



5.8/6.8/7.1/7.5 kW Class





Inverter



Multi Type



Service Manual Removal Procedure

Outdoor Unit

● Cooling Only 3MKD75BVMA8

2MKD58DVM 3MKD58DVM 3MKD75DVM 4MKD75DVM

4MKS71DVM 3MKS71ESG 3MKS75EVMA ●Heat Pump 3MXD68BVMA8

3MXS68EVMA

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



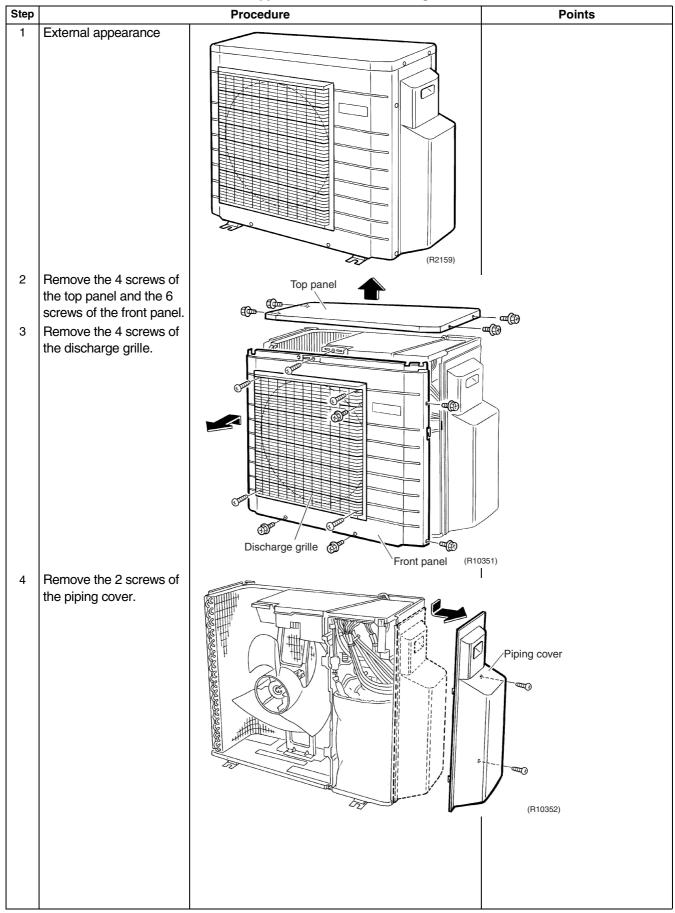
- The illustrations are for heat pump models as representative.

Removal of Outer Panels Si12-793

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.

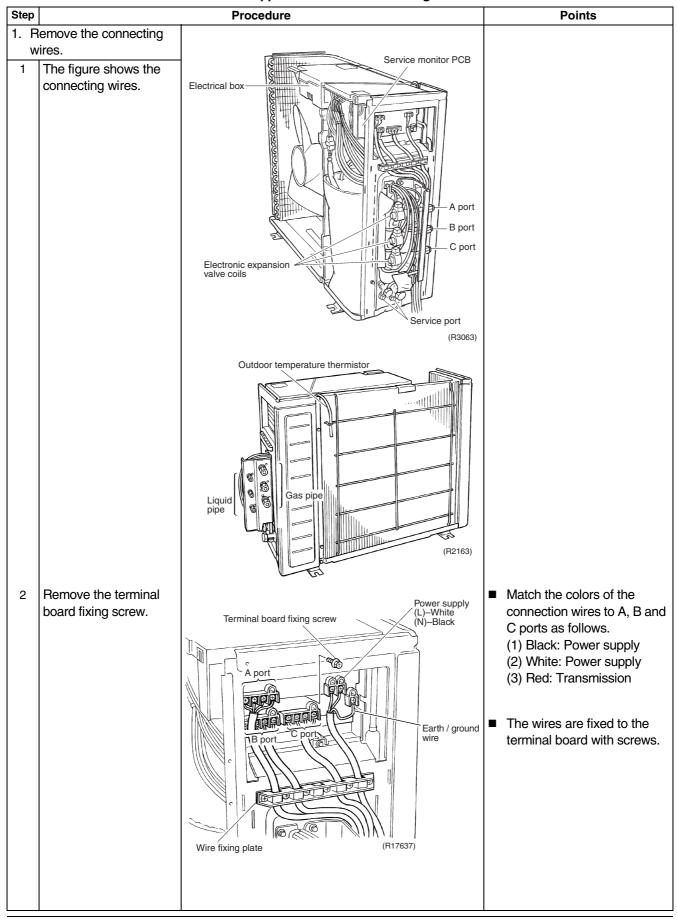


Si12-793 Removal of Electrical Box

2. Removal of Electrical Box

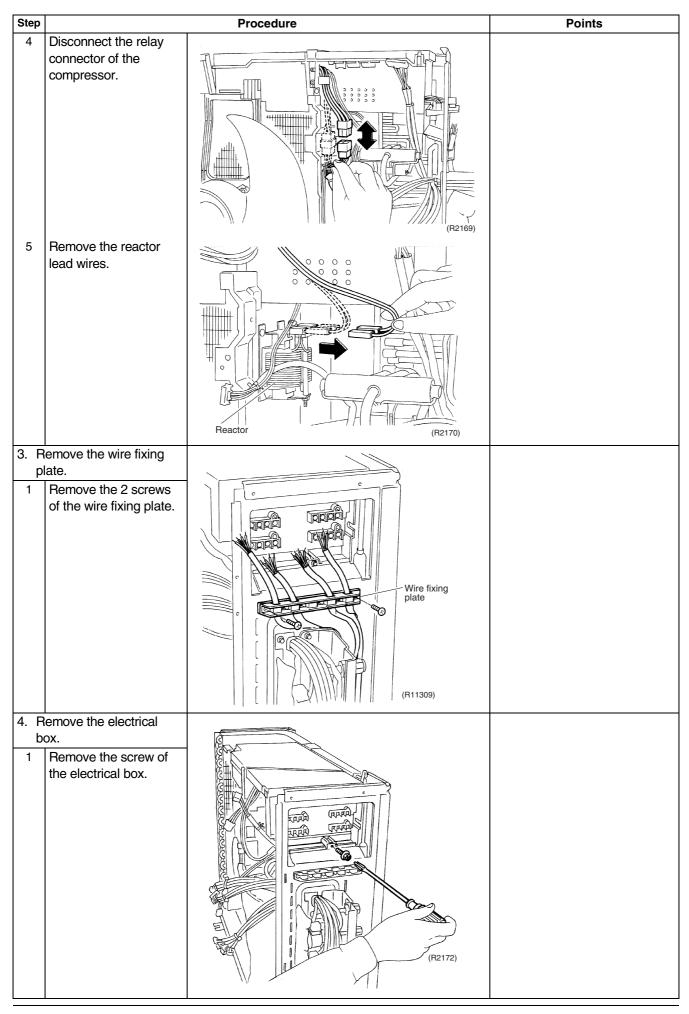
Procedure

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

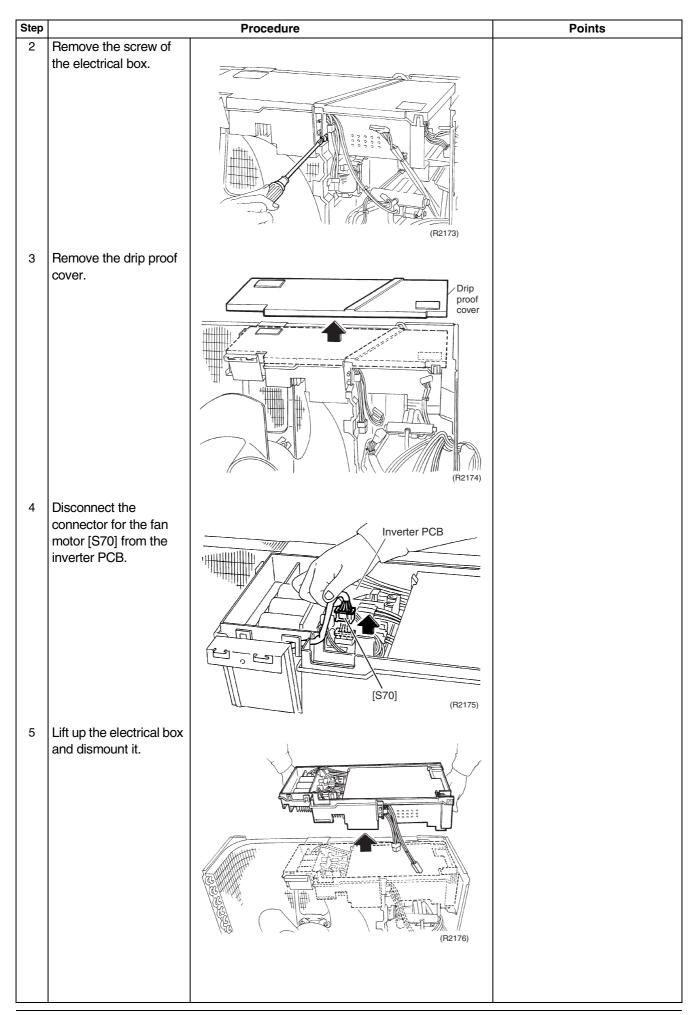


Removal of Electrical Box Si12-793

Step		Procedure	Points
3	Pull out the terminal board to open.	Glass tube fuse Varister Terminal board (R2165)	Glass tube fuse and varistor cannot be replaced individually because lead-free soldering is provided.
2. R	emove the harnesses.		
1	Disconnect the connectors for the electronic expansion valve coils. [S20] [S21] [S22].	[S20] [S21] [S22]	
2	Remove the connector for the four way valve coil [S80].	[S80]	The cooling only models do not have the harness for [S80].
3	Disconnect the connectors for the thermistors [S90] [S92] [S93] and the connector for the overload protector [S40].	[S40] [S92] [S93] (R2168)	40]: Overload protector 90]: Thermistor (outdoor temperature, outdoor heat exchanger, discharge pipe) 92]: Gas pipe thermistor 93]: Liquid pipe thermistor



Removal of Electrical Box Si12-793



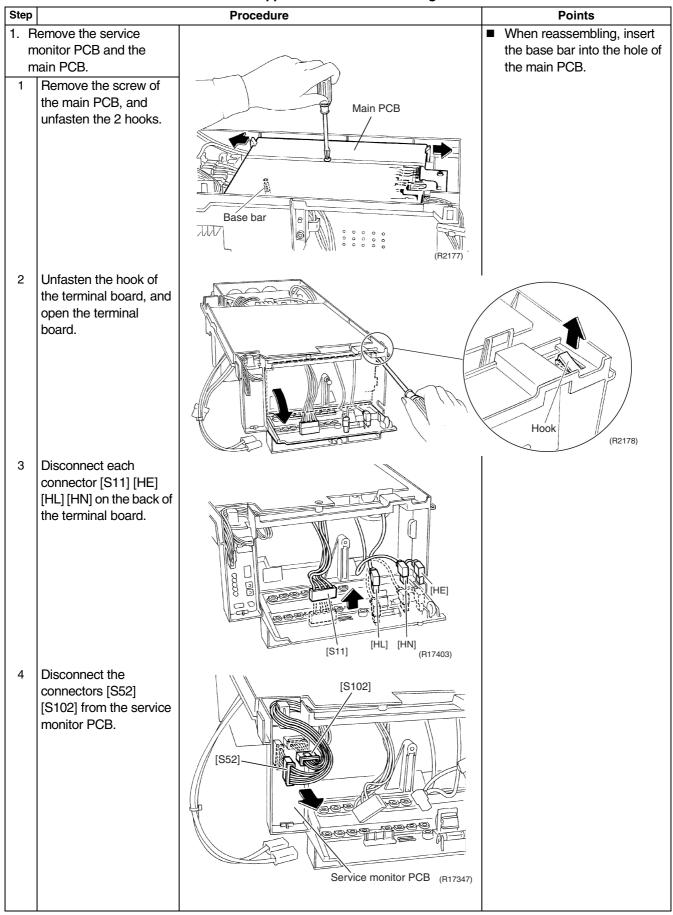
Si12-793 Removal of PCBs

3. Removal of PCBs

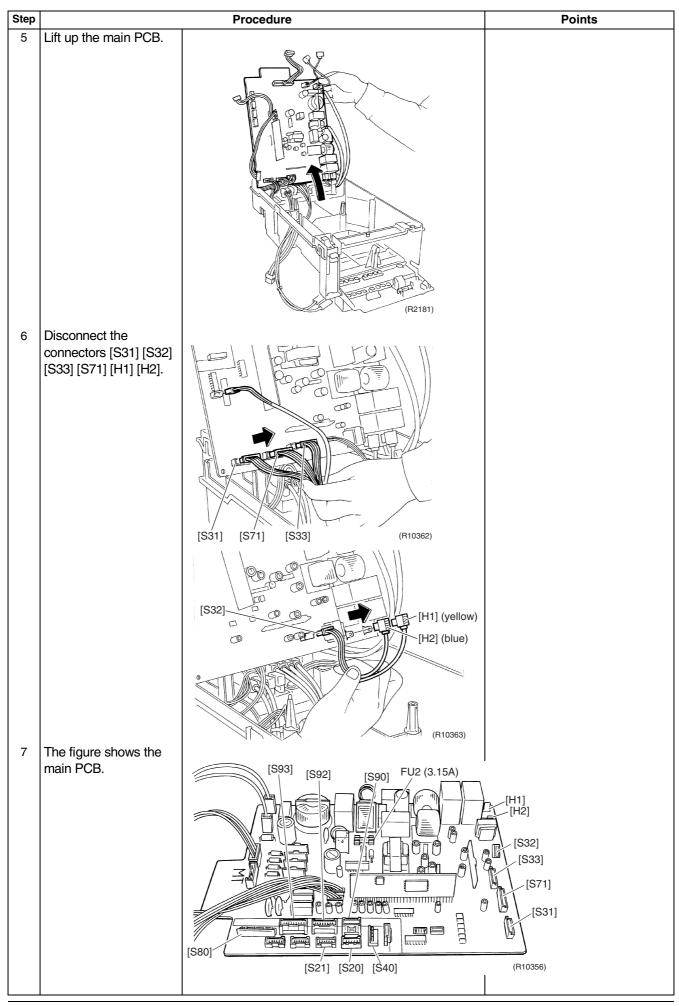
Procedure

/ Warning

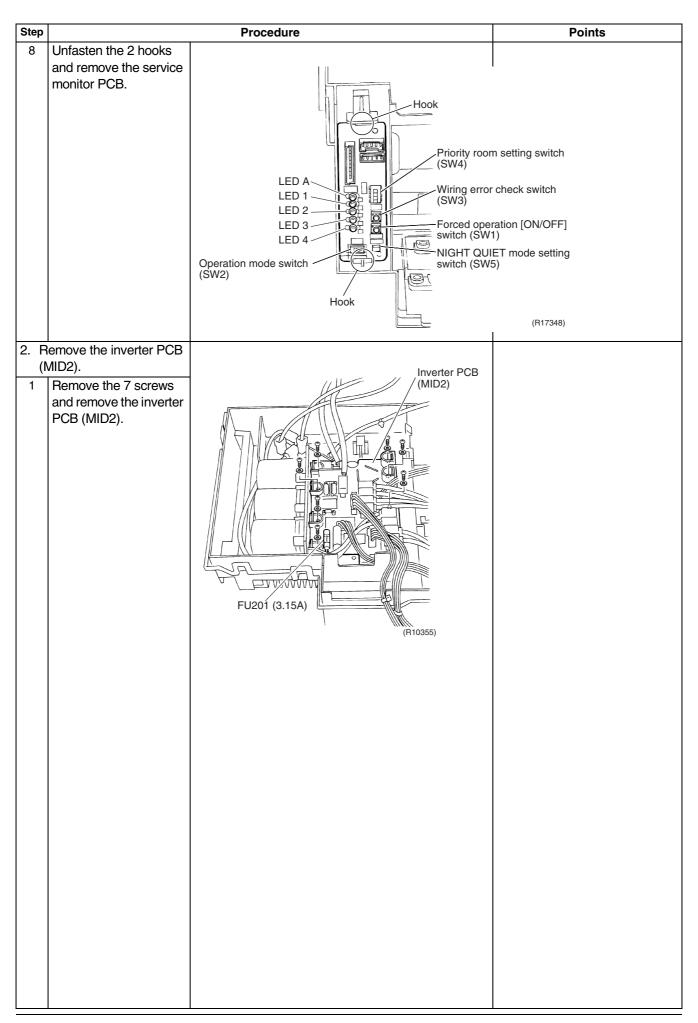
Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.



Removal of PCBs Si12-793



Si12-793 Removal of PCBs

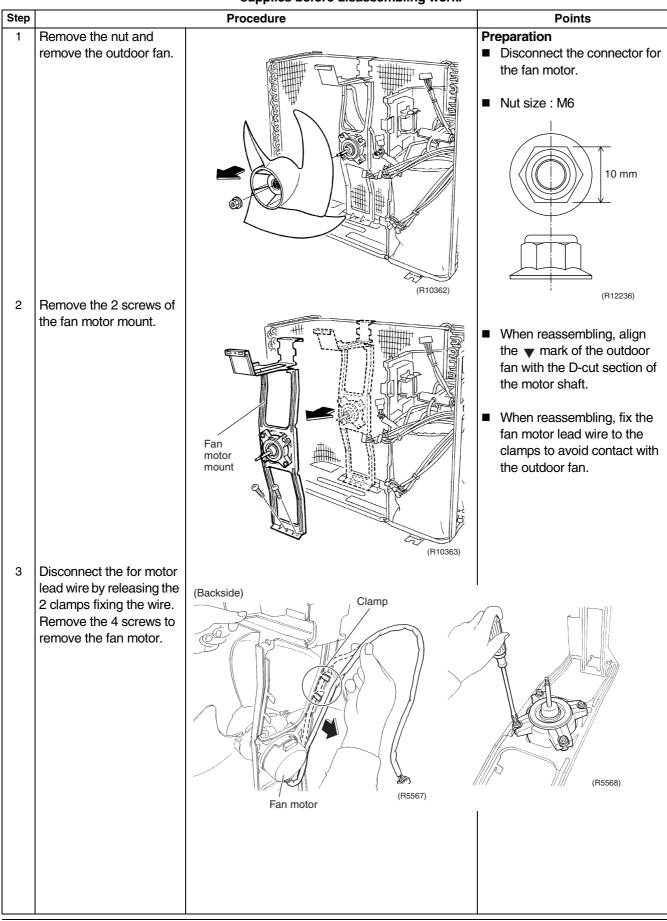


Removal of Fan Motor Si12-793

4. Removal of Fan Motor

Procedure

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

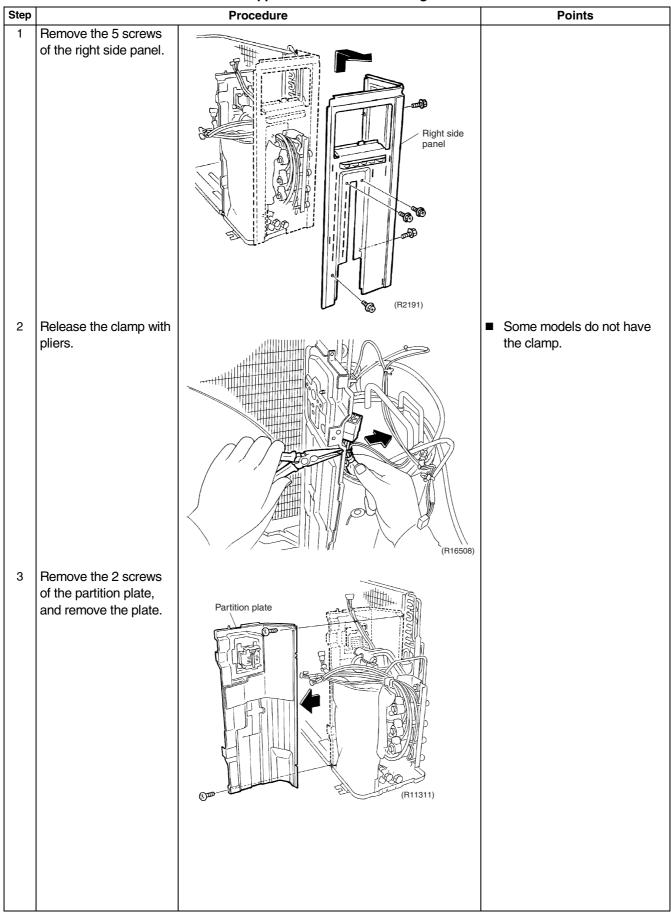


Removal of Sound Blankets

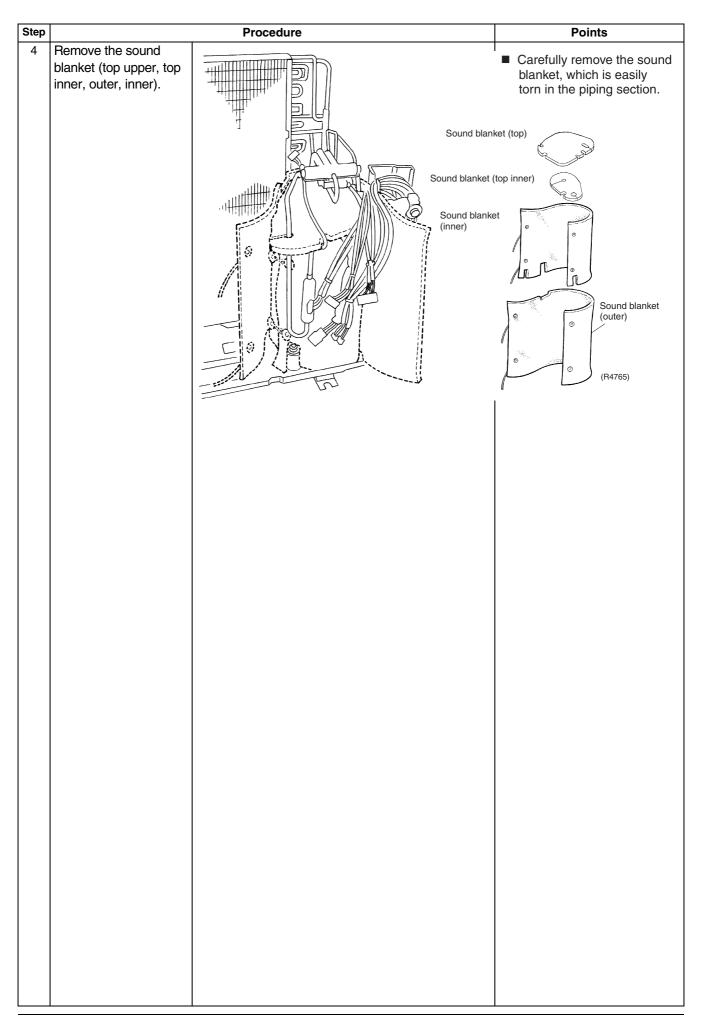
5. Removal of Sound Blankets

Procedure

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



Removal of Sound Blankets Si12-793

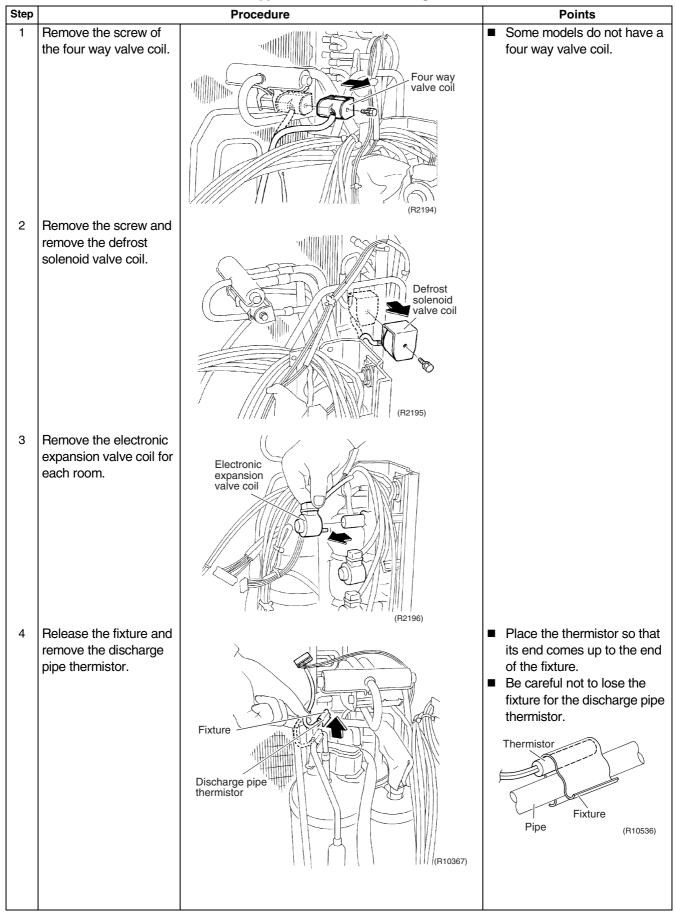


6. Removal of Coils / Thermistors

Procedure

/!\

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



Step		Procedure	Points
5	Peel off the putty and pull out the thermistors.	Gas pipe thermistor Liquid pipe thermistor (R2198)	 Place the thermistor so that its end comes up to the end of the fixture. Be careful not to lose the clip or fixtures for the liquid and gas pipe thermistor.
6	Remove the wire harness.	(R2199)	■ [S90]: Outdoor temperature thermistor (Blue) Heat exchanger thermistor (Gray) Discharge pipe thermistor (Black) ■ [S92]: Gas pipe thermistor Room A (Black) Room B (Gray) Room C (Brown) ■ [S93]: Liquid pipe thermistor Room A (Black) Room B (Gray) Room C (Yellow)

7. Removal of Four Way Valve / Defrost Solenoid 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		■ The cooling only models do
	remove the four way valve coil.		not have a four way valve coil and a defrost solenoid
	varvo com.		valve coil.
2	Remove the screw and		
	remove the defrost		Warning
	solenoid valve coil.		Be careful not to get yourself burnt with the pipes and other
		Four way valve coil	parts that are heated by the
			gas brazing machine.
			Warning
		Defrost solenoid	If the refrigerant gas leaks during work, ventilate the
	afaraadia a maala	valve coil (R10370)	room. (If the refrigerant gas is
	efore working, make ure that the refrigerant		exposed to flames, toxic gas
II.	as is empty in the circuit.		may be generated.)
	e sure to apply nitrogen		Caution
II.	eplacement when		From the viewpoint of global
	eating up the brazed		environment protection, do
3	art. Heat the 4 brazed		not discharge the refrigerant
	points of the four way		gas in the atmosphere. Make sure to collect all the
	valve. Disconnect the		refrigerant gas.
	point (a) first.		Tonigorant gaoi
			Cautions for restoration
			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
		(R2201)	deterioration of the gaskets
4	Disconnect the points	NIKIDI ()	affected by heat. (Keep
	(b) and (c).	(c) (d)	below 120°C.) For the sake of this, wrap the four way
5	Disconnect the point (d)		valve with wet cloth and
	and remove the four		provide water so that the
	way valve.		cloth does not dry.
			la consent difficulty with mos
			In case of difficulty with gas brazing machine
			Disconnect the brazed part
			where is easy to disconnect
		(b)	and restore.
			2. Cut pipes on the main unit with a tube cutter in order to
			make it easy to disconnect.
		(R2202)	

Si12-793 Removal of Distributor

8. Removal of Distributor

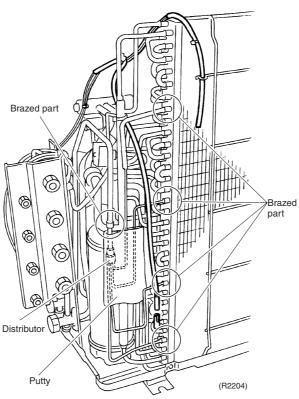
Procedure

Warning

Procedure

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. Remove the putty. Heat up and disconnect the 5 brazed parts to remove the distributor.



burnt with the pipes and other parts that are heated by the gas brazing machine.

Warning

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

Points

Be careful not to get yourself

Warning

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.

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:

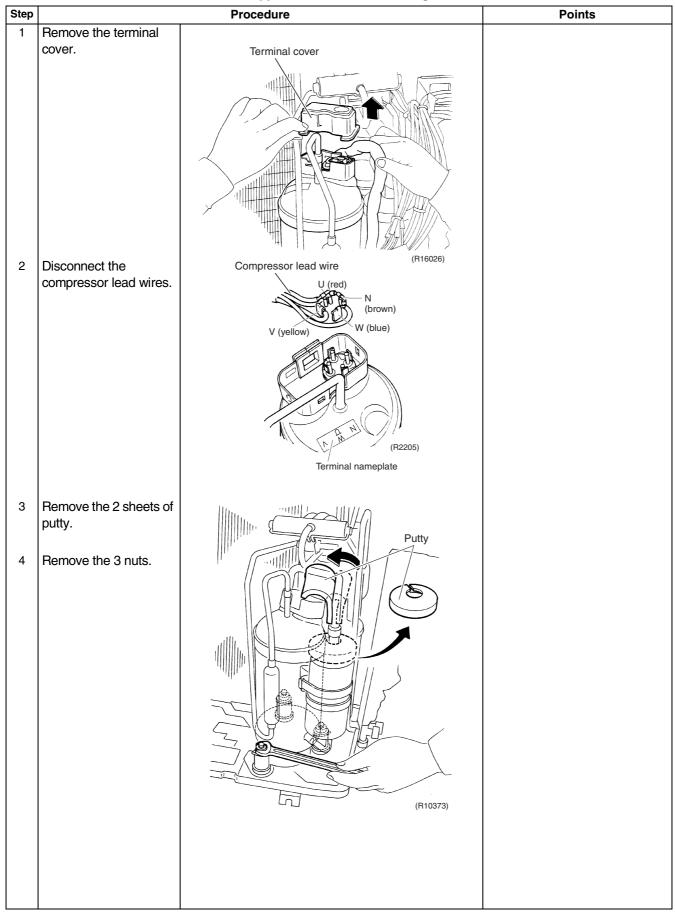
- Do not use a metal saw for cutting pipes by all means because the sawdust comes into the circuit.
- When withdrawing the pipes, be careful not to pinch them firmly with pliers. The pipes may get deformed.
- Provide a protective sheet or a steel plate so that the brazing flame cannot influence peripheries.

Removal of Compressor Si12-793

9. Removal of Compressor

Procedure

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

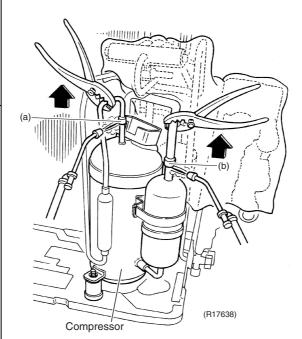


Step

- Before working, make sure that the refrigerant is empty in the circuit.
- Be sure to apply nitrogen replacement when heating up the brazed part.
- Disconnect the brazed part (b) at suction side of the compressor.

7 Remove the compressor.

- for cutting pipes by all means because the sawdust comes into the circuit.
- pipes, be careful not to pinch them firmly with
- burn the compressor terminals, the name plate,



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 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

- 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.

Note:

- Do not use a metal saw
- When withdrawing the 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 the heat exchanger fin.

Revision History

Month / Year	Version	Revised contents
07 / 2013	Si12-793	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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