


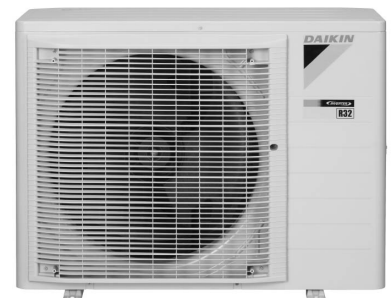
REMOVAL PROCEDURE



S E R V I C E M A N U A L

4.6/5.0/6.0/7.1 kW Class

-  Outdoor Unit
-  Inverter
-  Pair Type



Service Manual Removal Procedure

Outdoor Unit

●Cooling Only

**RKM46QVMA
RKM50QVMA
RKM60QVMA
RKM71QVMA**

●Heat Pump

RXF71QVMA

**RXM46QVMA
RXM50QVMA
RXM60QVMA
RXM71QVMA**

**RXV50QVMV
RXV60QVMV
RXV71QVMV**

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Note:

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

1. Outer Panels

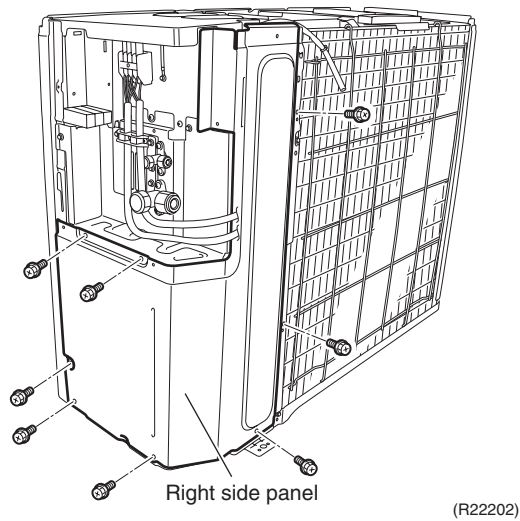
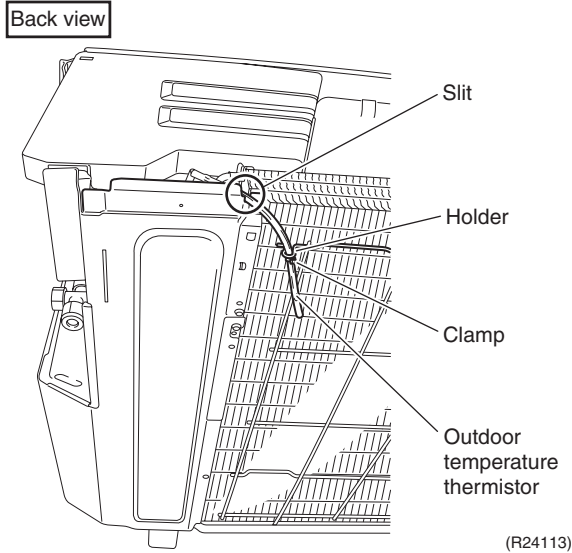
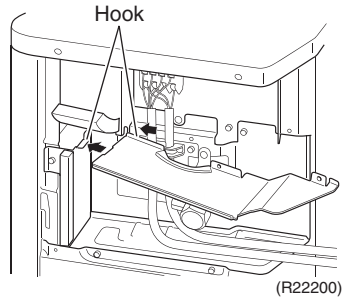
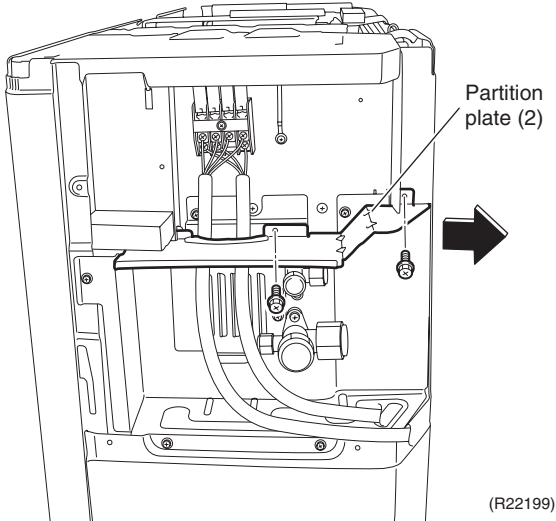


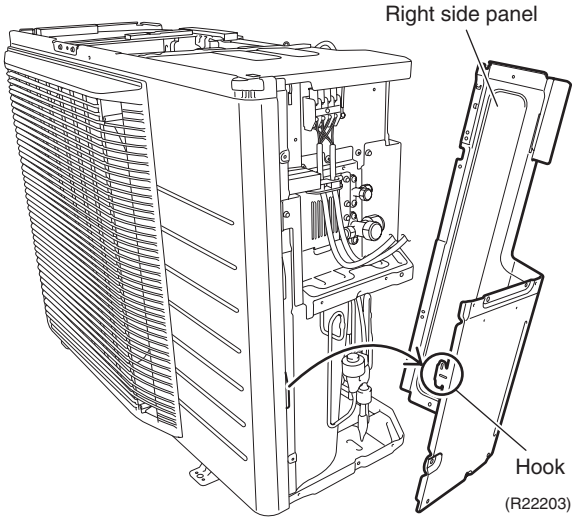
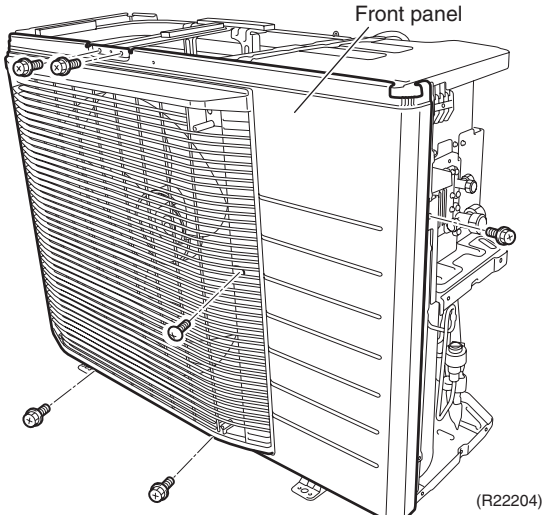
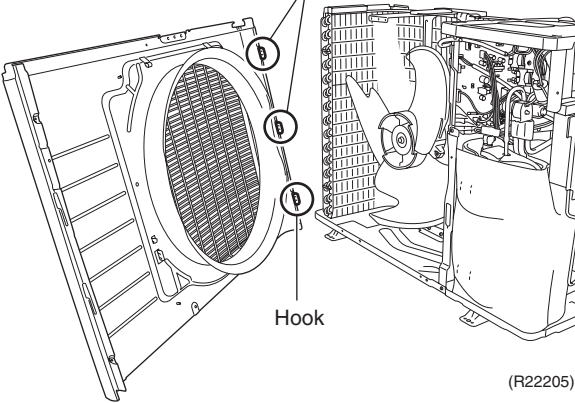
Warning

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

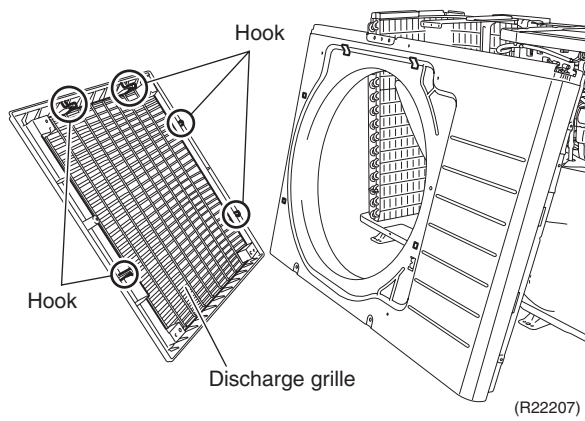
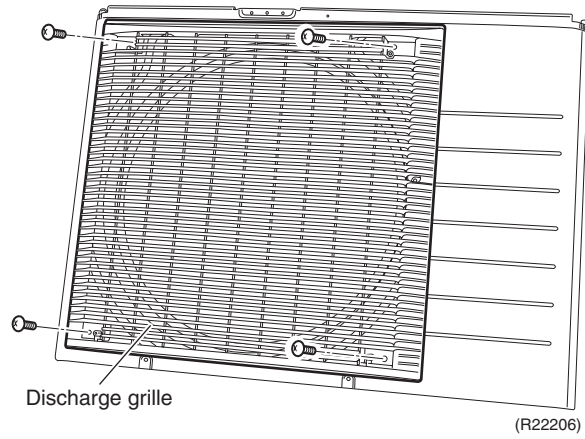
Step	Procedure	Points
1	Remove the 6 screws, and then the top panel.	(R22195)
2	Remove the 3 screws of the terminal cover.	(R22196)
3	Unfasten the 2 hooks and remove the terminal cover.	(R22197)
		<p>■ When reassembling, make sure that the 2 hooks are securely fastened.</p>

Step	Procedure	Points
4	Remove the 2 screws.	
5	Pull the partition plate (2) forward, then slide to the right to remove it.	<ul style="list-style-type: none"> When reassembling, slide the partition plate (2) to the left to securely fasten the 2 hooks.
6	Release the outdoor temperature thermistor from the holder on the protection net and the slit.	<ul style="list-style-type: none"> When reassembling, the outdoor temperature thermistor should be in the position marked by the clamp.
7	Remove the 8 screws of the right side panel.	



Step	Procedure	Points
8	Unfasten the hook and remove the right side panel.	 <p>Right side panel</p> <p>Hook (R22203)</p>
9	Remove the 6 screws of the front panel.	 <p>Front panel</p> <p>(R22204)</p>
10	Unfasten the 3 hooks on the left side.	<p>■ When reassembling, make sure that the 3 hooks are securely fastened.</p>
11	Remove the front panel.	 <p>Hook</p> <p>Hook</p> <p>(R22205)</p>

Step	Procedure	Points
12	Remove the 4 screws of the discharge grille.	
13	Unfasten the 5 hooks and remove the discharge grille.	

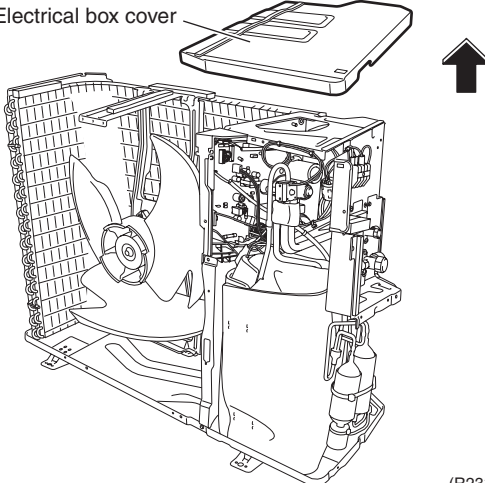
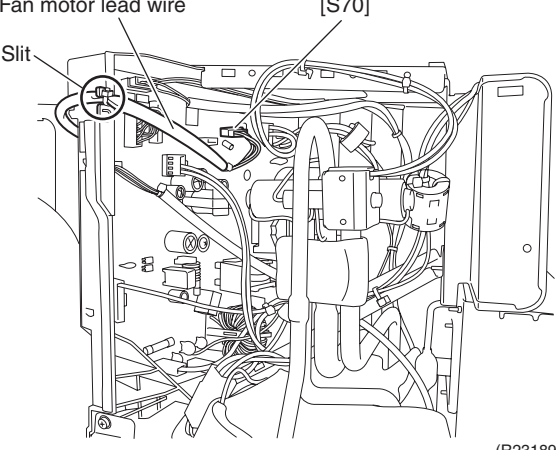
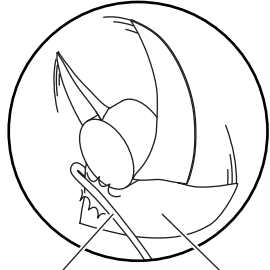
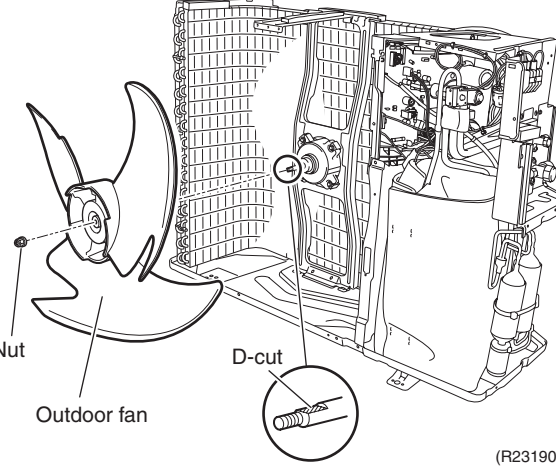
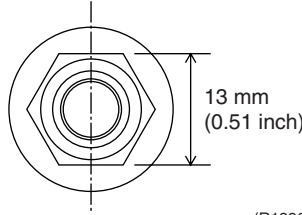


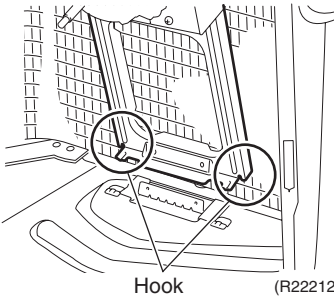
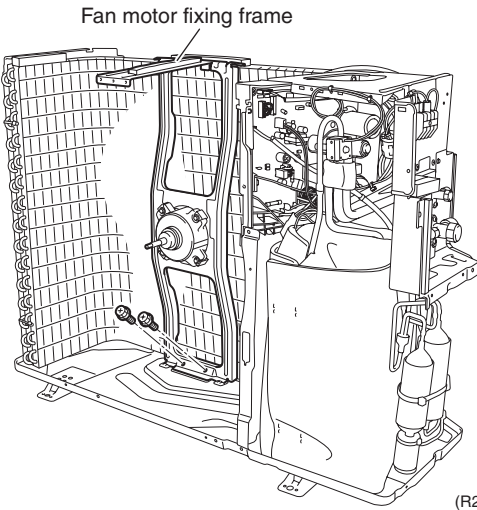
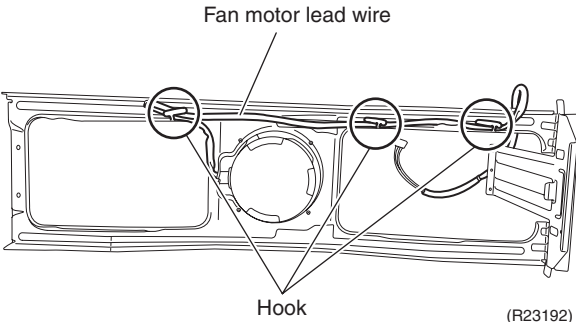
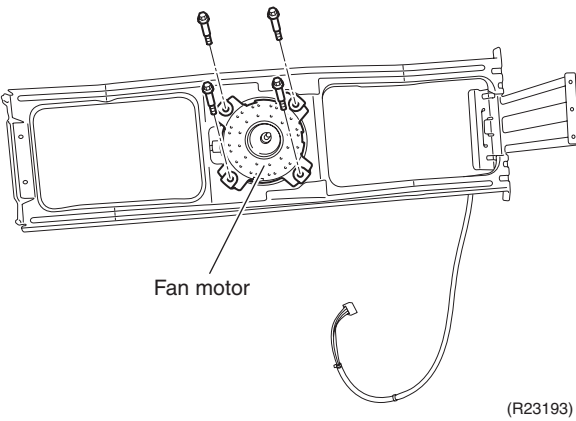
2. Outdoor Fan / Fan Motor



Warning

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

Step	Procedure	Procedure	Points
1	Remove the electrical box cover.	 <p>Electrical box cover</p> <p>(R23188)</p>	
2	Disconnect the connector [S70] and release the fan motor lead wire from the slit.	 <p>Fan motor lead wire</p> <p>[S70]</p> <p>Slit</p> <p>(R23189)</p>	<p>[S70]: fan motor</p> <ul style="list-style-type: none"> ■ When reassembling, put the fan motor lead wire through the back of the fan motor to avoid any entanglement with the outdoor fan.  <p>Lead wire</p> <p>Outdoor fan</p> <p>(R3249)</p>
3	Remove the nut, and then the outdoor fan.	 <p>Nut</p> <p>Outdoor fan</p> <p>D-cut</p> <p>(R23190)</p>	<ul style="list-style-type: none"> ■ Nut size : M8  <p>13 mm (0.51 inch)</p> <p>(R18965)</p> <ul style="list-style-type: none"> ■ When reassembling, align the ▼ mark of the fan rotor with the D-cut section of the motor shaft.

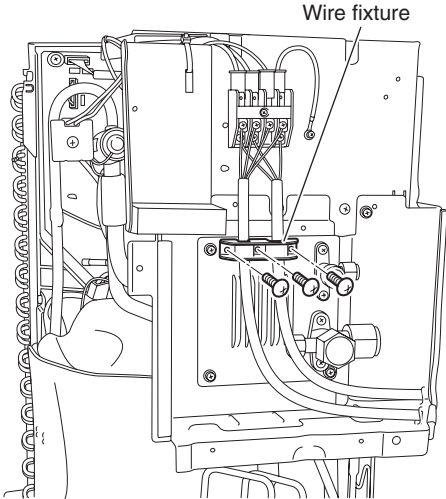
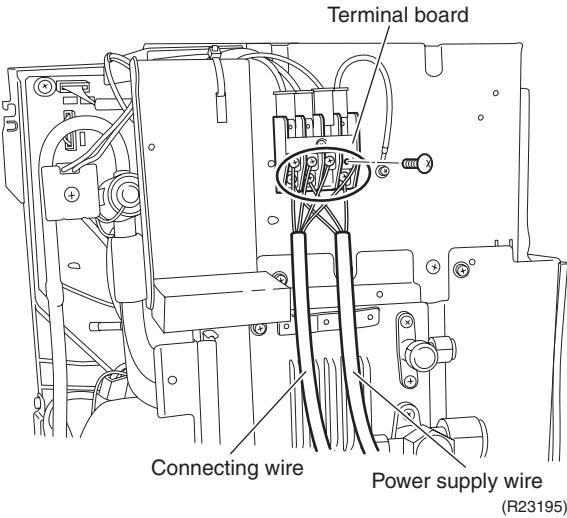
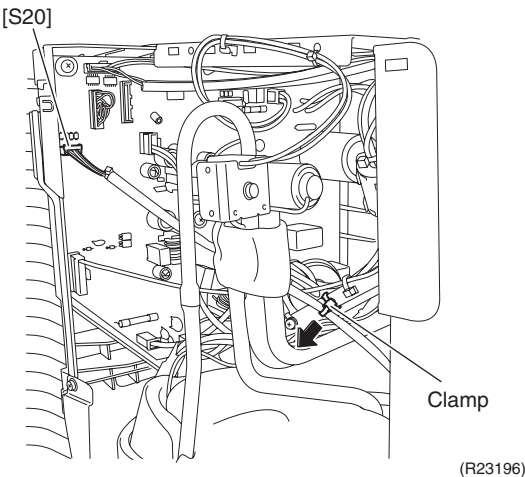
Step	Procedure	Points
4	Remove the 2 screws, and then the fan motor fixing frame.	<ul style="list-style-type: none"> ■ When reassembling, fit the 2 lower hooks into the bottom frame.
5	Open the 3 hooks and release the fan motor lead wire.	
6	Remove the 4 screws from the fan motor.	<ul style="list-style-type: none"> ■ The screws for the fan motor are different depending on the model.
	 <p style="text-align: right;">(R23191)</p>	
	 <p style="text-align: right;">(R23192)</p>	
	 <p style="text-align: right;">(R23193)</p>	

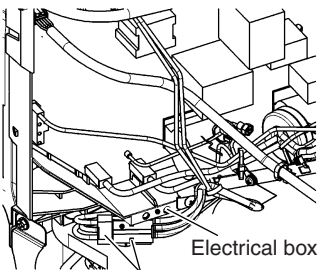
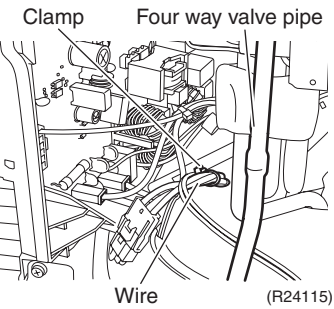
3. Electrical Box

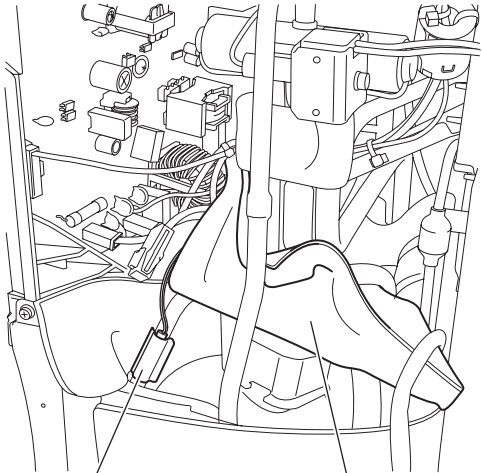
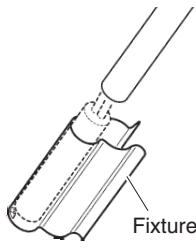
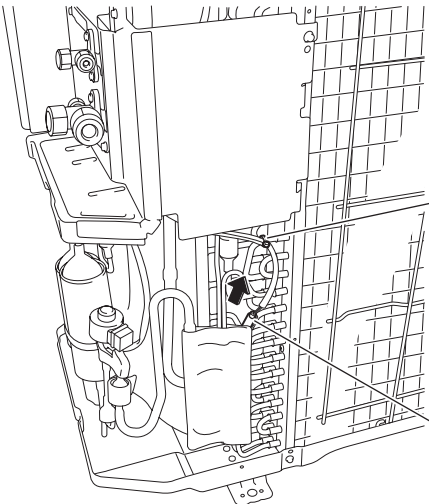
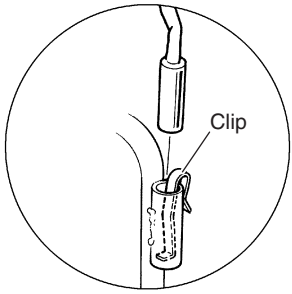
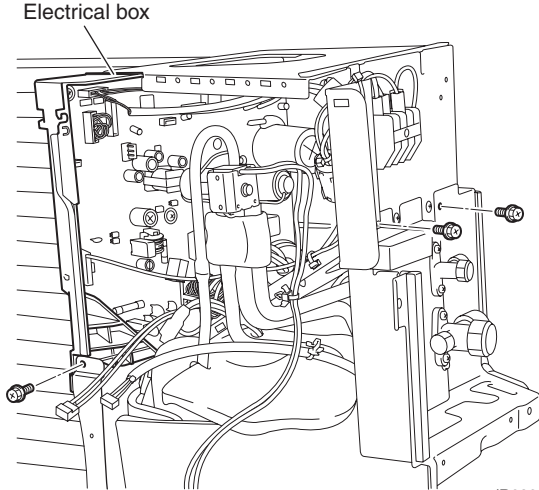


Warning

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

Step	Procedure	Points	
1	Remove the 3 screws, and then the wire fixture.	 <p style="text-align: right;">(R23194)</p>	
2	Remove the 7 screws on the terminal board and disconnect the connecting wire and power supply wire.	 <p style="text-align: right;">(R23195)</p>	
3	Disconnect the connector [S20] and pull out the clamp.	 <p style="text-align: right;">(R23196)</p>	<p>[S20]: electronic expansion valve coil</p> <p>■ When reassembling, connect the connectors in the following order.</p> <ol style="list-style-type: none"> (1) [S40] (2) [S80] (Heat Pump only) (3) [S20] (4) [S70]

Step	Procedure	Points
4	Disconnect the connector [S80], pull out the clamp (1) and cut the clamp (2).	<p>[S80]: four way valve coil</p> <ul style="list-style-type: none"> ■ The cooling only models have no harness for [S80]. ■ The position of the clamp (1) varies depending on the model. ■ Some models do not have clamp (2). ■ When reassembling, fit the clamps back to the hole to make sure the wires do not touch the four way valve.
5	Disconnect the connector [S40].	<p>[S40]: overload protector</p> <ul style="list-style-type: none"> ■ For RX(K)M71QVMA, make sure the relay connector for compressor is under the electrical box.
6	Disconnect the relay connector for compressor and pull out the clamp.	 <p>Electrical box Relay connector (R24114)</p> <ul style="list-style-type: none"> ■ When reassembling, fit the clamp back to the hole to make sure the wires do not touch the four way valve pipe.  <p>Clamp Four way valve pipe Wire (R24115)</p>

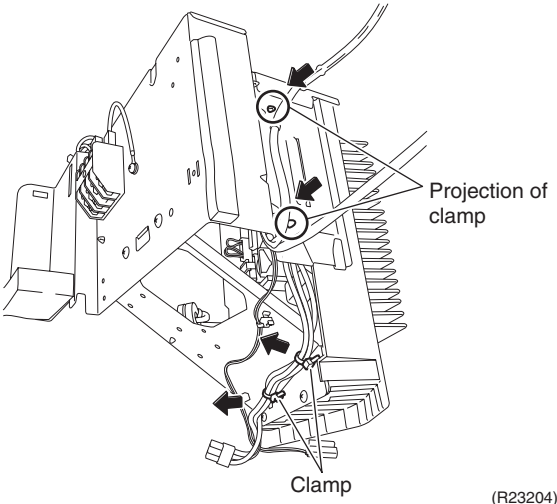
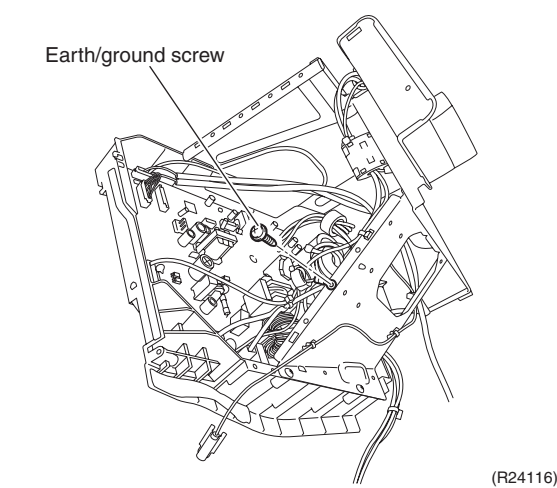
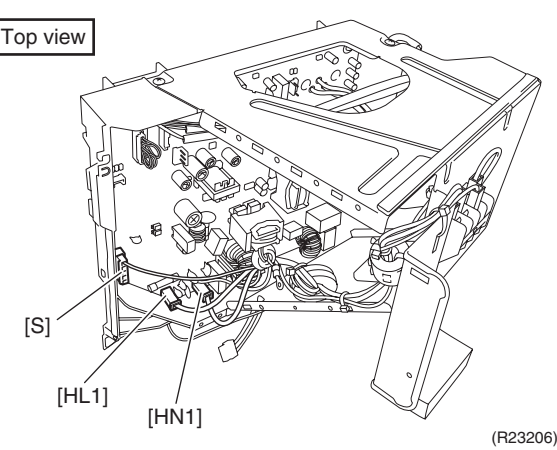
Step	Procedure	Points
7	Open the sound blanket (top) and detach the discharge pipe thermistor.	<ul style="list-style-type: none"> Be careful not to lose the fixture for the thermistor.
	 <p>Discharge pipe thermistor Sound blanket (top) (R23201)</p>	 <p>Fixture (R20430)</p>
8	Cut the clamp and pull out the outdoor heat exchanger thermistor.	<ul style="list-style-type: none"> The position of the clamp and outdoor heat exchanger thermistor varies depending on the model. Be careful not to lose the clip for the thermistor.
	 <p>Clamp Outdoor heat exchanger thermistor (R23202)</p>	 <p>Clip (R3264)</p>
9	Remove the 3 screws, and then the electrical box.	
	 <p>Electrical box (R23203)</p>	

4. Thermistor ASSY / PCB

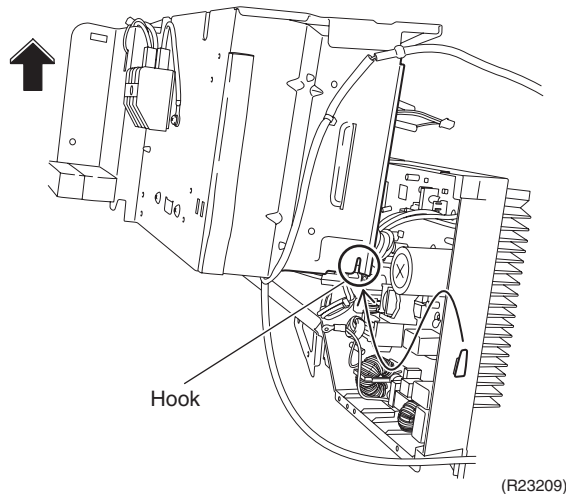
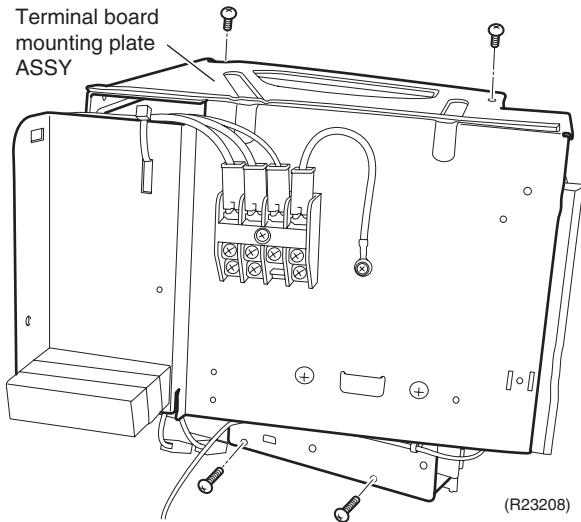
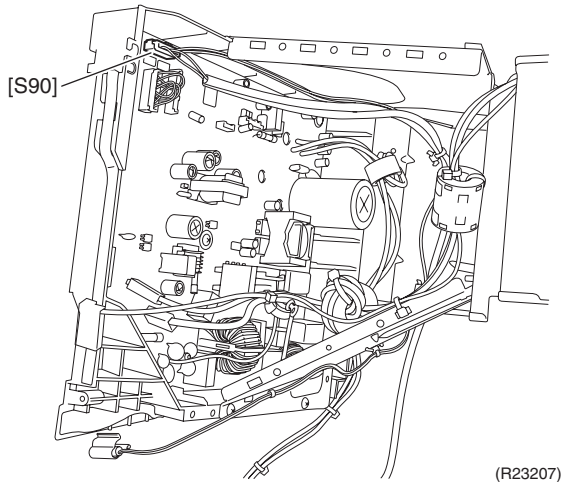


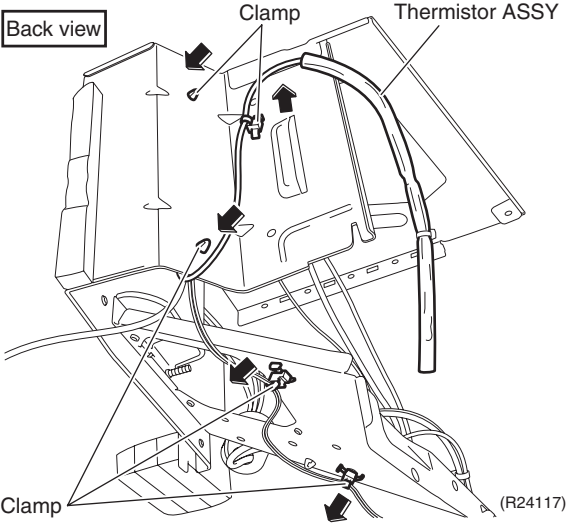
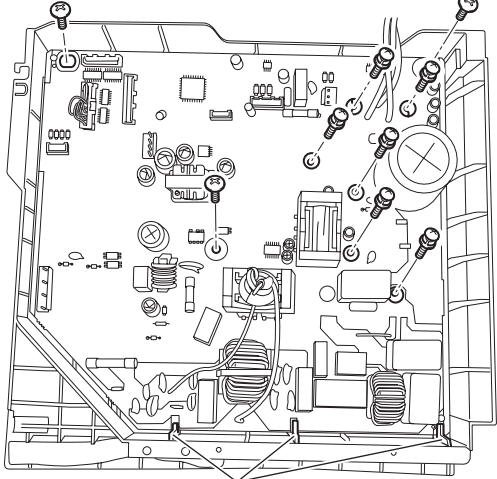
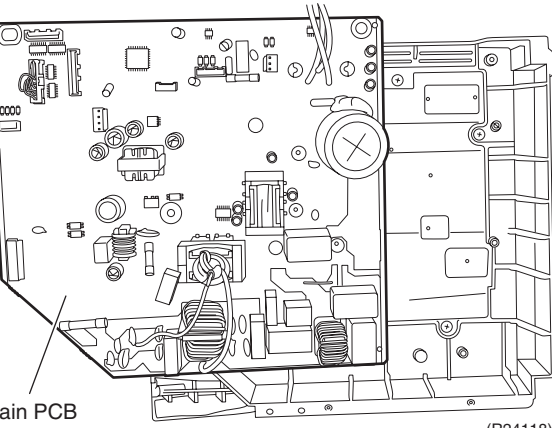
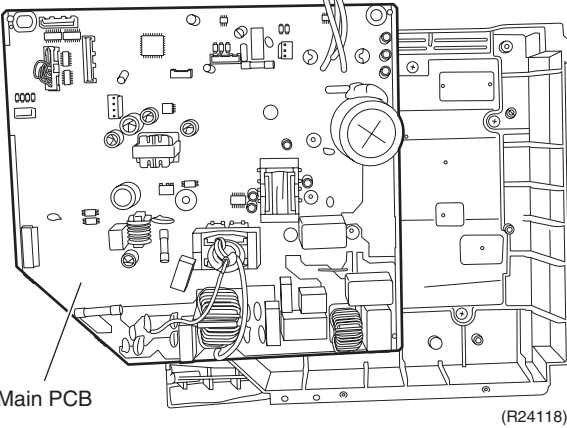
Warning

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

Step	Procedure	Points
1. Remove the thermistor ASSY.	 <p>(R23204)</p>	
1 Pull out the 2 clamps and push the 2 projections of the clamps from the back of the electrical box and pull them out.	 <p>(R24116)</p>	
2 Remove the earth/ground screw.	 <p>(R23206)</p>	[HL1], [HN1], [S]: terminal board
3 Disconnect the 3 terminals for power supply.		

Step	Procedure	Points
4	Disconnect the connector [S90].	[S90]: thermistors
5	Remove the 4 screws of the terminal board mounting plate ASSY.	
6	Slide up and remove the terminal board mounting plate ASSY.	<ul style="list-style-type: none"> ■ When reassembling, make sure the hook is securely fastened.



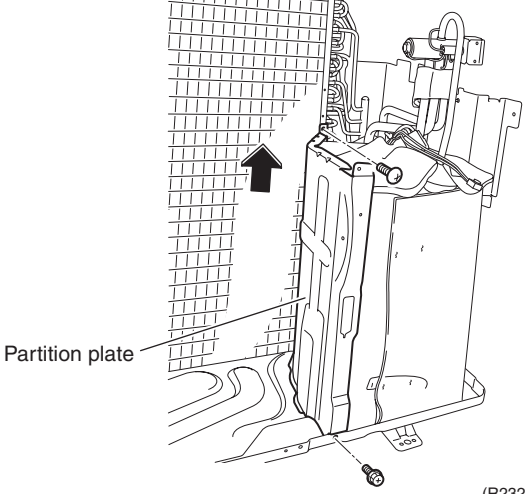
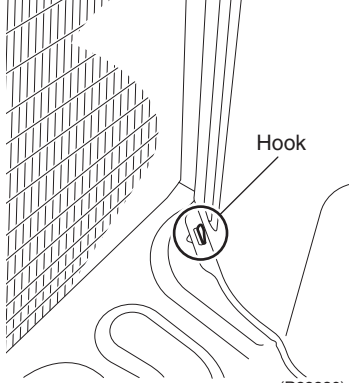
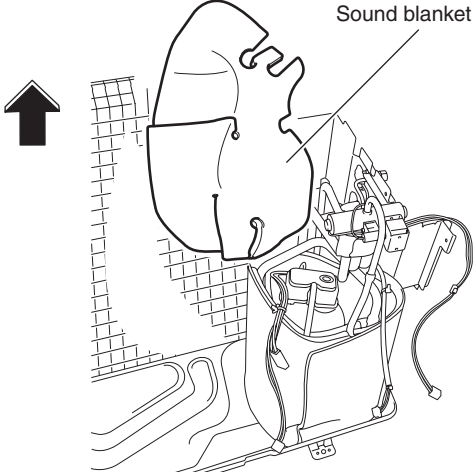
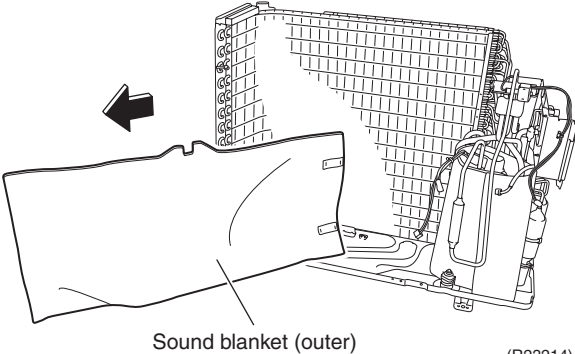
Step	Procedure	Points
7	Pull out the 5 clamps and remove the thermistor ASSY.	
2.	Remove the main PCB.	
1	Remove the 9 screws on the PCB.	
2	Unfasten the 3 hooks.	
3	Remove the main PCB.	

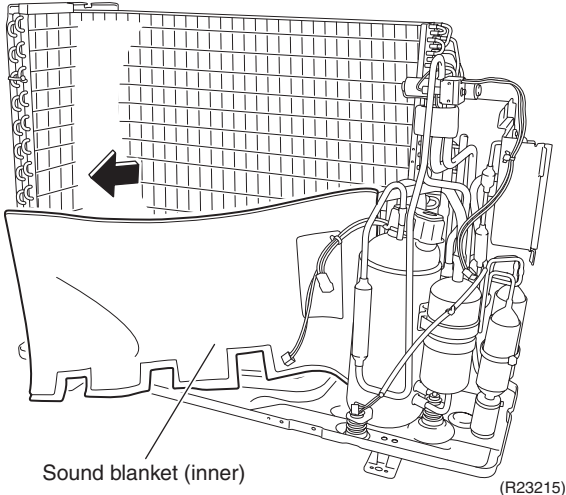
5. Partition Plate / Sound Blankets



Warning

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

Step	Procedure	Points
<p>1. Remove the partition plate.</p> <p>1 Remove the 2 screws.</p> <p>2 Lift up the partition plate and remove it.</p>	 <p>(R23212)</p>	<ul style="list-style-type: none"> ■ When reassembling, fit the lower hook into the bottom frame.  <p>(R22236)</p>
<p>2. Remove the sound blankets.</p> <p>1 Remove the sound blanket (top).</p> <p>2 Open and pull out the sound blanket (outer).</p>	 <p>(R23213)</p>  <p>(R23214)</p>	<ul style="list-style-type: none"> ■ The design of the sound blankets varies depending on the model. ■ Some models have an additional sound blanket (inner top). ■ Since piping ports are torn easily, remove the sound blanket carefully.

Step	Procedure	Points
3	Remove the sound blanket (inner).	
 <p>Sound blanket (inner)</p> <p>(R23215)</p>		

6. Electronic Expansion Valve Coil / 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.)



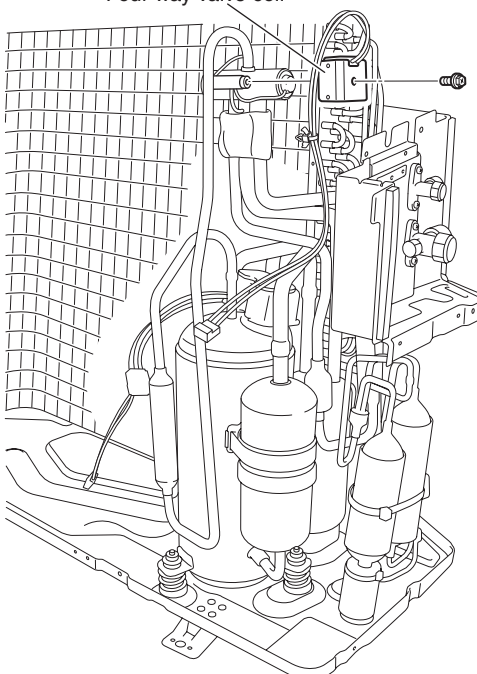
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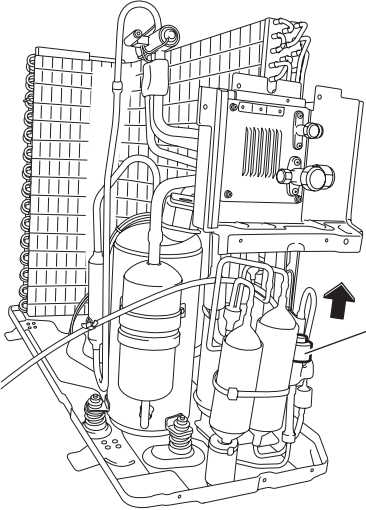
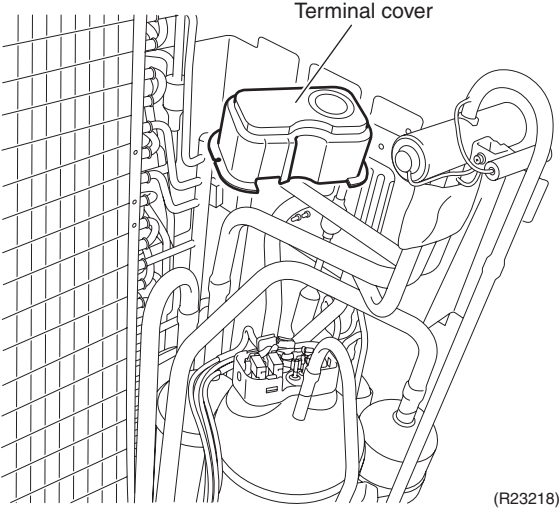
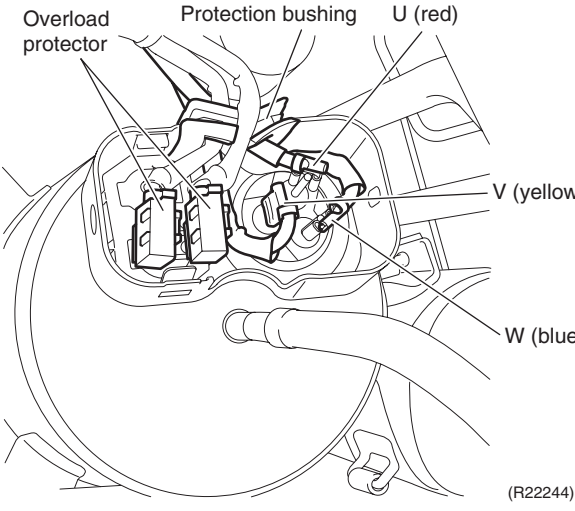
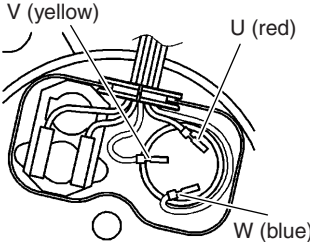
- ♦ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ♦ **Cautions for restoration**
 1. Restore the piping by non-oxidation brazing.
 2. It is required to prevent the carbonization of the oil inside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



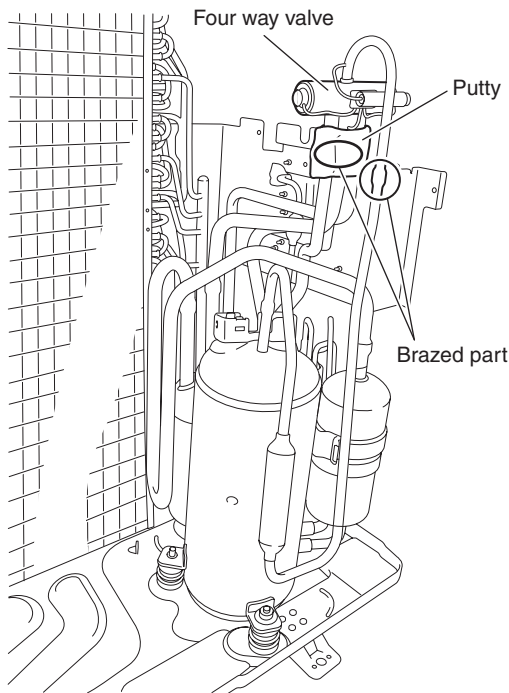
Note

- ♦ 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.

Step		Procedure	Points
1	Remove the screw, and then the four way valve coil.	<p style="text-align: center;">Four way valve coil</p>  <p style="text-align: right;">(R23216)</p>	<ul style="list-style-type: none"> ■ The cooling only models have no four way valve coil.

Step	Procedure	Points
2	Pull out the electronic expansion valve coil.	
	 <p>Electronic expansion valve coil</p> <p>(R23217)</p>	
3	Remove the terminal cover.	
	 <p>Terminal cover</p> <p>(R23218)</p>	
4	Remove the protection bushing.	
5	Disconnect the compressor lead wires and the overload protector.	
	 <p>Overload protector Protection bushing U (red)</p> <p>V (yellow)</p> <p>W (blue)</p> <p>(R22244)</p>	<p>■ For RX(K)M71QVMA, the wiring of the compressor lead wires is slightly different.</p>  <p>V (yellow)</p> <p>U (red)</p> <p>W (blue)</p> <p>(R24119)</p>

Step	Procedure	Points
6	Remove the putty.	<ul style="list-style-type: none"> ■ The location of the putties varies depending on the model.
7	Heat up the 4 brazed parts and remove the four way valve.	



(R23219)

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.



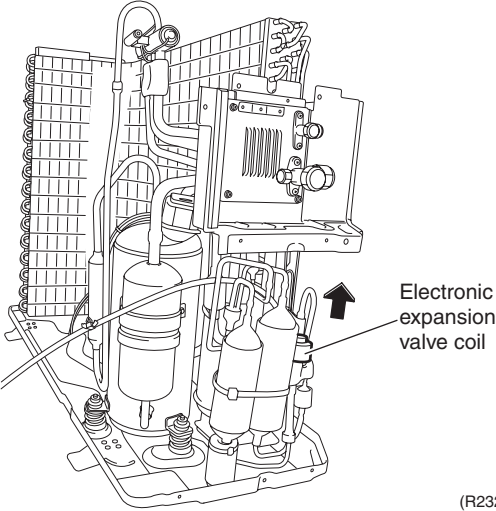
Caution

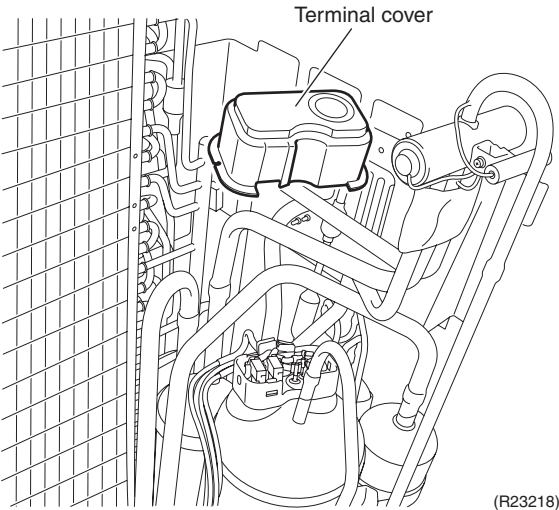
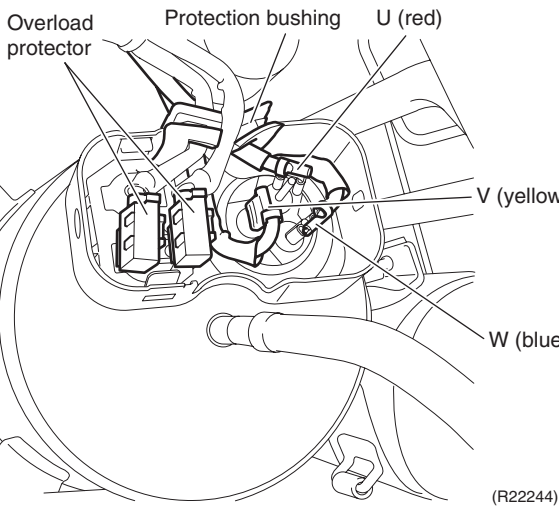
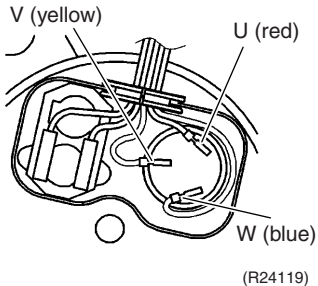
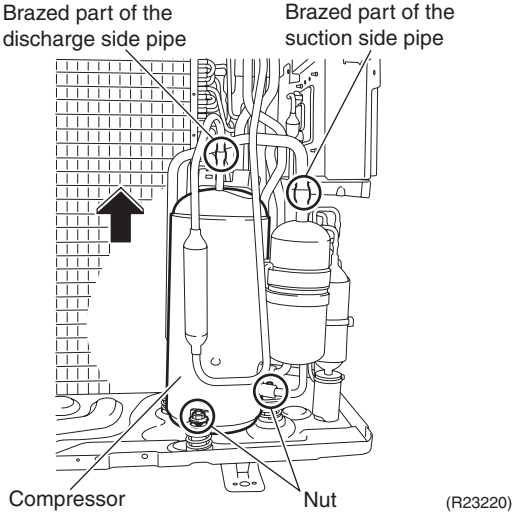
- ◆ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ◆ Restore the piping by non-oxidation brazing.



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.

Step	Procedure	Points
1	Pull out the electronic expansion valve coil.	 <p style="text-align: right;">(R23217)</p>

Step	Procedure	Points
2	Remove the terminal cover.	 <p>Terminal cover</p> <p>(R23218)</p>
3	Remove the protection bushing.	 <p>Overload protector</p> <p>Protection bushing</p> <p>U (red)</p> <p>V (yellow)</p> <p>W (blue)</p> <p>(R22244)</p>
4	Disconnect the compressor lead wires and the overload protector.	<p>■ For RX(K)M71QVMA, the wiring of the compressor lead wires is slightly different.</p>  <p>V (yellow)</p> <p>U (red)</p> <p>W (blue)</p> <p>(R24119)</p>
5	Heat up the brazed part of the discharge side pipe and disconnect it.	 <p>Brazed part of the discharge side pipe</p> <p>Brazed part of the suction side pipe</p> <p>Compressor</p> <p>Nut</p> <p>(R23220)</p>
6	Heat up the brazed part of the suction side pipe and disconnect it.	
7	Remove the 2 nuts of the compressor.	
8	Lift up the compressor and remove it.	

Revision History

Month / Year	Version	Revised contents
03 / 2016	Si001654E	First edition
11 / 2016	Si001654EA	Model addition: RXF71QVMA

Warning



- 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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