



### SERVICE MANUAL

# 4.0/4.5/5.0/6.0 kW Class 18000 Btu/h Class



Inverter

Pair Type



# Service Manual Removal Procedure

# **Outdoor Unit**

● Cooling Only RKS18JV2S

\_\_\_\_\_

RKS40MVLT RKS50MVLT

RKS50J2V1B9 RKS60F3V1B9

RKS50GVM4 RKS60GVM4

RKS50GVMV RKS60GVMV

RKS50HVM RKS60HVM

RKS50JAVLT RKS60JAVLT

RKS50JVMG RKS60JVMG Heat Pump

RXS40MVLT RXS50MVLT

**RXS45LAVMA** 

RXS50JAVLT RXS60JAVLT

ARXS50G3V1B RX50G2V1B9 RX60G2V1B9 RX50G3V1B RX60G3V1B

RXG50K3V1B RXG50L2V1B

RXS50J2V1B9 RXS50K2V1B RXS60F3V1B9 RXS60F4V1B

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	he illustrations may be slightly different depending on the model.	



• The illustrations are for heat pump models as representative.

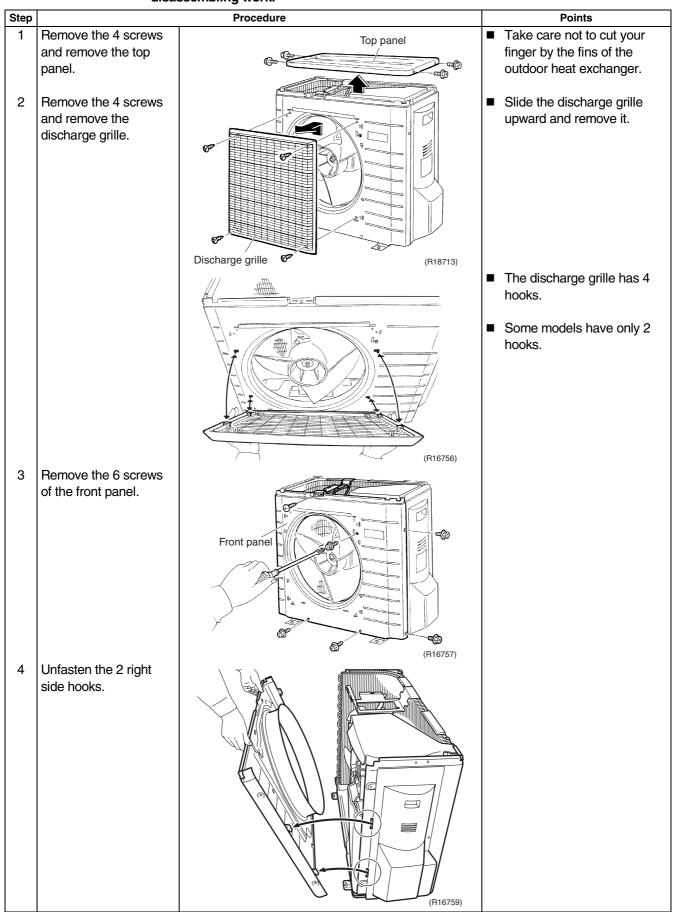
Outer Panels Si001274EC

### 1. Outer Panels

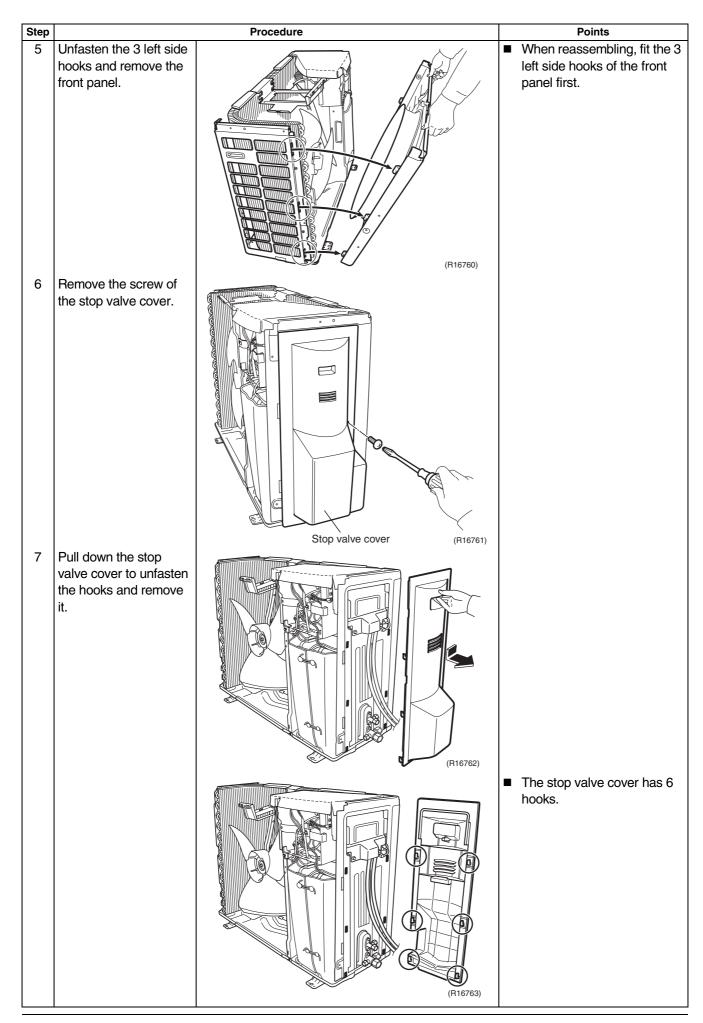


Warning

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



Si001274EC Outer Panels



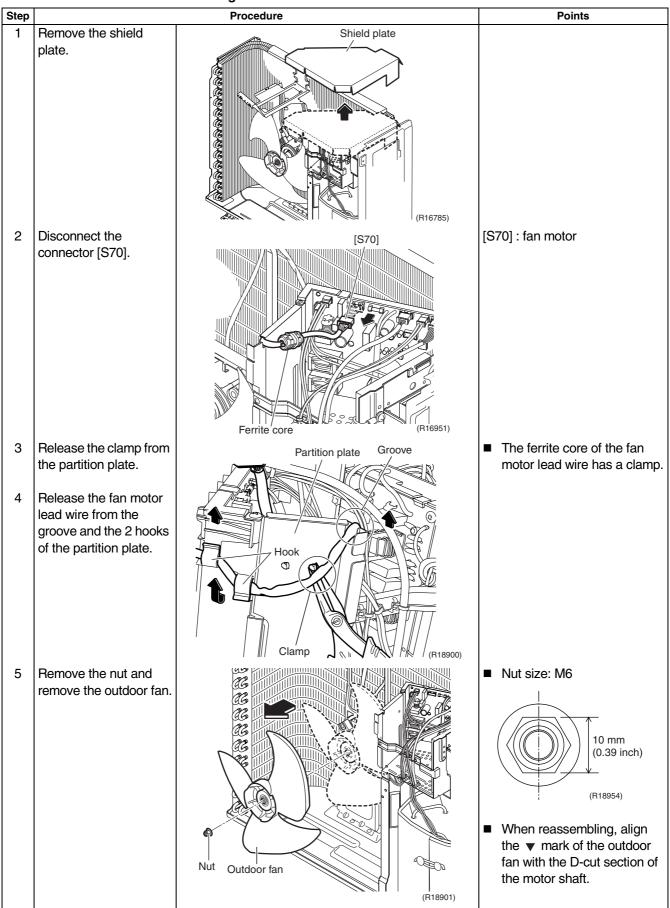
Outdoor Fan / Fan Motor Si001274EC

## 2. Outdoor Fan / Fan Motor

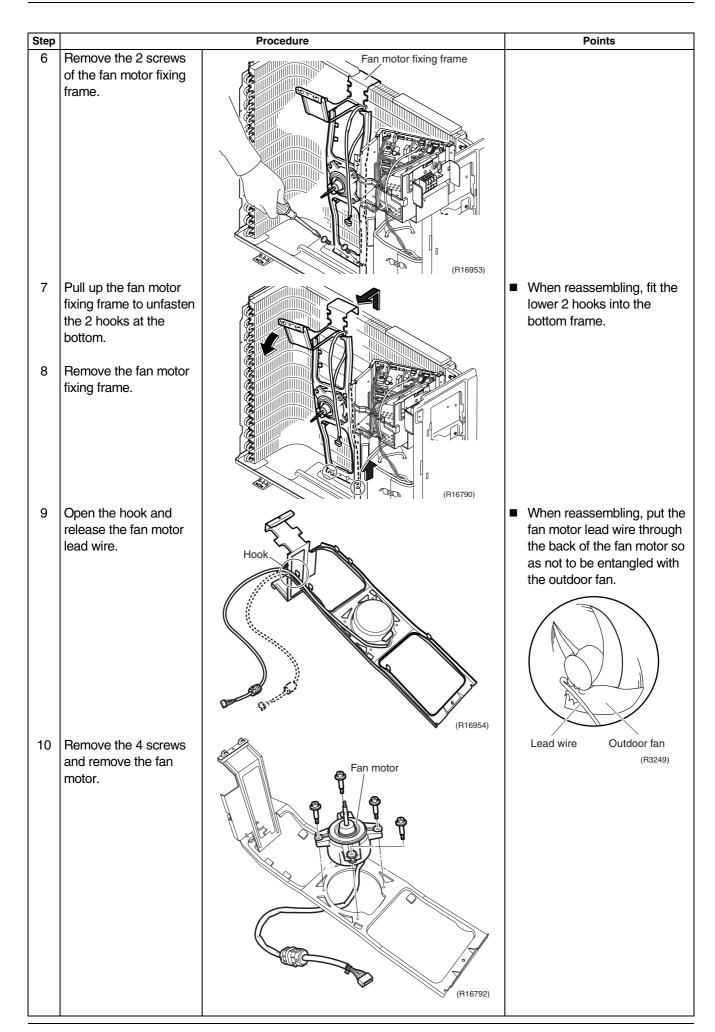


Warning

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Si001274EC Outdoor Fan / Fan Motor



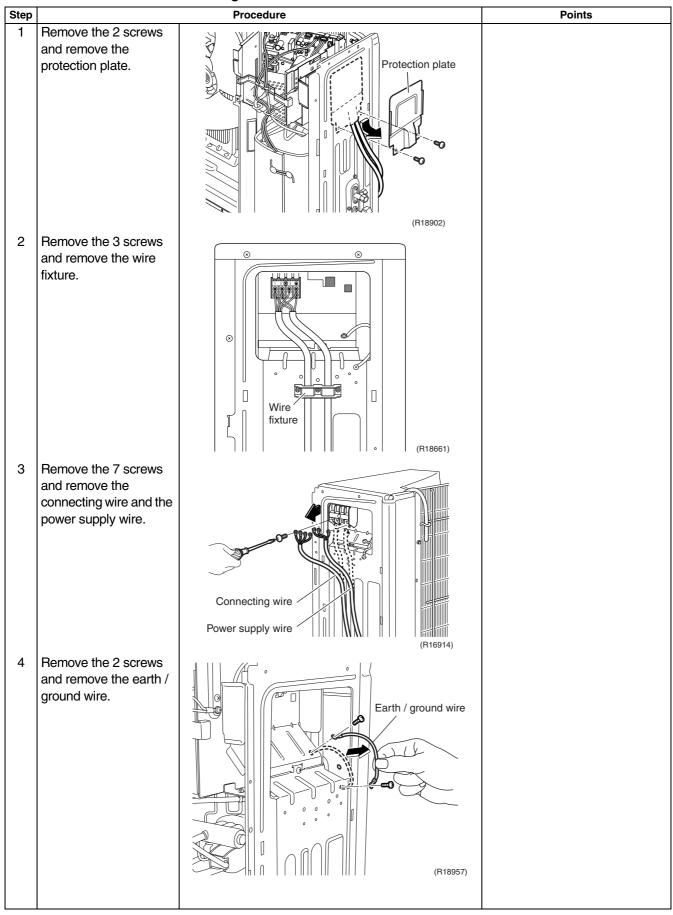
Electrical Box Si001274EC

## 3. Electrical Box

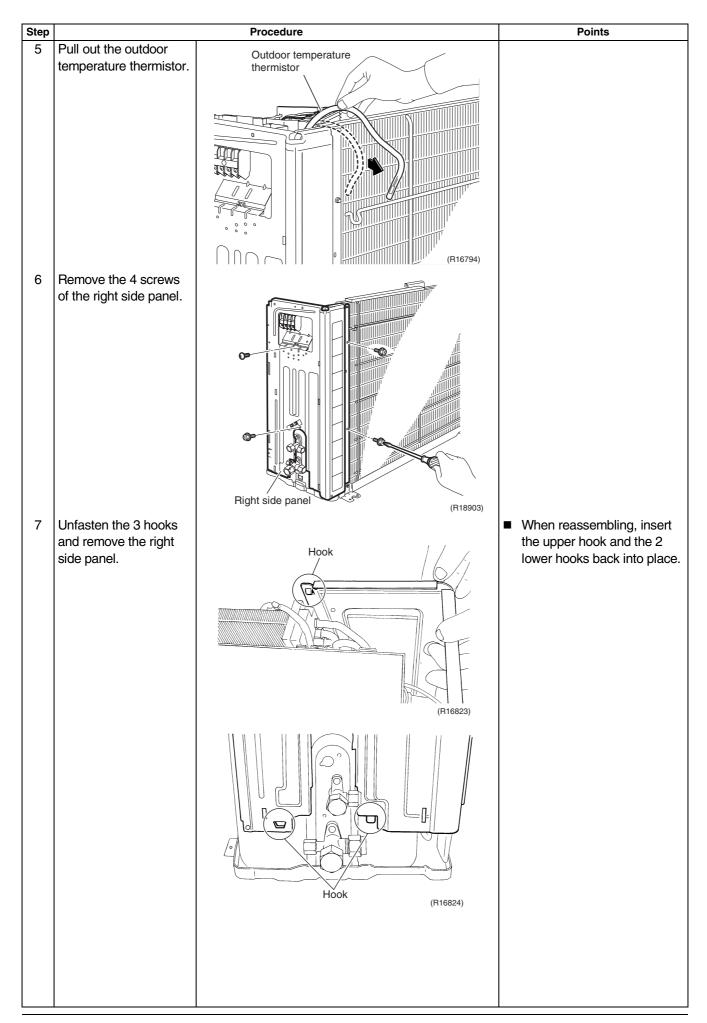


Warning

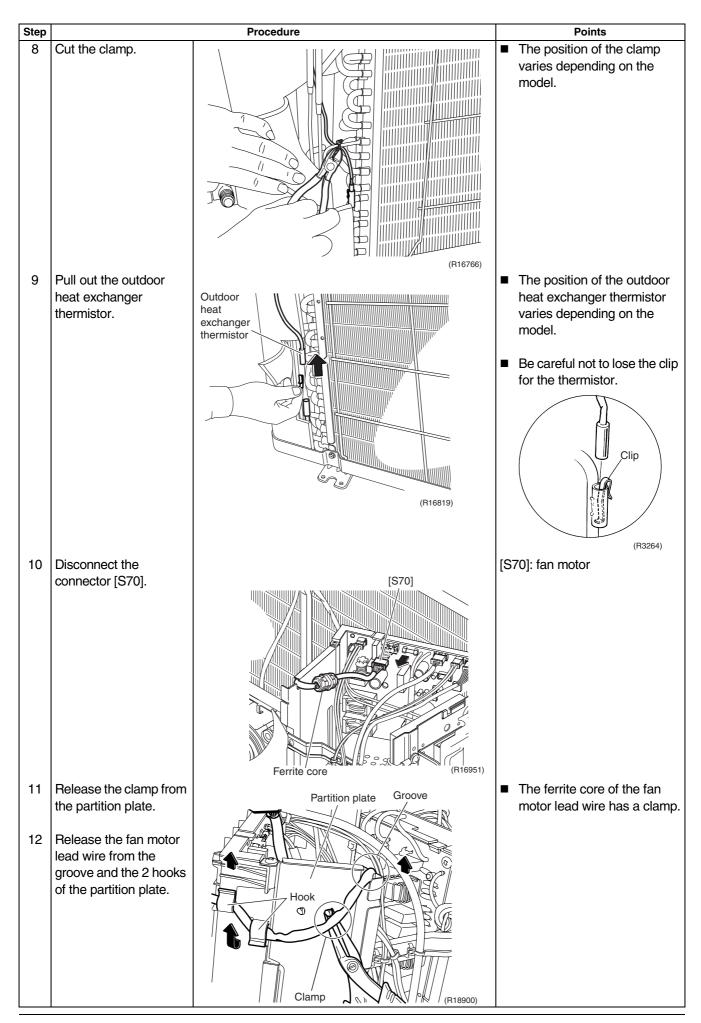
• Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.



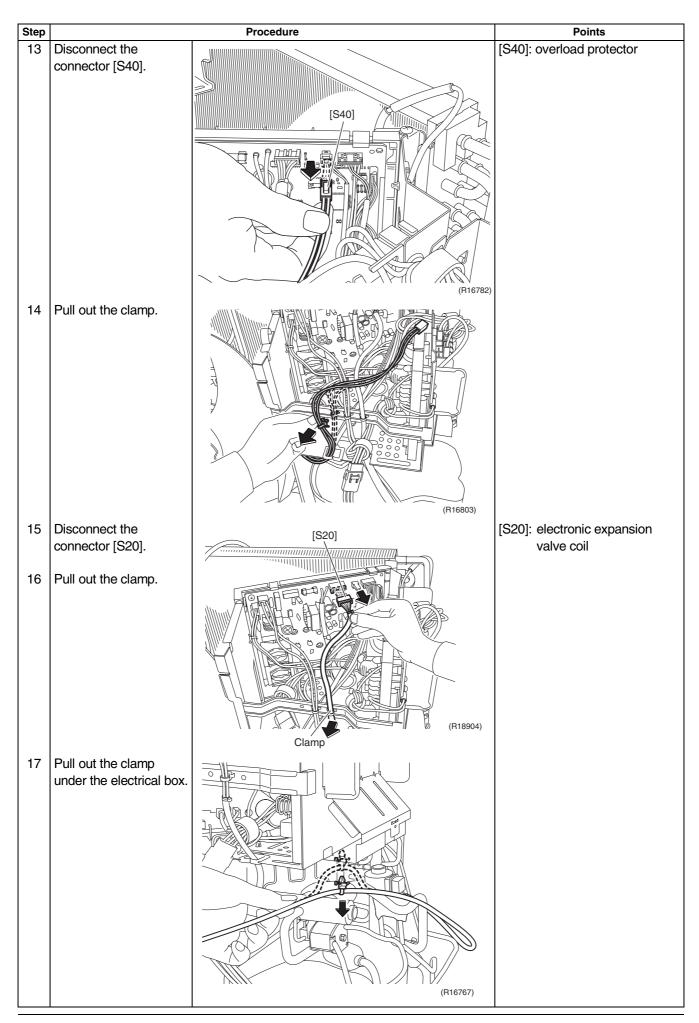
Si001274EC Electrical Box



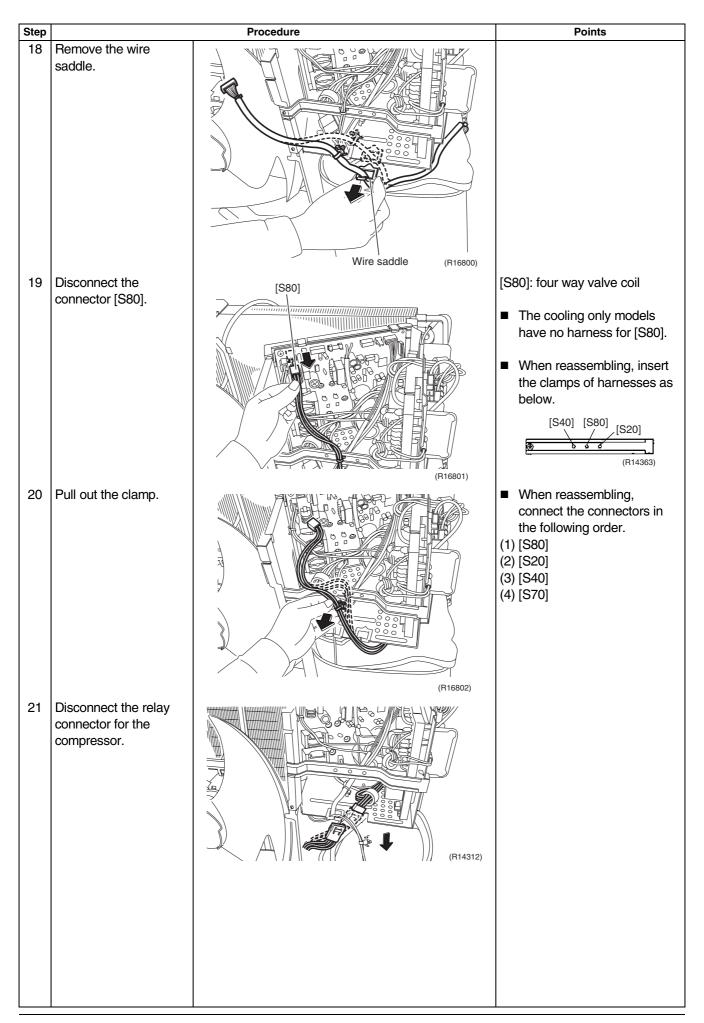
Electrical Box Si001274EC



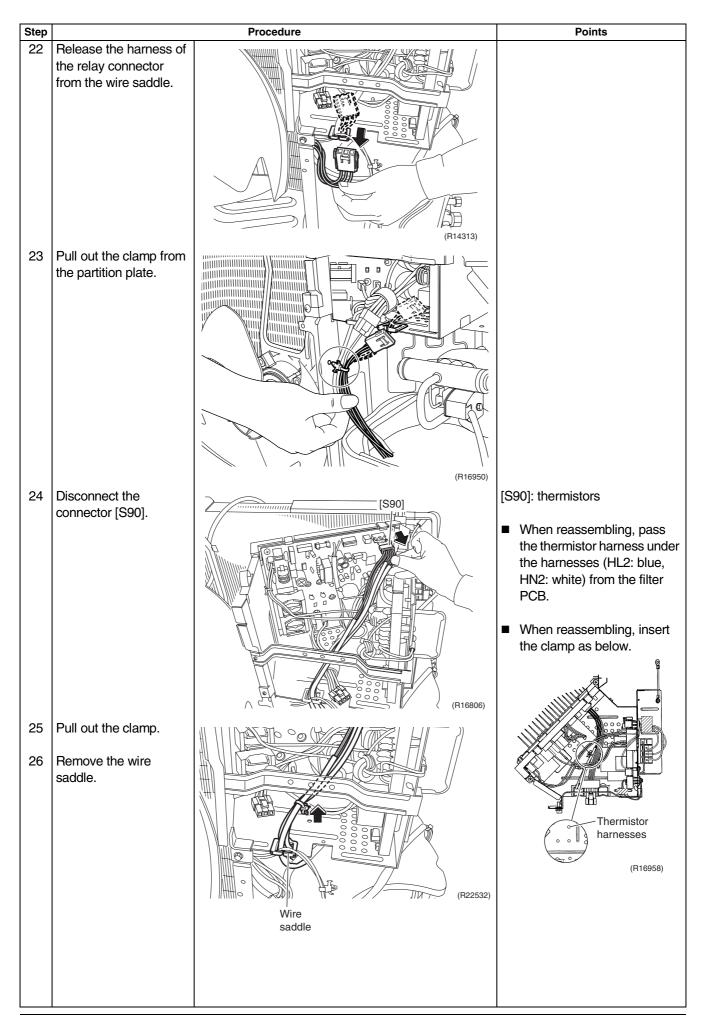
Si001274EC Electrical Box



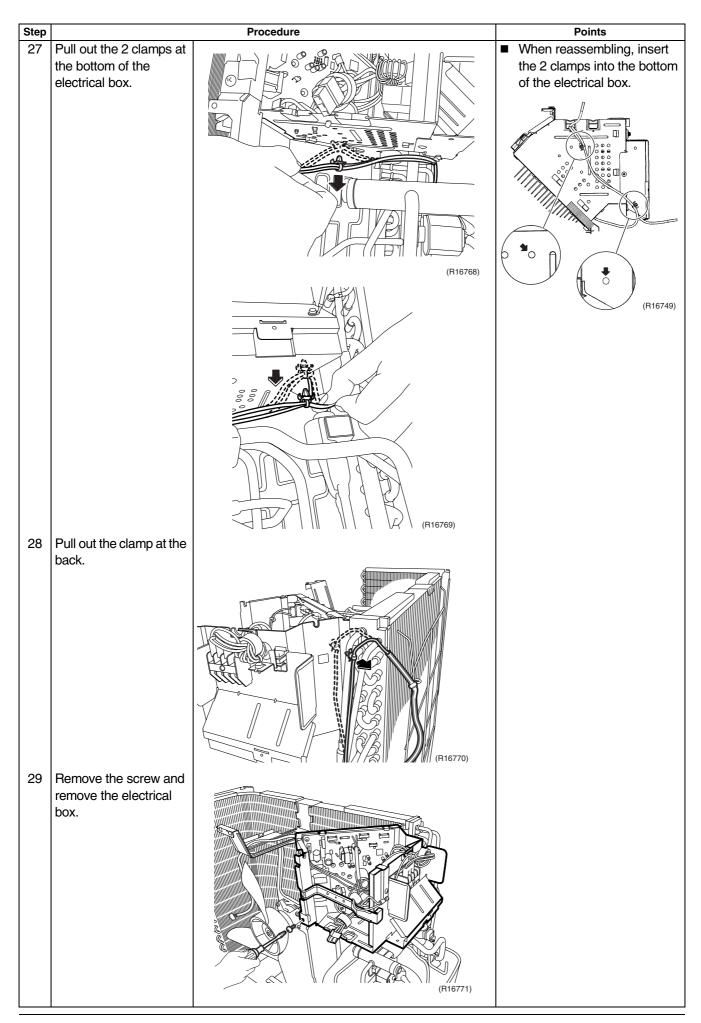
Electrical Box Si001274EC



Si001274EC Electrical Box



Electrical Box Si001274EC



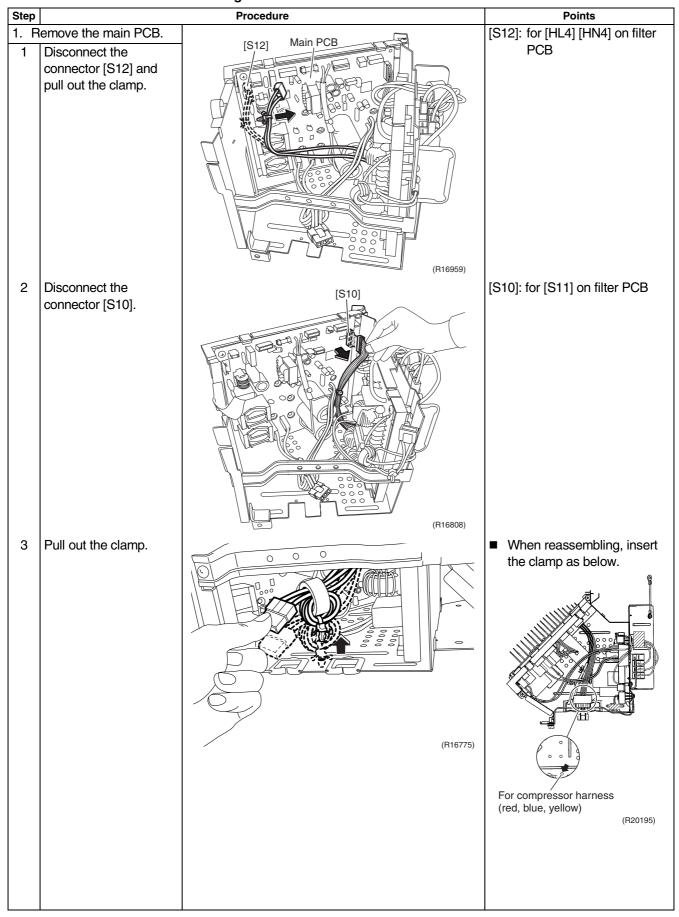
Si001274EC PCBs

## 4. PCBs

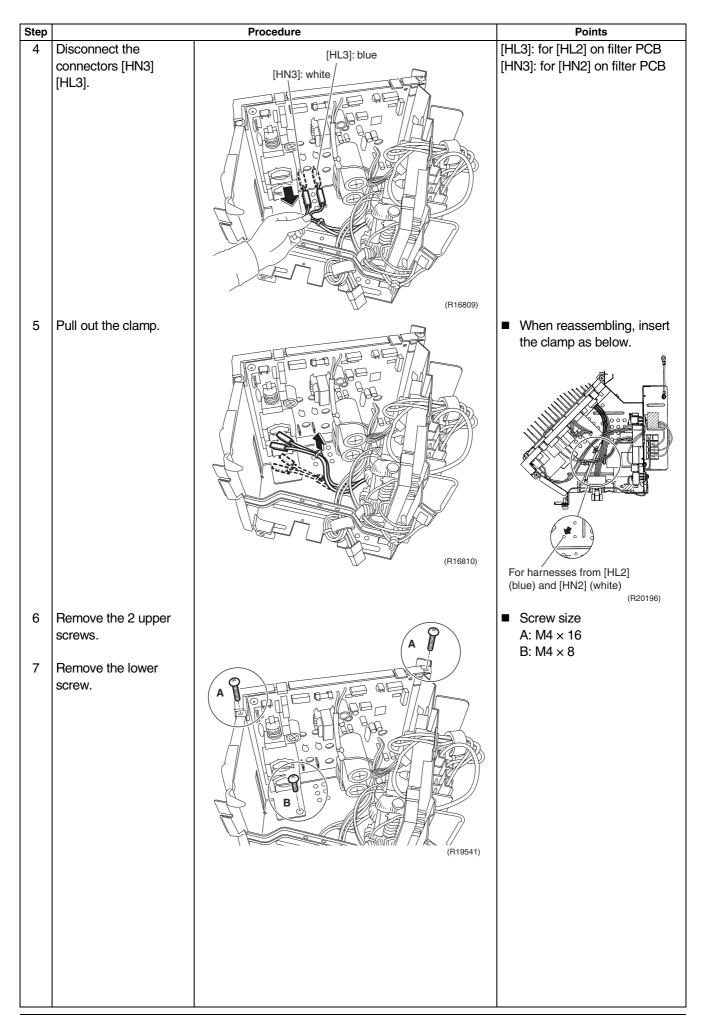


Warning

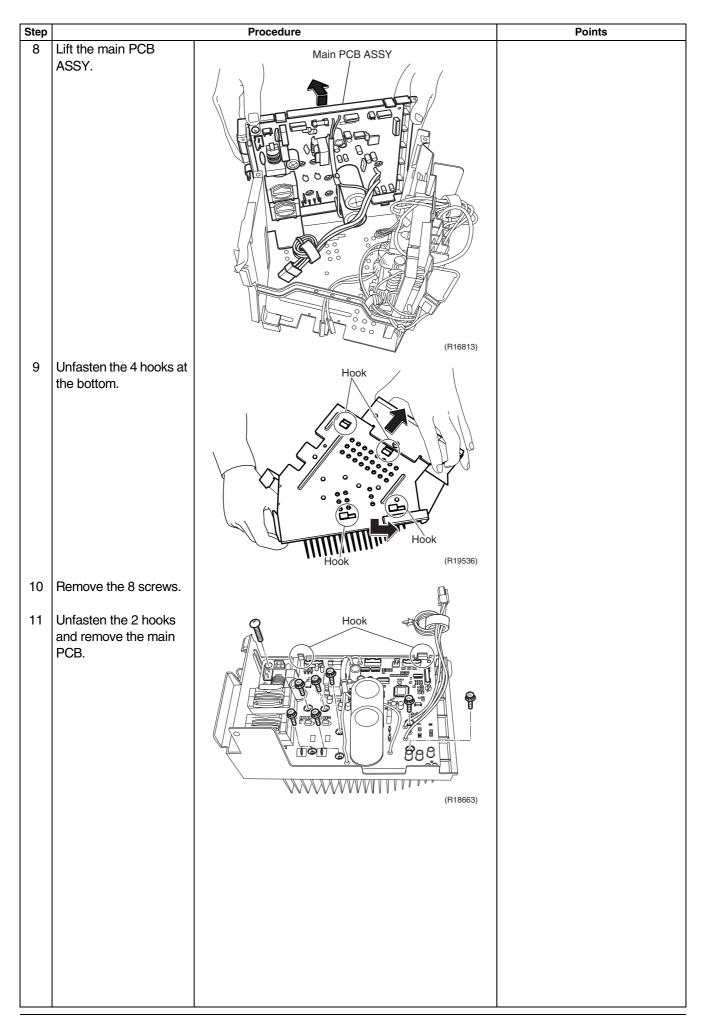
• Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.



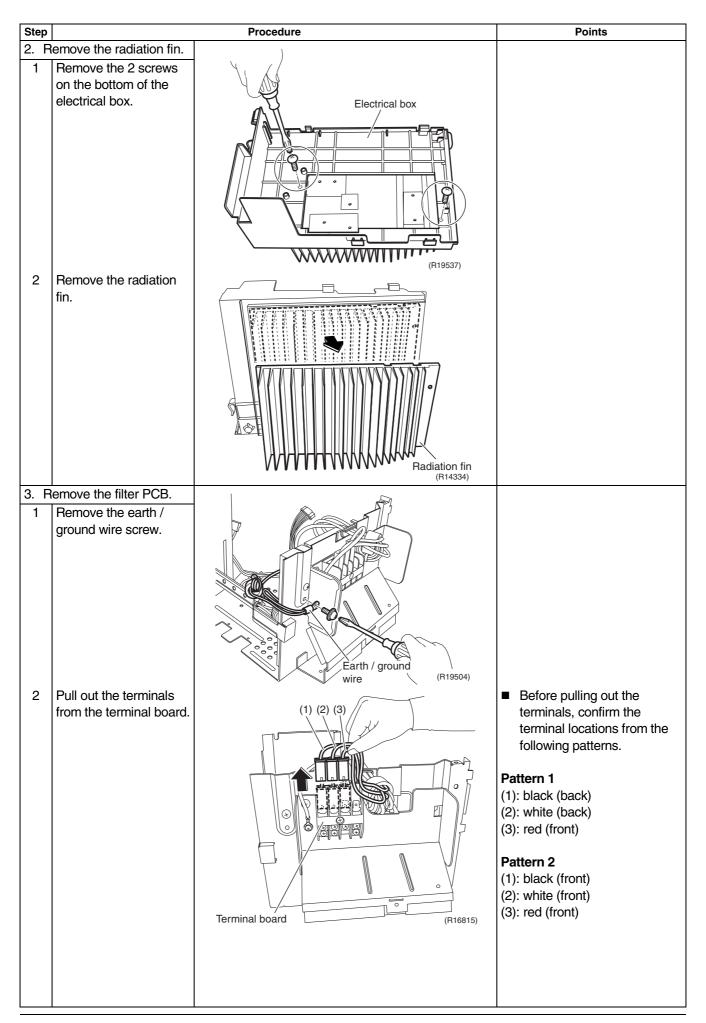
PCBs Si001274EC



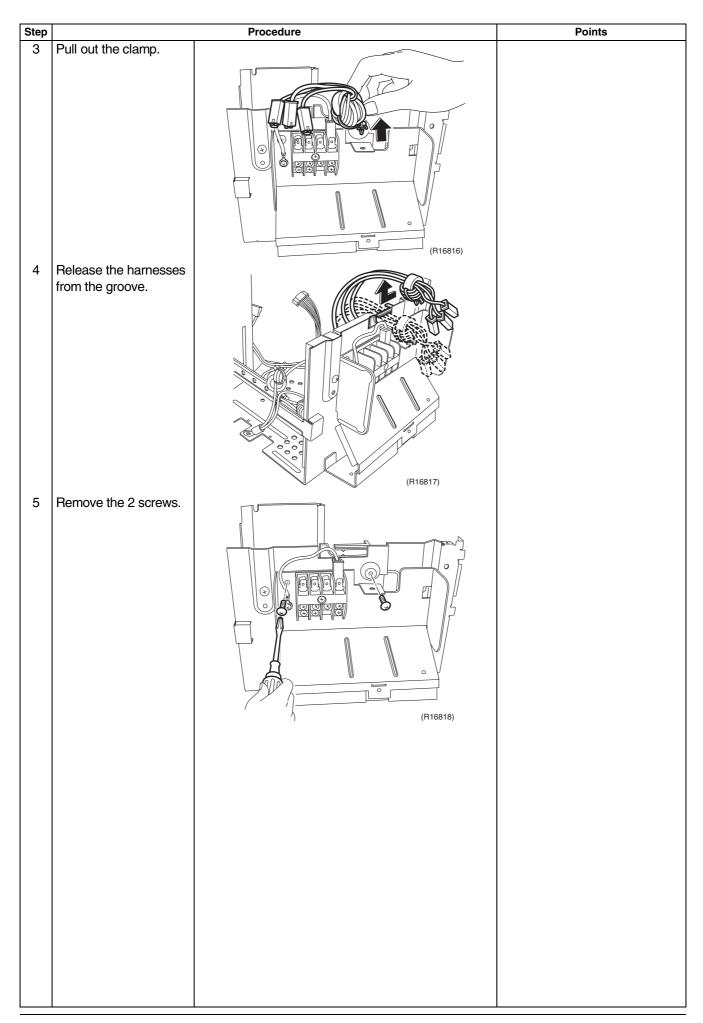
Si001274EC PCBs



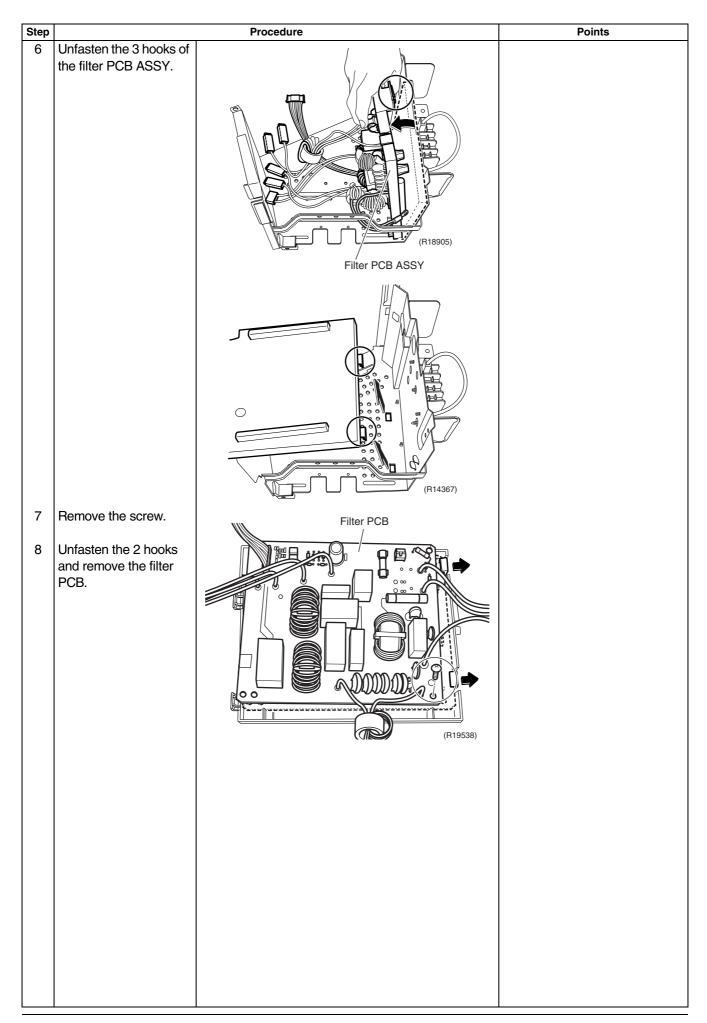
PCBs Si001274EC



Si001274EC PCBs



PCBs Si001274EC

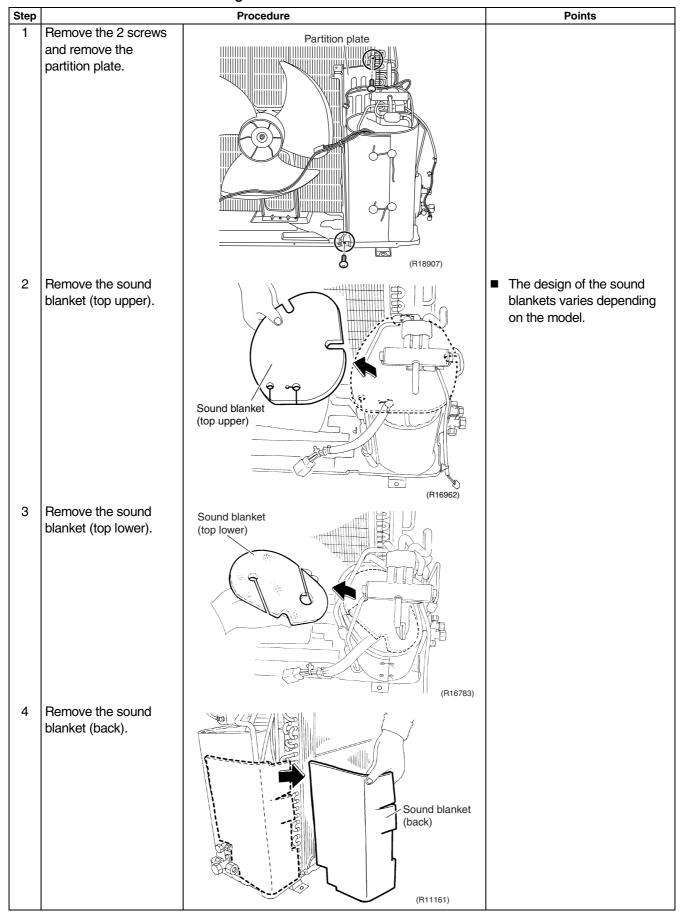


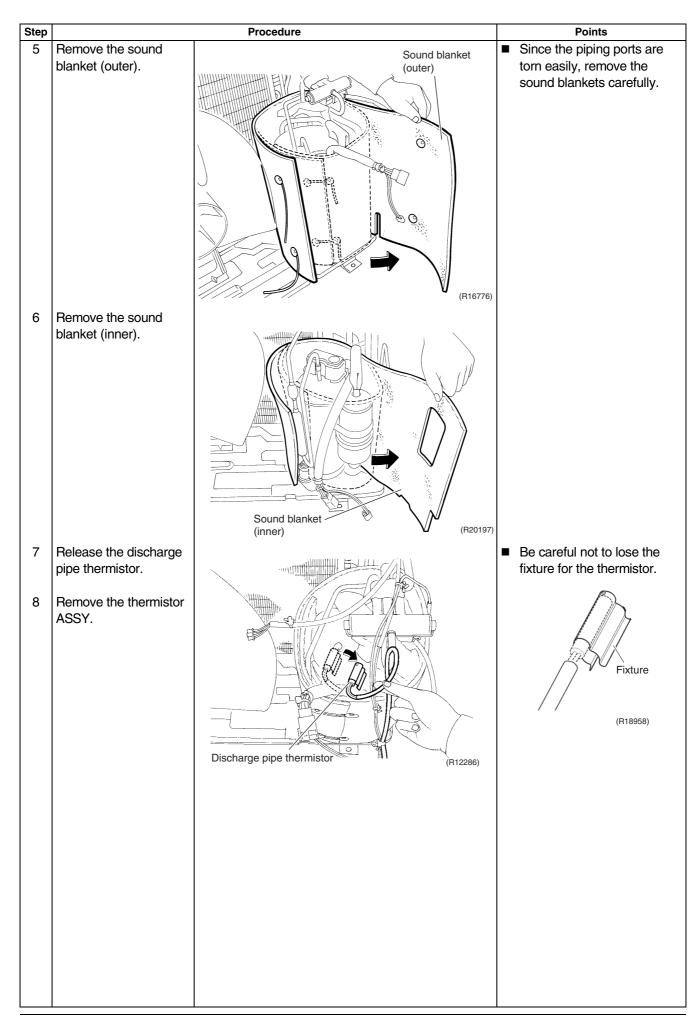
# 5. Sound Blankets / Thermistors



Warning

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





# 6. Four Way Valve / Electronic Expansion 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.)

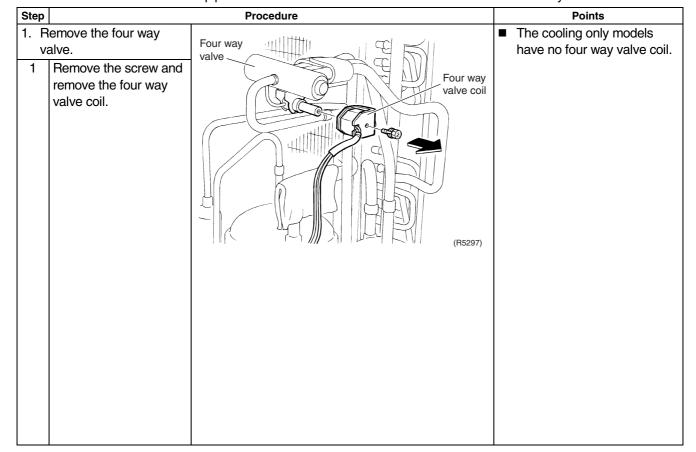


### **∕ I**∖ Caution

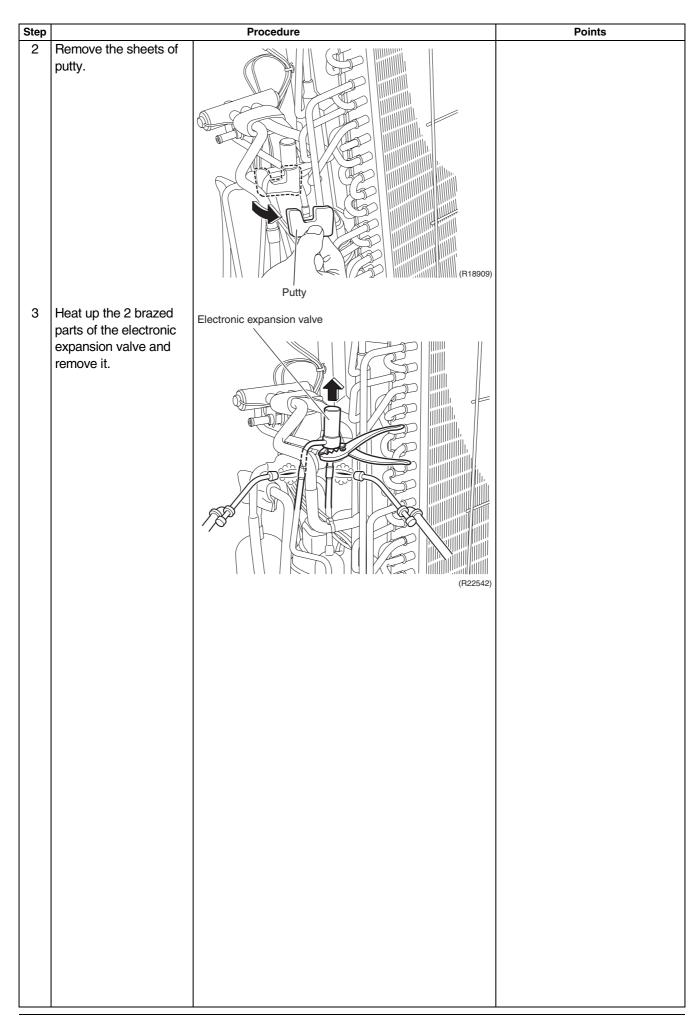
- From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- Cautions for restoration
  - 1. Restore the piping by non-oxidation brazing.
  - 2. It is required to prevent the carbonization of the oil inside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



- 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
- 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
2	Remove the putty. Heat	Putty	
3	up the brazed part of the four way valve and disconnect.  Heat up every brazed	(R18908)	
	parts in turn and remove the four way valve.	(R19542)	
	emove the electronic xpansion valve.	Electronic expansion valve coil	
1	Pull out the electronic expansion valve coil.	(R16751)	



Compressor Si001274EC

## 7. Compressor



Warning

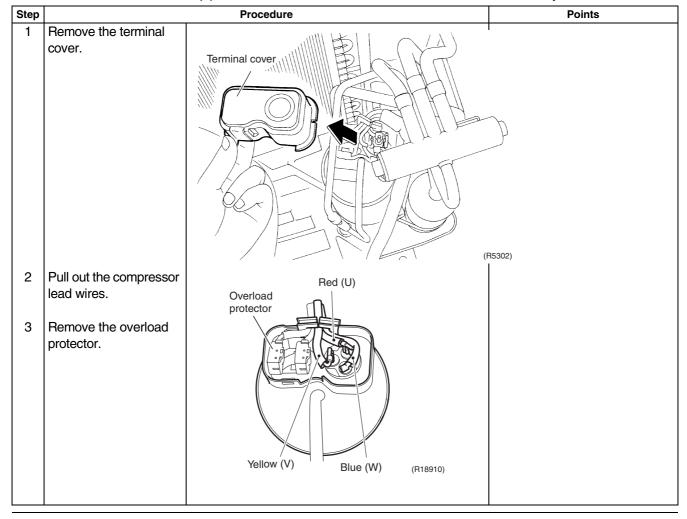
- Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.
- Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.
- If the refrigerant gas leaks during work, ventilate the room. (If the refrigerant 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.



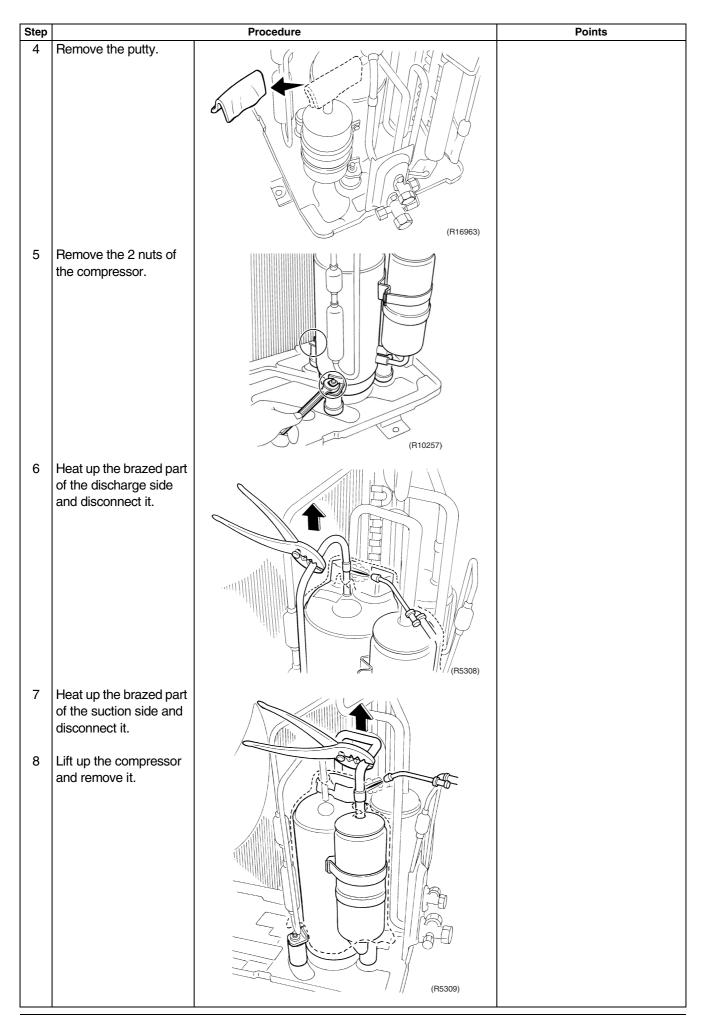
- From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- · Restore the piping by non-oxidation brazing.



- 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.
- 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.



Si001274EC Compressor



# **Revision History**

Month / Year	Version	Revised contents
04 / 2013	Si001274	First edition
11 / 2013	Si001274EA	Model addition: RKS50/60GVM4, RKS50/60GVMV
03 / 2014	Si001274EB	Model addition: RXG50L2V1B
09 / 2015	Si001274EC	Model addition: RKS50J2V1B9, RKS60F3V1B9, RX50/60G2V1B9, RXS50J2V1B9, RXS60F3V1B9



- 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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