



### 9000/12000/15000 Btu/h Class





Inverter



Pair Type



# Service Manual Removal Procedure

# **Outdoor Unit**

●Heat Pump RXG09HVJU RXG12HVJU RXG15HVJU

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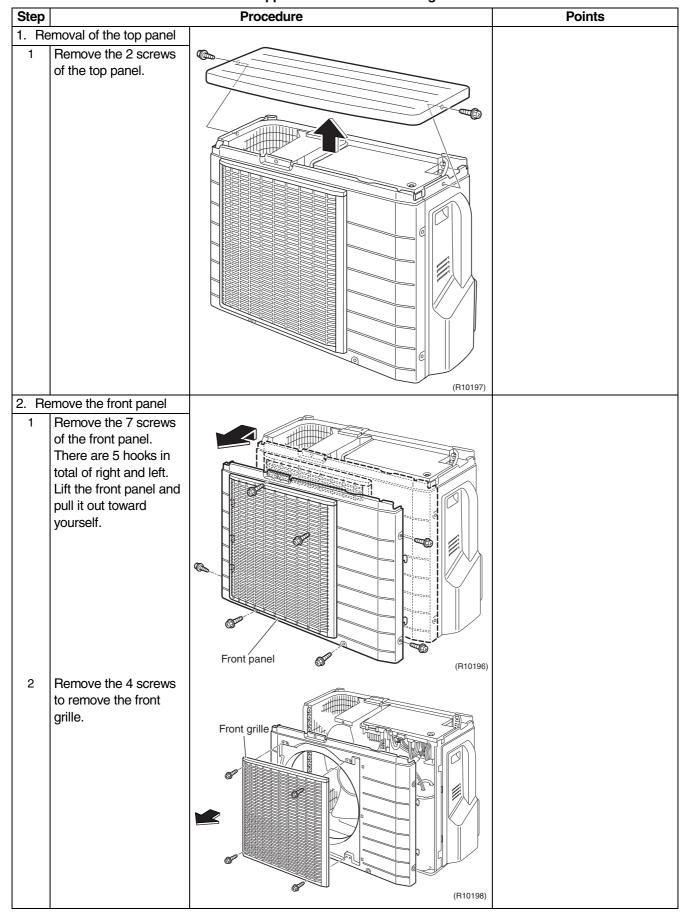
• The illustrations may be slightly different depending on the model.

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

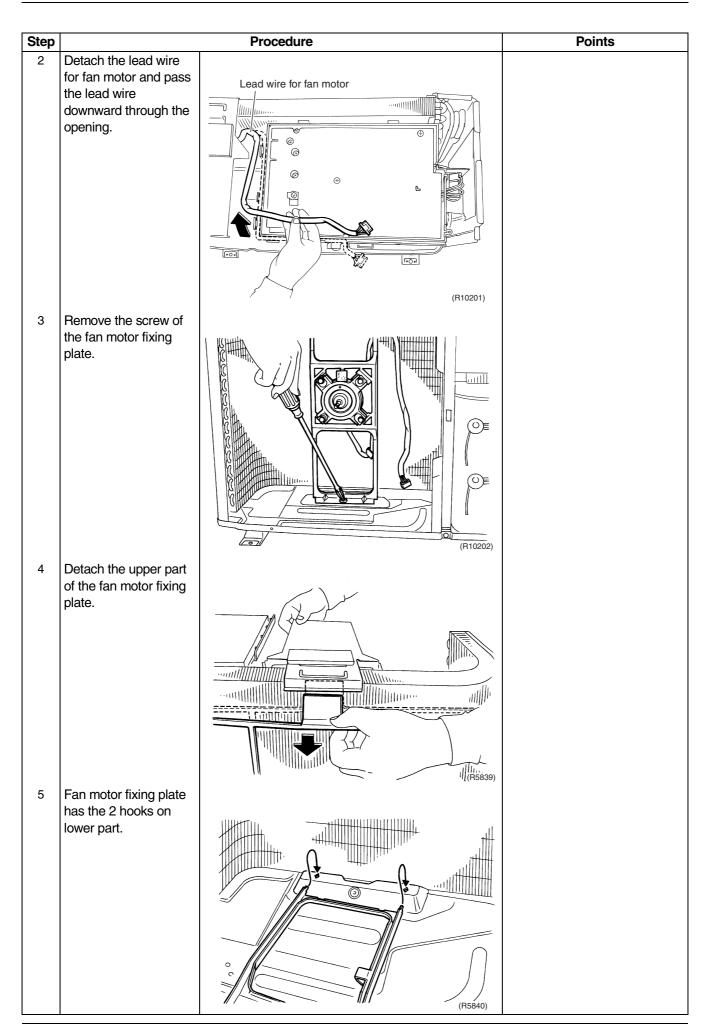
**Procedure** 

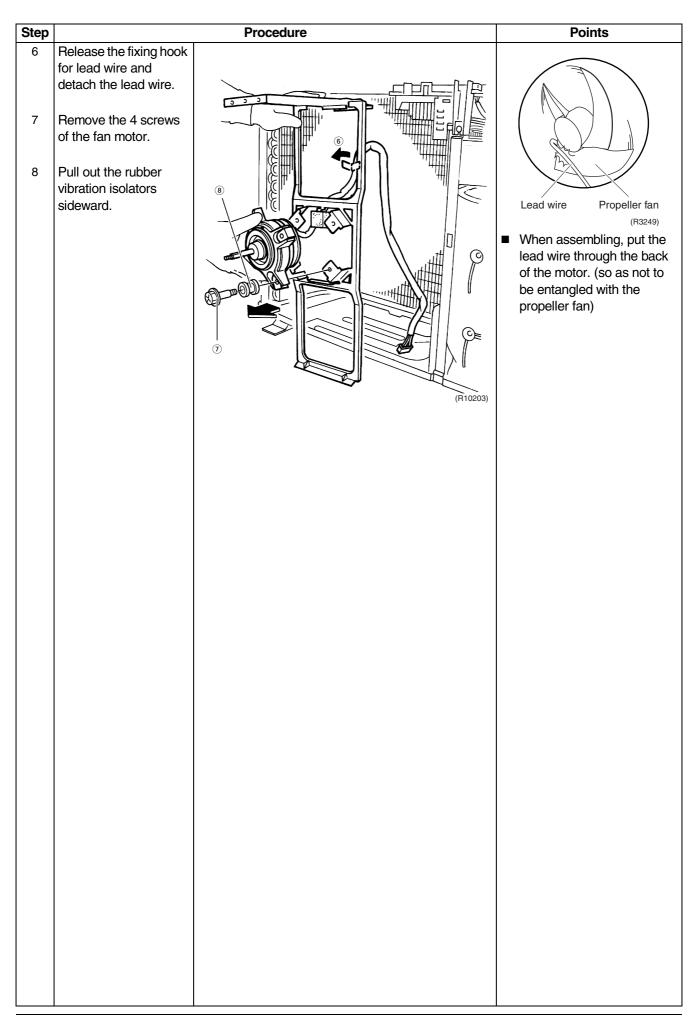
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Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.



Step		Procedure	Points
3	Remove the screw and remove the stop valve cover.	(R10199)	
3. Refar	Removal of the propeller Remove the fan fixing nut and remove the propeller fan.		■ When assembling, align the ▼ mark of the outdoor fan and the D cut section of the motor shaft.  □ cut □ mark □ mark □ (R5833)
		Fan fixing nut 13 mm	<ul> <li>When assembling the fan motor, let the ● mark go upper. (The direction of the lead wire outlet.)</li> <li>Remove the fan fixing nut with the 13 mm wrench.</li> </ul>
4. Re	moval of the fan motor Disconnect the fan motor connector [S70] from PCB.	[S70]	



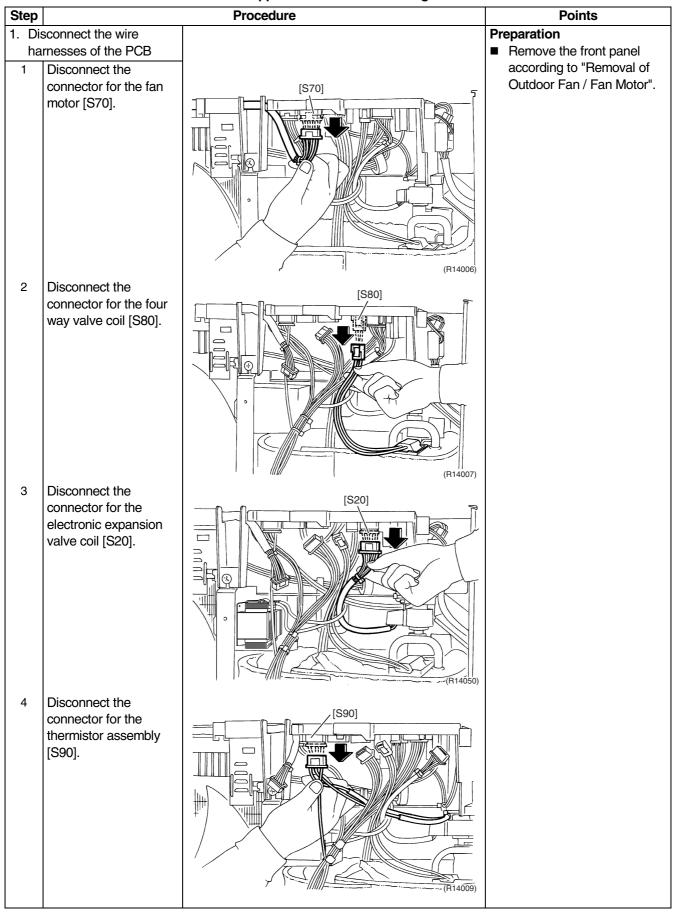


Removal of Electrical Box Si00-979

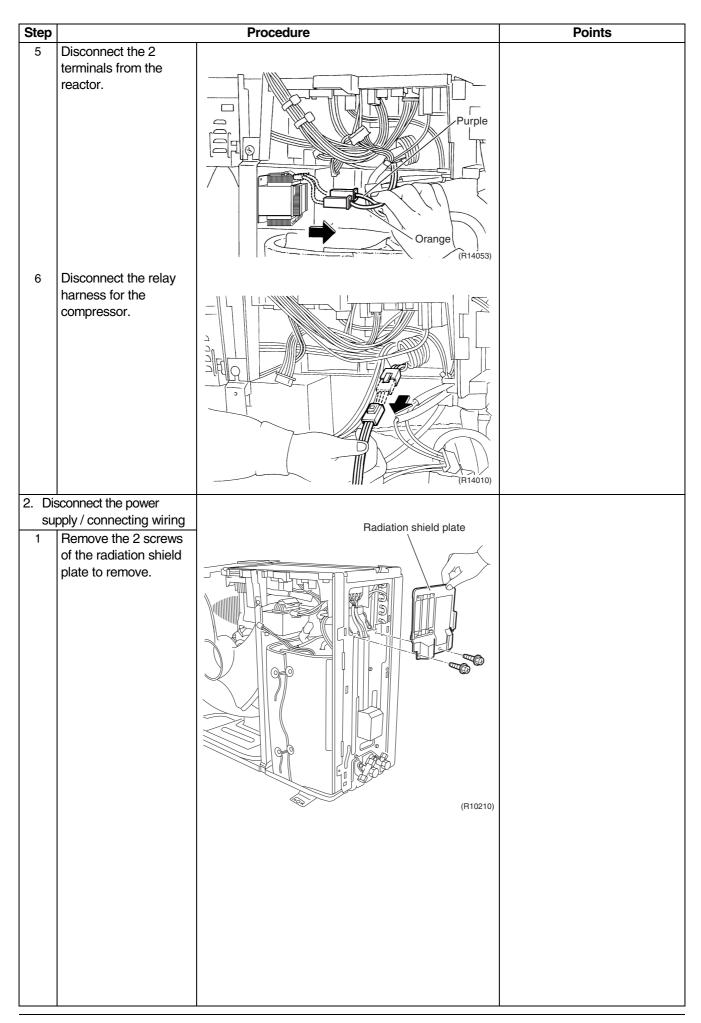
### 2. Removal of Electrical Box

#### **Procedure**

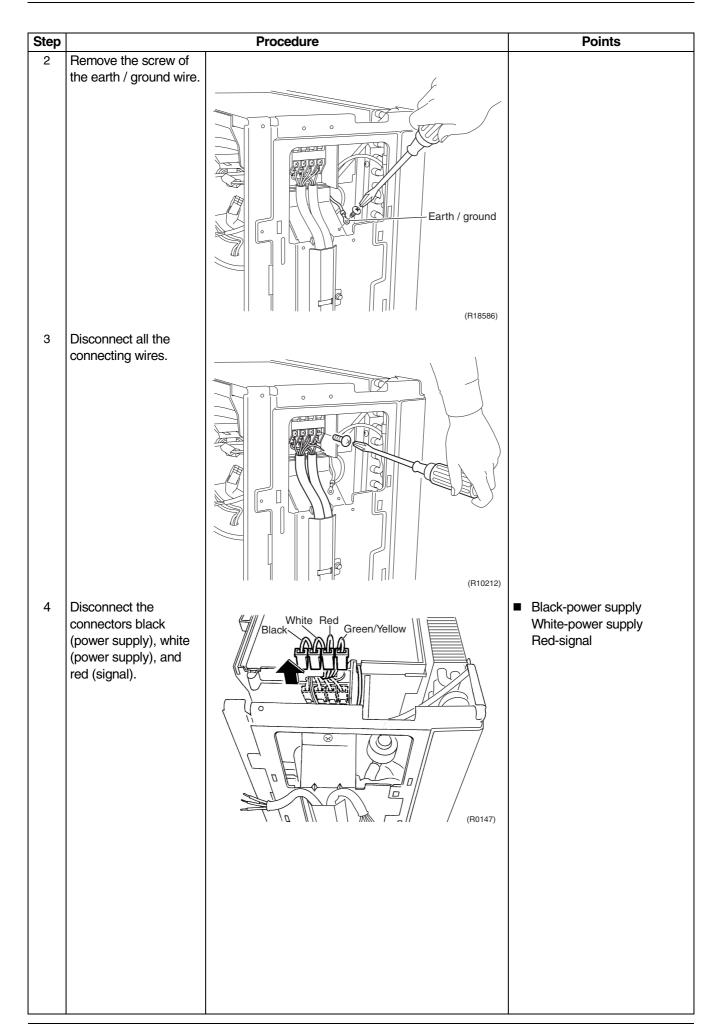
Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

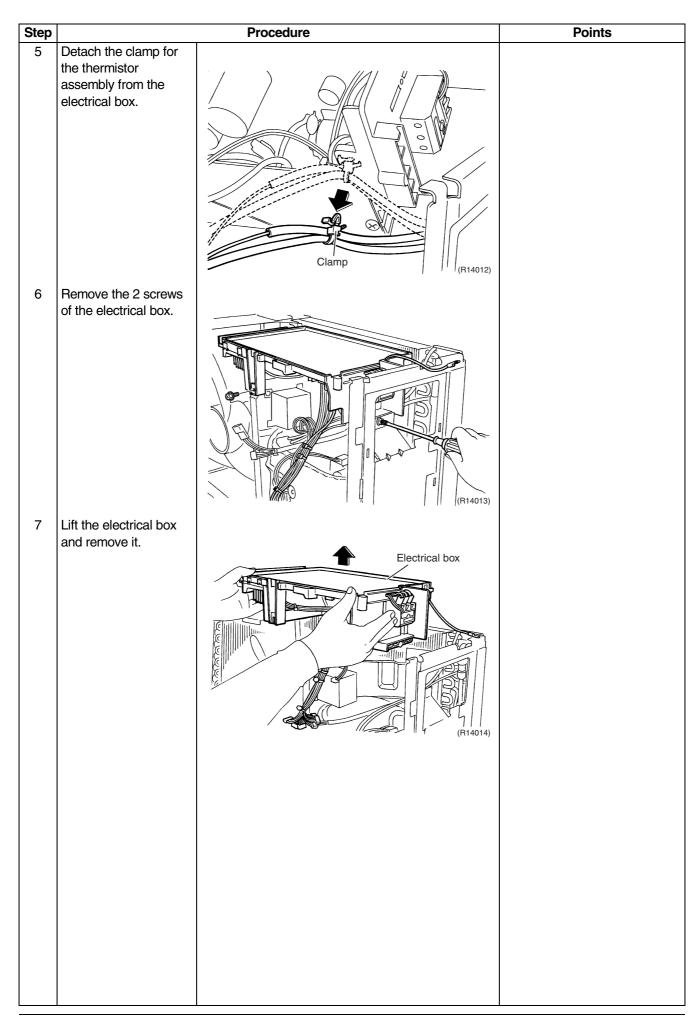


Si00-979 Removal of Electrical Box



Removal of Electrical Box Si00-979



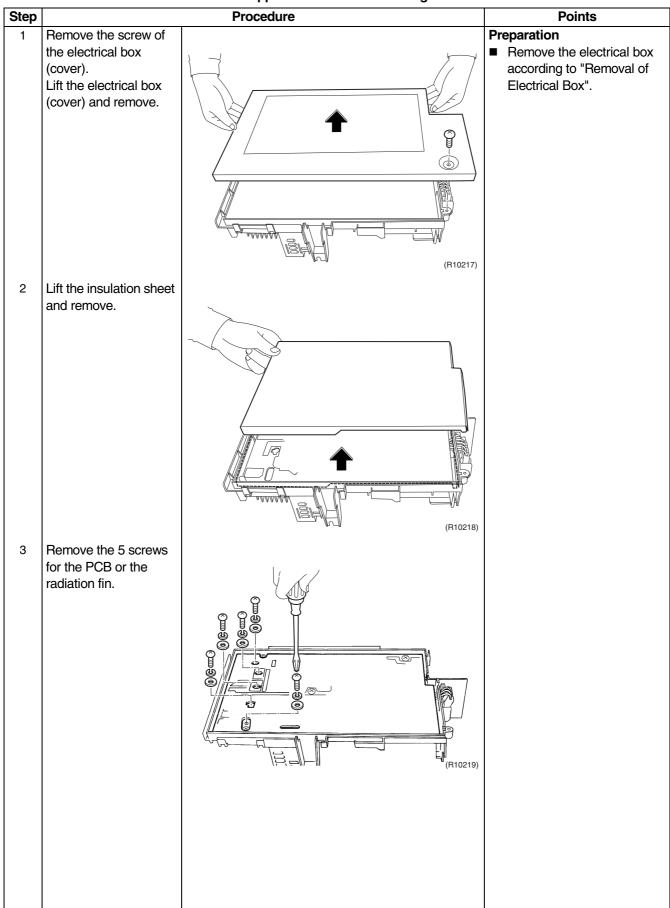


Removal of PCB Si00-979

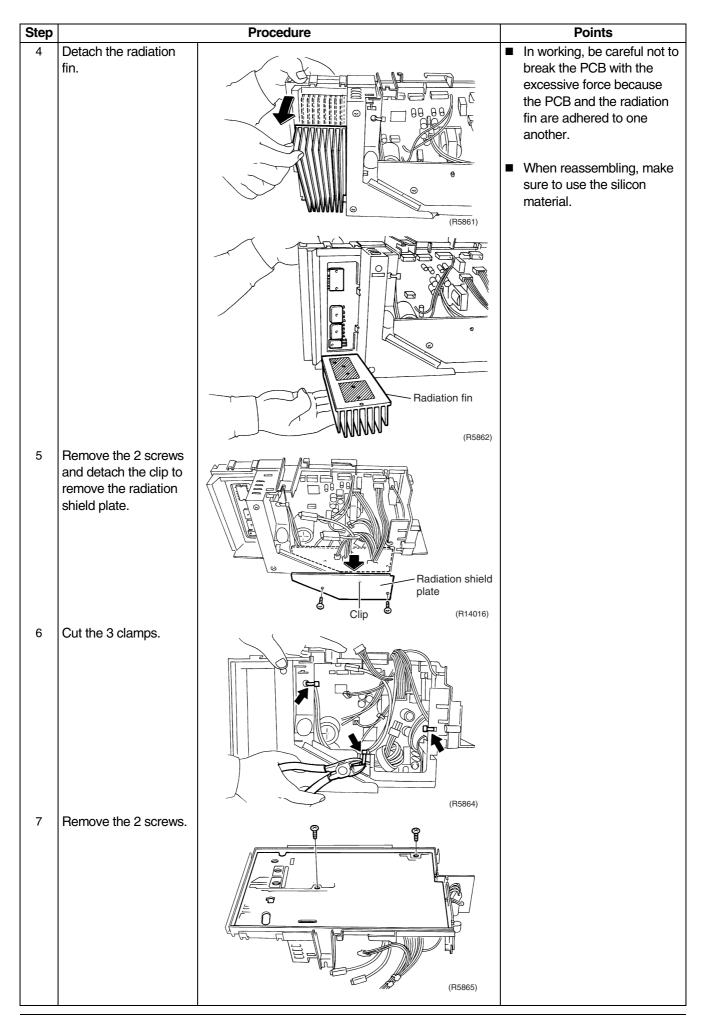
### 3. Removal of PCB

#### **Procedure**

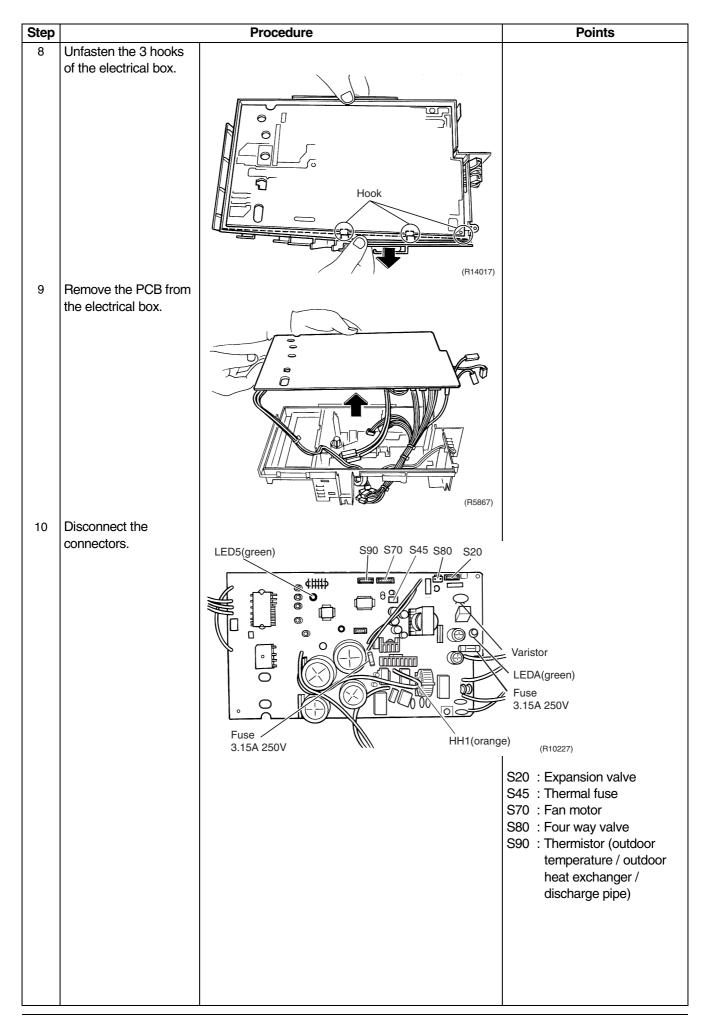
Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.



Si00-979 Removal of PCB



Removal of PCB Si00-979

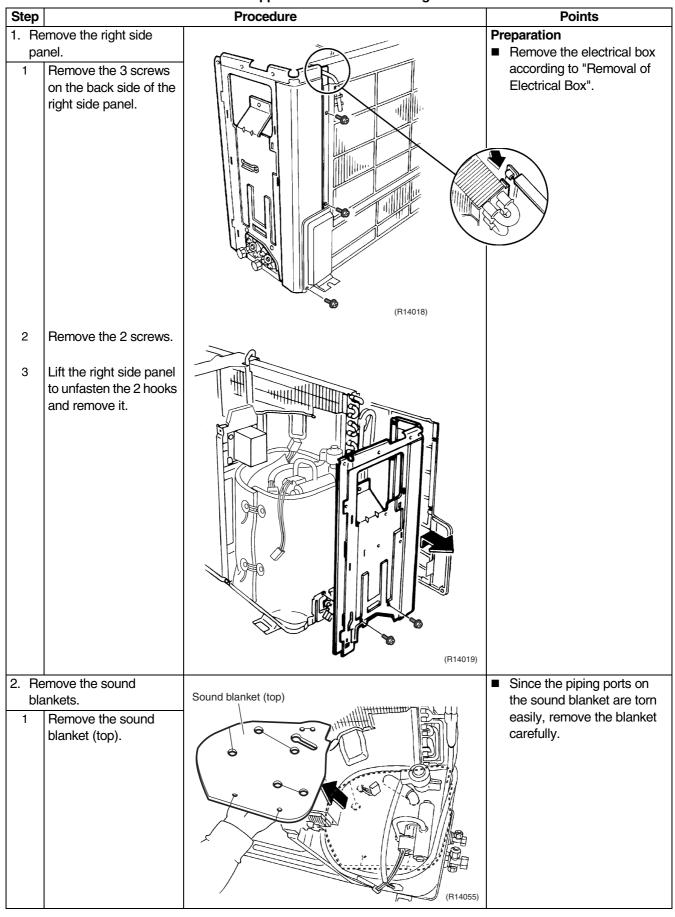


### 4. Removal of Sound Blankets

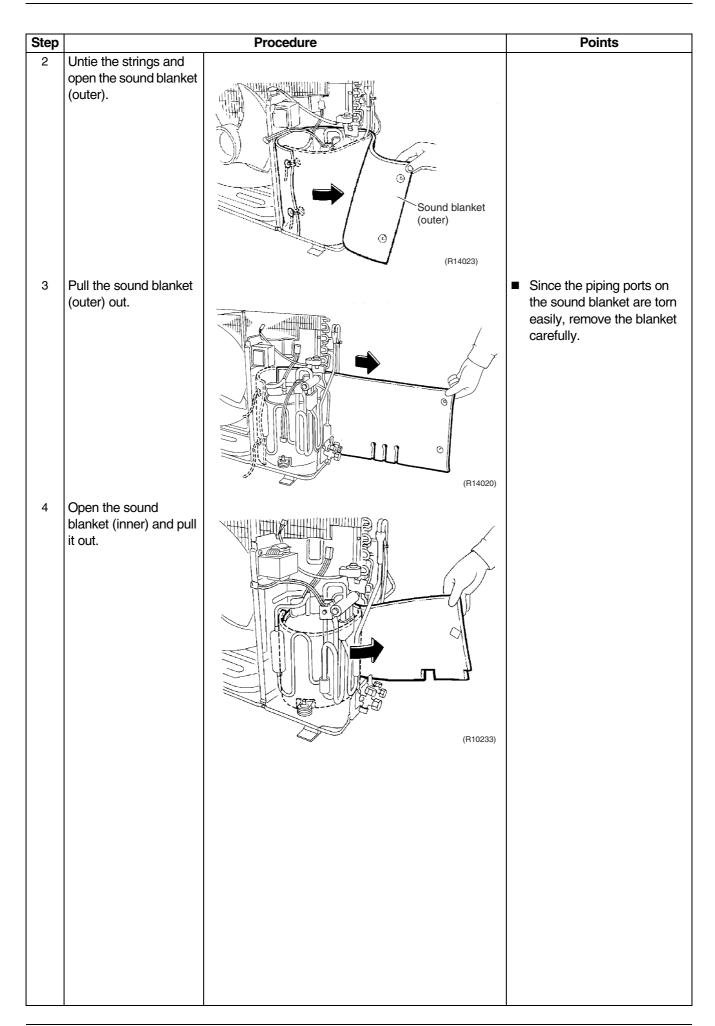
#### **Procedure**



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



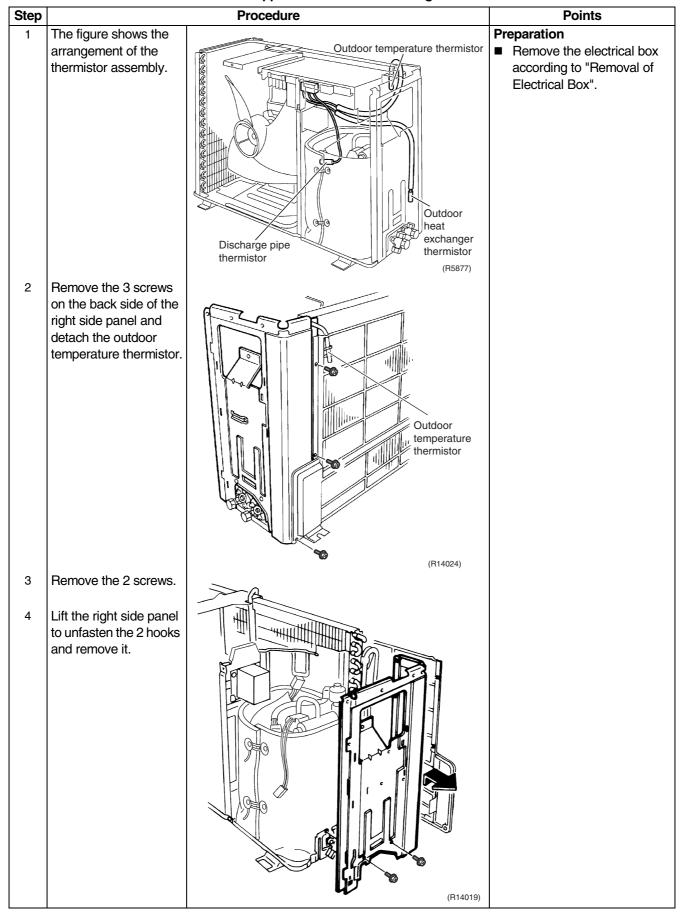
Removal of Sound Blankets Si00-979

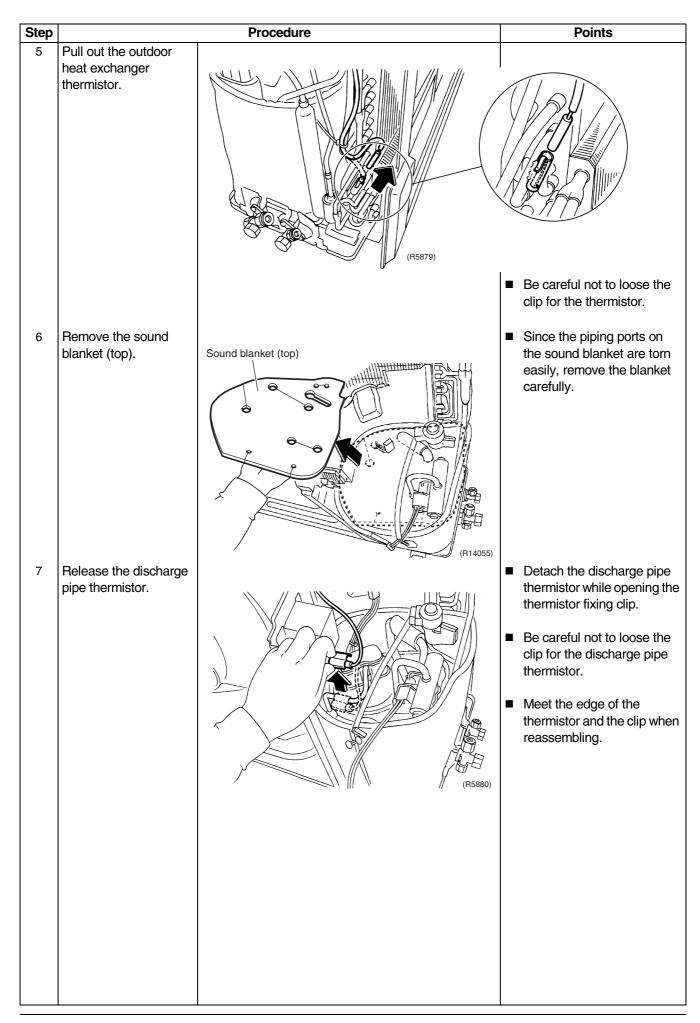


## 5. Removal of Thermistor Assembly

**Procedure** 

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



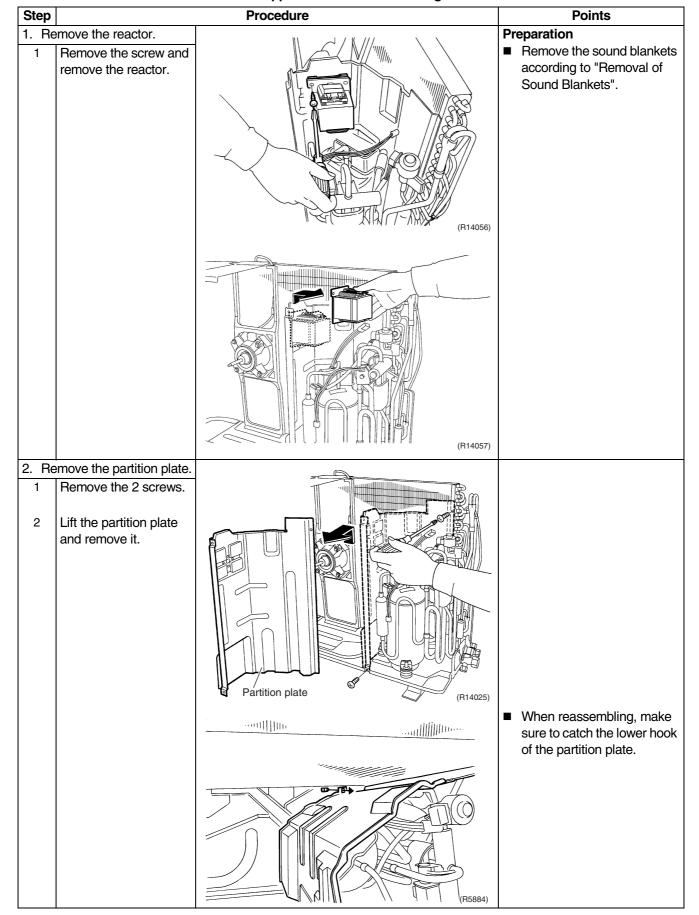


### 6. Removal of Reactor / Partition Plate

**Procedure** 

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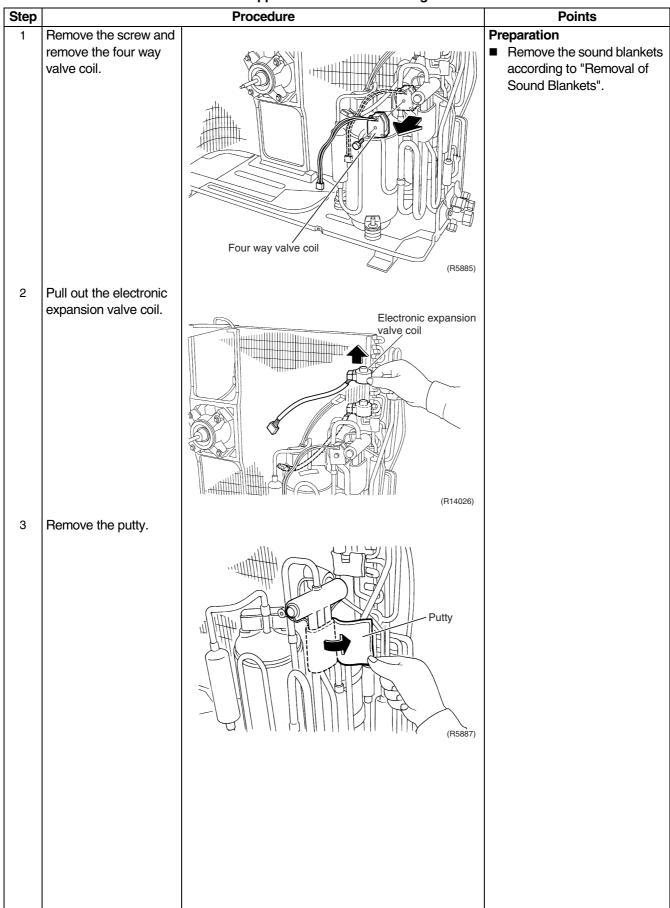
Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.



## 7. 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.



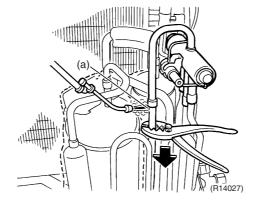
#### Step

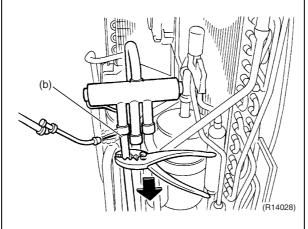
- Before working, make sure that the refrigerant gas is empty in the circuit.
- Be sure to apply nitrogen replacement when heating up the brazed part.
- Heat up the 4 brazed parts of the four way valve. Disconnect them in the order of (a) (b) (c) (d).

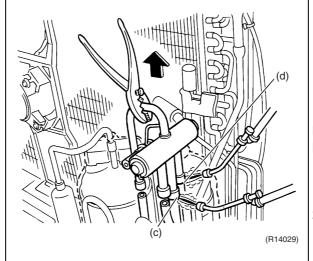
#### Note:

- 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**

- 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.

## 8. Removal of Electronic Expansion Valve

**Procedure** 

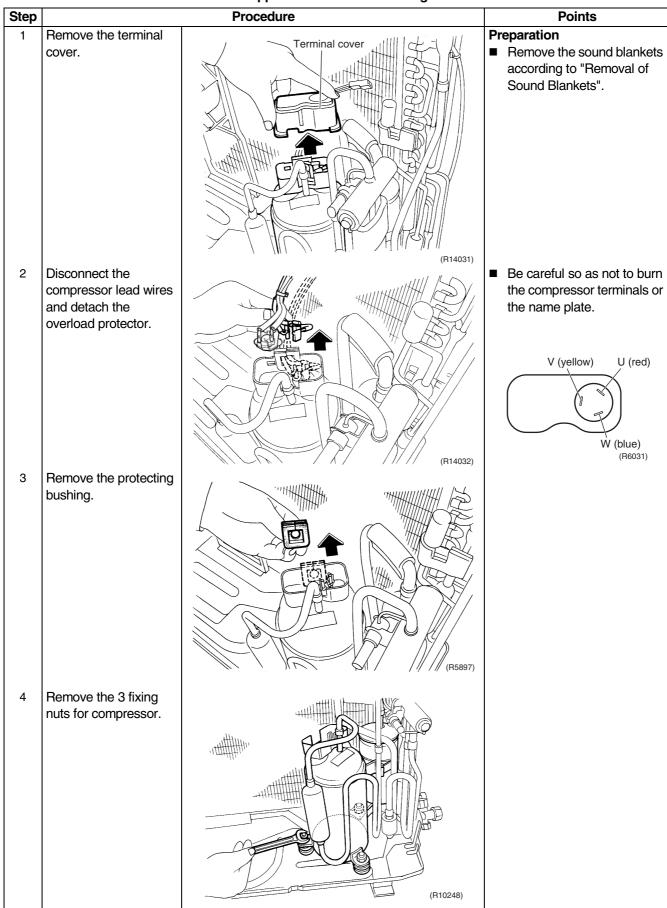
Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step		Procedure	Points
1	Remove the screw and remove the four way valve coil.	Four way valve coil (R5885)	Preparation ■ Remove the sound blankets according to "Removal of Sound Blankets".
2	Pull out the electronic expansion valve coil.	Electronic expansion valve coil  (R14026)	
3	Remove the putty.	(R5893)	Warning Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.
<ul> <li>Before working, make sure that the refrigerant gas is empty in the circuit.</li> <li>Be sure to apply nitrogen replacement when heating up the brazed part.</li> <li>Heat up the 2 brazed</li> </ul>		(b)	Warning If the refrigerant gas leaks during work, ventilate the room. (If the refrigerant gas is exposed to flames, toxic gas may be generated.)
	parts and disconnect them in the order of (a) (b).	(a) (R14030)	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.

## 9. Removal of Compressor

#### **Procedure**

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

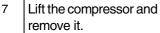


Removal of Compressor Si00-979

#### 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.
  - Heat up the brazed part of the discharge side and disconnect.

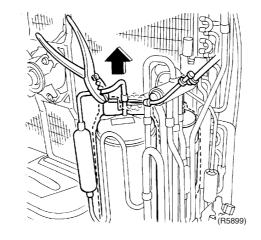
6 Heat up the brazed part of the suction side and disconnect.

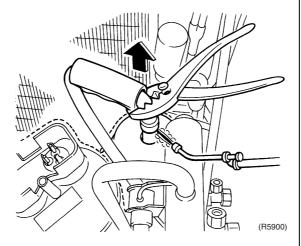


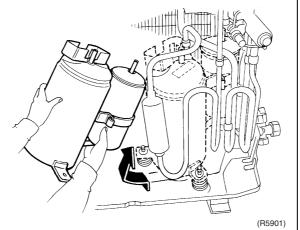
#### Note:

- 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.

#### 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.)

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.

#### **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.) 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
02 / 2013	Si00-979	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

#### 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/global\_ac/

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