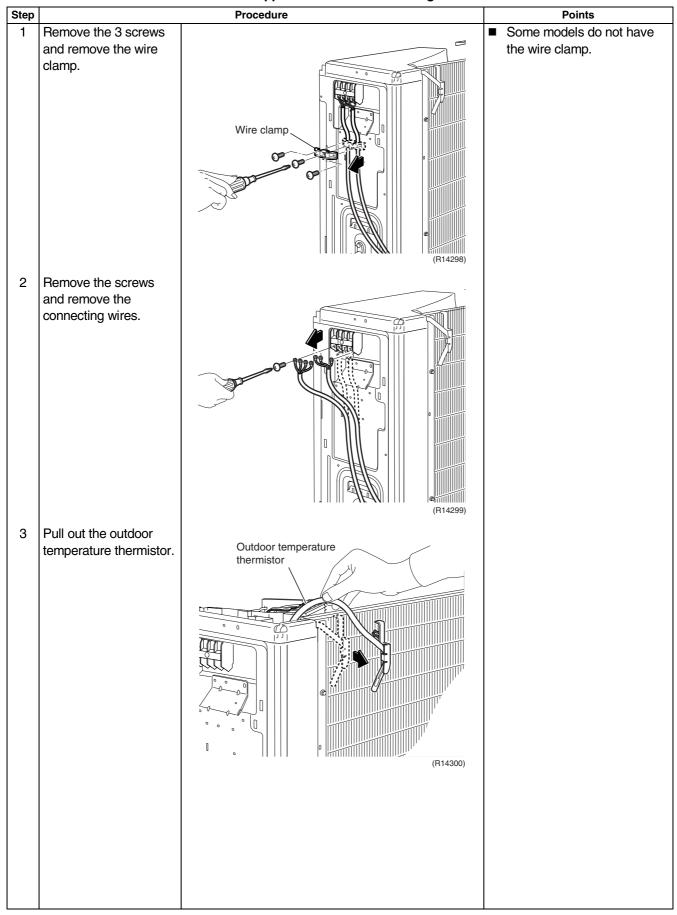


Removal of Electrical Box Si001075

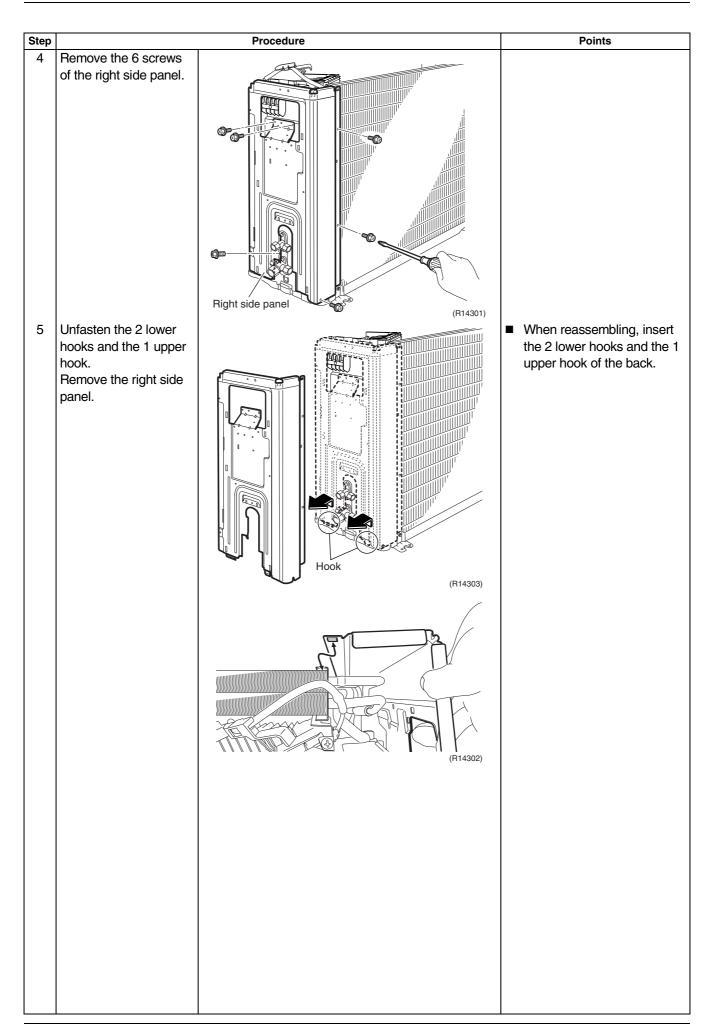
### 4. Removal of Electrical Box

#### **Procedure**

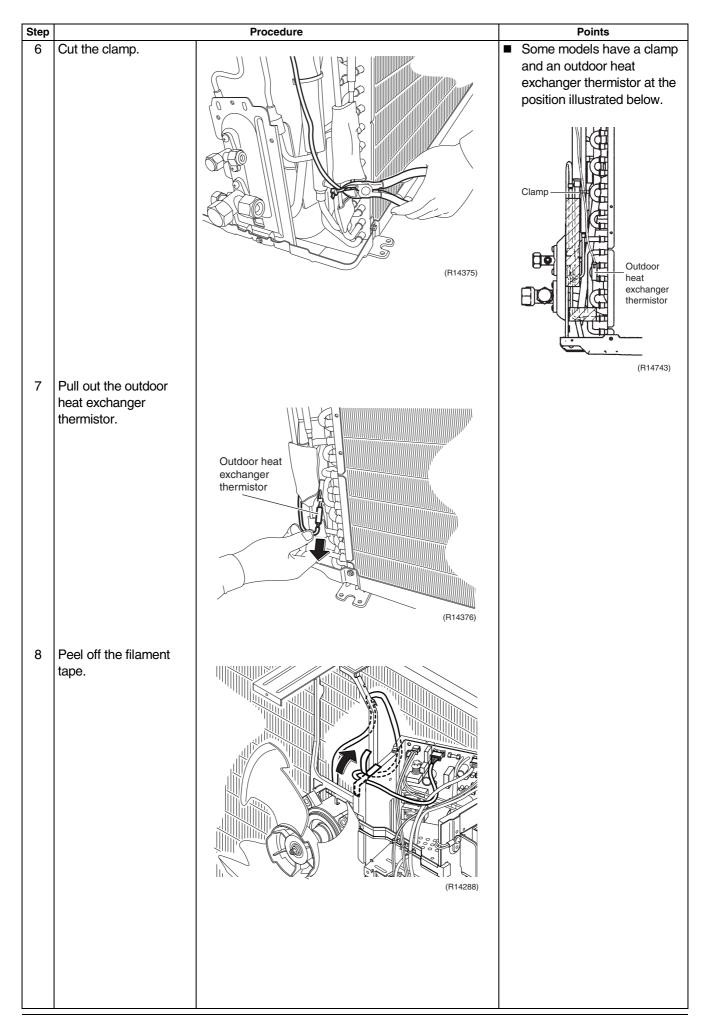
Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.



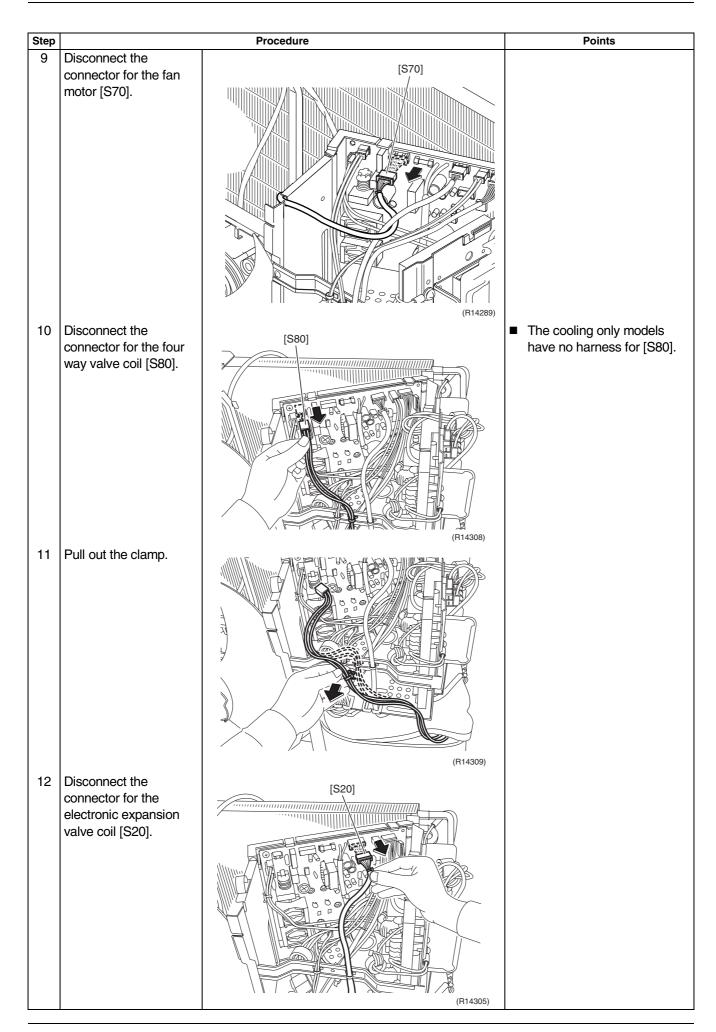
Si001075 Removal of Electrical Box



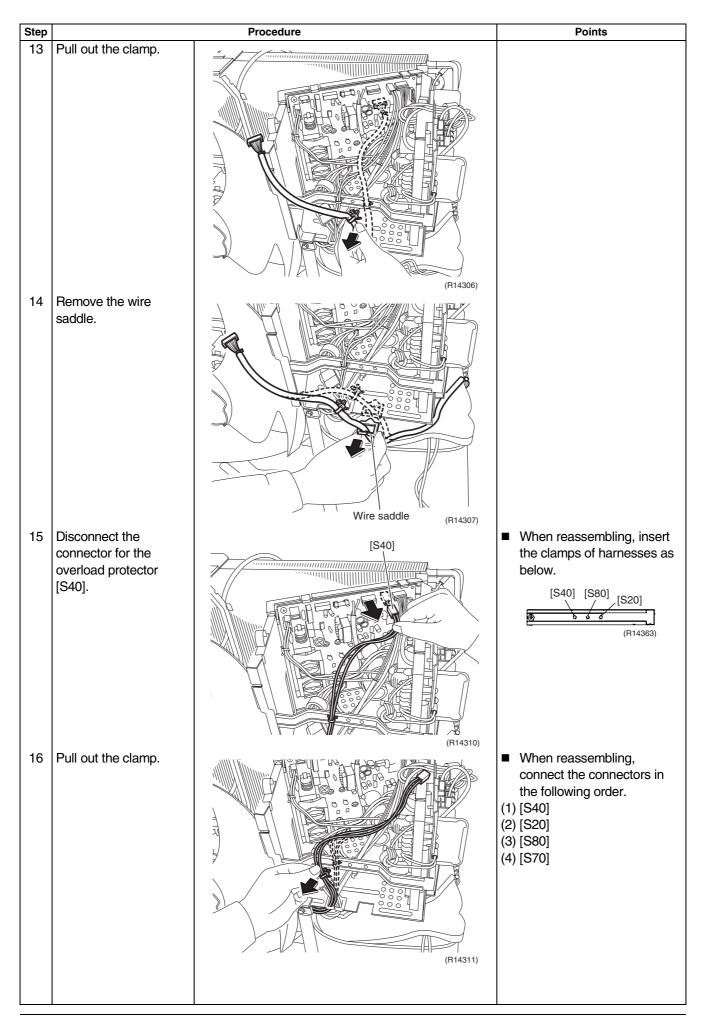
Removal of Electrical Box Si001075



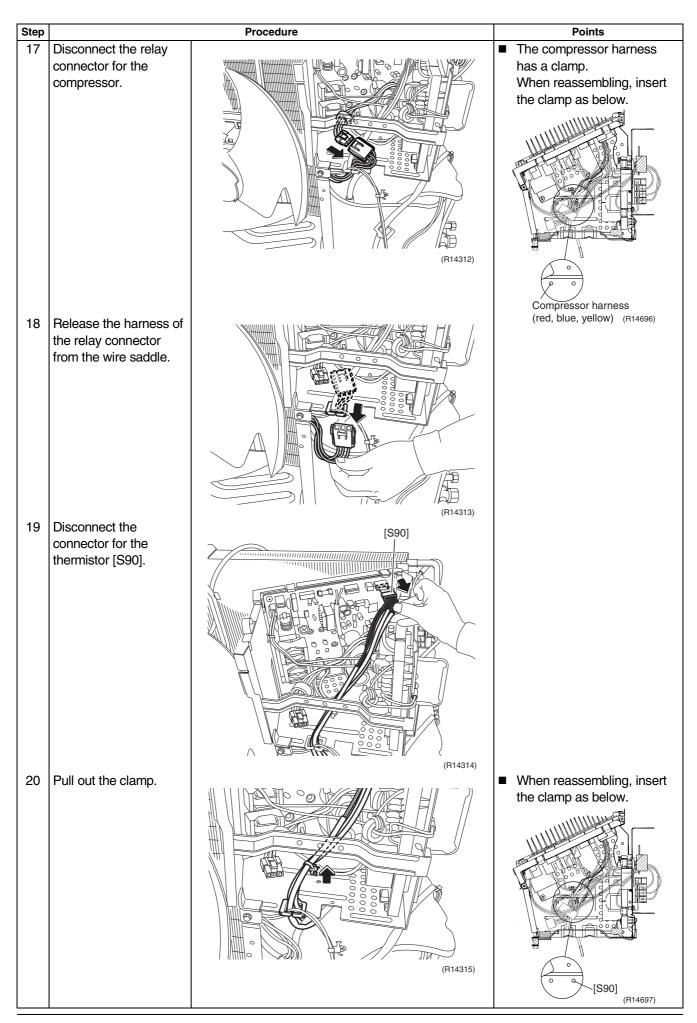
Si001075 Removal of Electrical Box



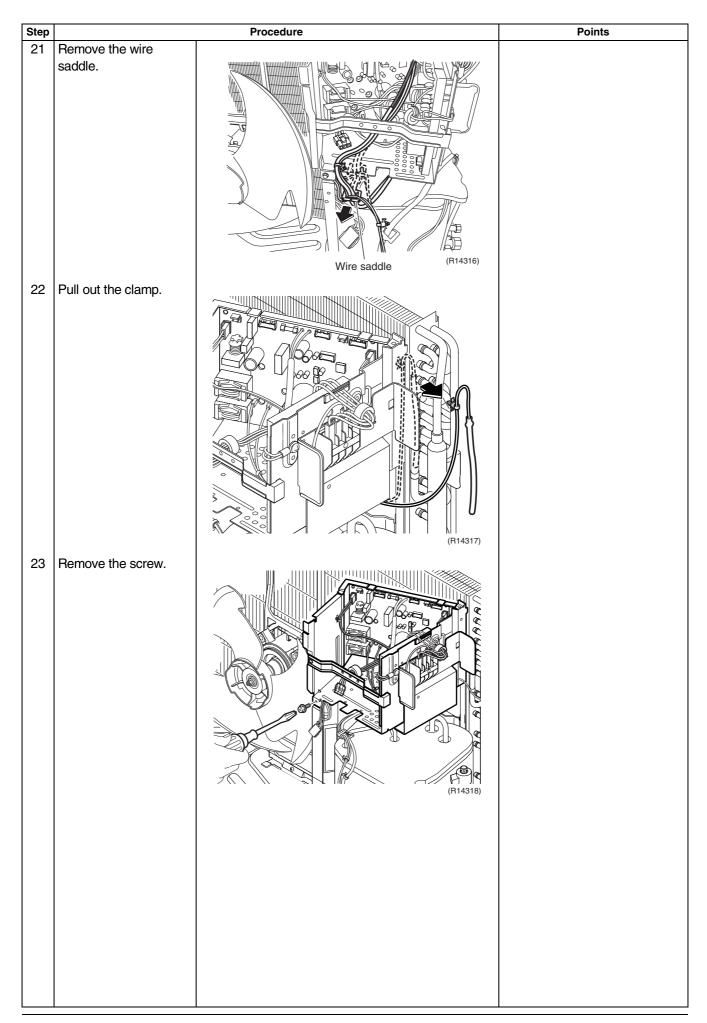
Removal of Electrical Box Si001075



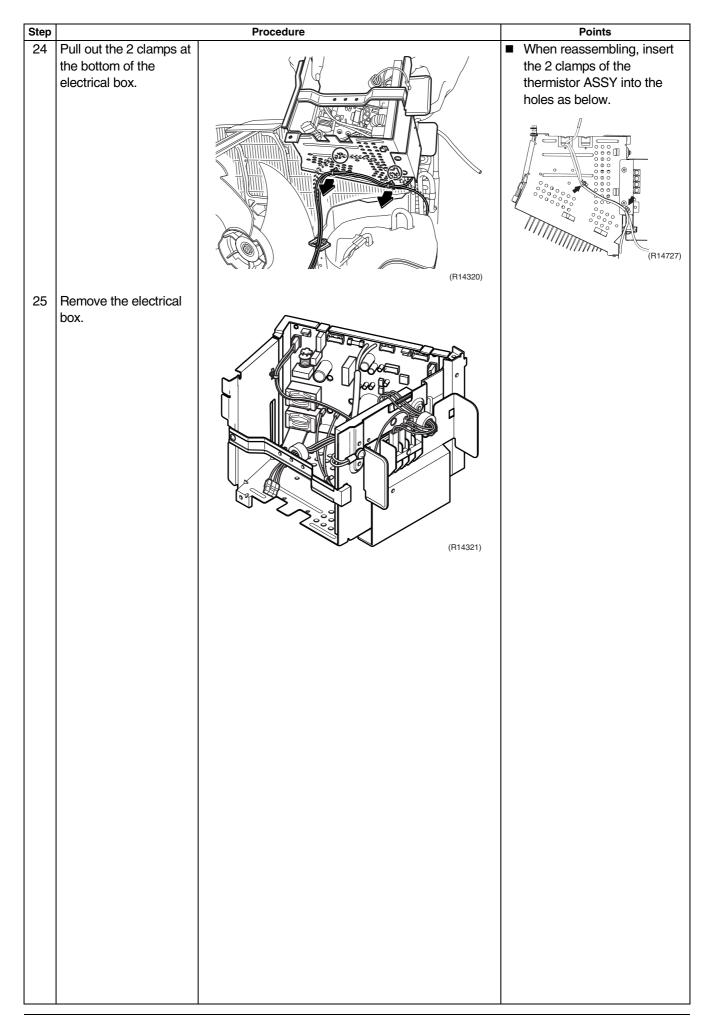
Si001075 Removal of Electrical Box



Removal of Electrical Box Si001075



Si001075 Removal of Electrical Box

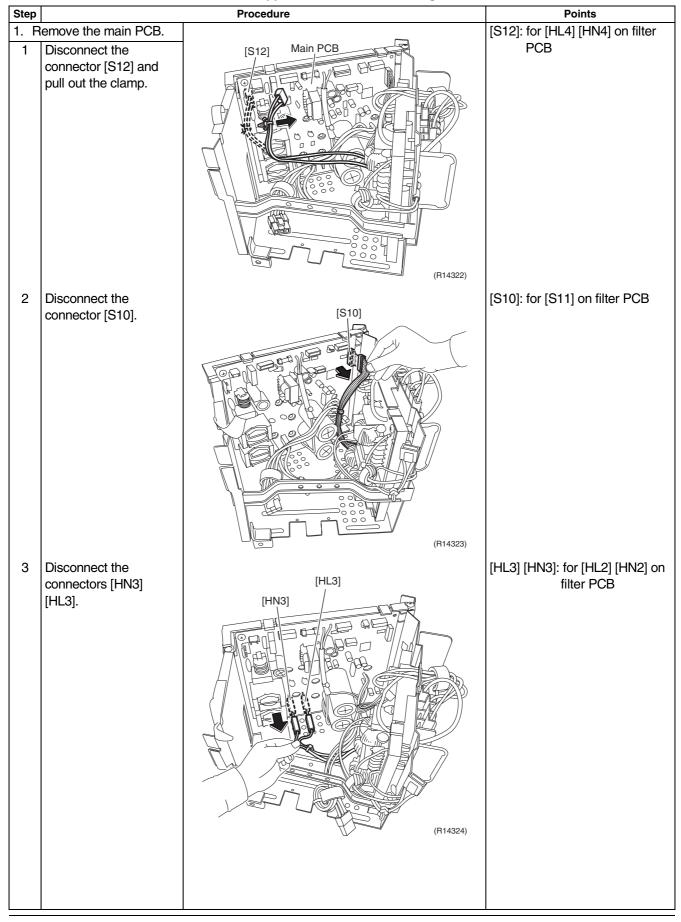


Removal of PCBs Si001075

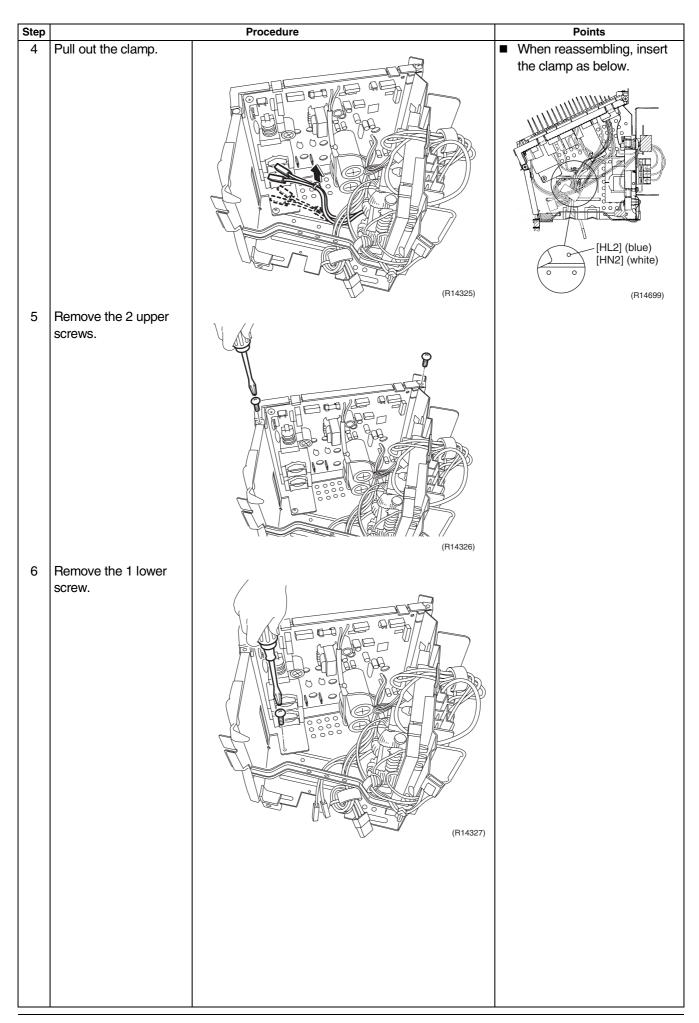
### 5. Removal of PCBs

**Procedure** 

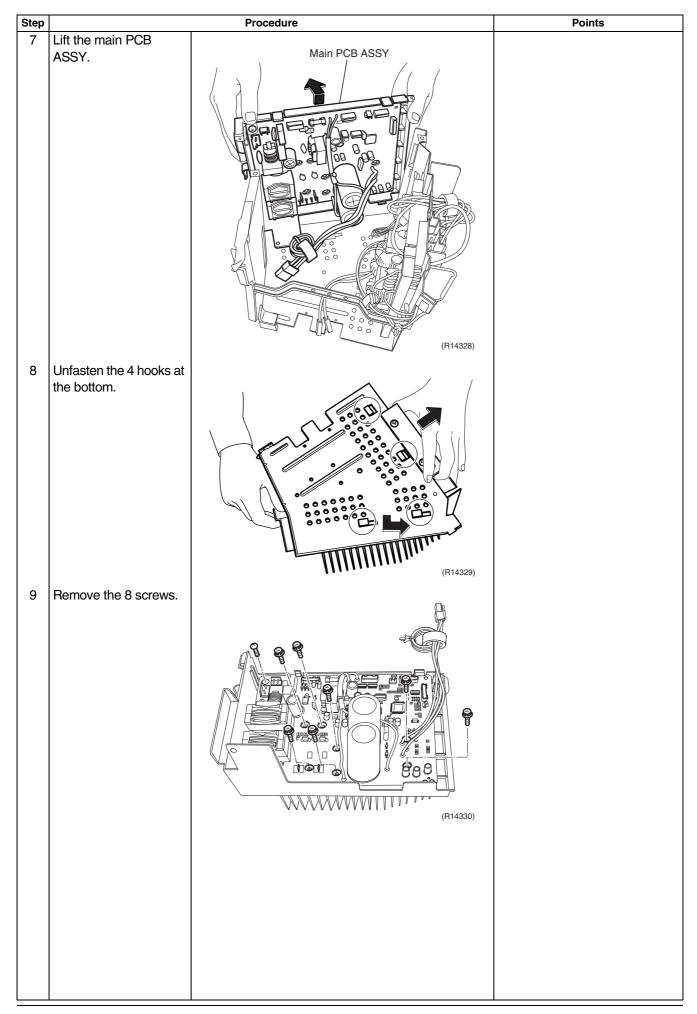
Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.



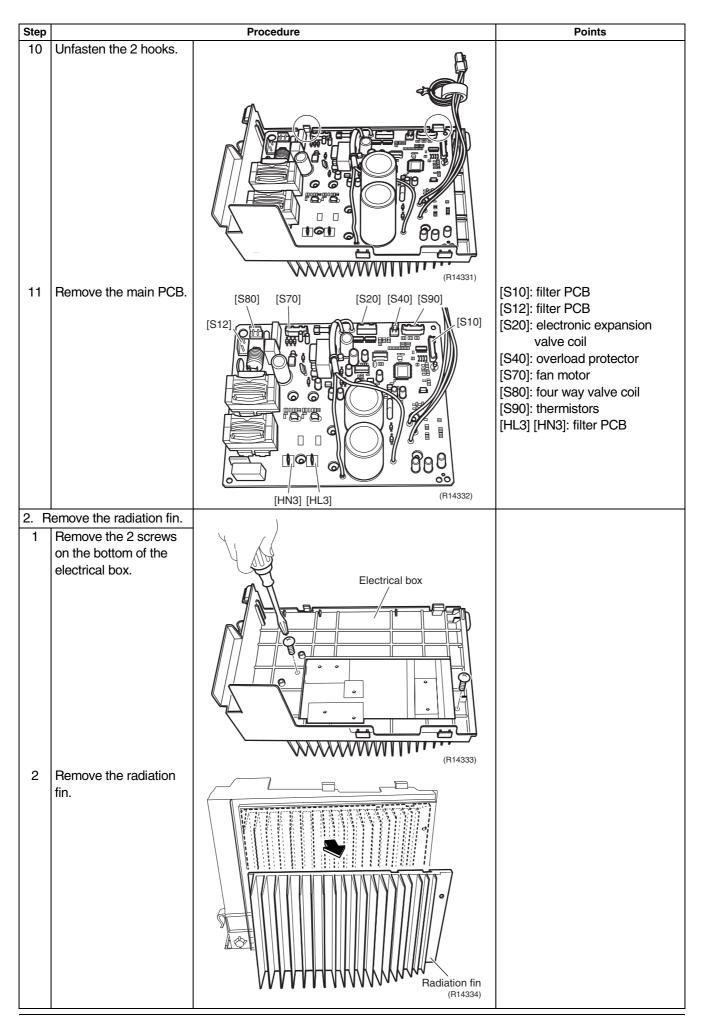
Si001075 Removal of PCBs



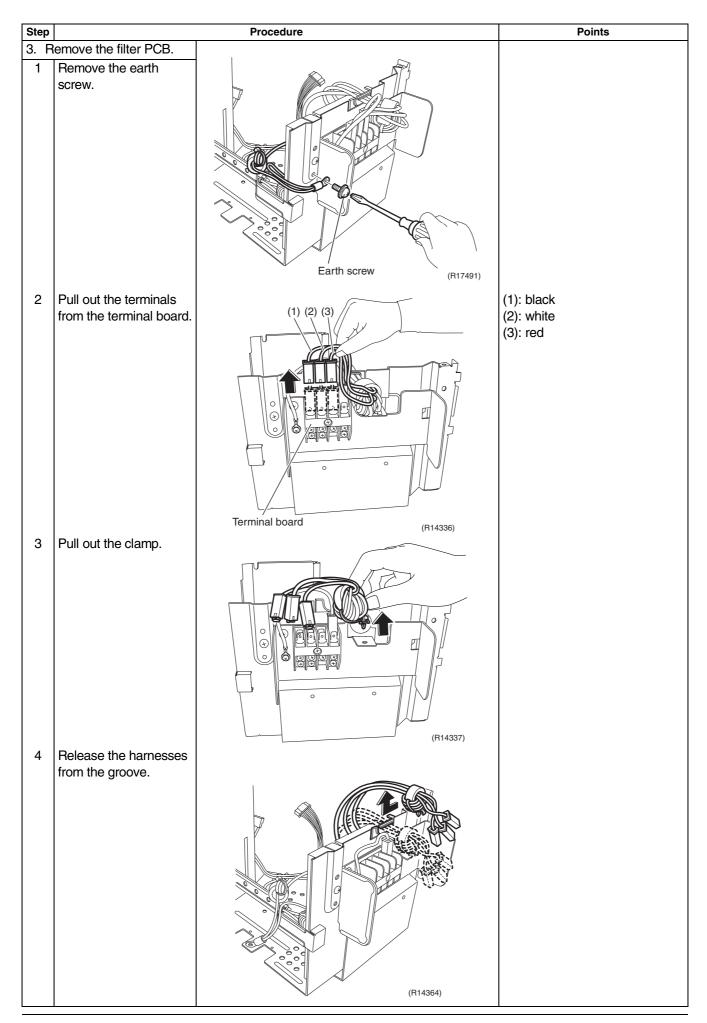
Removal of PCBs Si001075



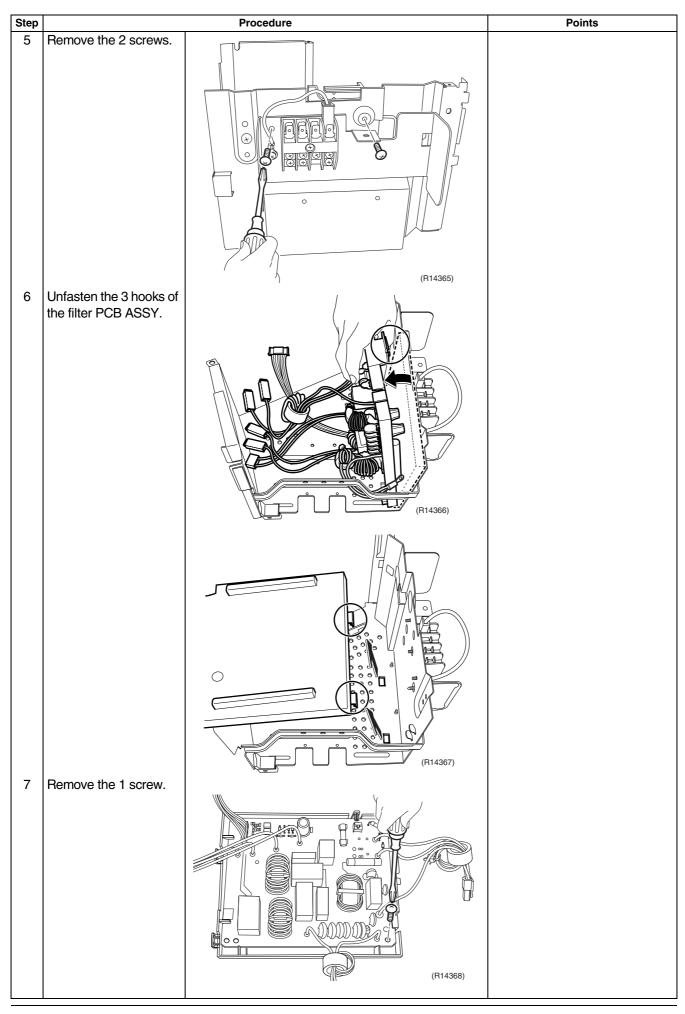
Si001075 Removal of PCBs



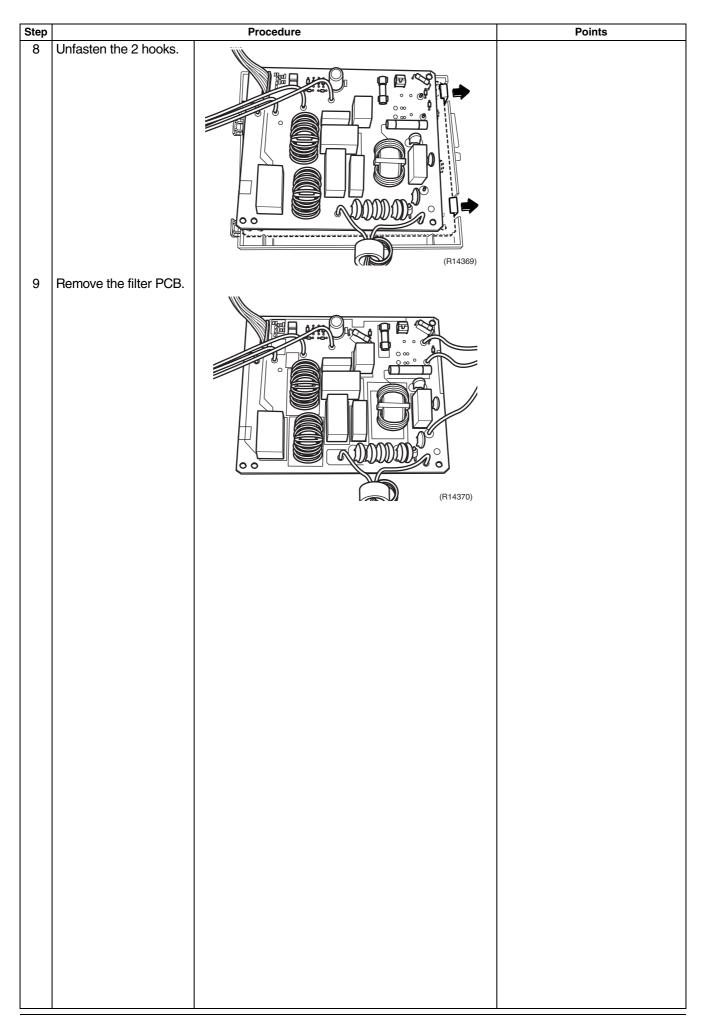
Removal of PCBs Si001075



Si001075 Removal of PCBs



Removal of PCBs Si001075



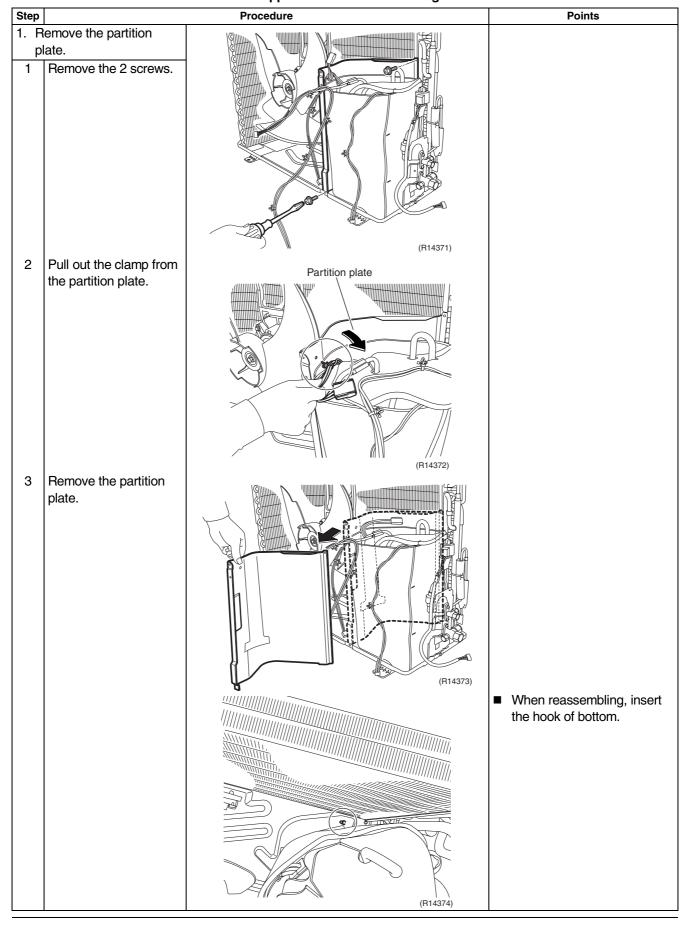
Removal of Sound Blankets

### 6. Removal of Sound Blankets

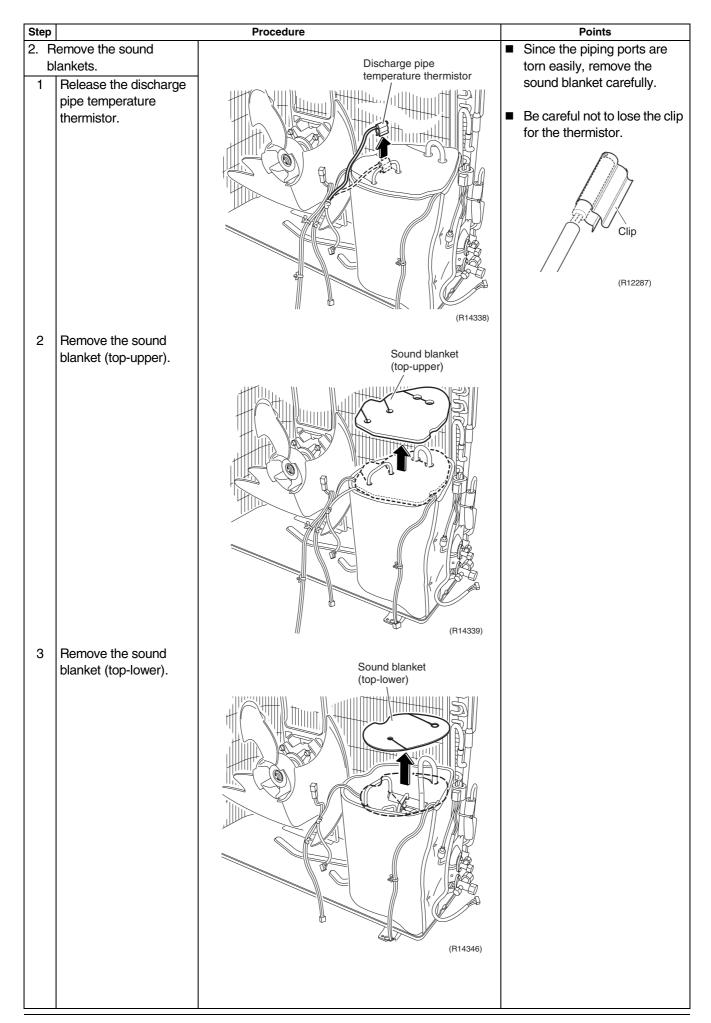
**Procedure** 

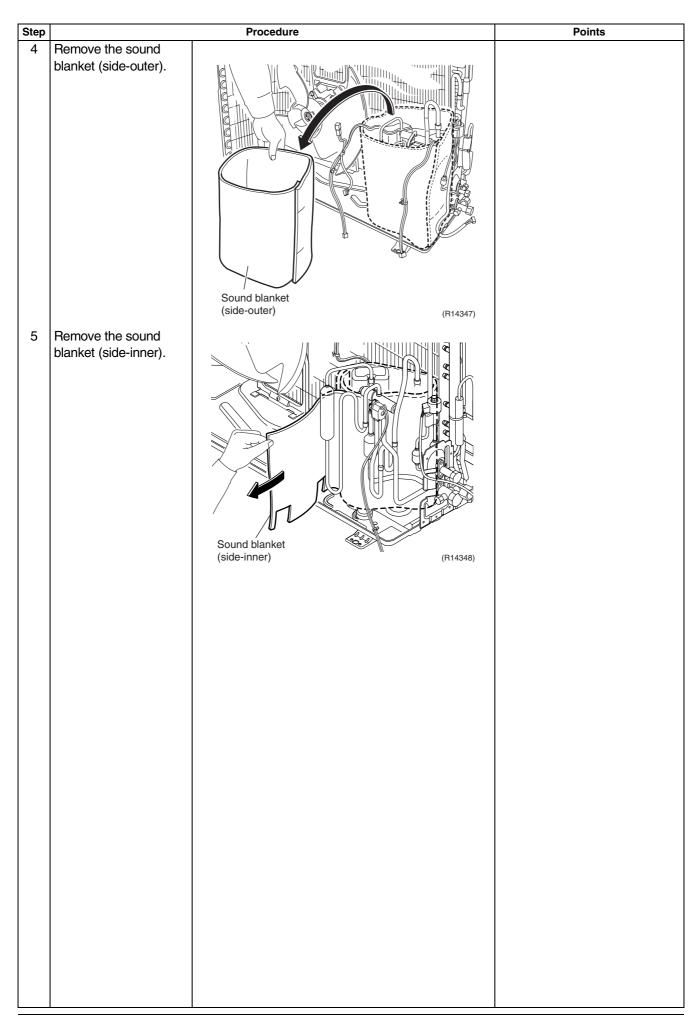
/ Warning

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



Removal of Sound Blankets Si001075



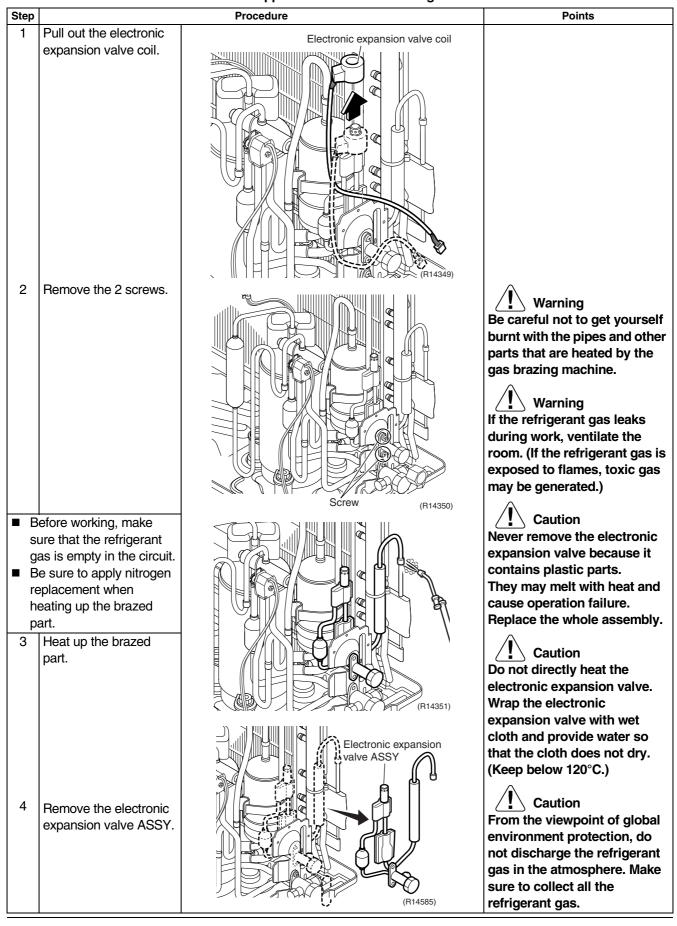


### 7. Removal of Electronic Expansion Valve ASSY

**Procedure** 

Warning

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



### 8. 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. Procedure Step Remove the screw and remove the four way Four way valve coil. valve coil (R14340) ■ Before working, make Four way valve sure that the refrigerant gas is empty in the circuit. ■ Be sure to apply nitrogen replacement when heating up the brazed part. Heat up the brazed

**Points** The cooling only models have no four way valve coil.

**∨** 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.

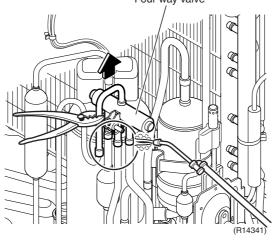
#### Cautions for restoration

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

#### 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.

parts of the four way valve and disconnect.

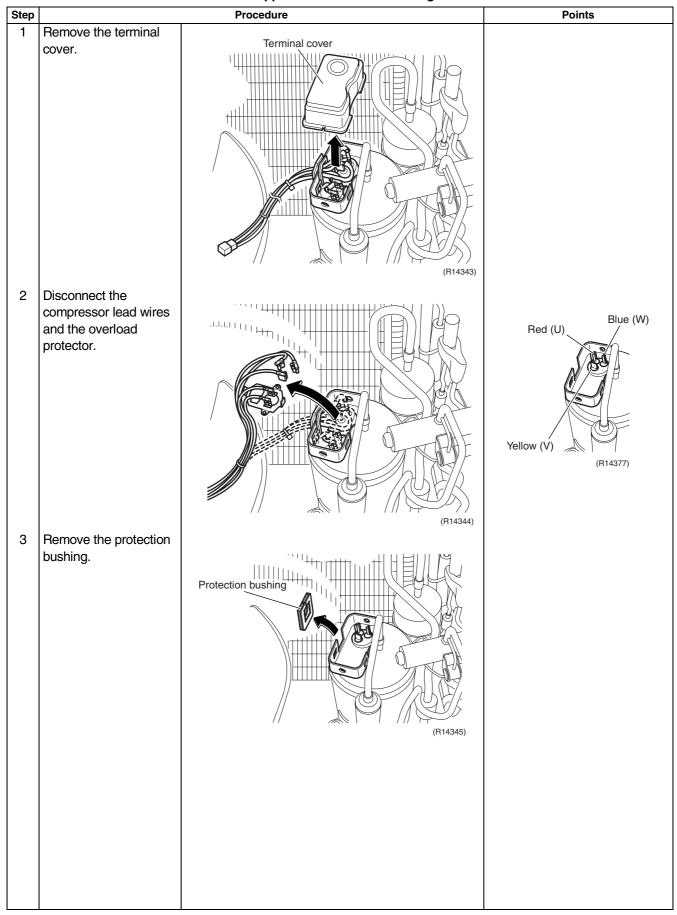


Removal of Compressor Si001075

# 9. Removal of Compressor

**Procedure** 

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



# Step4Remove the 3 nuts of the compressor.

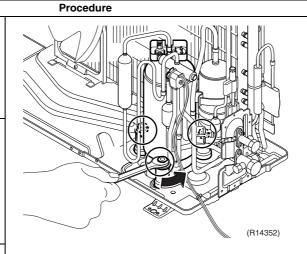
- Before working, make sure that the refrigerant gas is empty in the circuit.
- Be sure to apply nitrogen replacement when heating up the brazed part.
- 5 Heat up the brazed part of the discharge side and disconnect.
- 6 Heat up the brazed part of the suction side and disconnect.
- 7 Lift the compressor up and remove it.

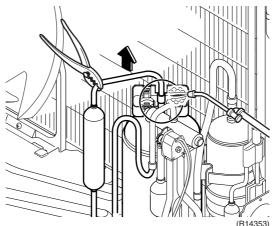
Warning
Be careful not to get
yourself burnt with the
pipes and other parts that
are heated by the gas
brazing machine.

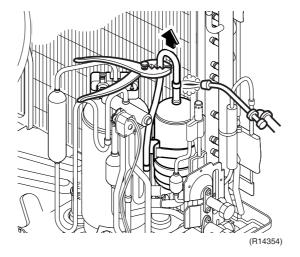
Warning
If the refrigerant gas leaks
during work, ventilate the
room. (If the refrigerant gas
is exposed to flames, toxic
gas may be generated.)

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 refrigerant gas.







#### Points

#### **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.) 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.

#### 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.

# **Revision History**

Month / Year	Version	Revised contents
01 / 2013	Si001075	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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