



SERVICE MANUAL

5.0/6.0 kW Class



Inverter

Pair Type



Service Manual Removal Procedure

Outdoor Unit

●Cooling Only RKS50FVMV RKS60FVMV

●Heat Pump RXS50FVMV RXS60FVMV

RXS50GVMV RXS60GVMV

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

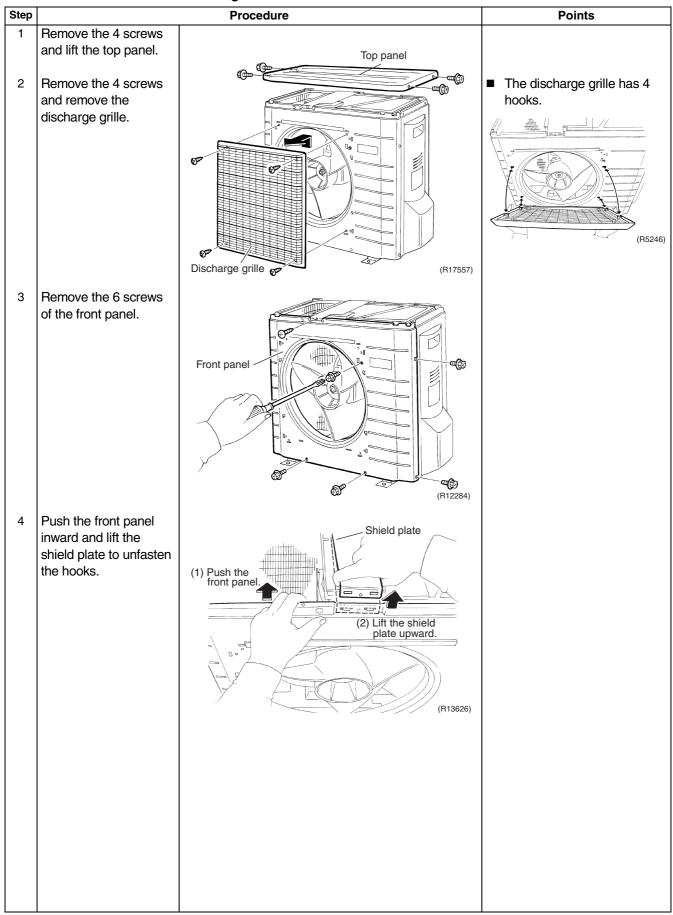
Outer Panels Si001269EA

1. Outer Panels

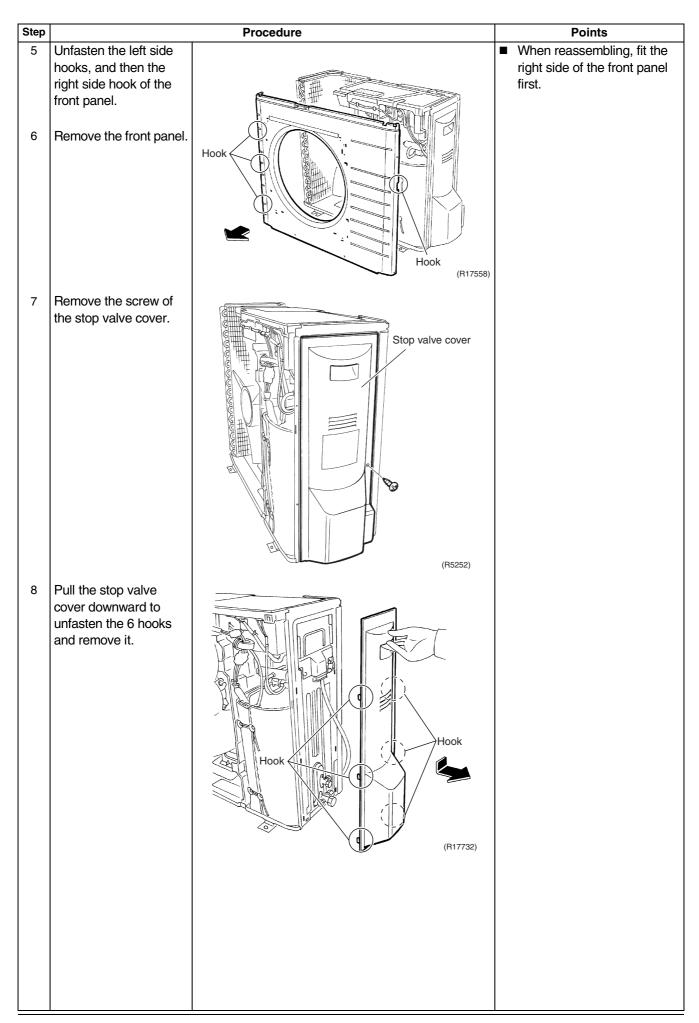


Warning

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



Si001269EA Outer Panels



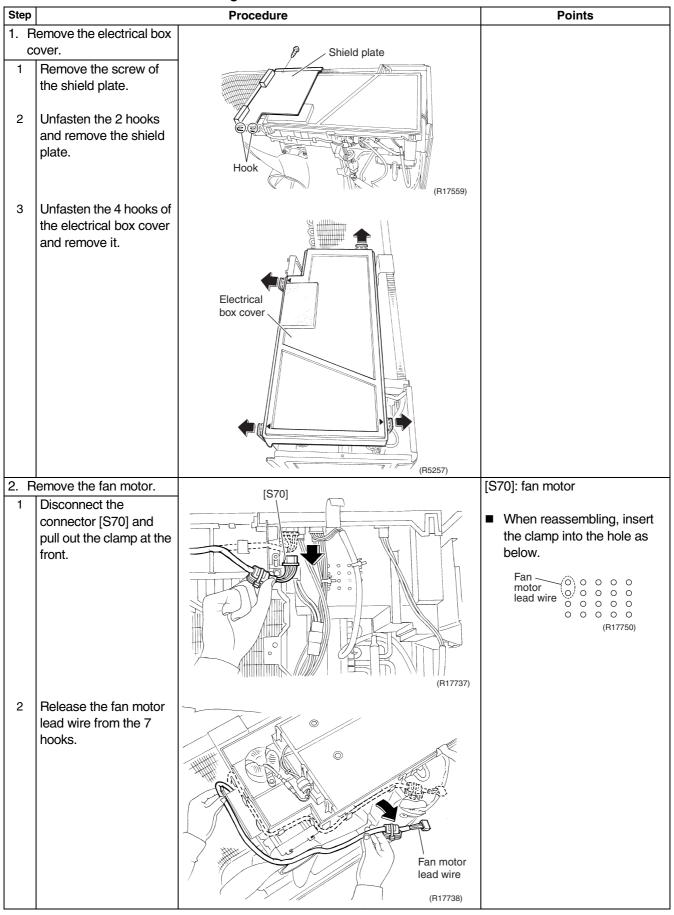
Outdoor Fan / Fan Motor Si001269EA

2. Outdoor Fan / Fan Motor

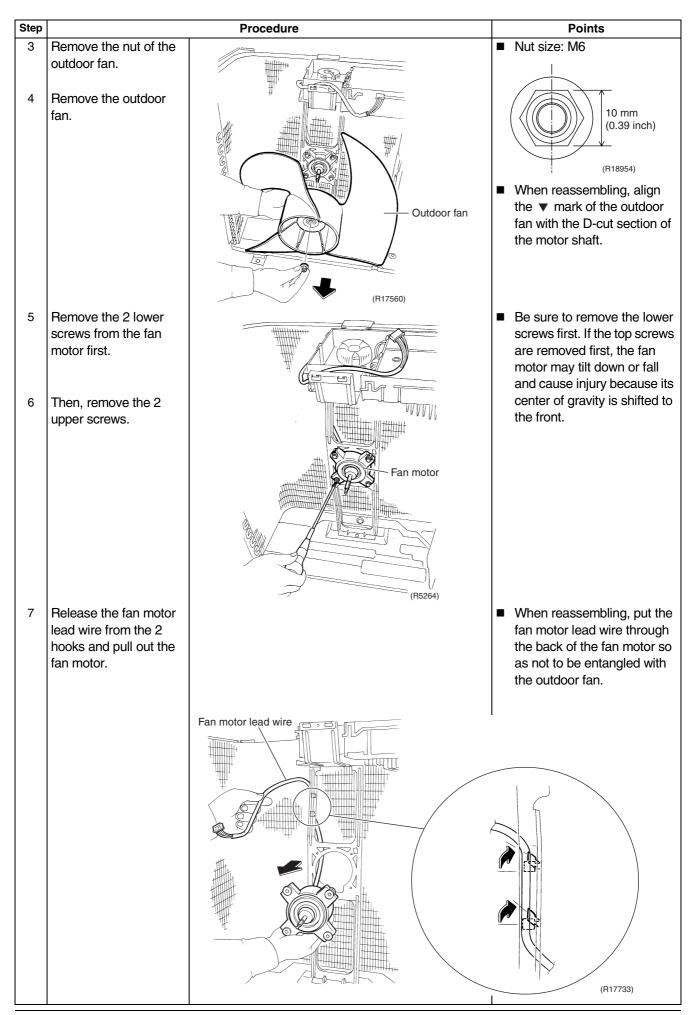


Warning

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



Si001269EA Outdoor Fan / Fan Motor



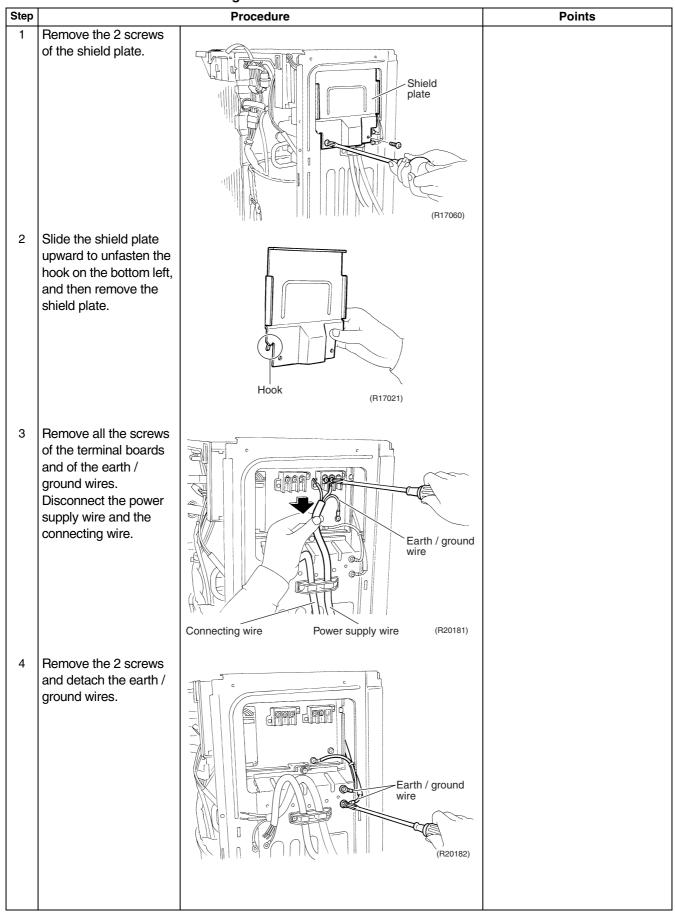
Electrical Box Si001269EA

3. Electrical Box

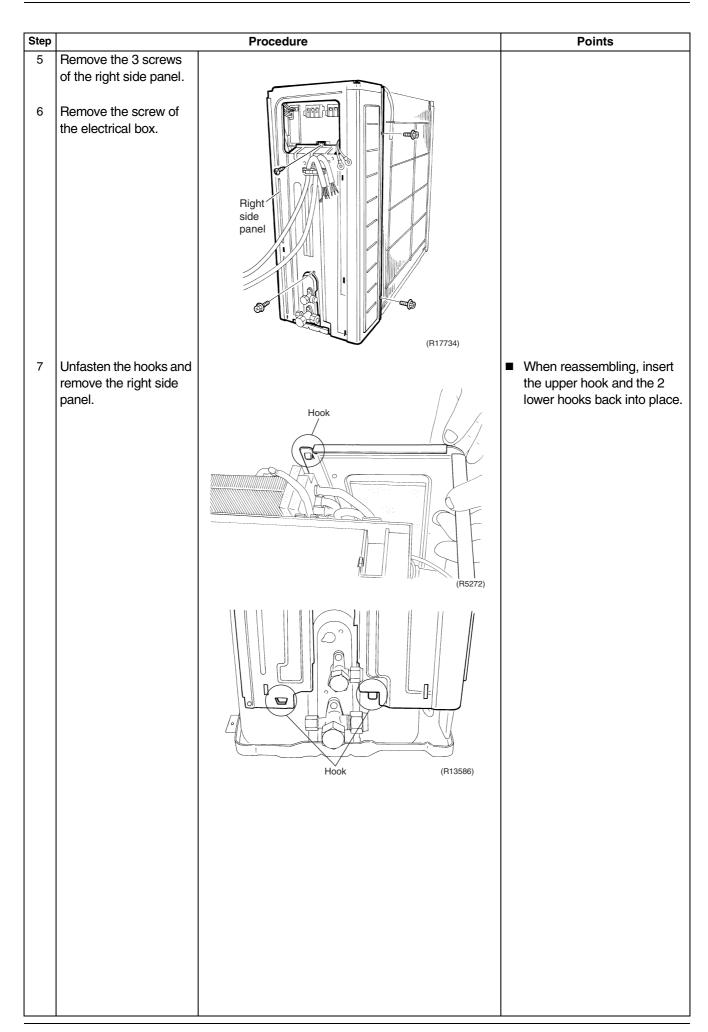


Warning

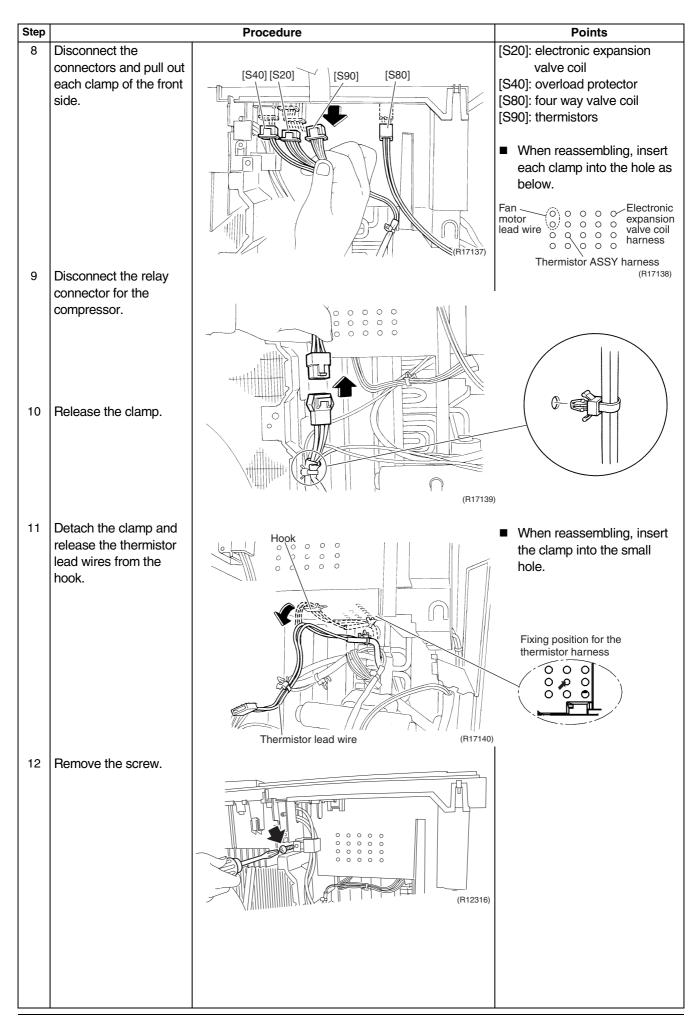
• Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.



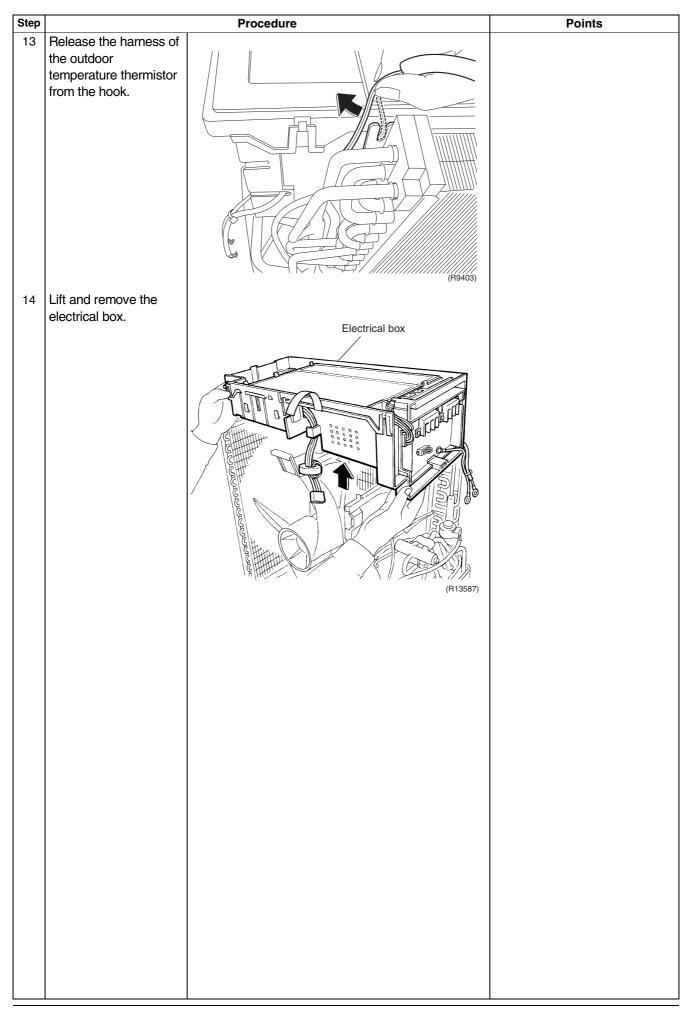
Si001269EA Electrical Box



Electrical Box Si001269EA



Si001269EA Electrical Box



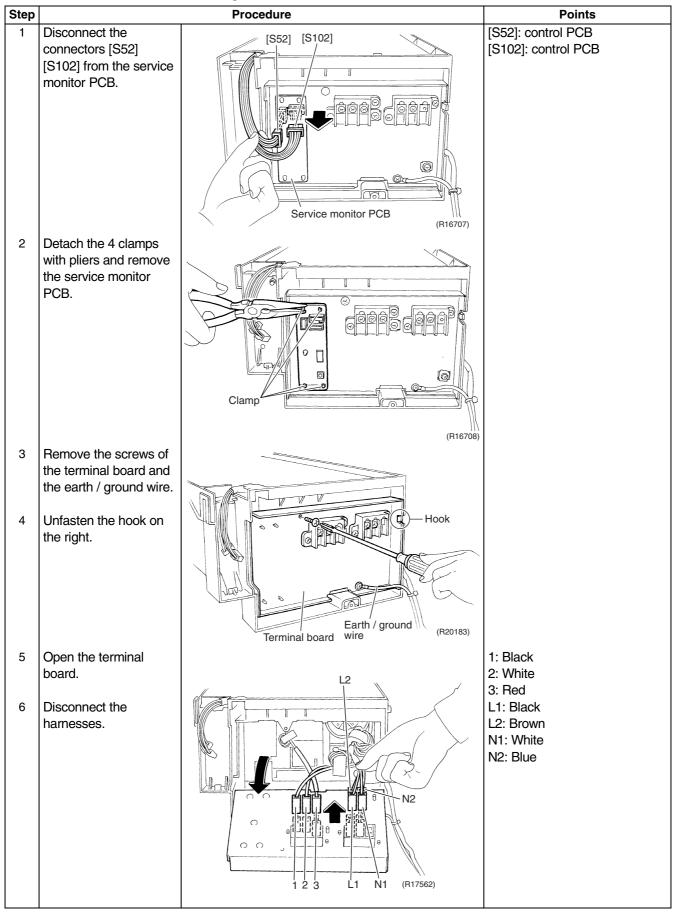
PCBs Si001269EA

4. PCBs

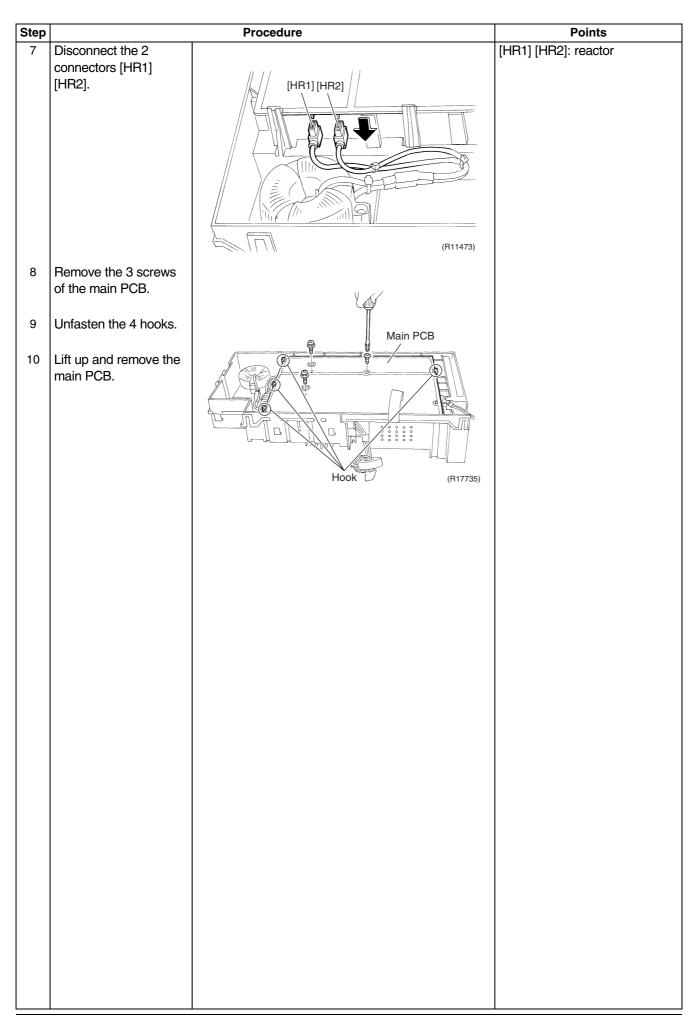


Warning

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



Si001269EA PCBs

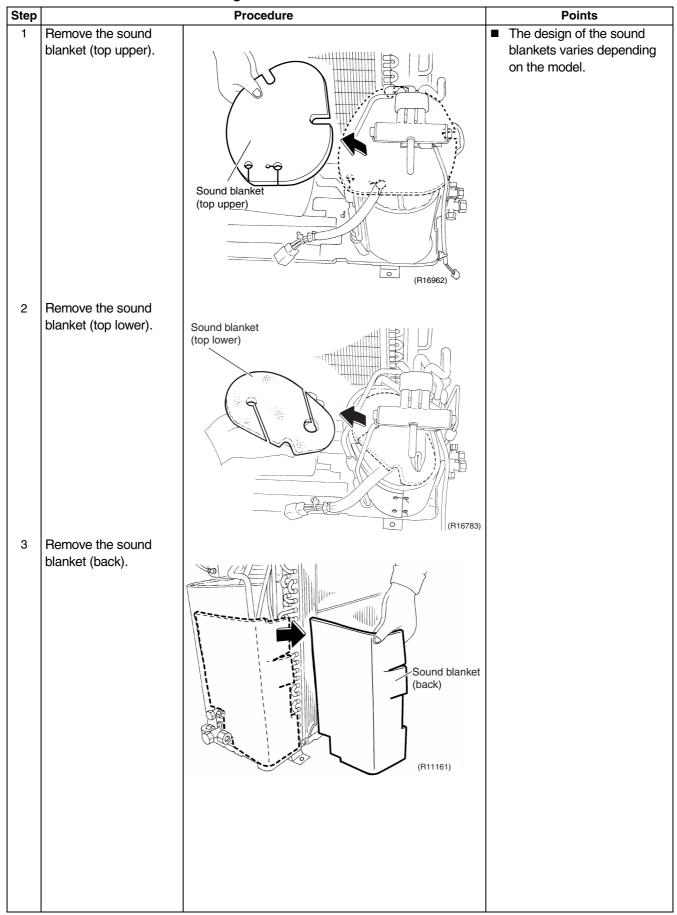


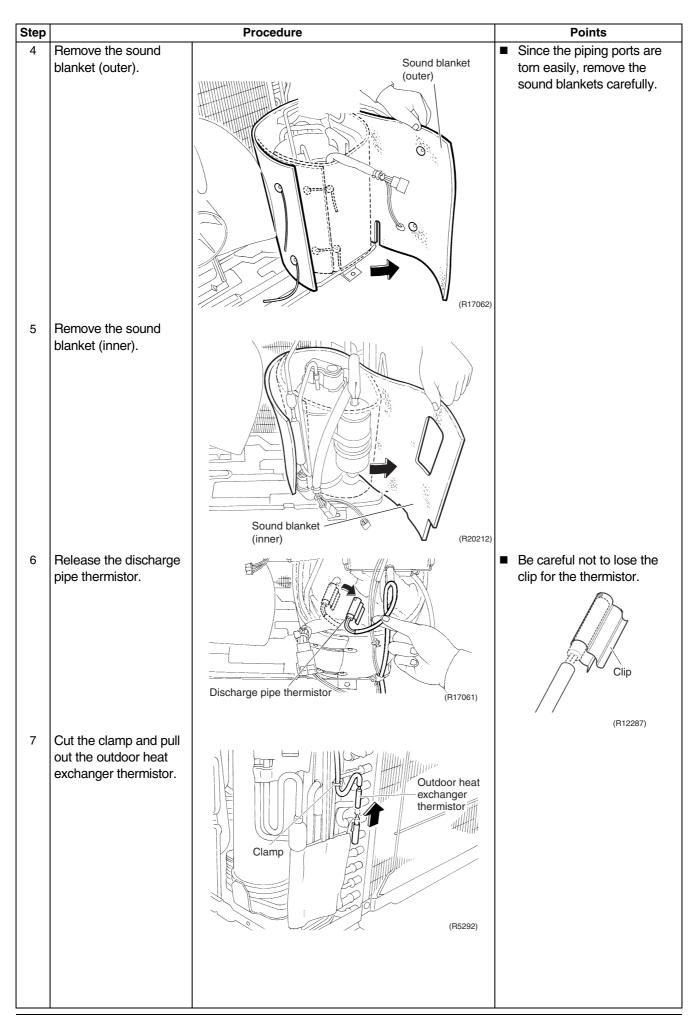
5. Sound Blankets / Thermistors



Warning

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





Four Way Valve Si001269EA

6. Four Way 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.)

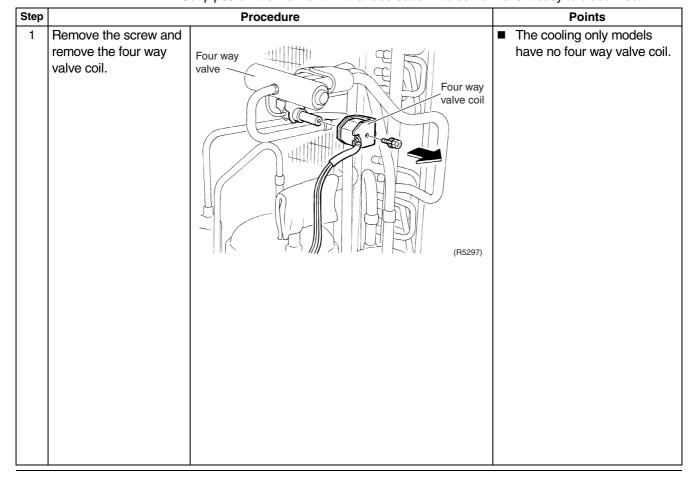


Caution

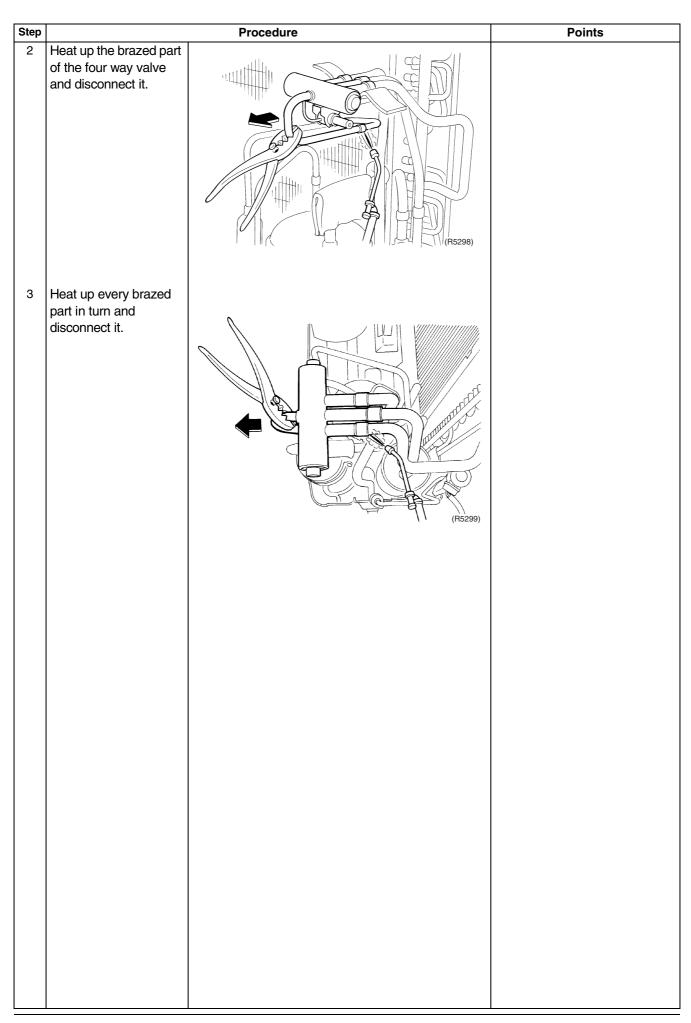
- From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- · Cautions for restoration
 - 1. Restore the piping by non-oxidation brazing.
 - 2. It is required to prevent the carbonization of the oil inside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



Si001269EA Four Way Valve



7. Electronic Expansion Valve



Warning

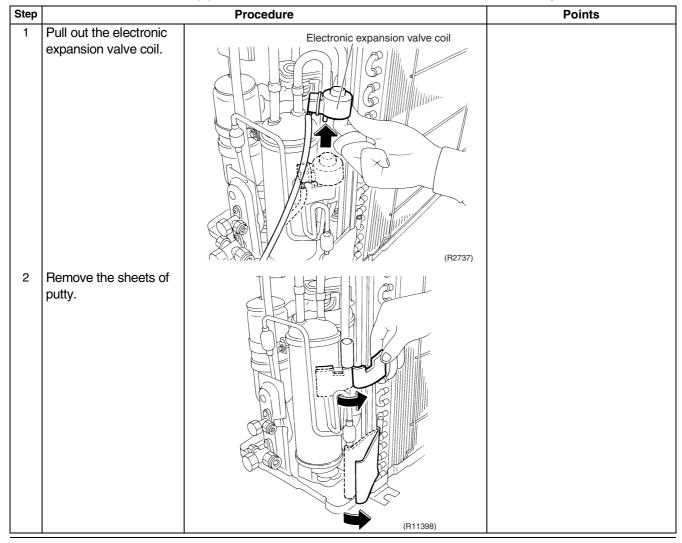
- Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.
- Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.
- If the refrigerant gas leaks during work, ventilate the room. (If the refrigerant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



Step Procedure Points	
Step Procedure Points Heat up the 2 brazed parts of the electronic expansion valve and remove it. Electronic expansion valve and remove it.	

Compressor Si001269EA

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.



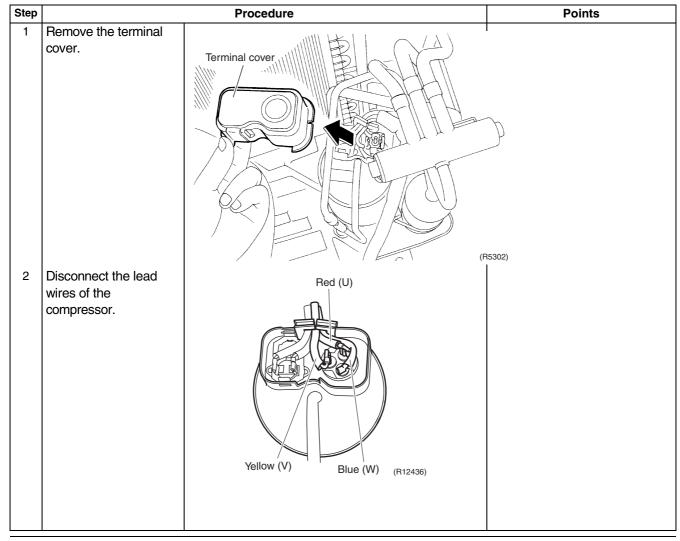
Caution

- 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.

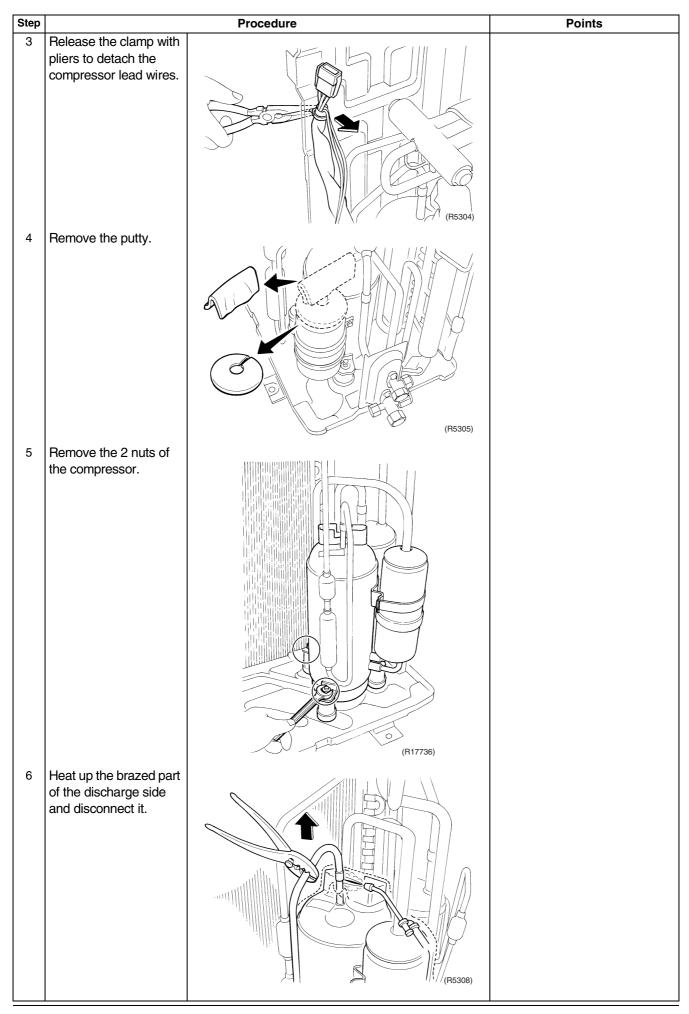


Note

- 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.



Si001269EA Compressor



Compressor Si001269EA

Step		Procedure	Points
7	Heat up the brazed part		
	of the suction side and	2211	
	disconnect it.		
		and the second	
8	Lift up the compressor		
	and remove it.		
	and remove it.		
		/ // (R5309)	

Revision History

Month / Year	Version	Revised contents
09 / 2012	Si001269	First edition
03 / 2014	Si001269EA	Model addition: RXS50/60GVMV



- 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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