




# REMOVAL PROCEDURE



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

### 2.5/3.5 kW Class

-  Outdoor Unit
-  Non-Inverter
-  Pair Type



# Service Manual

## Removal Procedure

### Outdoor Unit

#### ●Cooling Only

RC35PRV16

RF35PRV16

RQ35PRV16

RC25QRV16  
RC35QRV16  
RC35QRV161  
RC35QRV1615

RF35QRV16  
RF35QRV161  
RF35QRV1625

RQ35QRV16  
RQ35QRV1625

RC25RRV162  
RC35RRV161  
RC35RRV1615

RF35RRV161  
RF35RRV1615

RQ35RRV162  
RQ35RRV1625

RCA25QRV16  
RCA35QRV16

RFA35QRV16

RQA35QRV16

RCA25RRV162  
RCA35RRV161

RFA35RRV161

RQA35RRV162

RFD35QRV16

RQD35QRV16

RCD25QRV16  
RCD35QRV16

RFD35RRV161

RQD35RRV162

RUF35RRV161

RCD25RRV162  
RCD35RRV161

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**Note:** ♦ The illustrations may be slightly different depending on the model.

# 1. Outer Panels / Fan Motor / Electrical Components

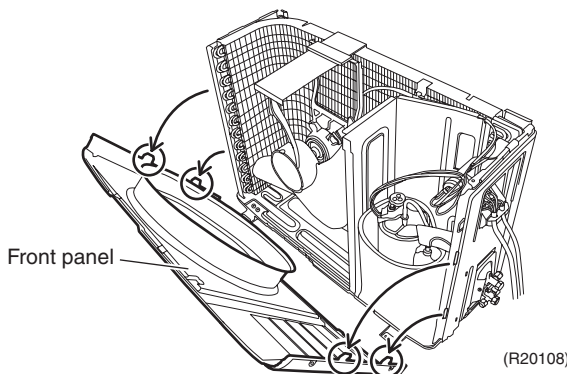
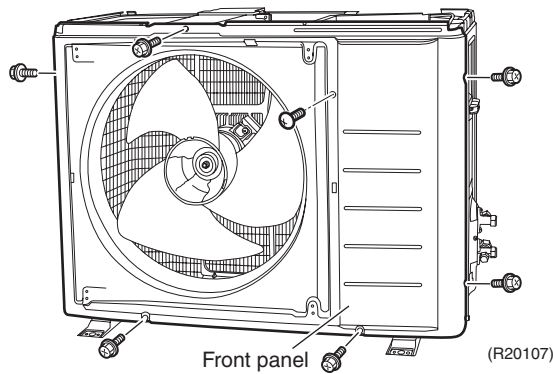
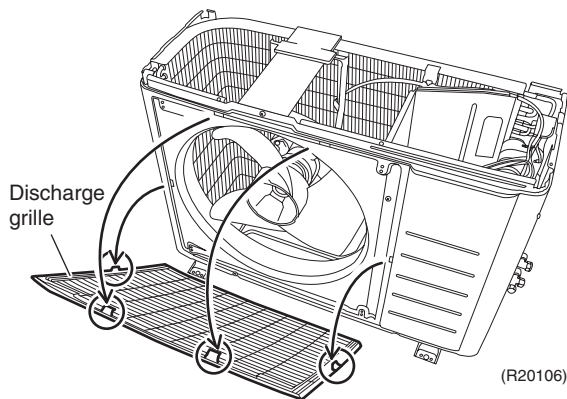
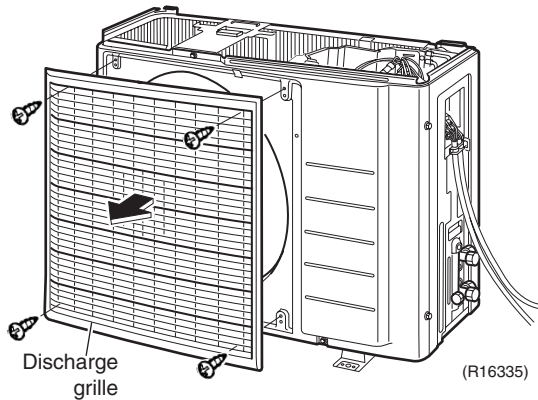


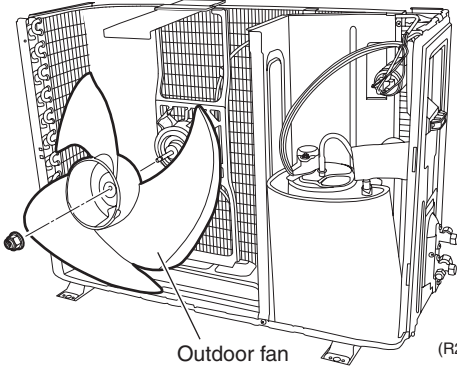
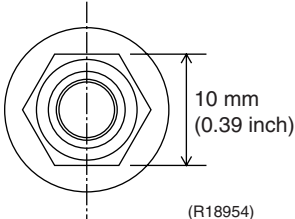
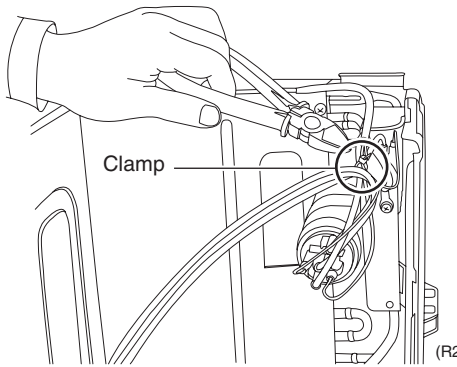
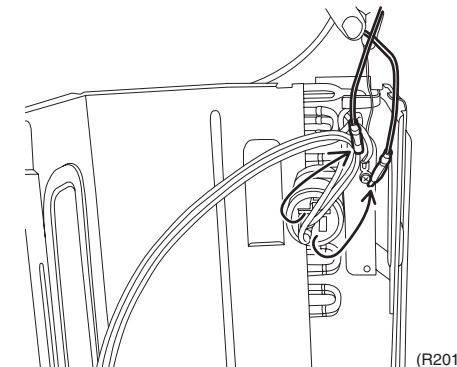
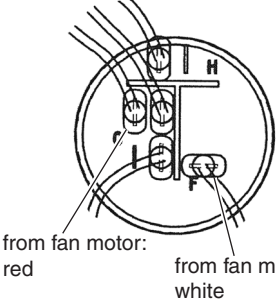
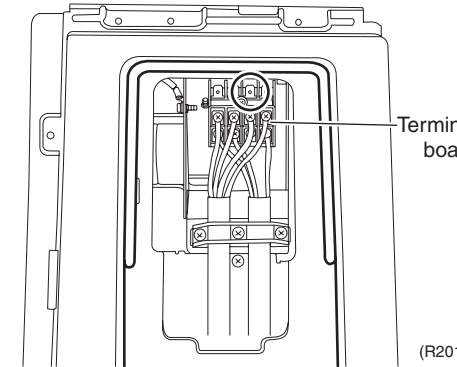
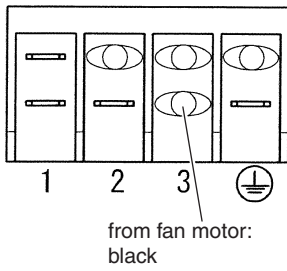
**Warning**

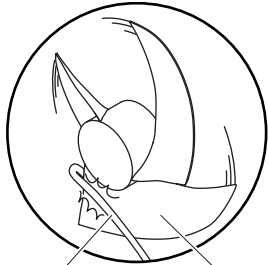
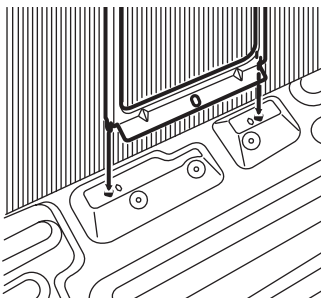
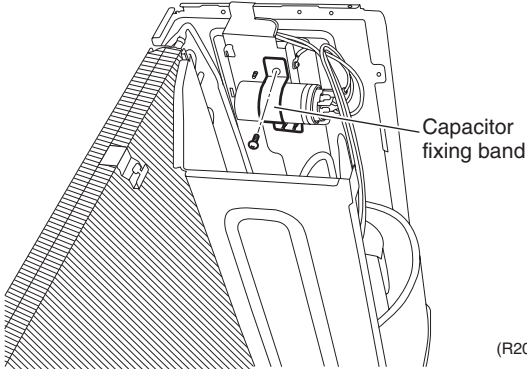
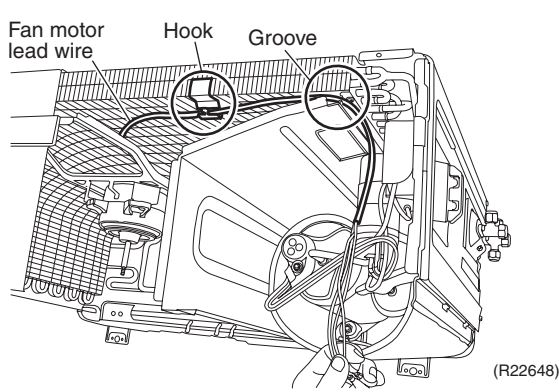
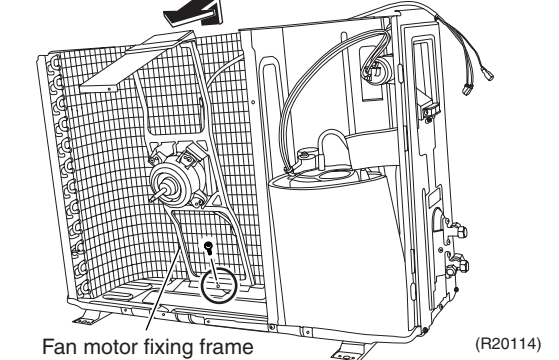
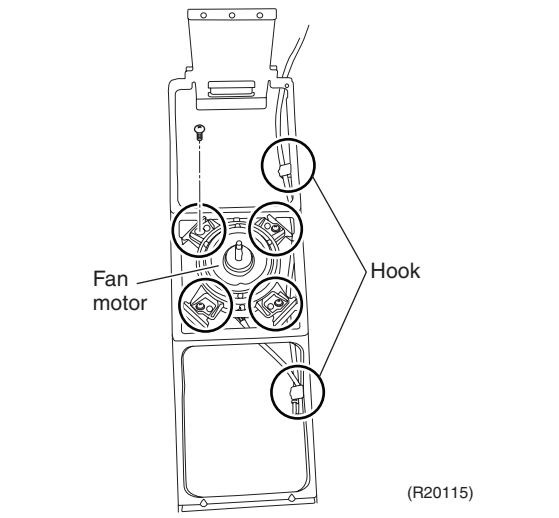
◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

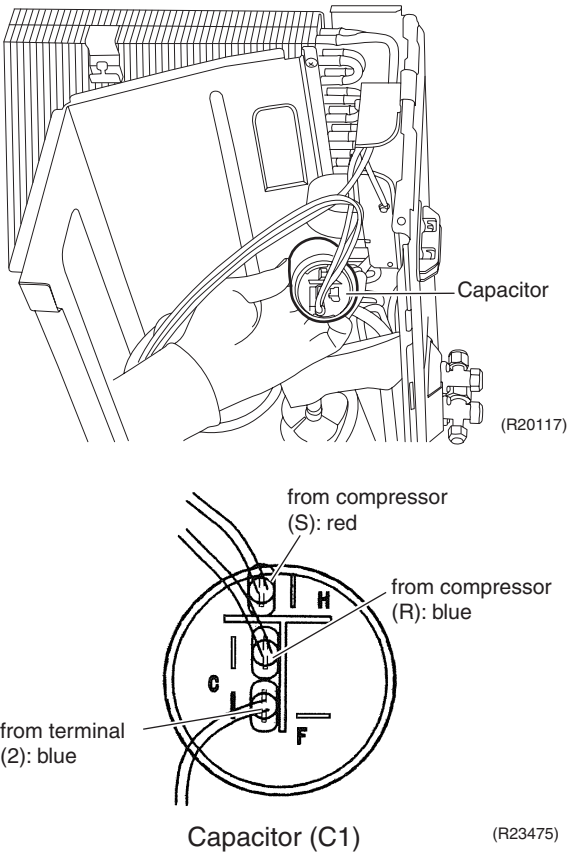
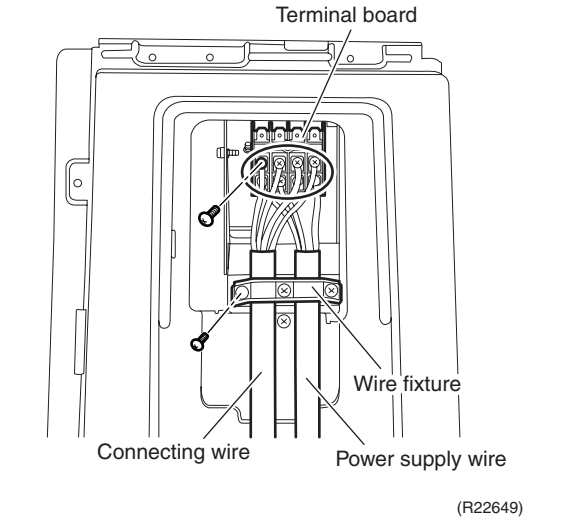
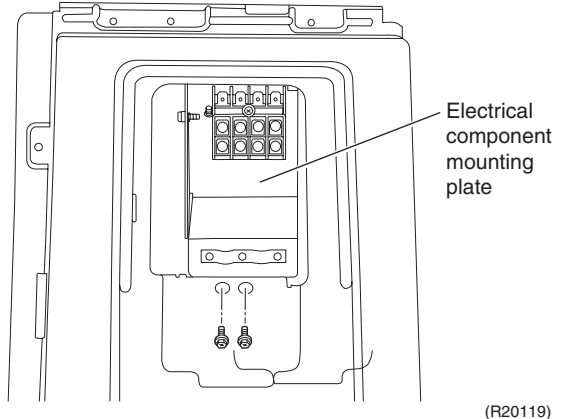
Step	Procedure	Points
1. Remove the outer panels.	<p>Stop valve cover (R20986)</p>	<ul style="list-style-type: none"> <li>■ The stop valve cover is united with the shield plate.</li> <li>■ When reassembling, make sure to fit the 5 hooks.</li> </ul>
1 Remove the screw, and then the stop valve cover.	<p>Hook Hook (R20987)</p>	
2 Remove the 2 screws, and then the top panel.	<p>Top panel (R16334)</p>	

Step	Procedure	Points
3	Remove the 4 screws, and then the discharge grille.	<ul style="list-style-type: none"> <li>■ The discharge grille has 4 hooks.</li> </ul>
4	Remove the 7 screws of the front panel.	<ul style="list-style-type: none"> <li>■ The front panel has 4 hooks.</li> </ul>
5	Unfasten the 4 hooks and remove the front panel.	

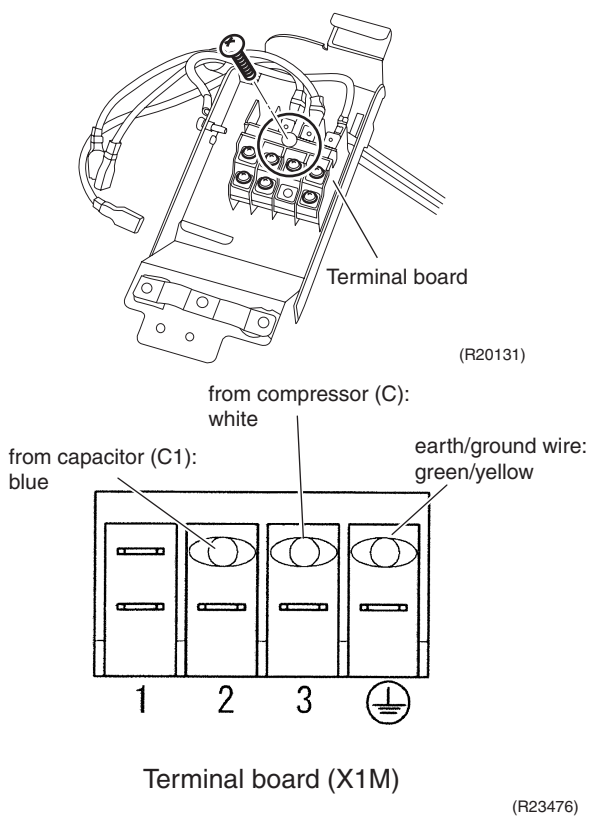
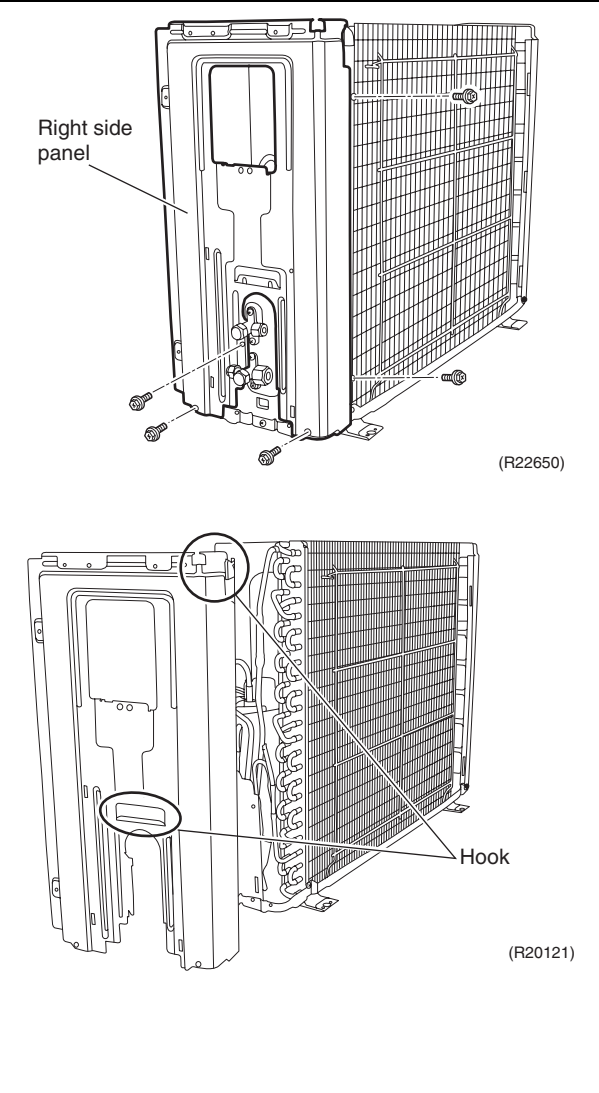


Step	Procedure	Points
2. Remove the fan motor.		
1 Remove the nut, and then the outdoor fan.	 <p>Outdoor fan (R20109)</p>	<ul style="list-style-type: none"> <li>■ Nut size: M6</li> </ul>  <p>(R18954)</p> <ul style="list-style-type: none"> <li>■ Align the ▼ mark of the outdoor fan with the D-cut section of the motor shaft when reassembling.</li> </ul>
2 Cut the clamp and release the fan motor lead wire.	 <p>Clamp (R20110)</p>	
3 Pull out the 2 terminals (red, white) from the capacitor (C1).	 <p>(R20111)</p>	<ul style="list-style-type: none"> <li>■ Capacitor (C1)</li> </ul>  <p>from fan motor: red from fan motor: white (R23473)</p>
4 Pull out the terminal 3 (front, black) from the terminal board (X1M).	 <p>Terminal board (R20112)</p>	<ul style="list-style-type: none"> <li>■ Terminal board (X1M)</li> </ul>  <p>from fan motor: black (R23474)</p>

Step	Procedure	Points
5	Release the fan motor lead wire from the groove and the hook.	<ul style="list-style-type: none"> <li>Some models do not have a hook.</li> <li>When reassembling, put the fan motor lead wire through the back of the fan motor to avoid any entanglement with the outdoor fan.</li> </ul>
6	Remove the screw, and then the fan motor fixing frame.	 <p>Lead wire Outdoor fan (R3249)</p>
7	Release the fan motor lead wire from the 2 hooks.	<ul style="list-style-type: none"> <li>When reassembling, fit the 2 lower hooks into the bottom frame.</li> </ul>
8	Remove the 4 screws, and then the fan motor.	 <p>(R19277)</p>
3. Remove the electrical components.		
1	Remove the screw of the capacitor fixing band.	 <p>Capacitor fixing band (R20116)</p>
	 <p>Fan motor lead wire Hook Groove (R22648)</p>	
	 <p>Fan motor fixing frame (R20114)</p>	
	 <p>Fan motor Hook (R20115)</p>	

Step	Procedure	Points
2	Pull out the 3 terminals and remove the capacitor.	
	 <p>Capacitor (C1)</p>	
3	Remove the 3 screws, and then the wire fixture.	
4	Remove the 7 screws on the terminal board and disconnect the connecting wire and the power supply wire.	
	 <p>Terminal board</p> <p>Wire fixture</p> <p>Connecting wire</p> <p>Power supply wire</p>	
5	Remove the 2 screws, and then the electrical component mounting plate.	
	 <p>Electrical component mounting plate</p>	



Step	Procedure	Points
6	Remove the screw, and then the terminal board.	
4. Remove the right side panel.	 <p>Terminal board (R20131)</p> <p>from compressor (C): white</p> <p>from capacitor (C1): blue</p> <p>earth/ground wire: green/yellow</p> <p>Terminal board (X1M) (R23476)</p>	<p>■ There are 2 hooks on the right side panel. When reassembling, make sure to fit the 2 hooks.</p>
1	Remove the 5 screws and remove the right side panel.	 <p>Right side panel (R22650)</p> <p>Hook (R20121)</p>

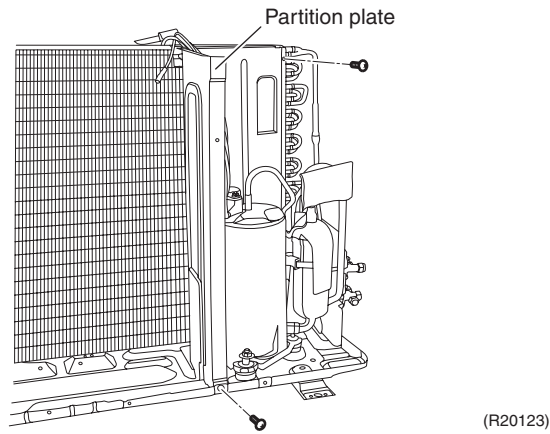
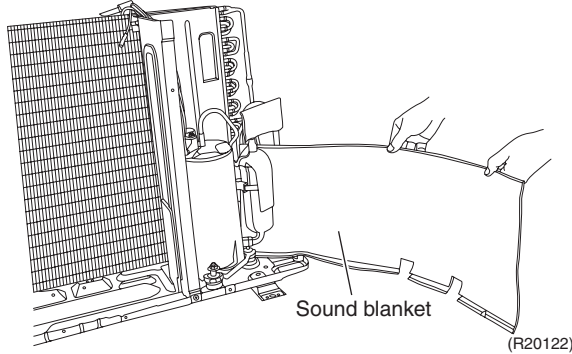
## 2. Sound Blanket / Partition Plate



**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 sound blanket.	<ul style="list-style-type: none"> <li>■ Some models have sound blanket (top).</li> <li>■ Since the piping ports are torn easily, remove the sound blanket(s) carefully.</li> </ul>
2	Remove the 2 screws, and then the partition plate.	



### 3. Capillary Tube



#### 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.)



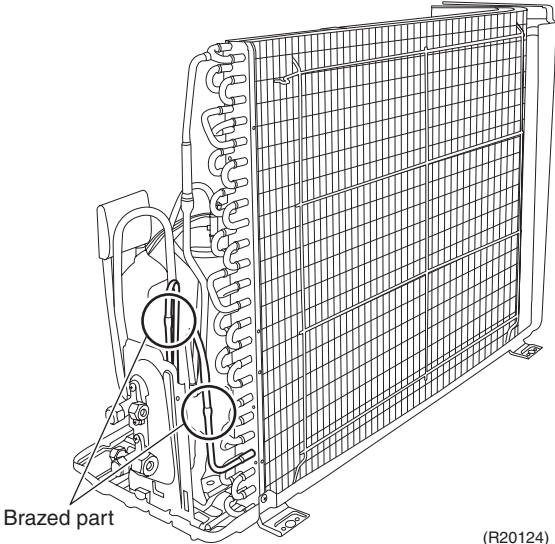
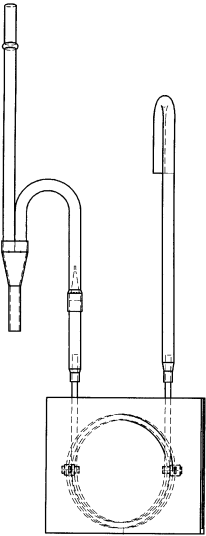
#### Caution

- ◆ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ◆ 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 putties, if any.  2 Heat up the 2 brazed parts and remove the capillary tube.	 <p style="text-align: center;">(R20124)</p>	<ul style="list-style-type: none"> <li>■ The position of the putty varies depending on the model.</li> </ul>  <p style="text-align: center;">(R20132)</p> <ul style="list-style-type: none"> <li>■ The shape of the capillary tube varies depending on the model.</li> </ul>

## 4. Compressor ASSY



### 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.



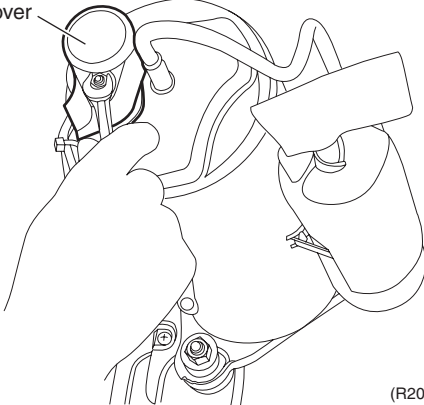
### Caution

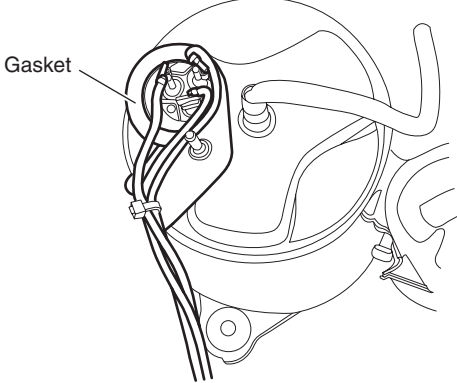
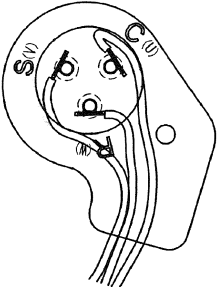
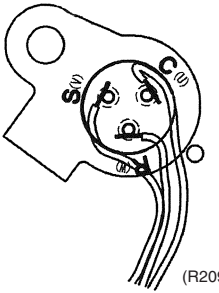
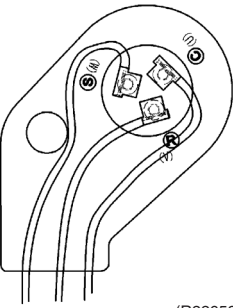
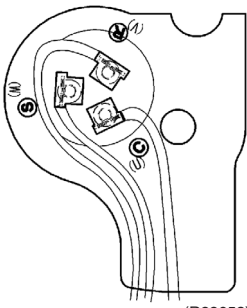
- ◆ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ◆ Restore the piping by non-oxidation brazing.

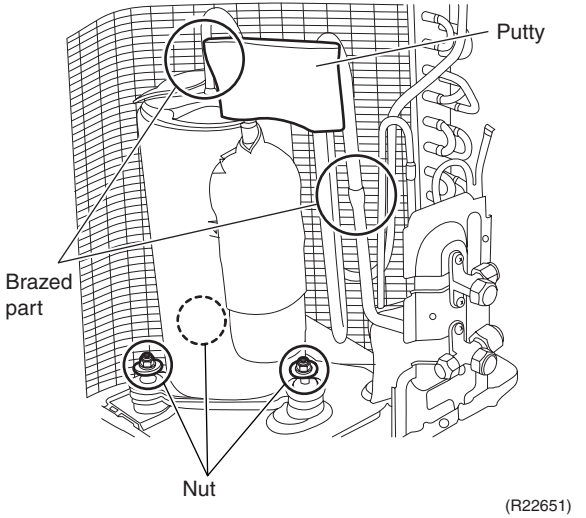


### Note

- ◆ 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 nut, and then the terminal cover.	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Terminal cover</div>  <div style="margin-left: 10px;">(R20125)</div> </div>
		<ul style="list-style-type: none"> <li>■ The shape of the terminal cover varies depending on the model.</li> </ul>

Step		Procedure	Points
2	Disconnect the compressor lead wires.	 <p>(R20126)</p>	
3	Remove the gasket.	<p><b>Pattern 1:</b> C (U): white, S (V): red, R (W): blue</p>  <p>(R20298)</p> <p><b>Pattern 2:</b> C (U): white, S (V): red, R (W): blue</p>  <p>(R20989)</p> <p><b>Pattern 3:</b> C (U): white, S (W): red, R (V): blue</p>  <p>(R22652)</p> <p><b>Pattern 4:</b> C (U): white, S (W): red, R (V): blue</p>  <p>(R22653)</p>	

Step	Procedure	Points
4	Remove the putty.	<ul style="list-style-type: none"> <li>■ Some models do not have the putty.</li> </ul>
5	Heat up the brazed part of the discharge side pipe and disconnect.	
6	Heat up the brazed part of the suction side pipe and disconnect.	
7	Remove the 3 nuts of the compressor.	
8	Lift the compressor ASSY up and remove it.	
		

# Revision History

Month / Year	Version	Revised contents
04 / 2014	Si011404E	First edition
10 / 2014	Si011404EA	Model addition: RF35PRV16
12 / 2015	Si011404EB	Model addition: RC25/35QRV16, RC35QRV161, RCA25/35QRV16, RCD25/35QRV16, RF35QRV16, RF35QRV161, RFA35QRV16, RFD35QRV16, RQ35QRV16, RQA35QRV16, RQD35QRV16
06 / 2016	Si011404EC	Model addition: RC35QRV1615, RC25RRV162, RC35RRV161, RC35RRV1615, RCA25RRV162, RCA35RRV161, RCD25RRV162, RCD35RRV161, RF35QRV1625, RF35RRV161, RF35RRV1615, RFA35RRV161, RFD35RRV161, RQ35QRV1625, RQ35RRV162, RQ35RRV1625, RQA35RRV162, RQD35RRV162, RUF35RRV161

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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