




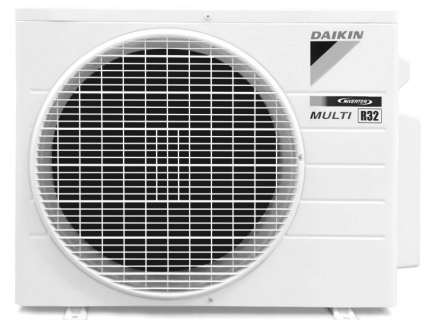
REMOVAL PROCEDURE



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

3.0 kW Class

-  Outdoor Unit
-  Inverter
-  Multi Type



Service Manual Removal Procedure

Outdoor Unit

●Cooling Only

2MKC30QVM4

Table of Contents

1. Outer Panels	2
2. Outdoor Fan / Fan Motor.....	3
3. Electrical Box / PCB	5
4. Thermistor ASSY	11
5. Right Side Panel / Partition Plates / Sound Blankets	13
6. Electronic Expansion Valve Coils / Gas Pipe Thermistor ASSY	17
7. Compressor.....	18

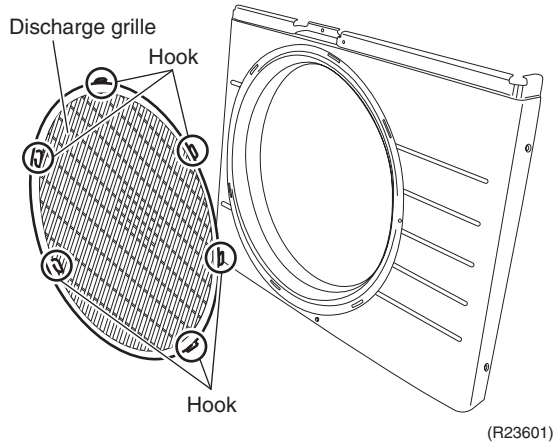
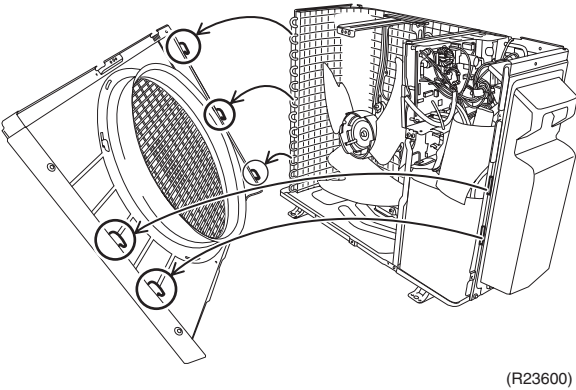
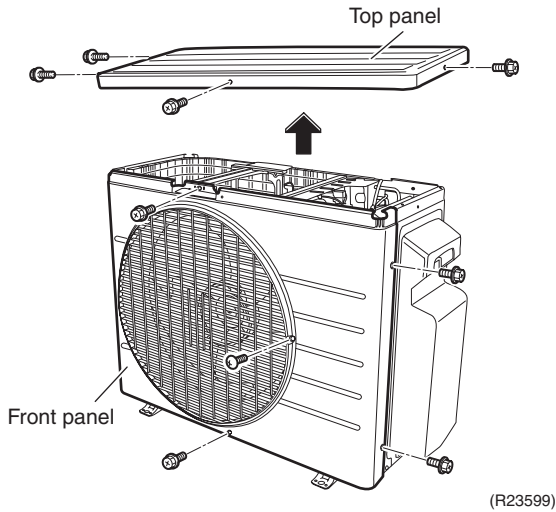
1. Outer Panels



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 4 screws, and then the top panel.	
2	Remove the 5 screws of the front panel.	
3	Lift up the left side of the front panel and unfasten the 3 hooks.	<p>■ When reassembling, make sure that the 5 hooks are securely fastened.</p>
4	Unfasten the 2 right side hooks and remove the front panel.	
5	Rotate the discharge grille counterclockwise to unfasten the 6 hooks.	
6	Remove the discharge grille.	

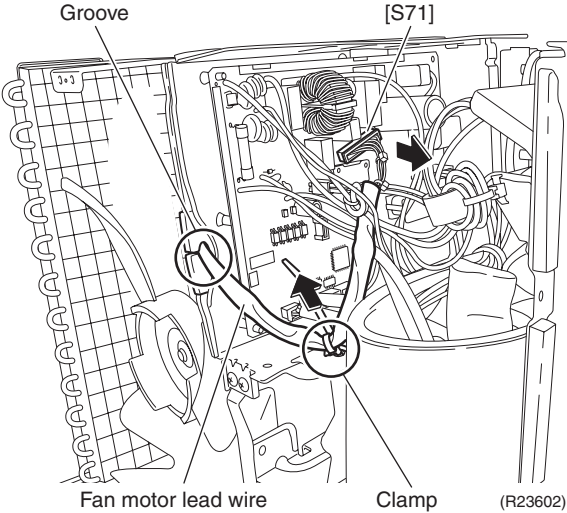
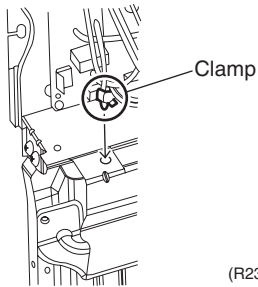
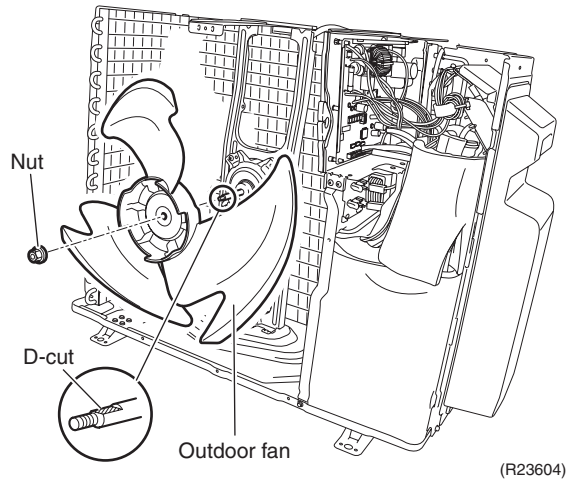
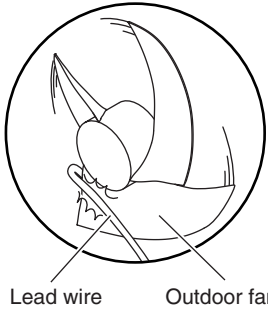
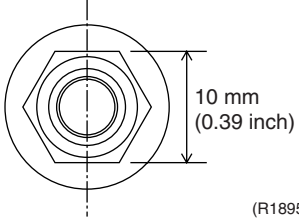


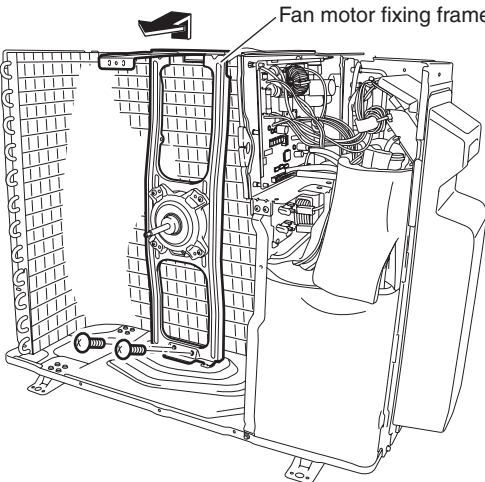
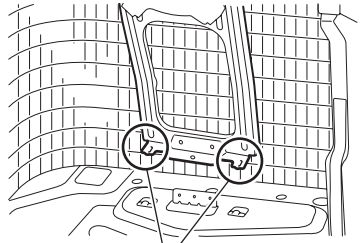
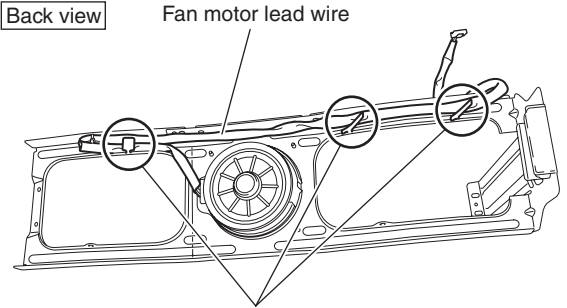
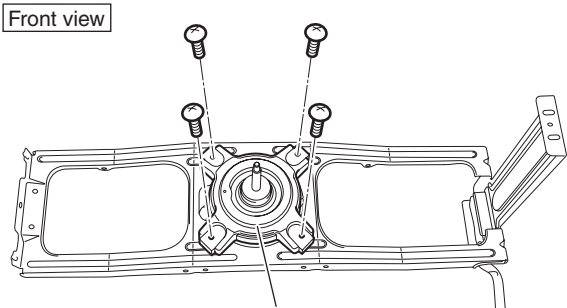
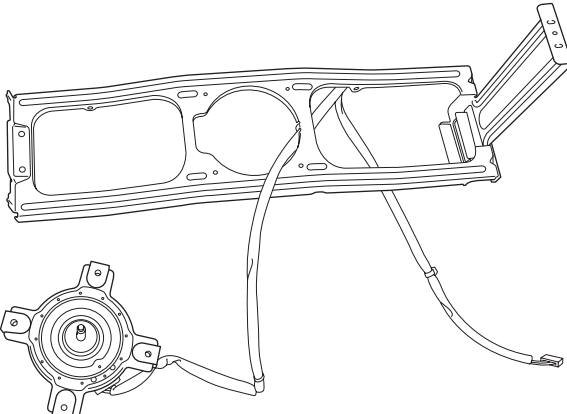
2. Outdoor Fan / Fan Motor



Warning

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

Step	Procedure	Points
1	Disconnect the connector [S71] and pull out the clamp.	[S71]: fan motor
2	Release the fan motor lead wire from the groove.	<ul style="list-style-type: none"> ■ When reassembling, fix the shield plate to the electrical box using the clamp.
3	Remove the nut, and then the outdoor fan.	<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.
		
		<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. 
		<ul style="list-style-type: none"> ■ Nut size: M6 
		<ul style="list-style-type: none"> ■ When reassembling, align the ▼ mark of the outdoor fan with the D-cut section of the motor shaft.

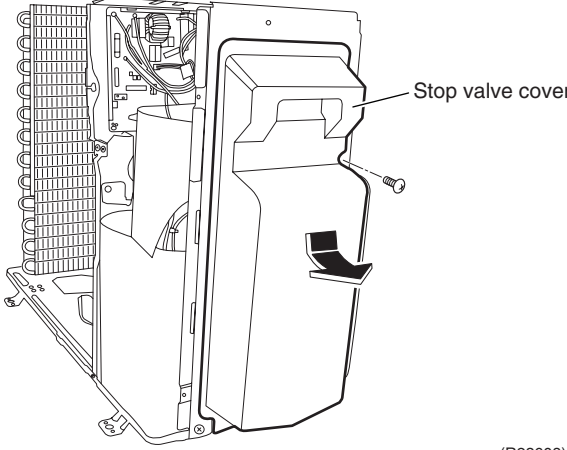
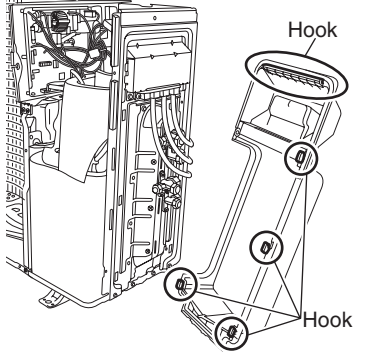
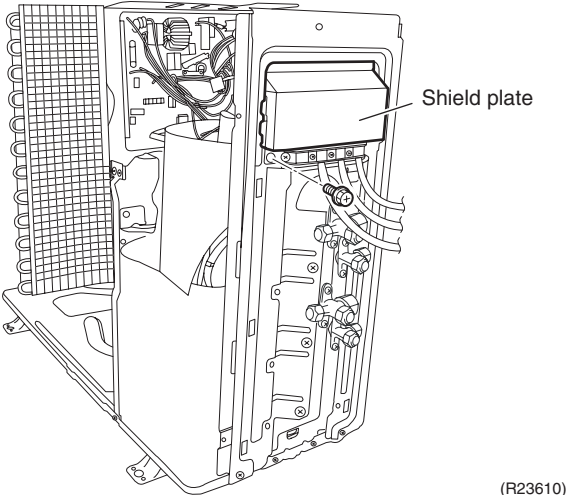
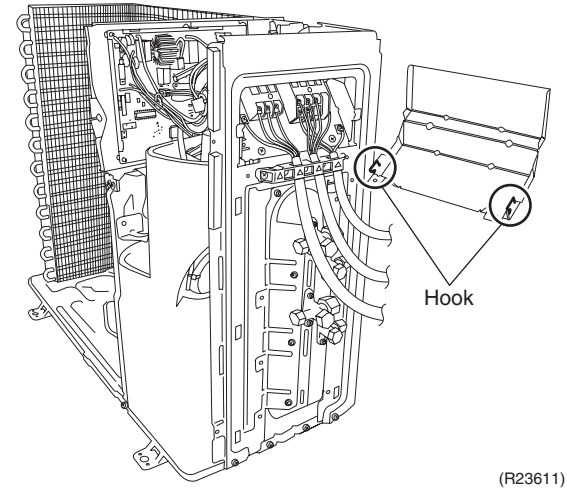
Step	Procedure	Points
4	Remove the 2 screws, and then the fan motor fixing frame.	<ul style="list-style-type: none"> When reassembling, fit the 2 lower hooks into the bottom frame.
		
5	Unfasten the 3 hooks on the fan motor fixing frame and release the fan motor lead wire.	
		
6	Remove the 4 screws from the fan motor.	
		
7	Remove the fan motor.	
		

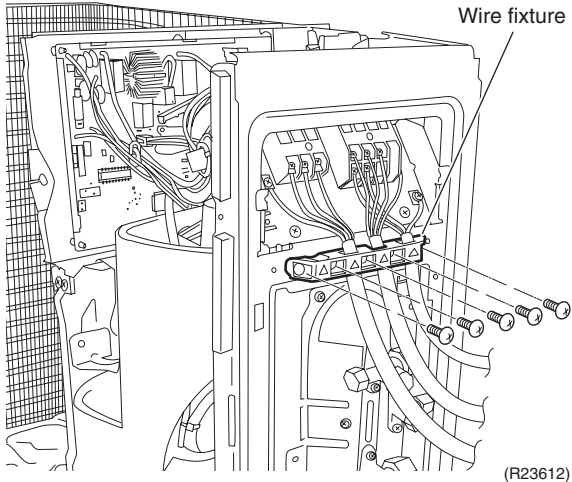
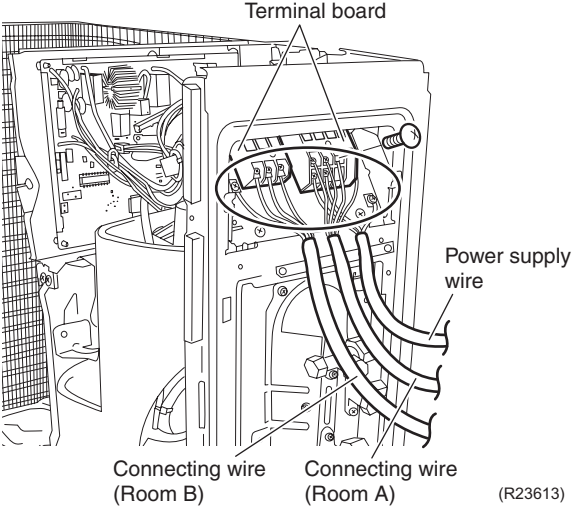
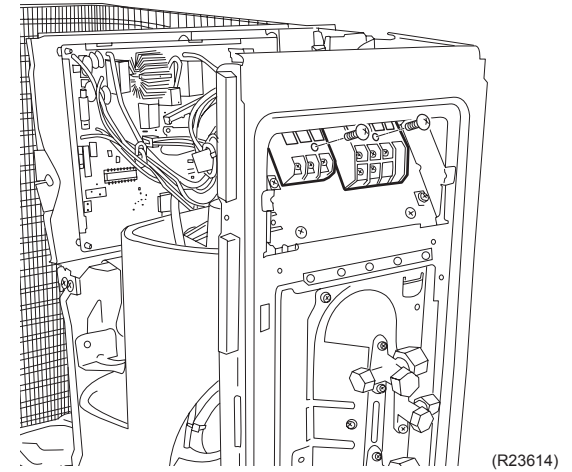
3. Electrical Box / PCB



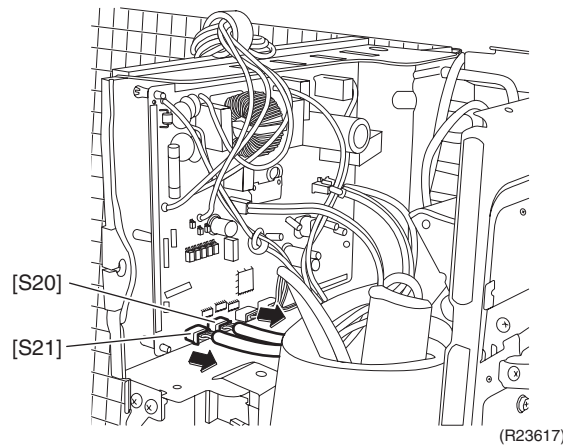
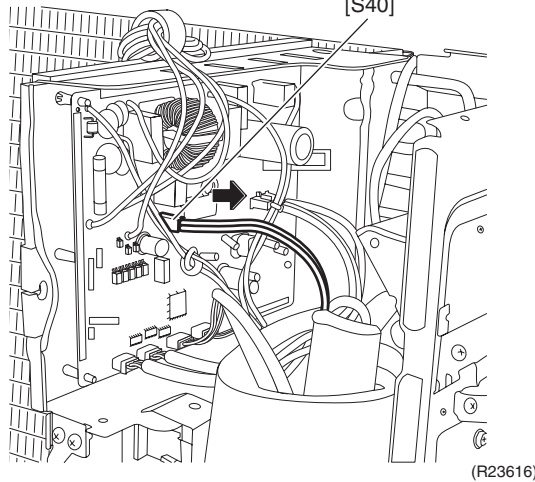
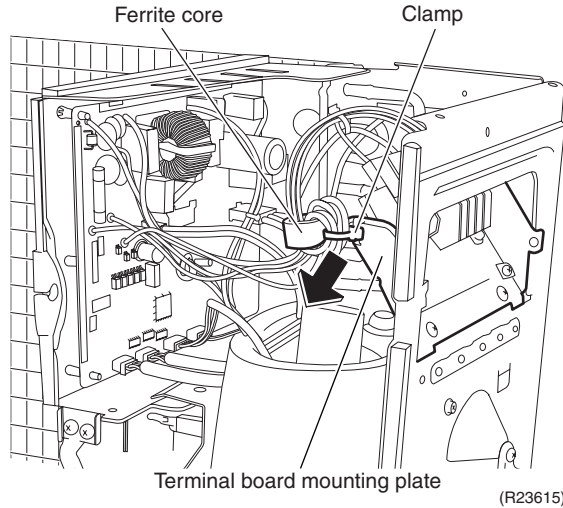
Warning

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

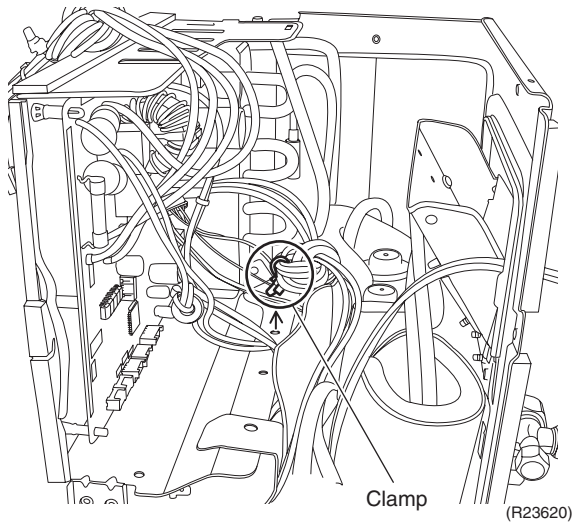
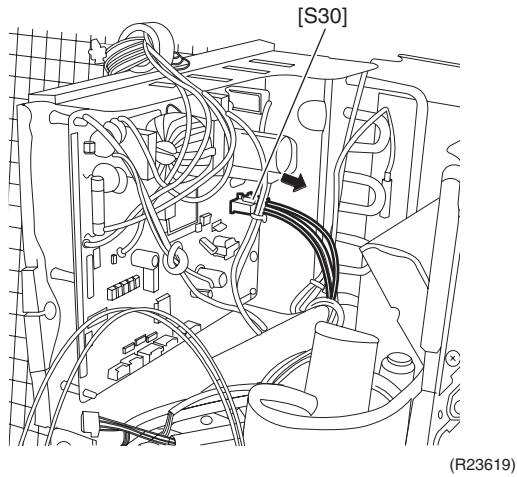
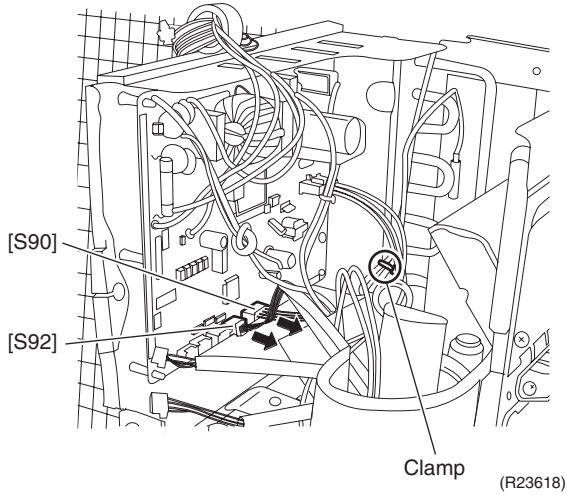
Step	Procedure	Points
1. Remove the shield plate.	 <p>(R23608)</p>	<ul style="list-style-type: none"> ■ When reassembling, make sure that the 5 hooks are securely fastened.  <p>(R23609)</p>
3 Remove the screw of the shield plate.	 <p>(R23610)</p>	
4 Lift up the shield plate and unfasten the 2 hooks to remove it.	 <p>(R23611)</p>	<ul style="list-style-type: none"> ■ When reassembling, make sure that the 2 hooks are securely fastened.

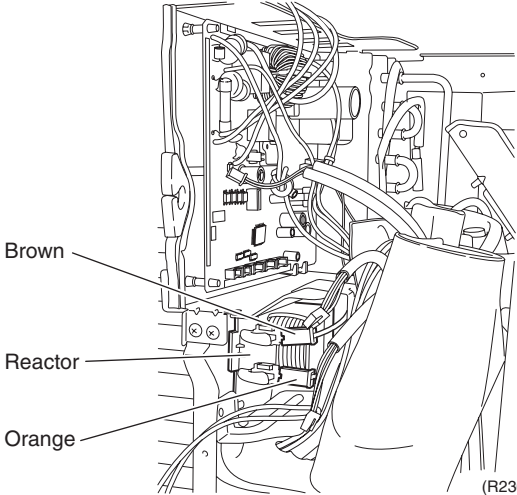
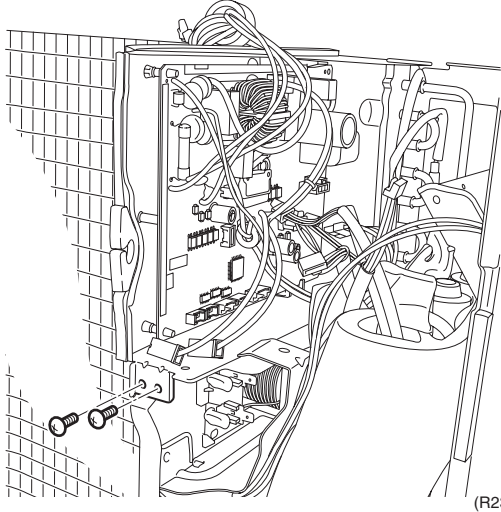
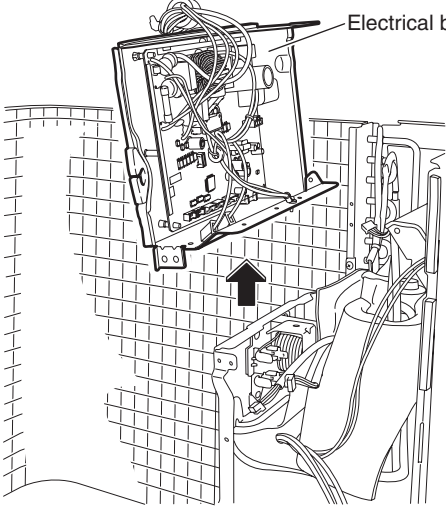
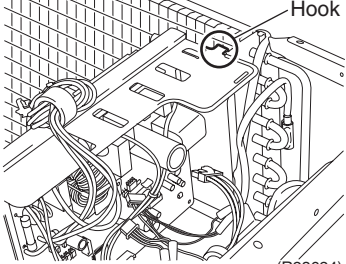
Step	Procedure	Points
<p>2. Remove the terminal boards.</p>	 <p>Wire fixture</p> <p>(R23612)</p>	
<p>1 Remove the 5 screws, and then the wire fixture.</p> <p>2 Remove the 11 screws on the 2 terminal boards and disconnect the 2 connecting wires (Room A and B) and power supply wire.</p>	 <p>Terminal board</p> <p>Power supply wire</p> <p>Connecting wire (Room B)</p> <p>Connecting wire (Room A)</p> <p>(R23613)</p>	
<p>3 Remove the 2 screws of the 2 terminal boards.</p>	 <p>(R23614)</p>	

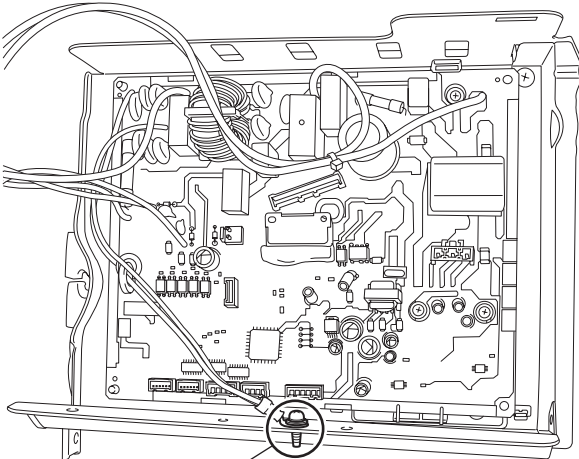
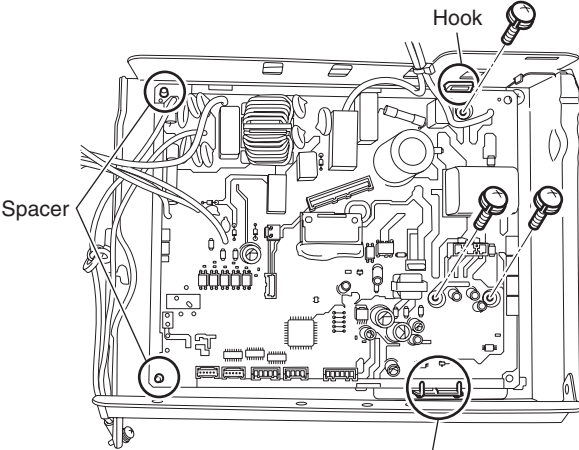
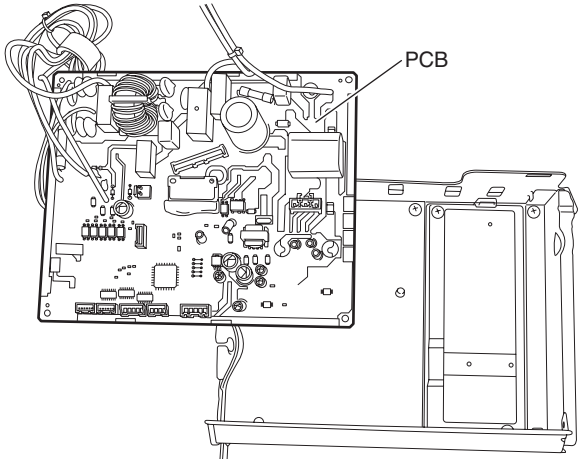
Step	Procedure	Points
4	Pull out the clamp and remove the 2 terminal boards from the terminal board mounting plate.	<ul style="list-style-type: none"> ■ When reassembling, make sure the ferrite core does not touch the terminal board mounting plate.
3. Remove the electrical box.		[S40]: overload protector
1	Disconnect the connector [S40].	[S20] (white): electronic expansion valve coil for room A [S21] (red): electronic expansion valve coil for room B
2	Disconnect the connectors [S20] and [S21].	



Step	Procedure	Points
3	Disconnect the connectors [S90] and [S92] and pull out the clamp.	[S90], [S92]: thermistors
4	Disconnect the connector [S30].	[S30]: compressor
5	Pull out the clamp.	



Step	Procedure	Points
6	Disconnect the 2 connectors for the reactor.	 <p>(R23621)</p>
7	Remove the 2 screws of the electrical box.	 <p>(R23622)</p>
8	Lift up the electrical box and remove it.	<p>■ When reassembling, make sure to fit the rear hook.</p>  <p>(R23623)</p>  <p>(R23624)</p>

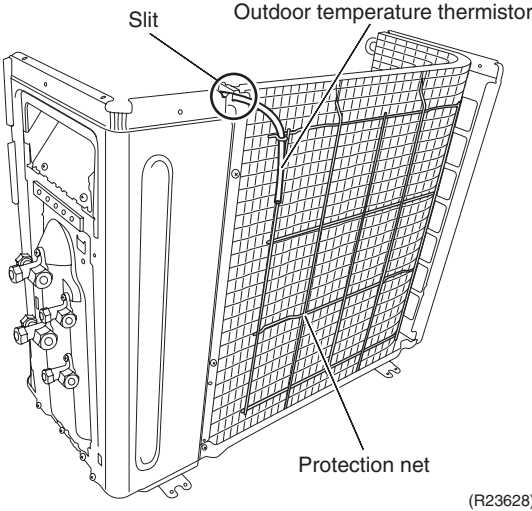
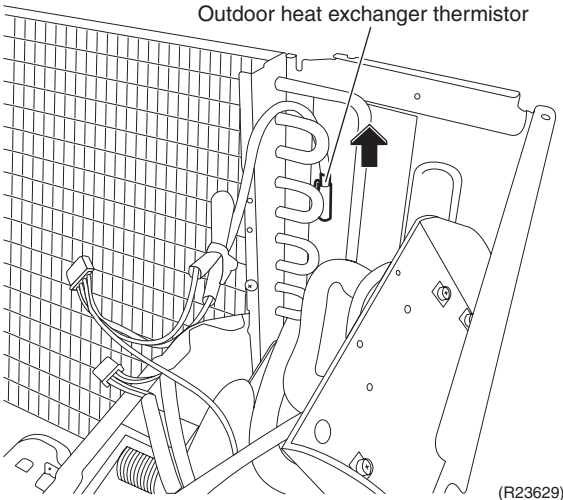
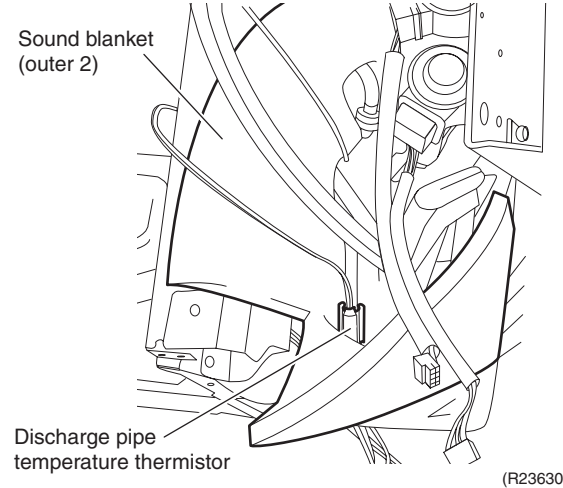
Step	Procedure	Points
4. Remove the PCB.	 <p data-bbox="616 703 804 734">Earth/ground screw</p> <p data-bbox="995 719 1062 734">(R23625)</p>	
<p data-bbox="153 763 448 824">1 Remove the earth/ground screw.</p> <p data-bbox="153 869 448 987">2 Remove the 3 screws of the PCB.</p> <p data-bbox="153 869 448 987">3 Unfasten the upper hook first, then the 2 spacers and the lower hook.</p>	 <p data-bbox="922 792 975 824">Hook</p> <p data-bbox="488 987 557 1019">Spacer</p> <p data-bbox="895 1240 948 1272">Hook</p> <p data-bbox="995 1267 1062 1283">(R23626)</p>	
4 Remove the PCB.	 <p data-bbox="890 1384 943 1415">PCB</p> <p data-bbox="995 1805 1062 1821">(R23627)</p>	

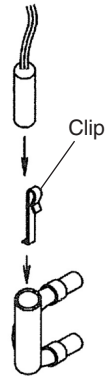
4. Thermistor ASSY



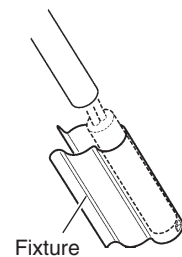
Warning

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

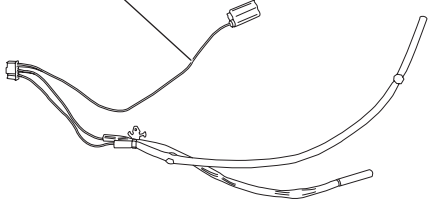
Step	Procedure	Points	
1	Release the outdoor temperature thermistor from the protection net and the slit.		
2	Remove the outdoor heat exchanger thermistor.		<ul style="list-style-type: none"> ■ Be careful not to lose the clip for the thermistor.
3	Open the sound blanket (outer 2) and pull out the discharge pipe temperature thermistor.		<ul style="list-style-type: none"> ■ Be careful not to lose the fixture for the thermistor.



(R20852)



(R20854)

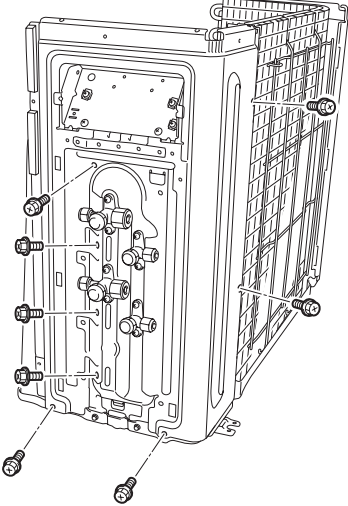
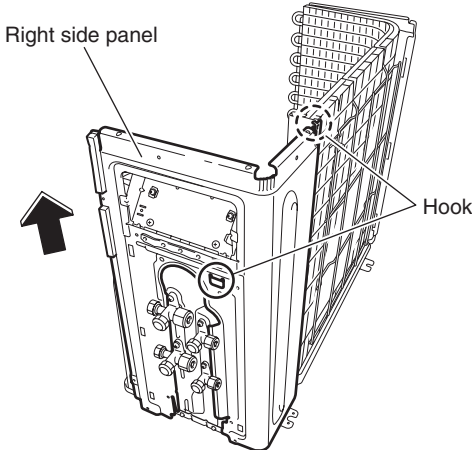
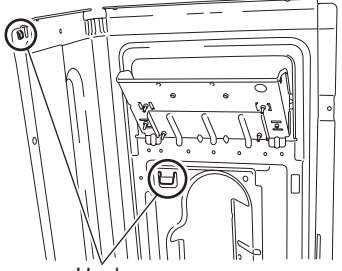
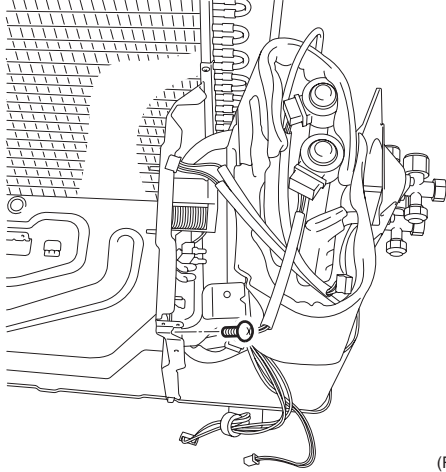
Step		Procedure	Points
4	Remove the thermistor ASSY.	<p data-bbox="603 241 767 271">Thermistor ASSY</p>  <p data-bbox="995 490 1066 515">(R23631)</p>	

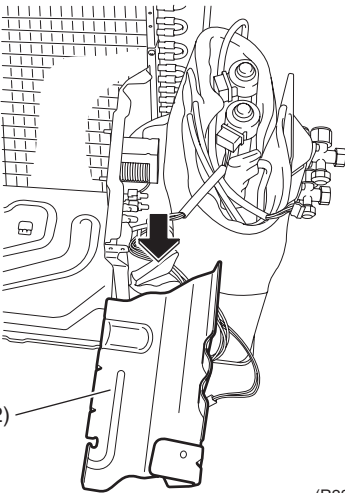
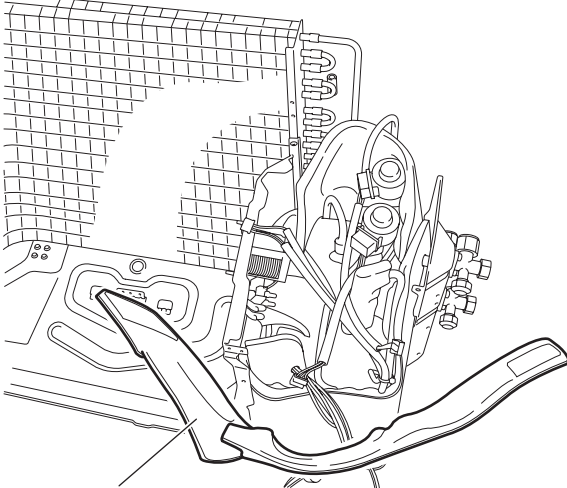
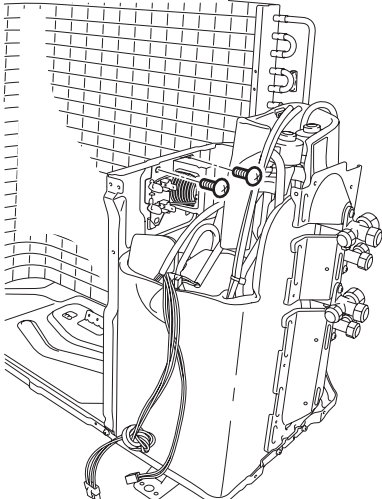
5. Right Side Panel / Partition Plates / Sound Blankets

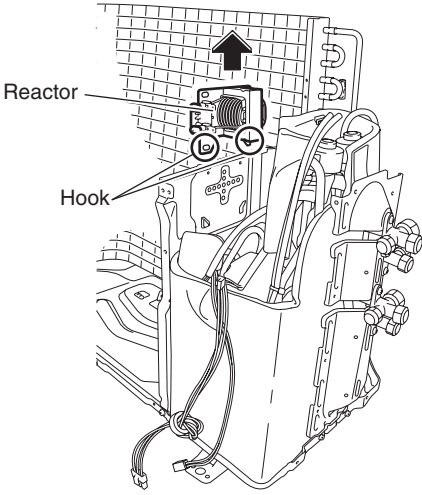
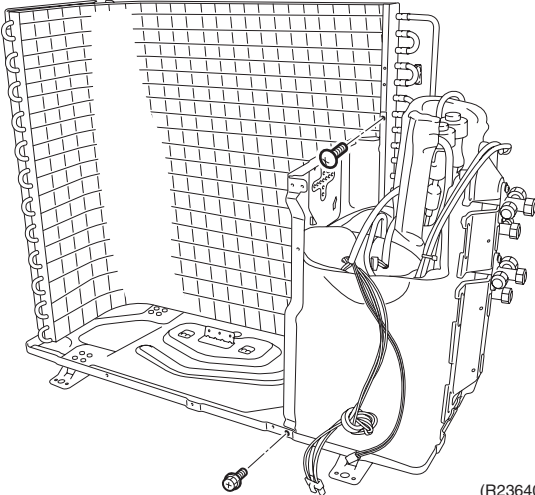
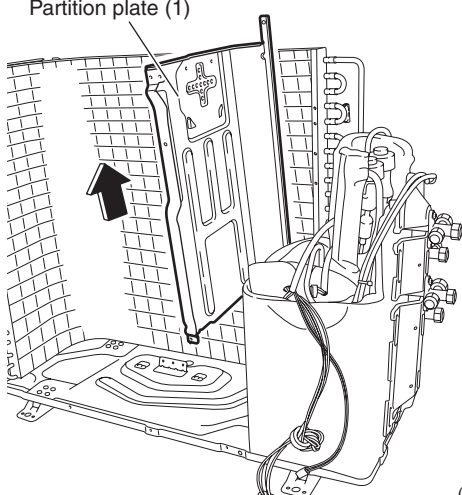
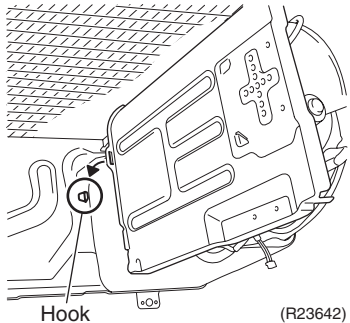


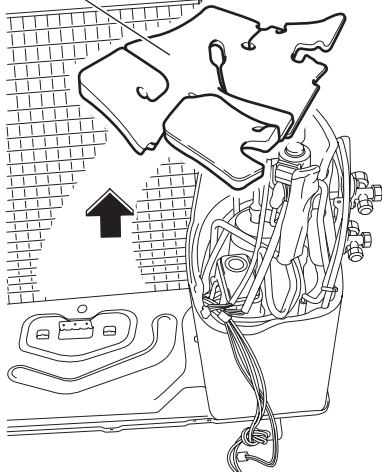
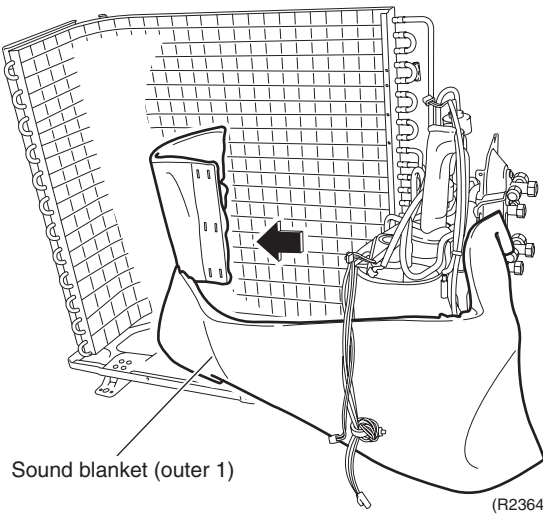
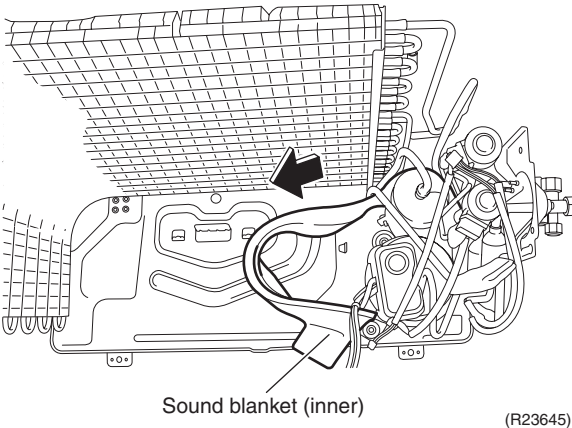
Warning

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

Step	Procedure	Points
1. Remove the right side panel.	 <p>(R23632)</p>  <p>(R23633)</p>	<p>■ When reassembling, make sure that the 2 hooks are securely fastened.</p> <p>Back view of right side panel</p>  <p>(R23634)</p>
2. Remove the partition plates.	 <p>(R23635)</p>	
1. Remove the screw.		

Step	Procedure	Points
2	Pull out the partition plate (2) and remove it.	
	 <p>Partition plate (2)</p> <p>(R23636)</p>	
3	Detach the fastener and remove the sound blanket (outer 2).	
	 <p>Sound blanket (outer 2)</p> <p>(R23637)</p>	
4	Remove the 2 screws.	
	 <p>(R23638)</p>	

Step	Procedure	Points
5	Slide the reactor up to unfasten the 2 hooks and remove the reactor.	
	 <p style="text-align: right;">(R23639)</p>	
6	Remove the 2 screws.	
	 <p style="text-align: right;">(R23640)</p>	
7	Lift up the partition plate (1) and remove it.	
	 <p style="text-align: right;">(R23641)</p>	<p>■ When reassembling, fit the hook on the bottom frame.</p>
		 <p style="text-align: right;">(R23642)</p>

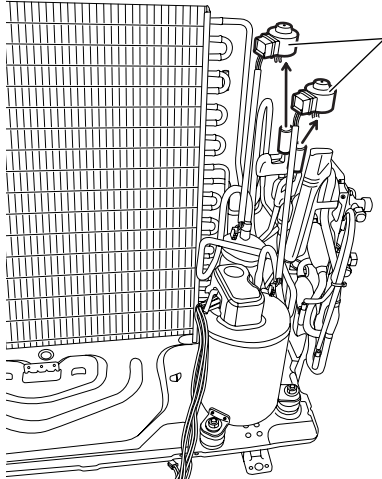
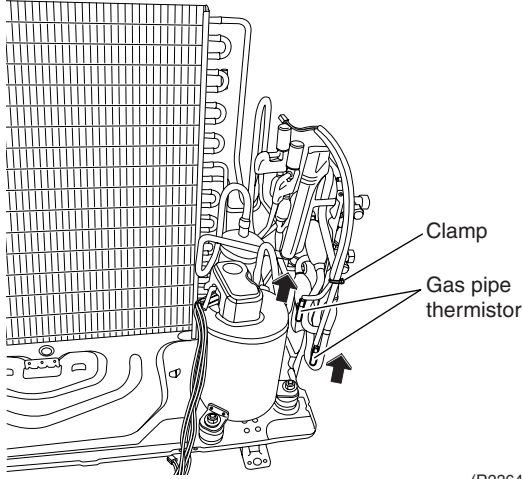
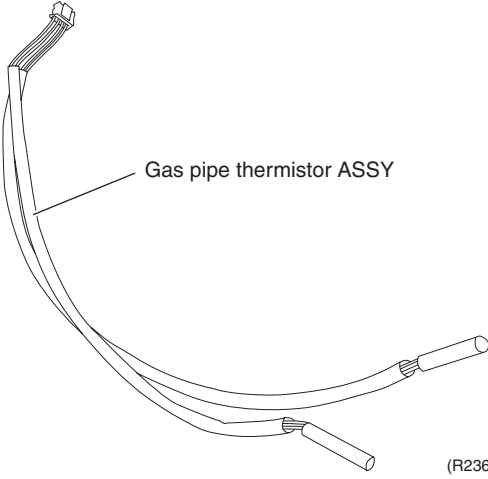
Step	Procedure	Points
3. Remove the sound blankets.	<p data-bbox="568 226 756 255">Sound blanket (top)</p>  <p data-bbox="995 719 1066 734">(R23643)</p>	<ul style="list-style-type: none"> ■ Since the piping ports on the sound blanket are torn easily, remove the blanket carefully.
1 Remove the sound blanket (top).	<p data-bbox="512 1234 740 1263">Sound blanket (outer 1)</p>  <p data-bbox="995 1272 1066 1288">(R23644)</p>	
2 Pull out the sound blanket (outer 1).	<p data-bbox="651 1727 852 1756">Sound blanket (inner)</p>  <p data-bbox="995 1749 1066 1765">(R23645)</p>	

6. Electronic Expansion Valve Coils / Gas Pipe Thermistor ASSY



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 2 electronic expansion valve coils.	 <p>Electronic expansion valve coil</p> <p>(R23646)</p>
2	Cut the clamp and remove the 2 gas pipe thermistors.	 <p>Clamp</p> <p>Gas pipe thermistor</p> <p>Be careful not to lose the clip of the thermistor.</p> <p>Clip</p> <p>(R3264)</p> <p>(R23647)</p>
3	Remove the gas pipe thermistor ASSY.	 <p>Gas pipe thermistor ASSY</p> <p>(R23648)</p>

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.



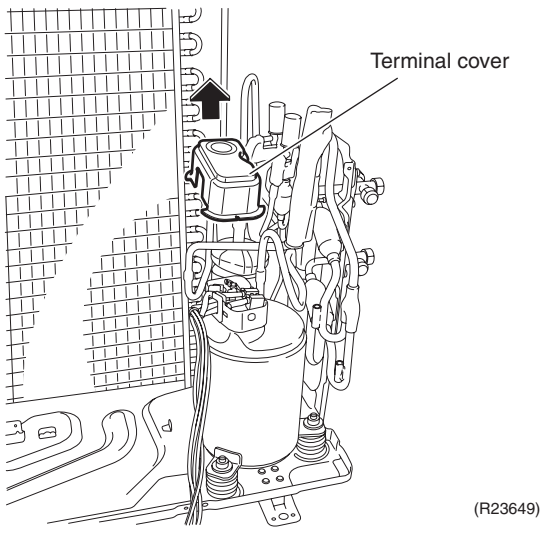
Caution

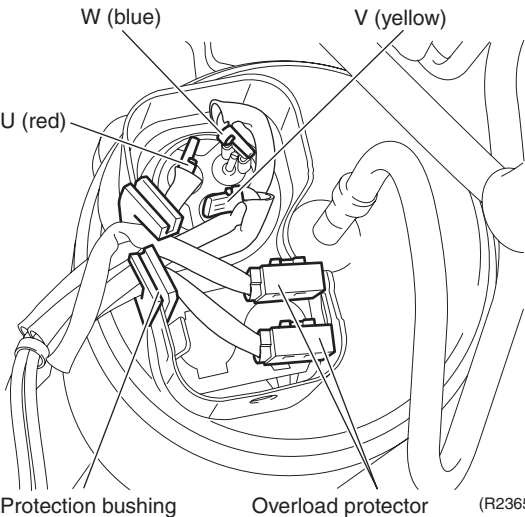
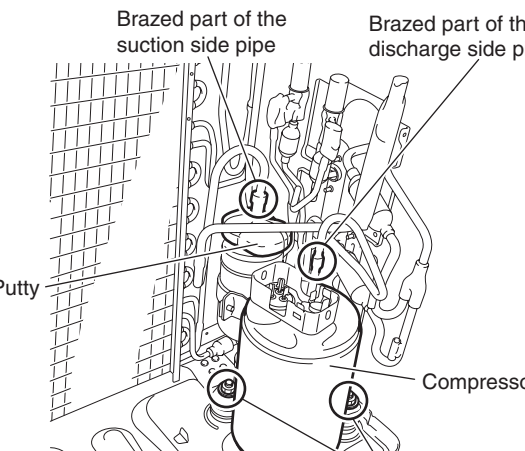
- ◆ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ◆ Restore the piping by non-oxidation brazing.



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	Remove the terminal cover.	 <p style="text-align: right;">(R23649)</p>

Step	Procedure	Points
<p>2 Remove the protection bushing.</p> <p>3 Disconnect the compressor lead wires and the overload protector.</p>	 <p>W (blue)</p> <p>V (yellow)</p> <p>U (red)</p> <p>Protection bushing</p> <p>Overload protector</p> <p>(R23650)</p>	
<p>4 Remove the putty.</p> <p>5 Heat up the brazed part of the discharge side pipe and disconnect it.</p> <p>6 Heat up the brazed part of the suction side pipe and disconnect it.</p> <p>7 Remove the 3 nuts.</p> <p>8 Lift up the compressor and remove it.</p>	 <p>Brazed part of the suction side pipe</p> <p>Brazed part of the discharge side pipe</p> <p>Putty</p> <p>Compressor</p> <p>Nut</p> <p>(R23651)</p>	

Revision History

Month / Year	Version	Revised contents
08 / 2016	Si121656E	First edition

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

DAIKIN INDUSTRIES, LTD.

Head Office:
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,
Kita-ku, Osaka, 530-8323 Japan

Tokyo Office:
JR Shinagawa East Bldg., 2-18-1, Konan,
Minato-ku, Tokyo, 108-0075 Japan

<http://www.daikin.com/products/ac/>

©All rights reserved