



5.0/5.2/5.8/6.8/7.5 kW Class





Inverter



Multi Type



Service Manual Removal Procedure

Outdoor Unit

● Cooling Only 3MKS50DVM

3MKS50ESG

3MKS50E3V1B

3MKS58EVMA

4MKS58E3V1B

4MKS75F2V1B

●Heat Pump 3MXS52E3V1B

3MXS52EVMA

4MXS68F2V1B

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	The illustrations may be eligibly different depending on the model	



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

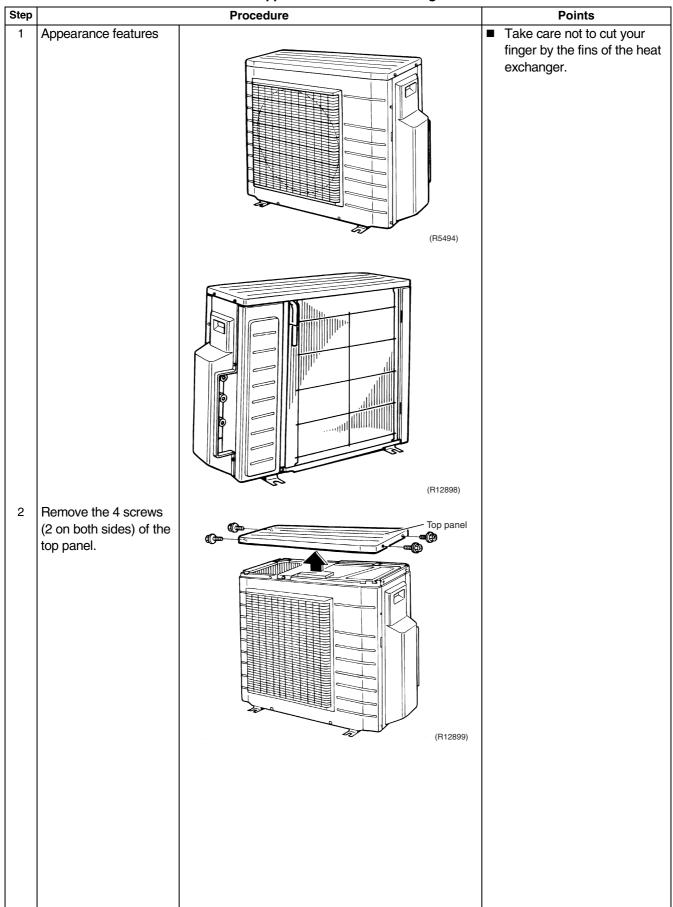
Removal of Outer Panels Si12-792

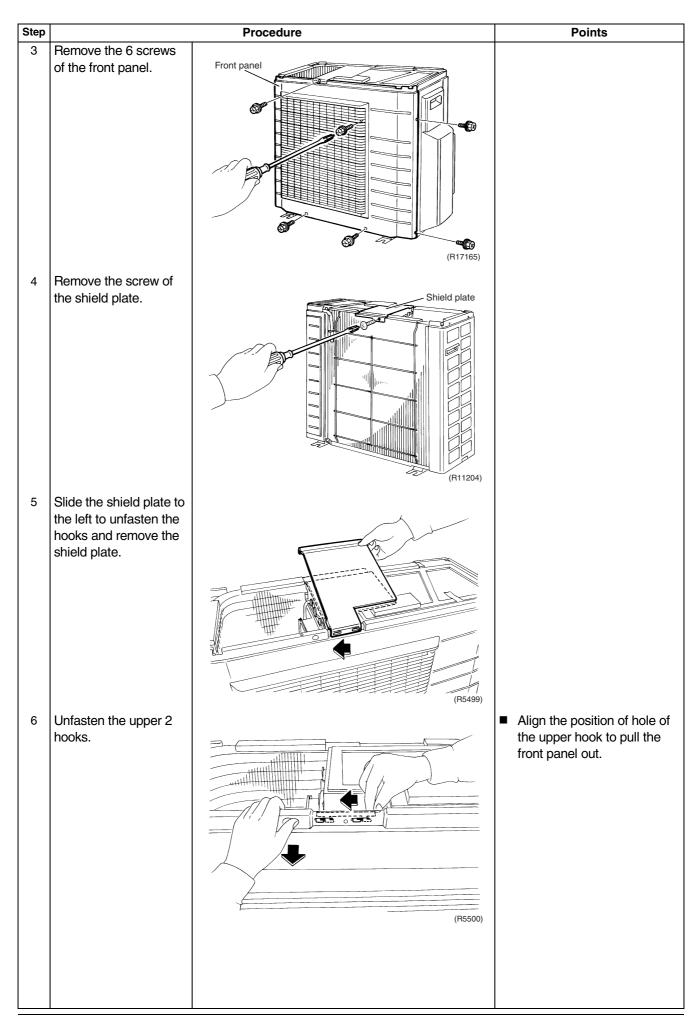
1. Removal of Outer Panels

Procedure

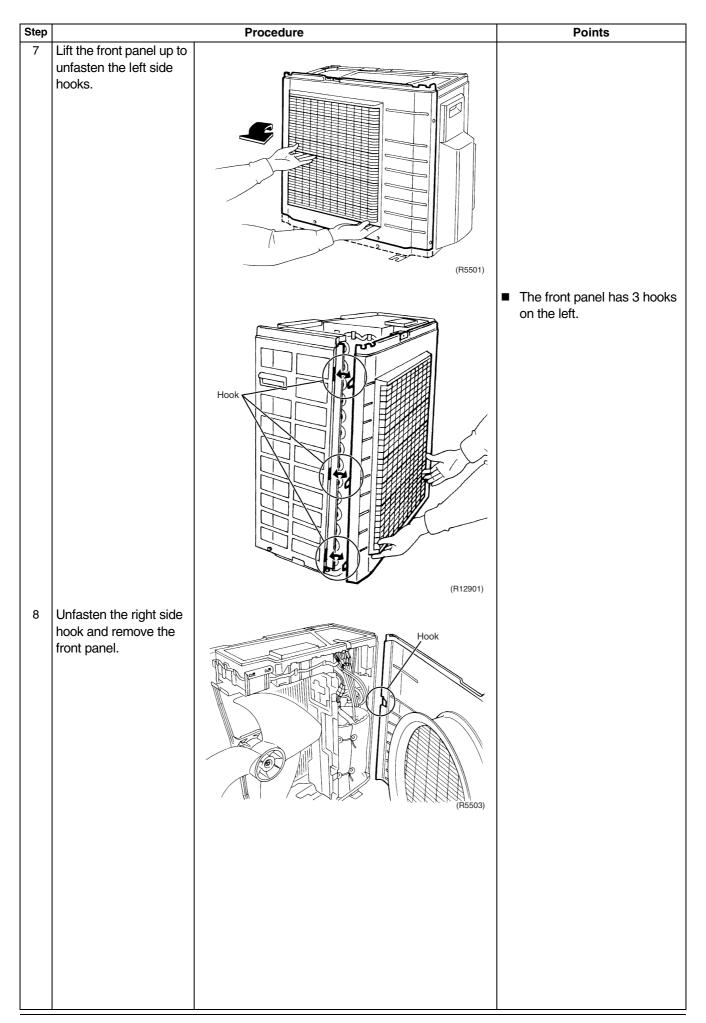


Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

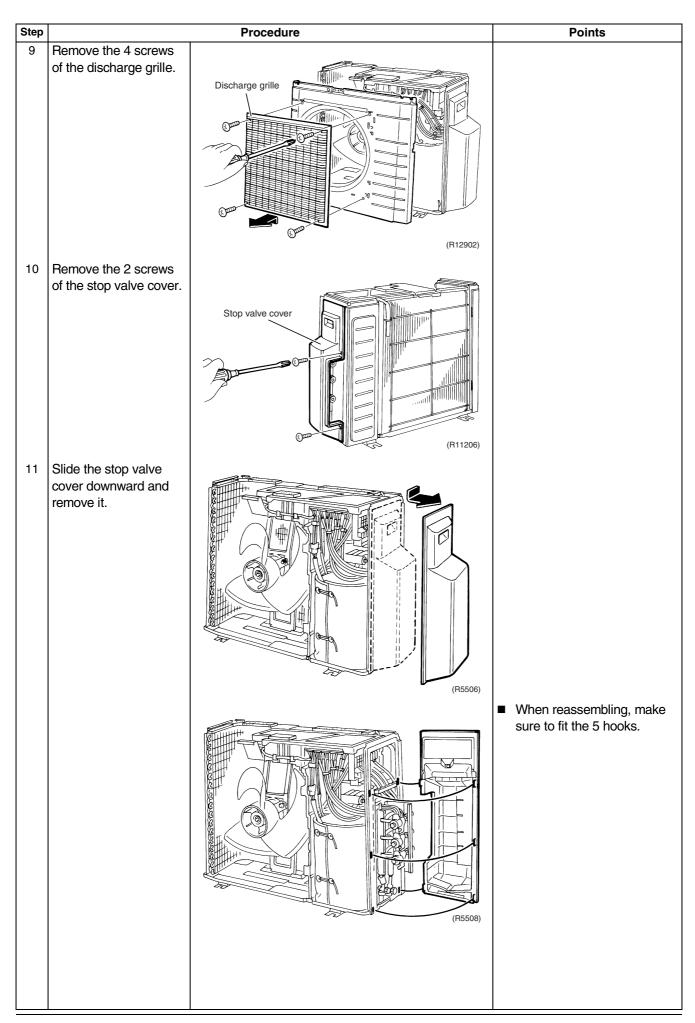




Removal of Outer Panels Si12-792



Removal of Outer Panels



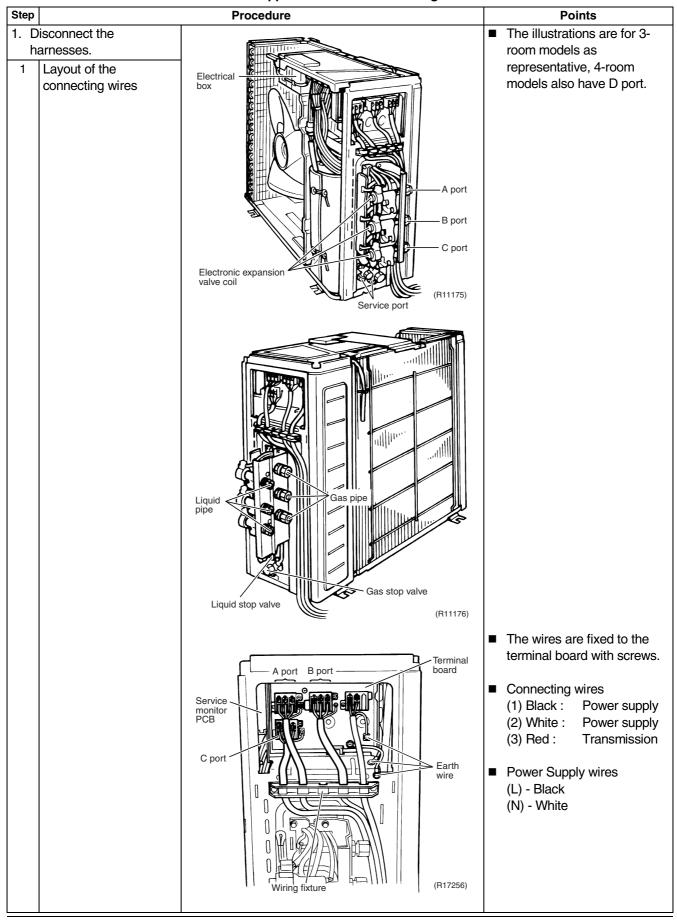
Removal of Electrical Box Si12-792

2. Removal of Electrical Box

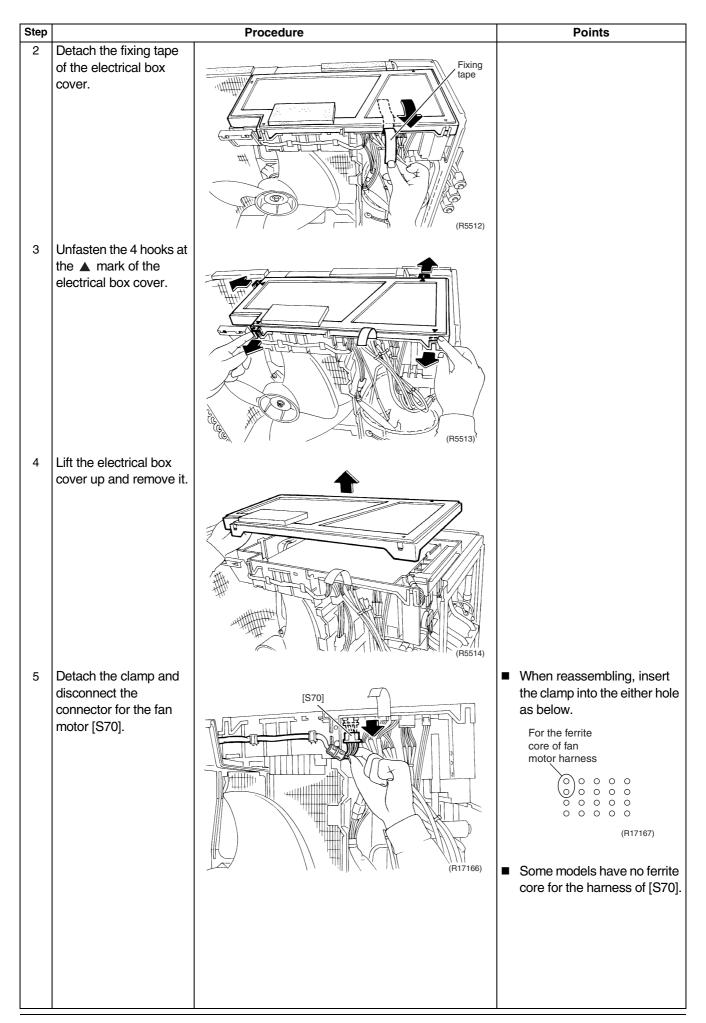
Procedure



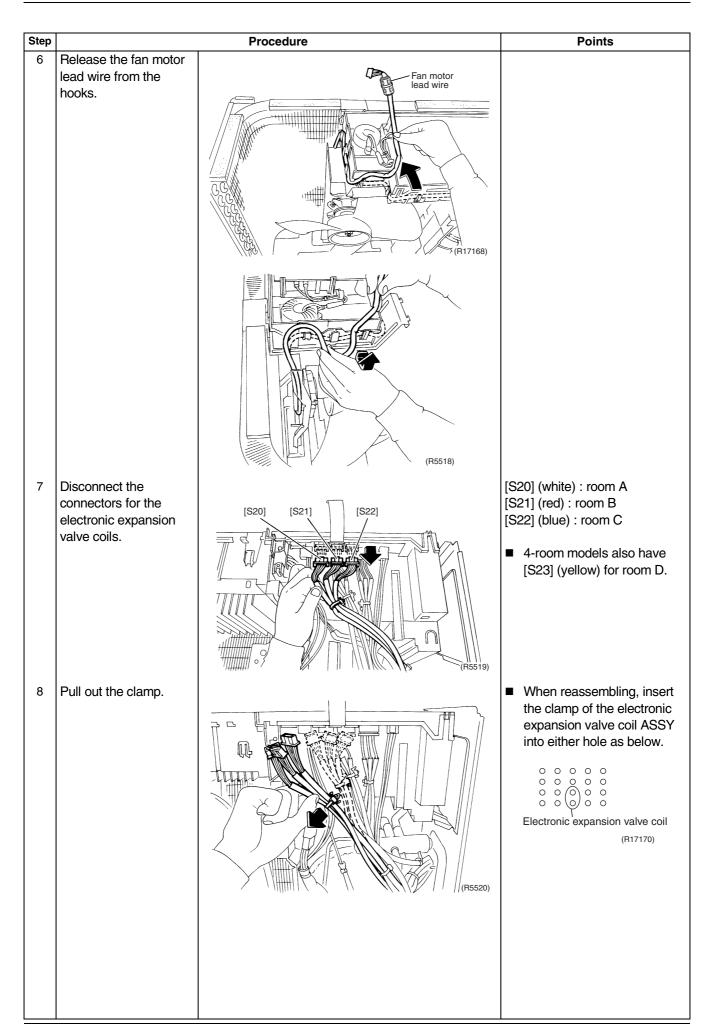
Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

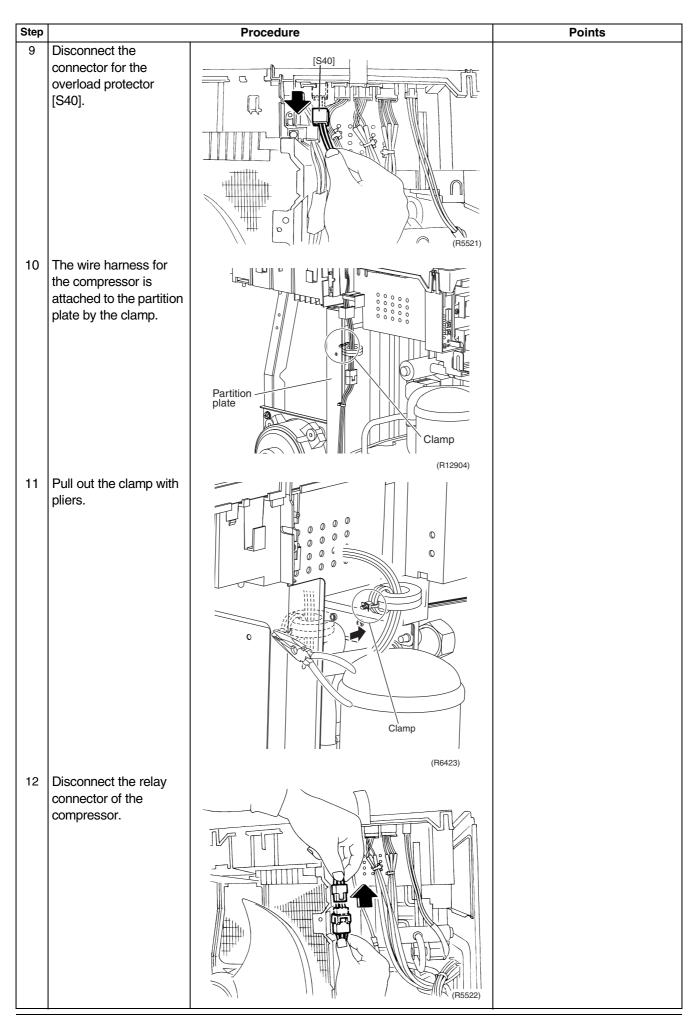


Si12-792 Removal of Electrical Box

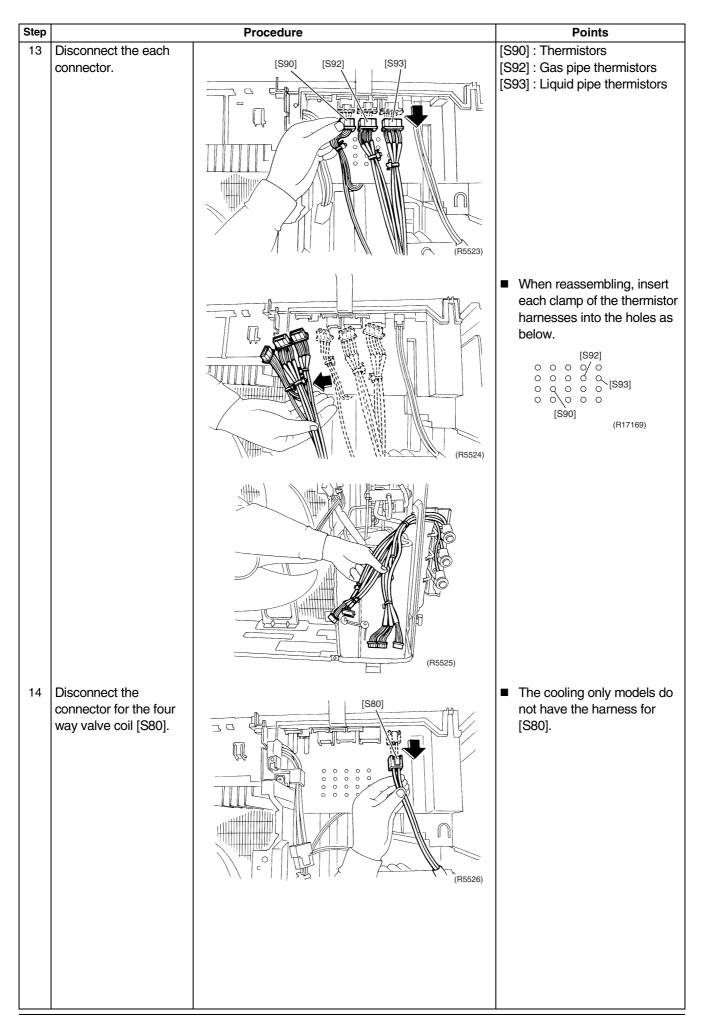


Removal of Electrical Box Si12-792

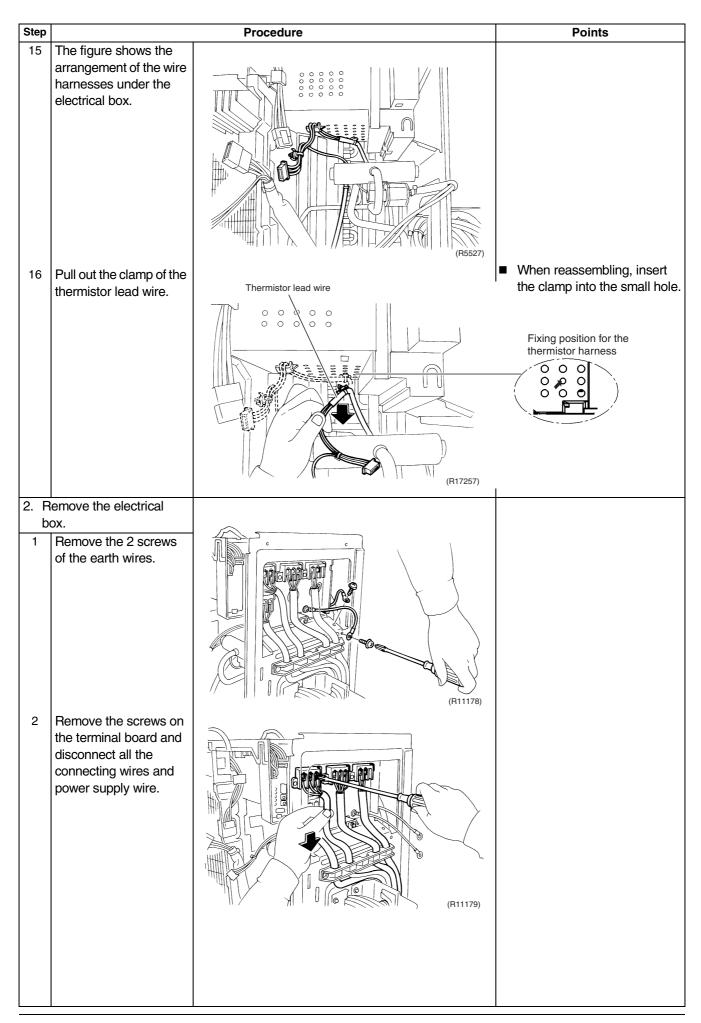




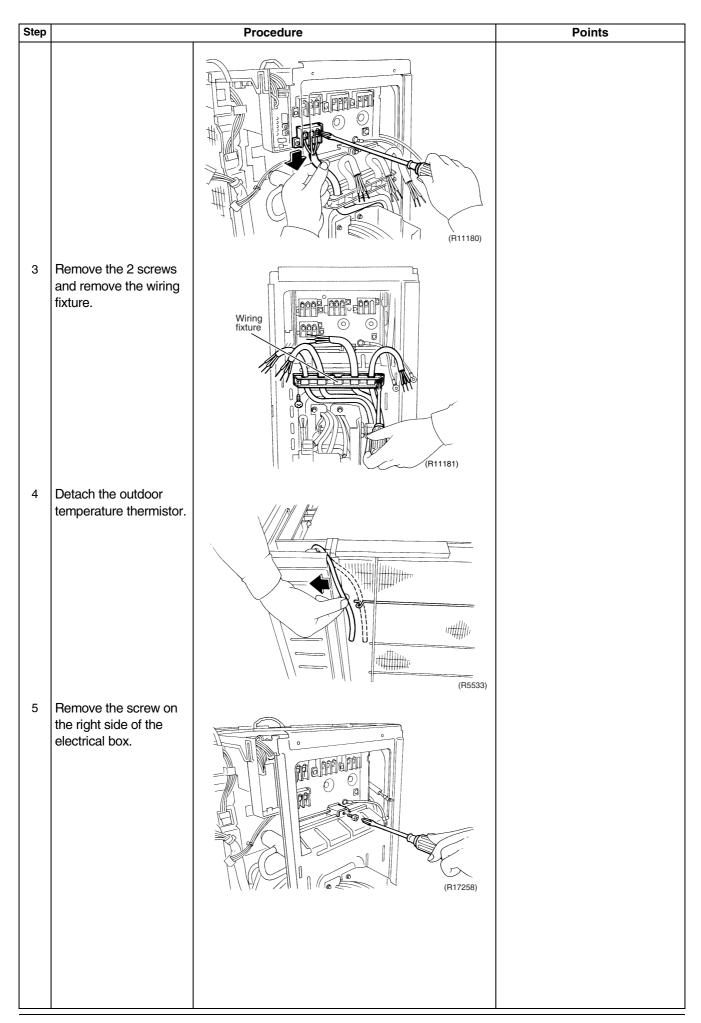
Removal of Electrical Box Si12-792

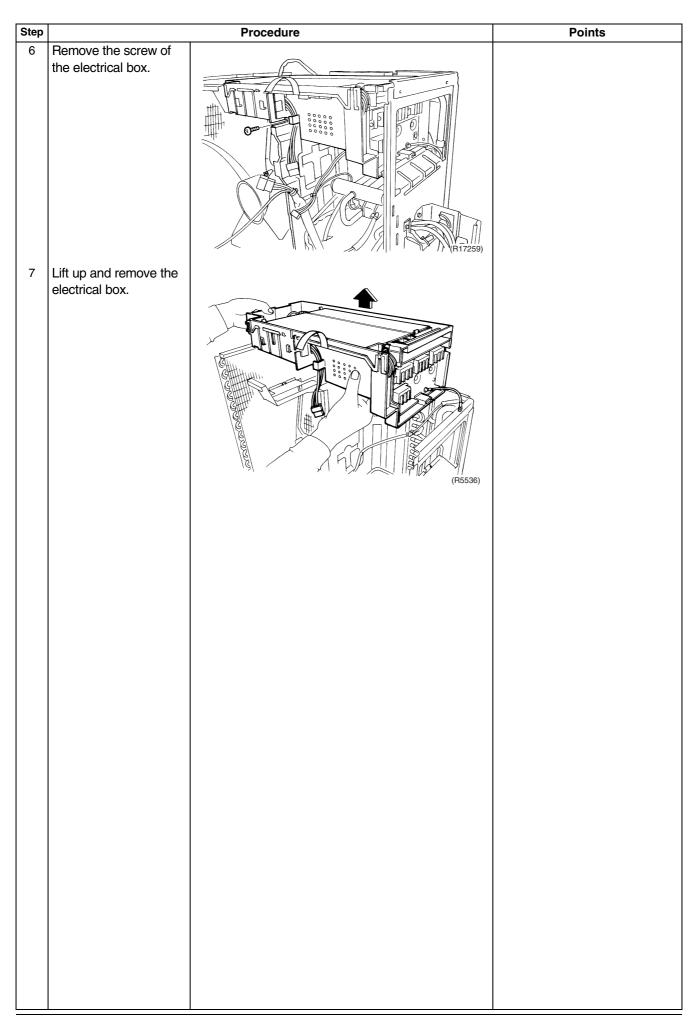


Si12-792 Removal of Electrical Box



Removal of Electrical Box Si12-792





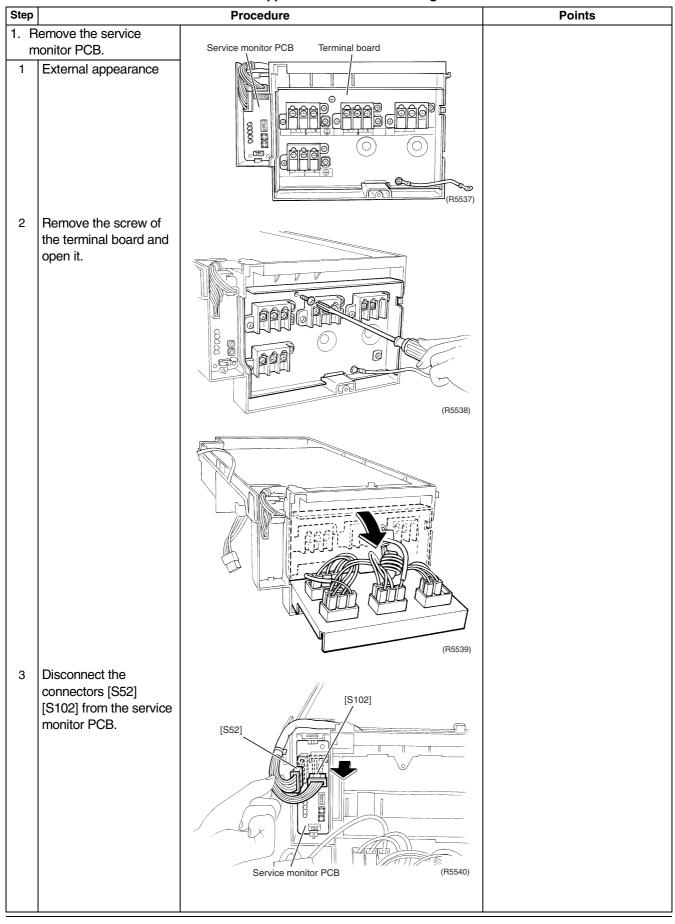
Removal of PCBs Si12-792

3. Removal of PCBs

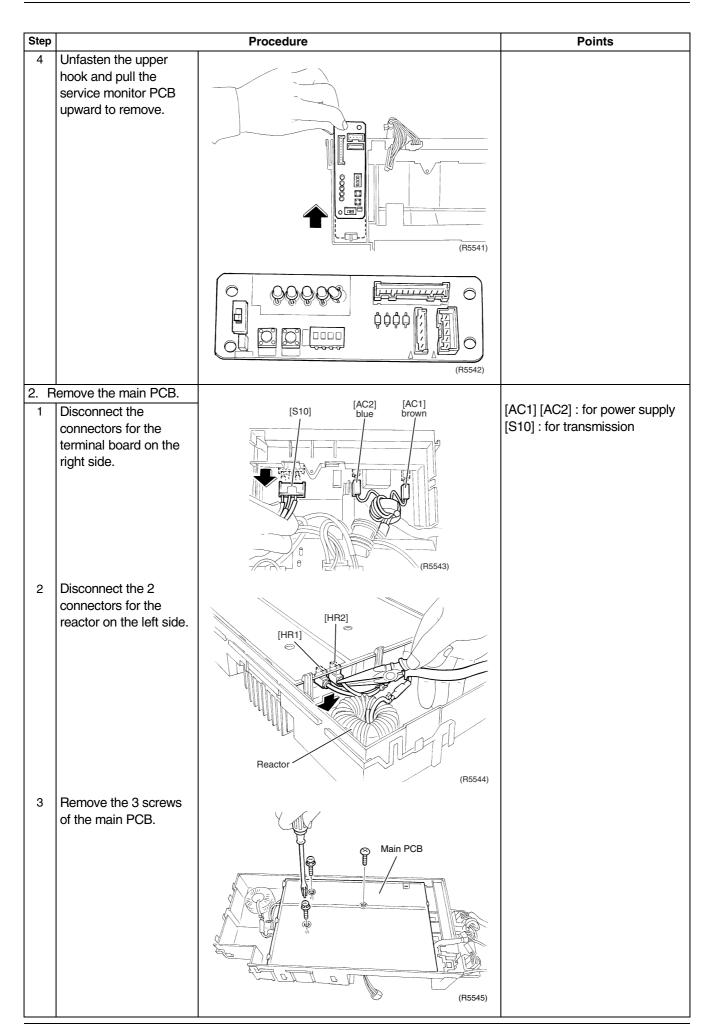
Procedure



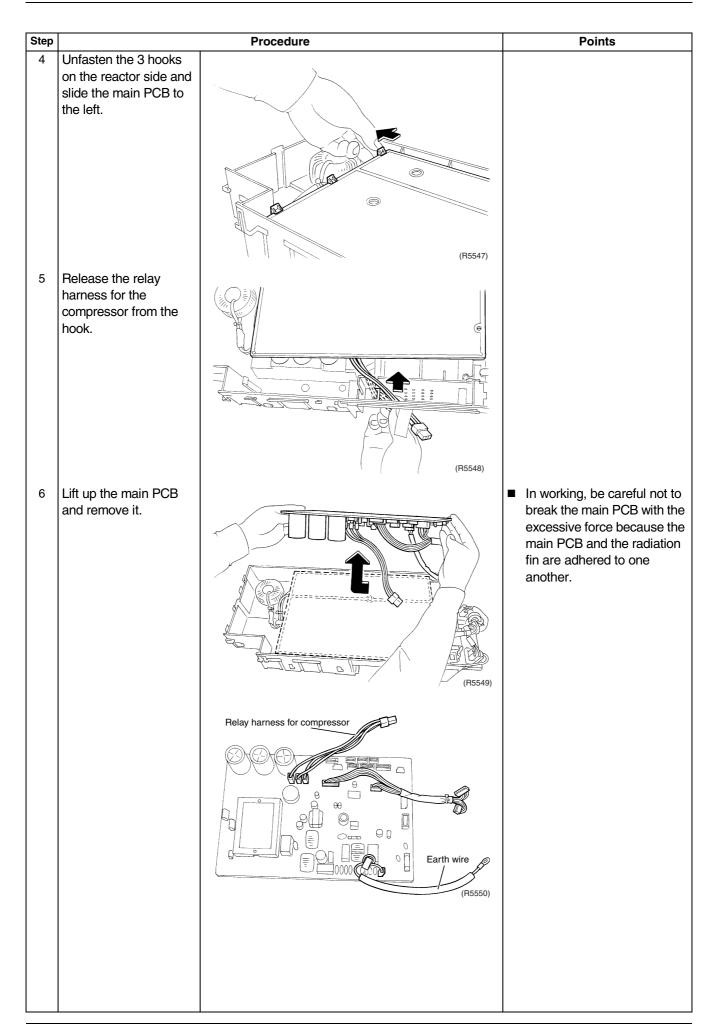
Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.



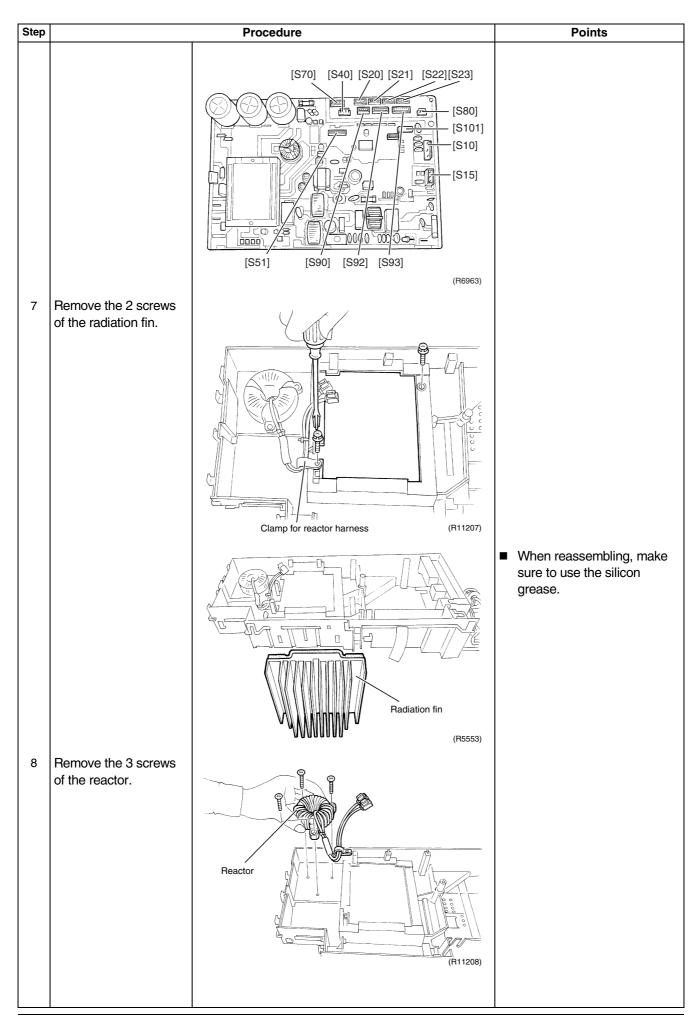
Si12-792 Removal of PCBs



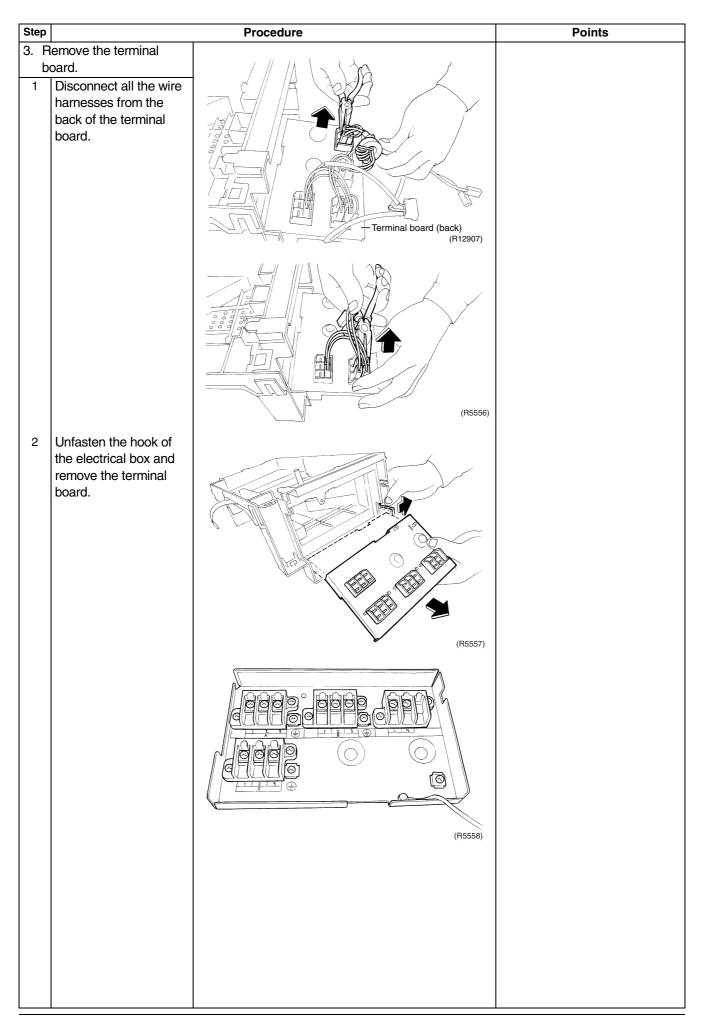
Removal of PCBs Si12-792



Si12-792 Removal of PCBs



Removal of PCBs Si12-792

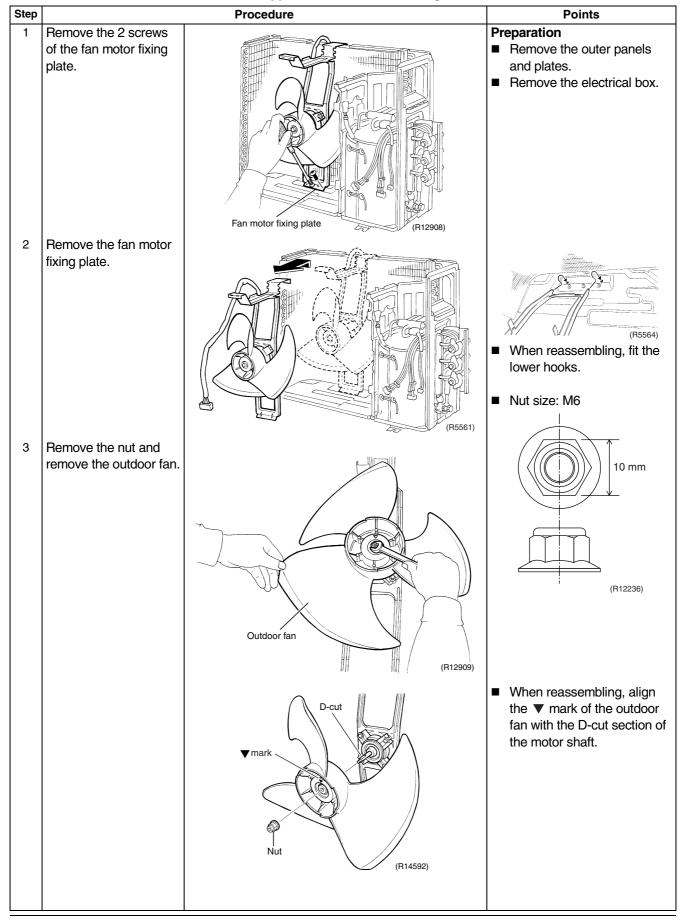


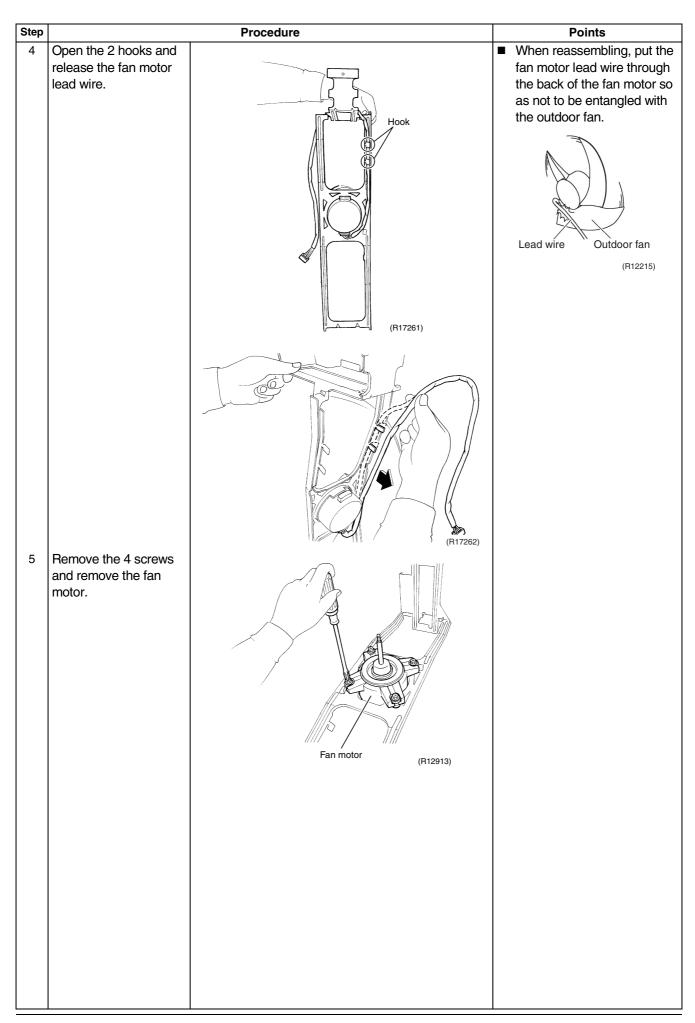
4. Removal of Outdoor Fan / Fan Motor

Procedure

Warning

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



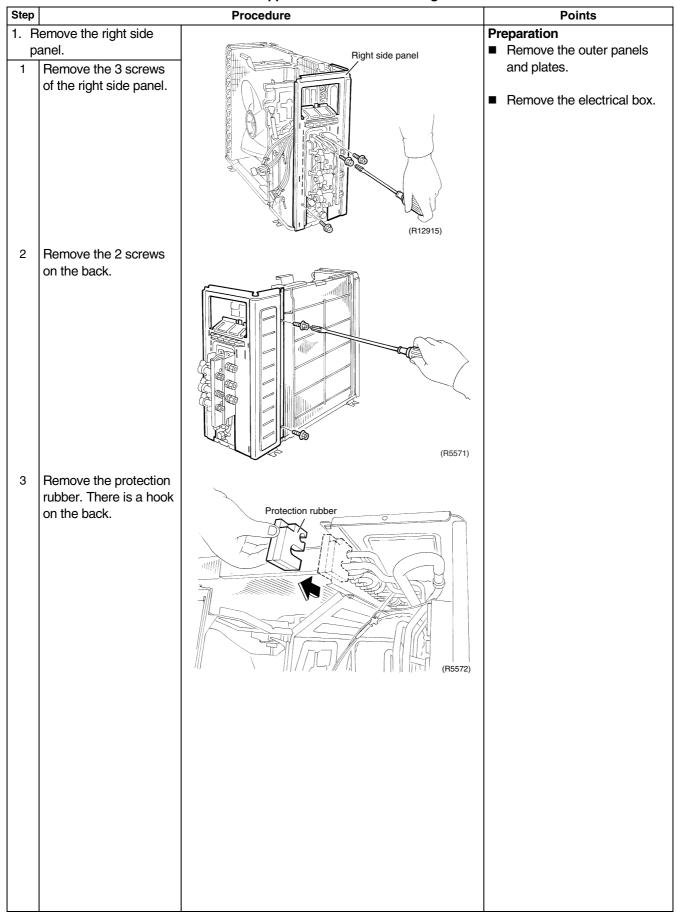


5. Removal of Sound Blankets

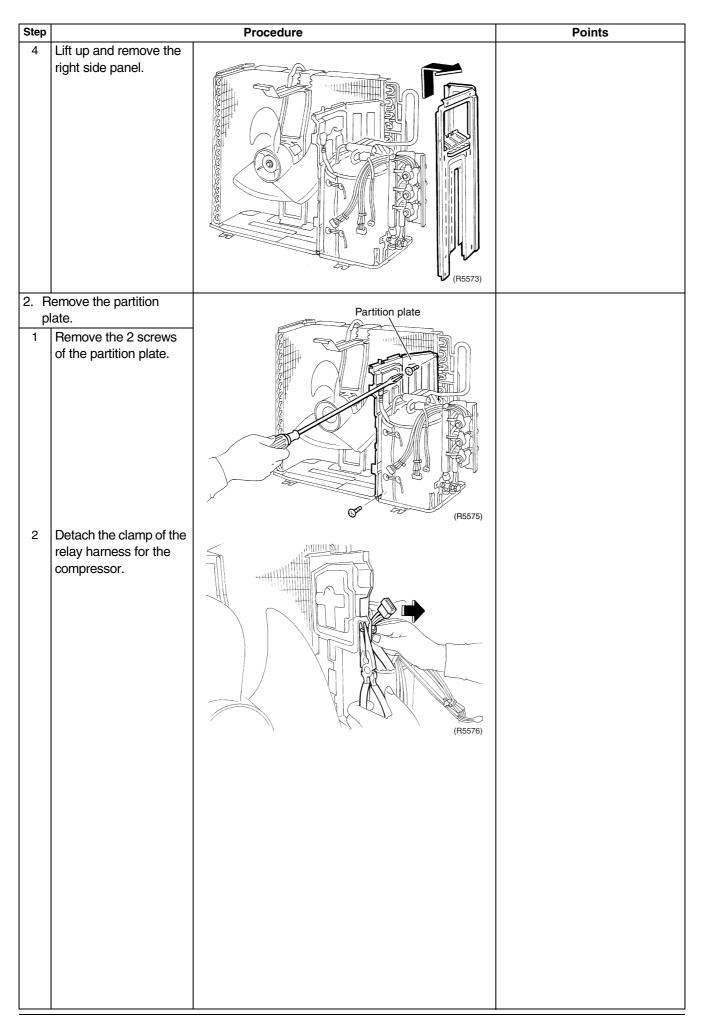
Procedure

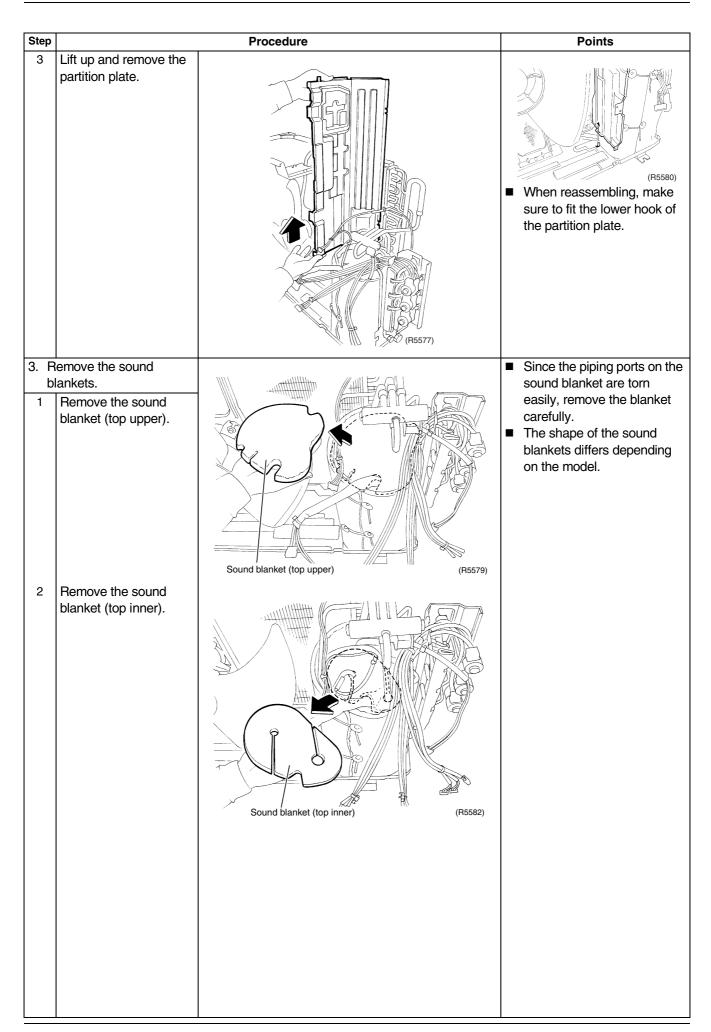
Warning

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

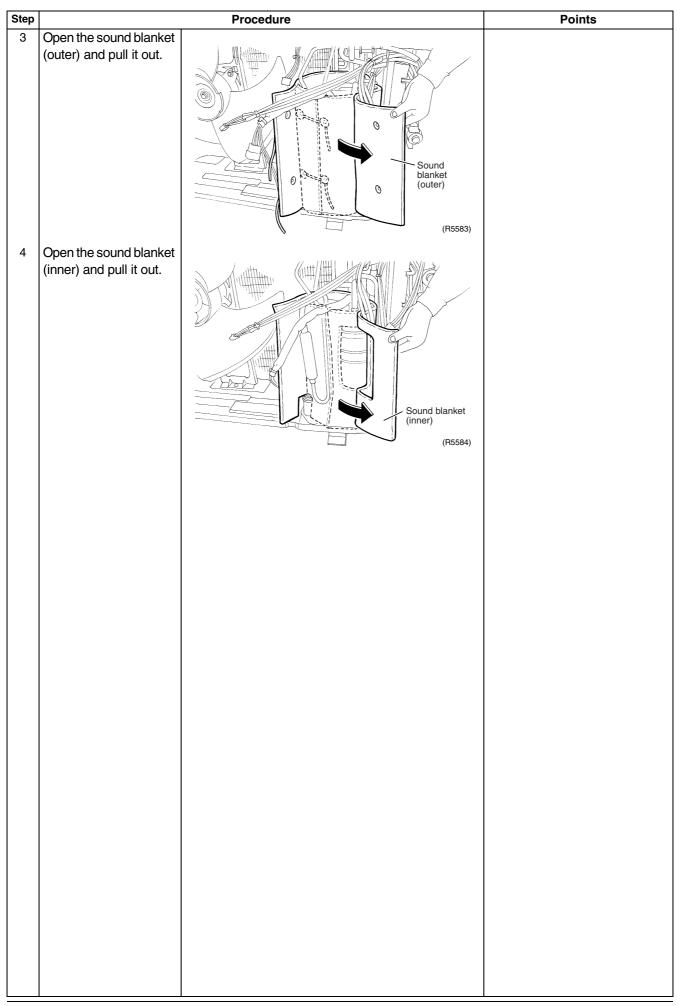


Removal of Sound Blankets Si12-792





Removal of Sound Blankets Si12-792

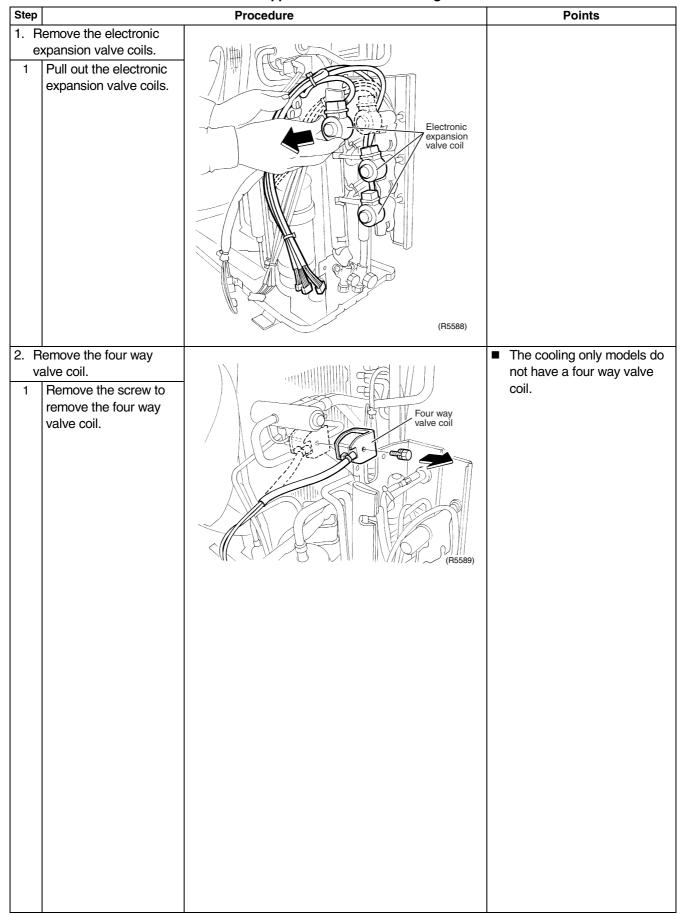


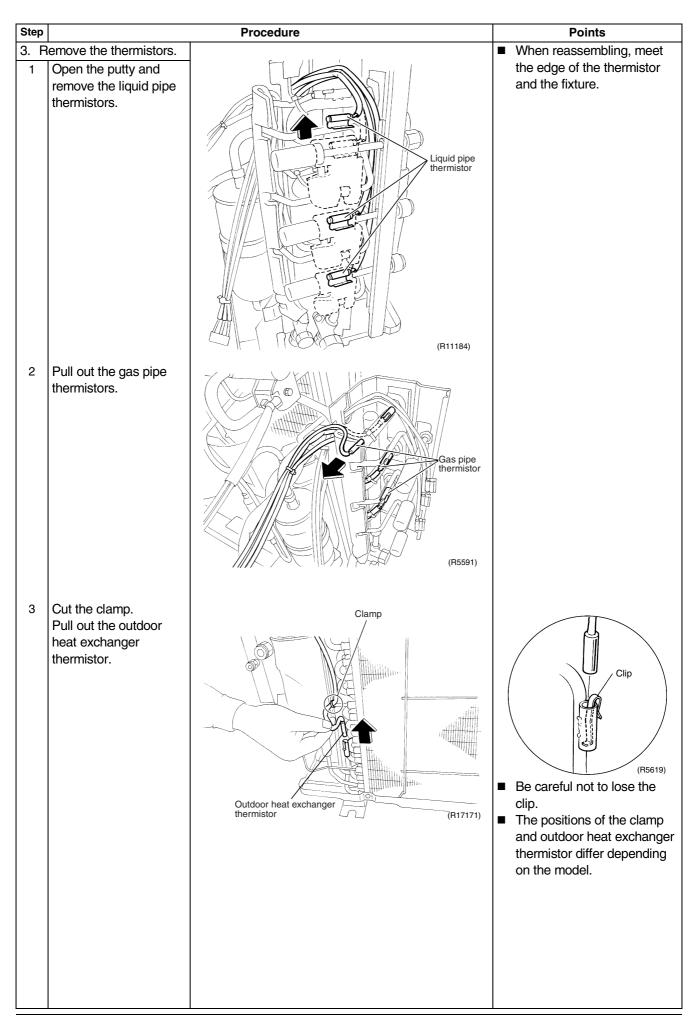
6. Removal of Coils / Thermistors

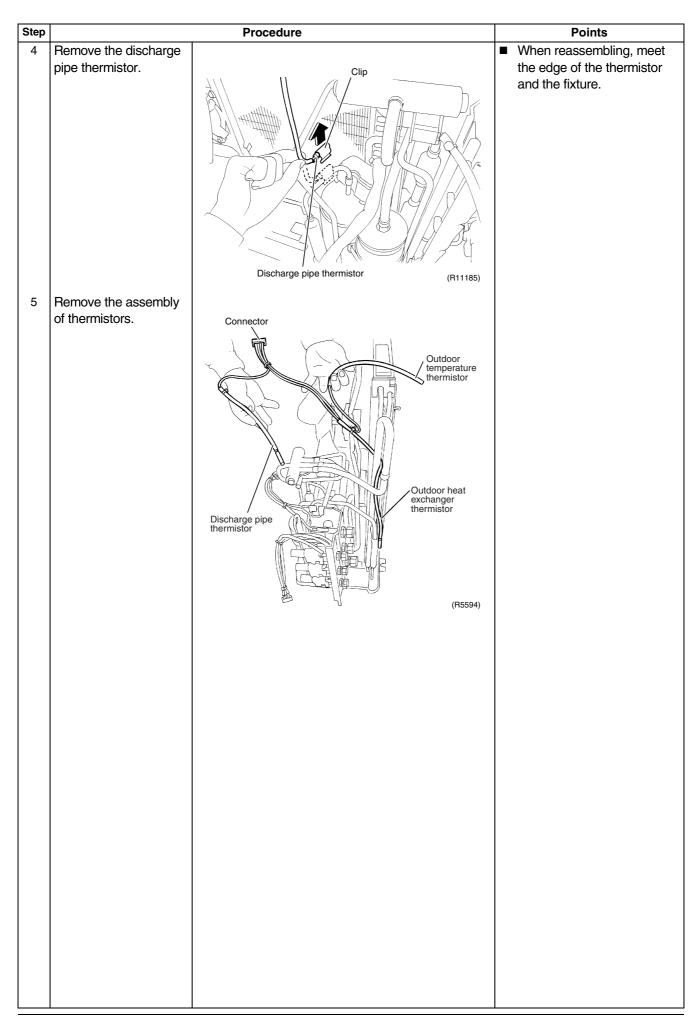
Procedure

Warning

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







Removal of Distributor Si12-792

7. Removal of Distributor

Procedure

pinch them firmly with pliers. The pipes may get

 Provide a protective sheet or a steel plate so that the brazing flame cannot influence peripheries.

deformed.

Warning

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

Step **Procedure Points** Remove the putty. 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 Putty exposed to flames, toxic gas (R5595) may be generated.) Before working, make Caution sure that the refrigerant From the viewpoint of global gas is empty in the circuit. environment protection, do ■ Be sure to apply nitrogen not discharge the refrigerant replacement when gas in the atmosphere. Make heating up the brazed sure to collect all the part. refrigerant gas. Heat up and disconnect the brazed parts to Cautions for restoration remove the distributor. 1. Restore the piping by nonoxidation brazing. 2. It is required to prevent the carbonization of the oil inside the four way valve and the Brazed 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. Distributor Note: In case of difficulty with gas (B17263) Do not use a metal saw brazing machine for cutting pipes by all 1. Disconnect the brazed part means because the where is easy to disconnect sawdust comes into the and restore. circuit. 2. Cut pipes on the main unit with a tube cutter in order to ■ When withdrawing the make it easy to disconnect. pipes, be careful not to

8. Removal of Four Way Valve

Procedure

Procedure

Step

/ Warning

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

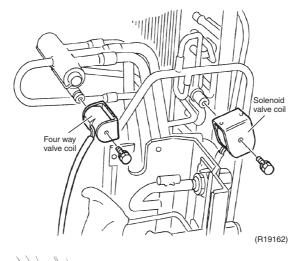
Before working, make sure that the refrigerant gas is empty in the circuit.

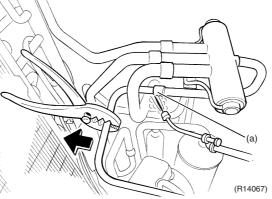
- Be sure to apply nitrogen replacement when heating up the brazed part.
- 1 Remove the screw and remove the four way valve coil.
- 2 Remove the screw and remove the solenoid valve coil.
- 3 Heat up the 4 brazed part of the four way valve. First, disconnect the part (a).

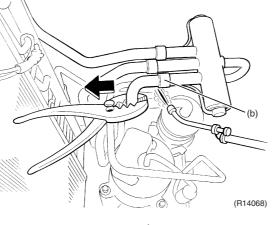
- 4 Disconnect the part (b).
- 5 Disconnect the part (c) and (d) and remove the four way valve.

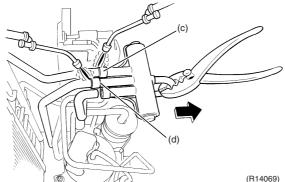
Note:

- 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.









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.
- 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.

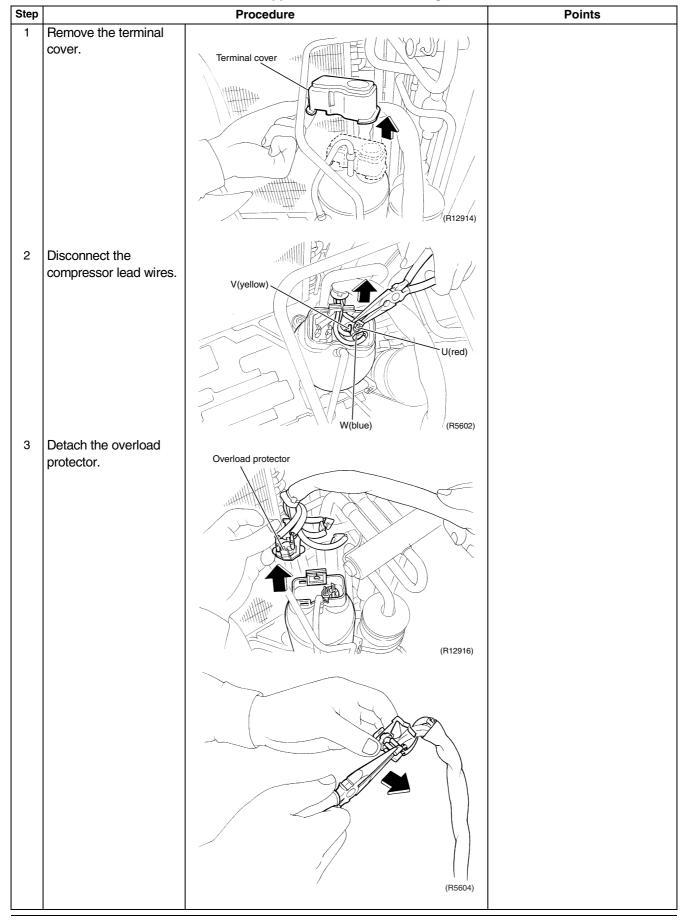
Removal of Compressor Si12-792

9. Removal of Compressor

Procedure

Warning

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



brazing flame cannot

influence peripheries.

 Be careful so as not to burn the compressor terminals, the name plate, the heat exchanger fin.

Step Procedure (R5605) Remove the putty. 4 Remove the 2 nuts. ■ 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 (R17172) of the discharge side and disconnect the part 7 Heat up the brazed part of the suction side and disconnect the part (b). Remove the compressor. Note: (R14070) ■ 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 Compresso (R12917) or a steel plate so that the

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

Points

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

- Restore the piping by nonoxidation 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.

Revision History

Month / Year	Version	Revised contents
07 / 2013	Si12-792	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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