

REMOVAL PROCEDURE



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

2.5/3.5 kW Class

-  Outdoor Unit
-  Inverter
-  Pair Type



Service Manual Removal Procedure

Outdoor Unit

●Heat Pump

**RXD25DVMV
RXD35DVMV**

**RXD25HVMV
RXD35HVMV**

Table of Contents

1. Outer Panels / Fan Motor	2
2. Electrical Box	7
3. PCB	9
4. Reactor / Partition Plate	10
5. Sound Blankets	11
6. Four Way Valve.....	12
7. Compressor.....	15



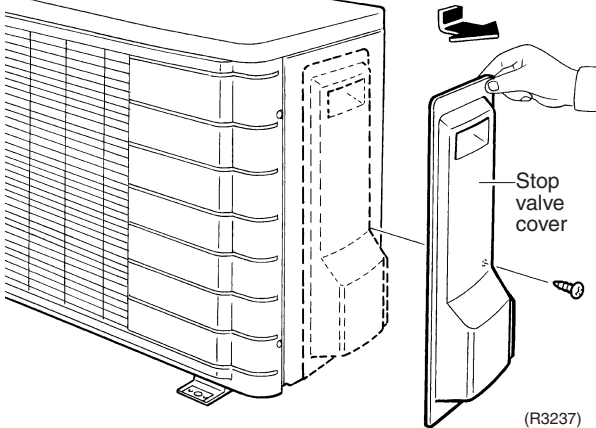
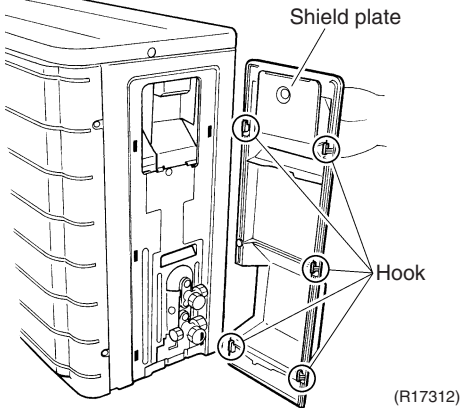
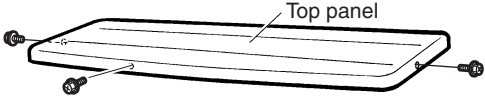
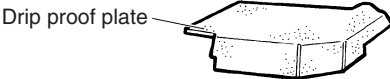
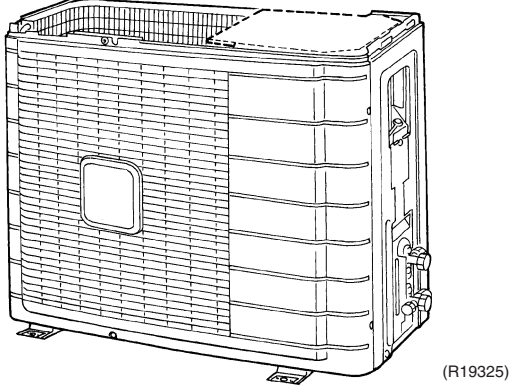
Note: ♦ The illustrations may be slightly different depending on the model.

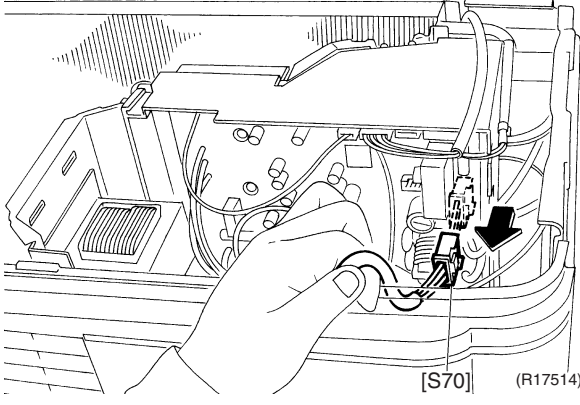
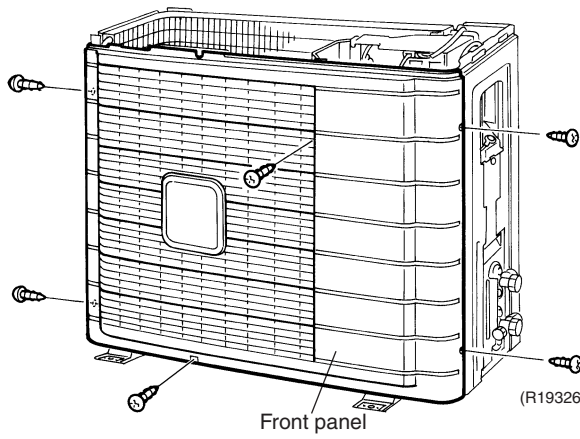
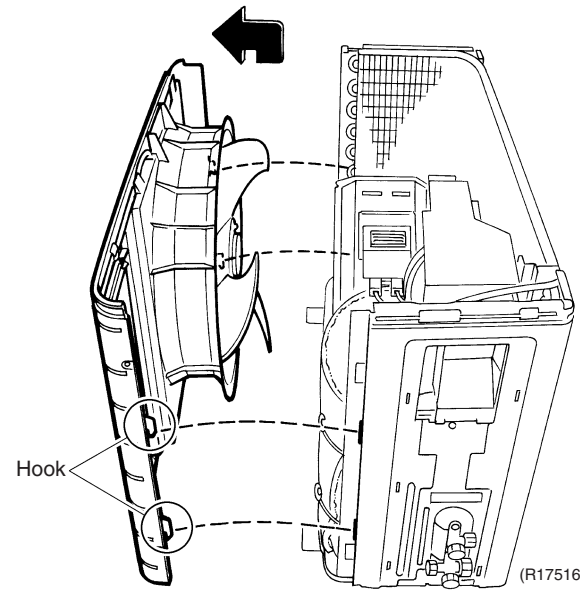
1. Outer Panels / Fan Motor

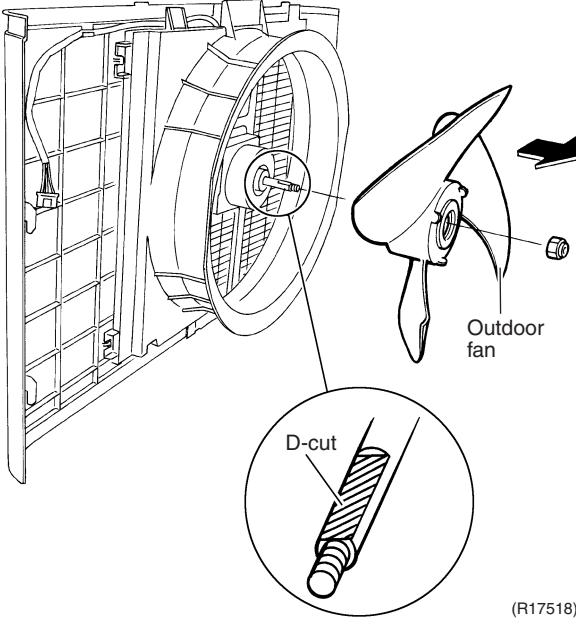
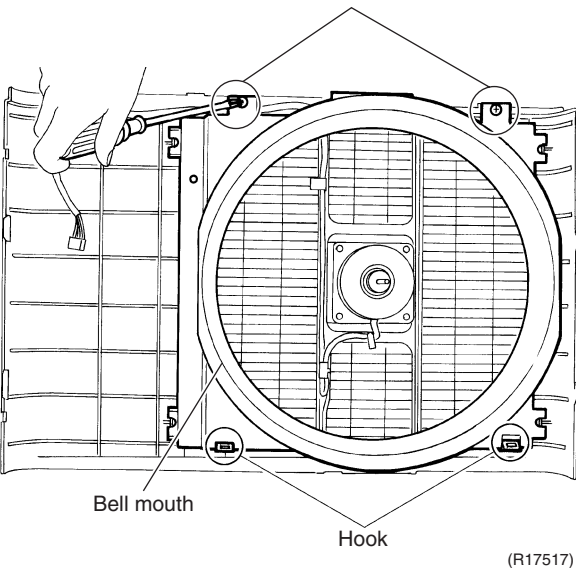
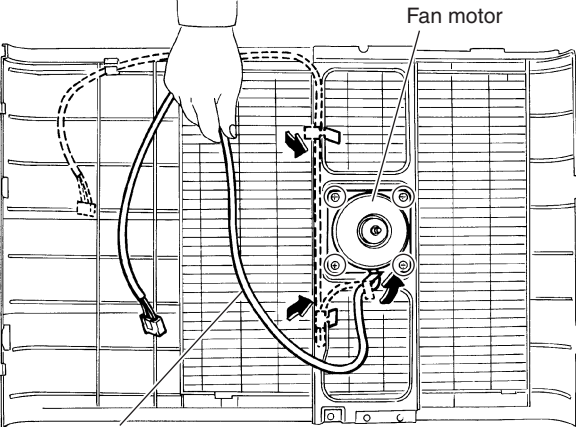
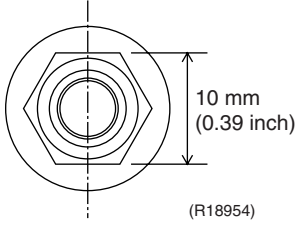
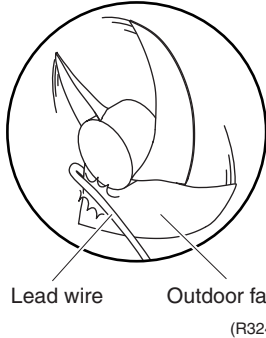


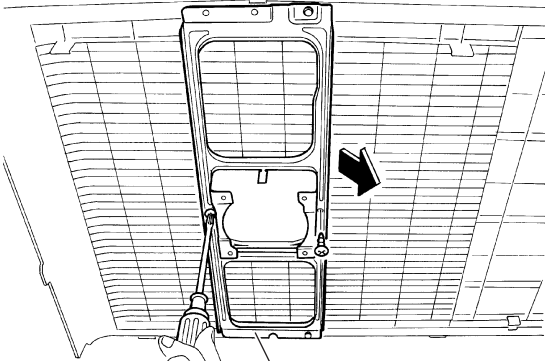
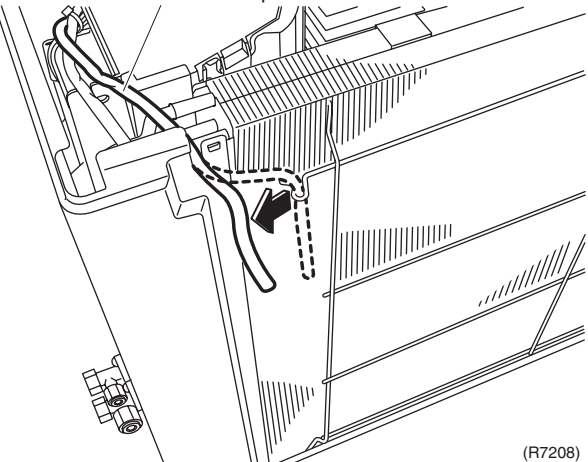
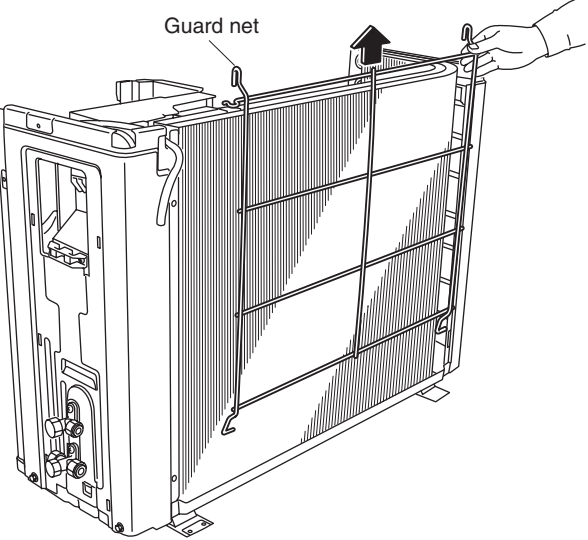
Warning

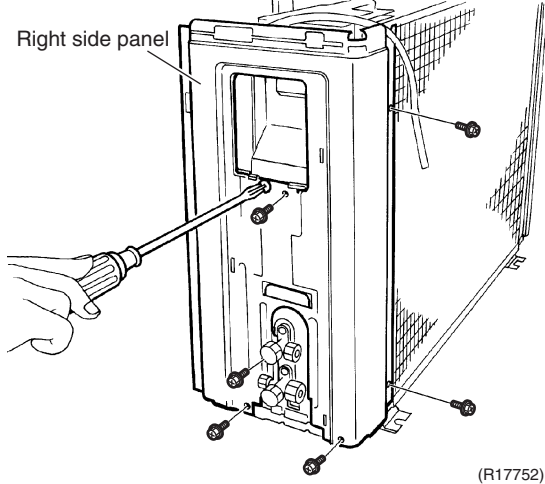
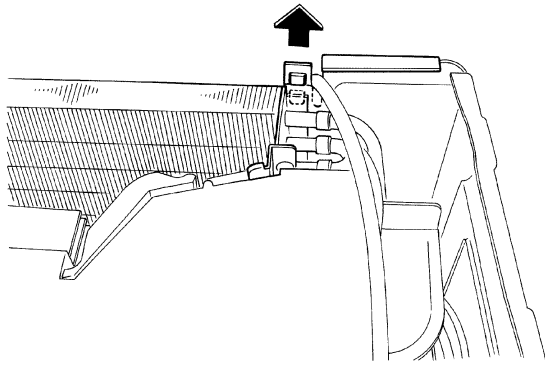
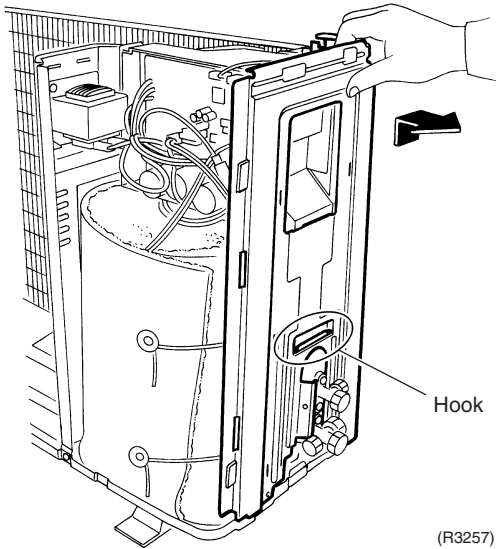
◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1.	Remove the outer panels.	<ul style="list-style-type: none"> ■ The stop valve cover is united with the shield plate. ■ When reassembling, make sure to fit the 5 hooks.
1	Remove the screw of the stop valve cover.	
2	Pull down the stop valve cover and remove it.	
3	Remove the 3 screws and lift the top panel.	
4	Remove the drip proof plate.	
		

Step	Procedure	Points
5	Disconnect the connector [S70]. 	[S70]: fan motor
6	Remove the 6 screws of the front panel. 	
7	Remove the front panel. 	<ul style="list-style-type: none"> ■ The front panel has 4 hooks. ■ The fan motor is united with the front panel.

Step	Procedure	Points
<p>2. Remove the fan motor.</p> <p>1 Remove the nut and remove the outdoor fan.</p> <p>2 Remove the 2 screws and lift the bell mouth to unfasten the hooks.</p> <p>3 Remove the bell mouth.</p> <p>4 Open the hooks and release the fan motor lead wire.</p> <p>5 Remove the 4 screws and remove the fan motor.</p>	 <p>Outdoor fan</p> <p>D-cut</p> <p>(R17518)</p>  <p>Screw</p> <p>Bell mouth</p> <p>Hook</p> <p>(R17517)</p>  <p>Fan motor</p> <p>Fan motor lead wire</p> <p>(R17520)</p>	<p>■ Nut size: M6</p>  <p>10 mm (0.39 inch)</p> <p>(R18954)</p> <p>■ When reassembling, align the ▼ mark of the outdoor fan with the D-cut section of the motor shaft.</p> <p>■ Screws: M4 × 16</p> <p>■ When reassembling, put the fan motor lead wire through the back of the fan motor (so as not to be entangled with the outdoor fan).</p>  <p>Lead wire</p> <p>Outdoor fan</p> <p>(R3249)</p>

Step	Procedure	Points
6	<p>Remove the 2 screws and remove the fan motor fixing frame.</p>  <p>Fan motor fixing frame (R17519)</p>	
3.	<p>Remove the right side panel.</p>	
1	<p>Release the outdoor temperature thermistor.</p>  <p>Outdoor temperature thermistor</p> <p>(R7208)</p>	
2	<p>Lift up the guard net and remove it.</p>  <p>Guard net</p> <p>(R7209)</p>	

Step	Procedure	Procedure	Points
3	Remove the 7 screws of the right side panel.	 <p>Right side panel</p> <p>(R17752)</p>	
4	Unfasten the upper hook.	 <p>(R3256)</p>	<ul style="list-style-type: none"> ■ When reassembling, make sure to fit the hook.
5	Lift up the right side panel and remove it.	 <p>Hook</p> <p>(R3257)</p>	<ul style="list-style-type: none"> ■ When reassembling, make sure to fit the hook.

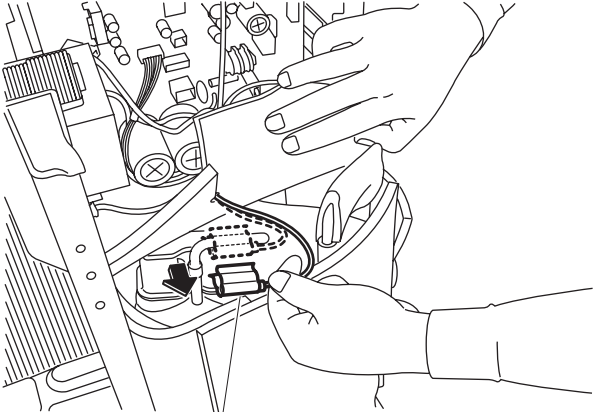
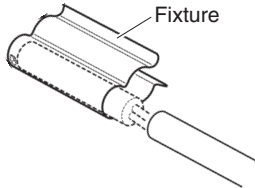
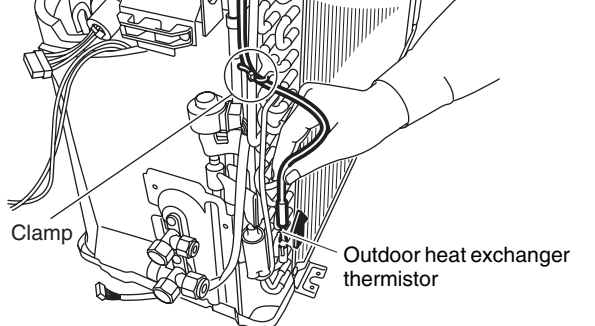
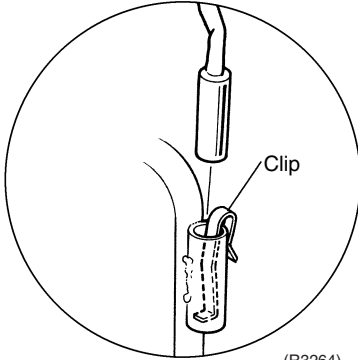
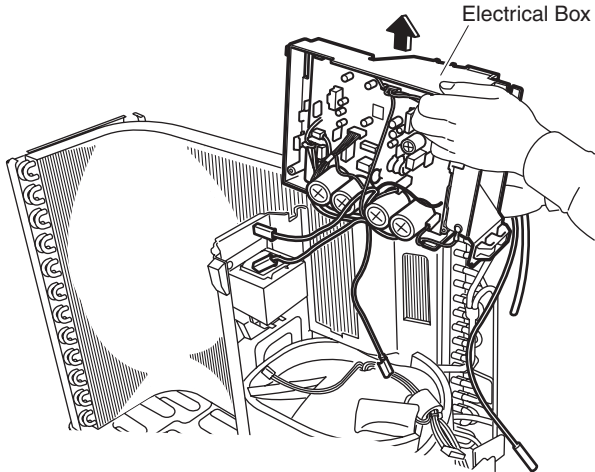
2. Electrical Box



Warning

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

Step	Procedure	Points
1	Disconnect the 2 connectors for the reactor.	[S30]: compressor
2	Disconnect the connector [S30].	
3	Disconnect the connector [S40].	[S40]: overload protector
4	Disconnect the connector [S20].	[S20]: electronic expansion valve coil
5	Disconnect the connector [S80].	[S80]: four way valve coil
		<ul style="list-style-type: none"> ■ When reassembling, connect the connectors in the following order.
		(1) [S80]
		(2) [S20]
		(3) [S40]
		(4) [S30]
		(5) reactor

Step	Procedure	Points
6	<p>Release the discharge pipe thermistor.</p>  <p style="text-align: center;">Discharge pipe thermistor (R16457)</p>	<p>■ Be careful not to lose the fixture for the thermistor.</p>  <p style="text-align: center;">Fixture (R18789)</p>
7	<p>Cut the clamp.</p>	<p>■ Be careful not to lose the clip for the thermistor.</p>
8	<p>Pull out the outdoor heat exchanger thermistor.</p>  <p style="text-align: center;">Clamp Outdoor heat exchanger thermistor (R17223)</p>	 <p style="text-align: center;">Clip (R3264)</p>
9	<p>Lift and remove the electrical box.</p>  <p style="text-align: center;">Electrical Box (R16473)</p>	

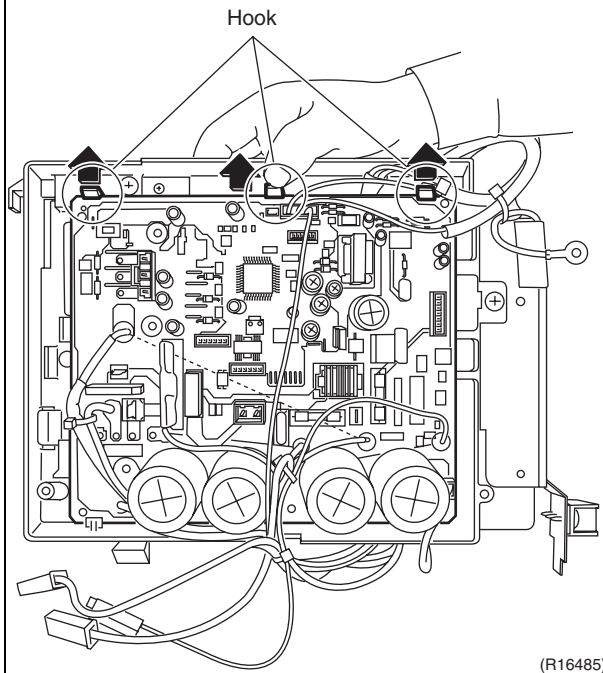
3. PCB



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 2 screws and detach the earth / ground wires.	<ul style="list-style-type: none"> ■ You can remove the PCB when you disconnect the lead wires on the terminal board without removing the electrical box.
2	Remove the 4 screws.	
3	Unfasten the 3 hooks on the upper side.	
4	Lift and pull out the PCB.	



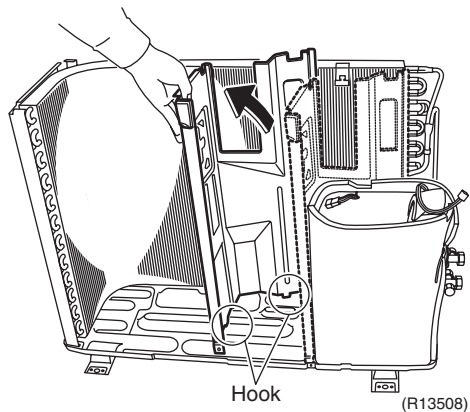
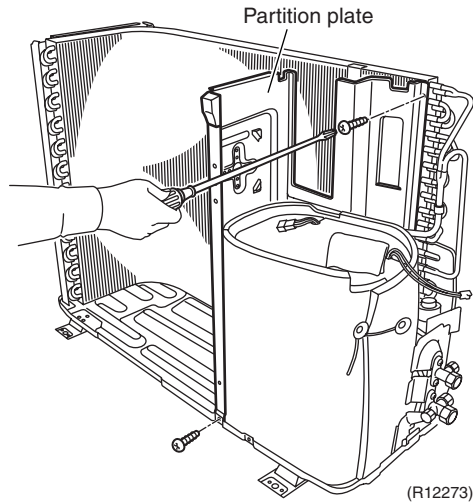
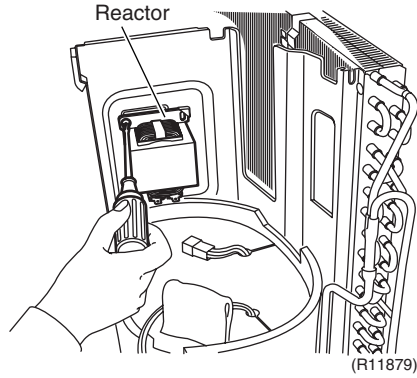
4. Reactor / Partition Plate



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 screw and remove the reactor.	
2	Remove the 2 screws.	
3	Lift the partition plate and remove it.	<p>■ When reassembling, fit the 2 lower hooks into the bottom frame.</p>



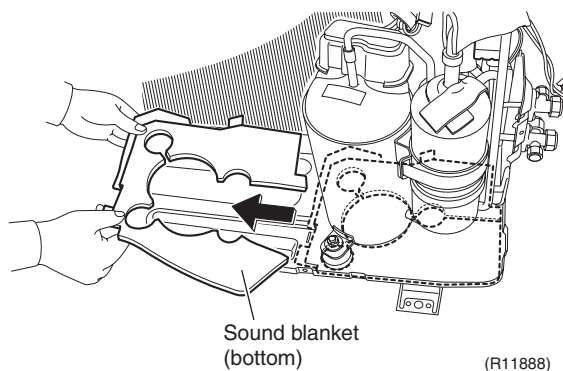
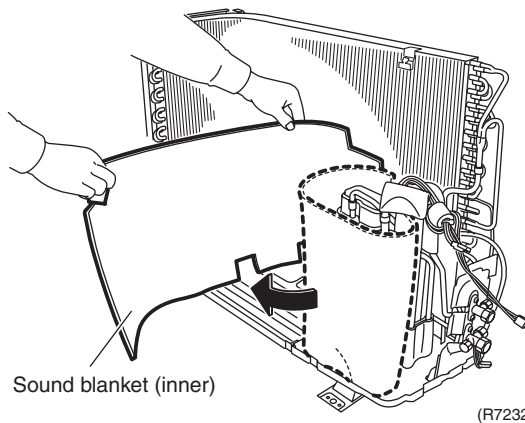
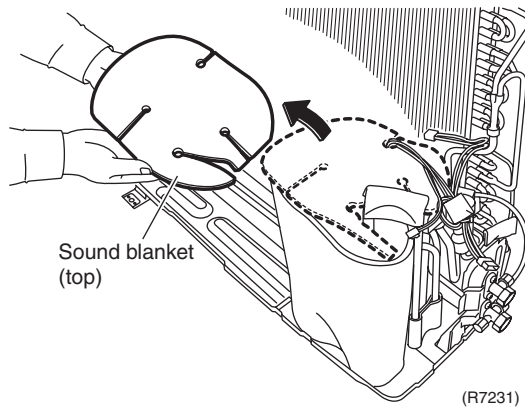
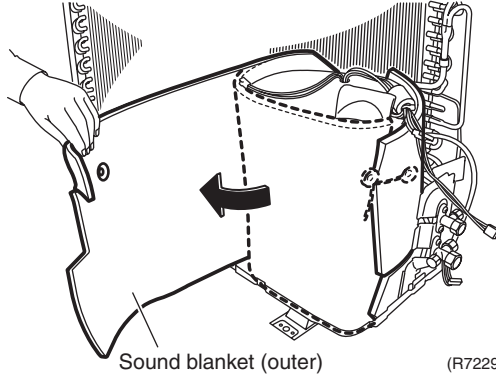
5. Sound Blankets



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 sound blanket (outer).	<ul style="list-style-type: none"> ■ Since the piping ports are torn easily, remove the sound blanket carefully.
2	Remove the sound blanket (top).	
3	Open and pull the sound blanket (inner) out.	
4	Pull out the sound blanket (bottom).	



6. 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.)



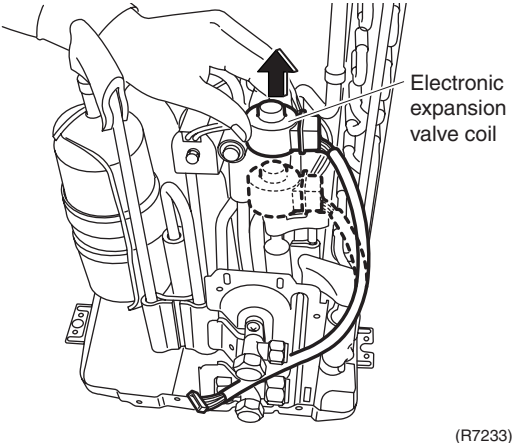
Caution

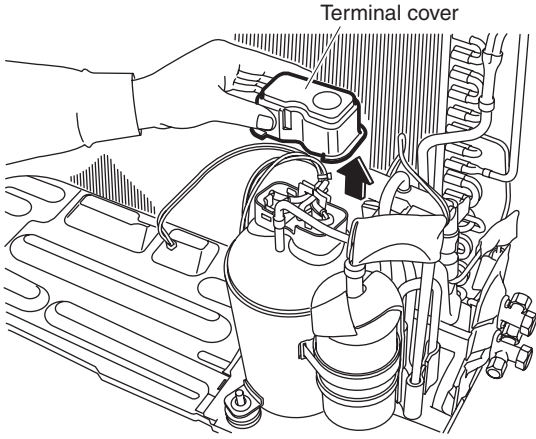
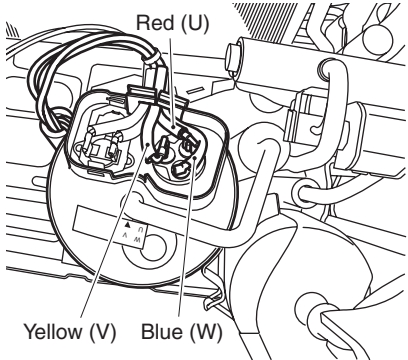
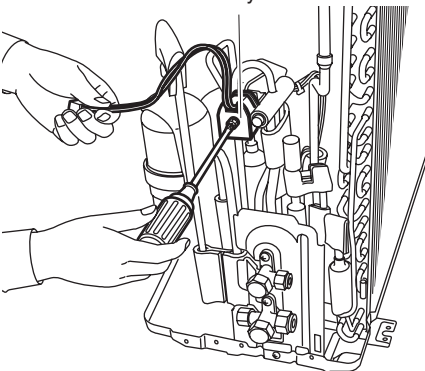
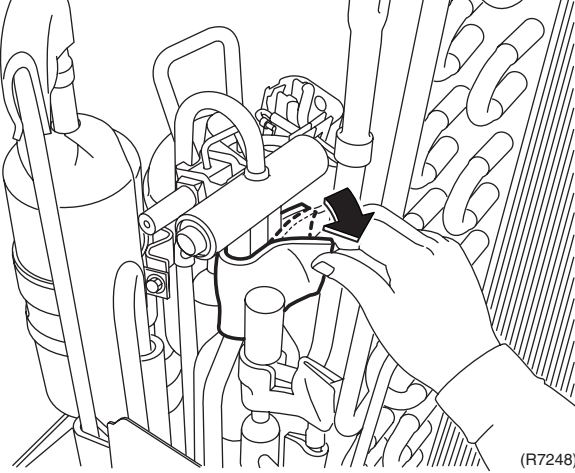
- ◆ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ◆ **Cautions for restoration**
 1. Restore the piping by non-oxidation brazing.
 2. It is required to prevent the carbonization of the oil inside the four way valve and the deterioration of the gaskets affected by heat. (Keep below 120°C (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.

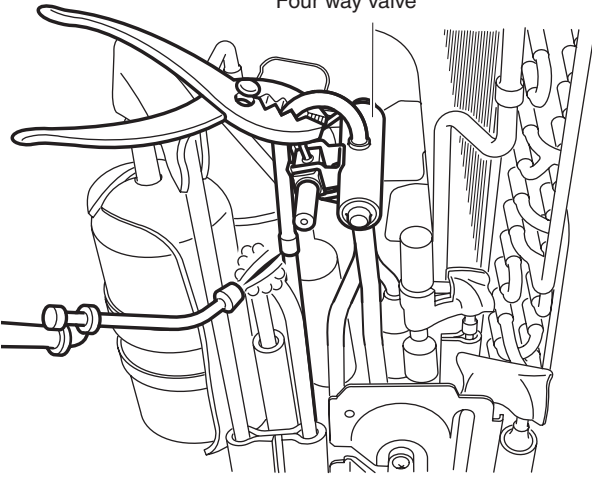
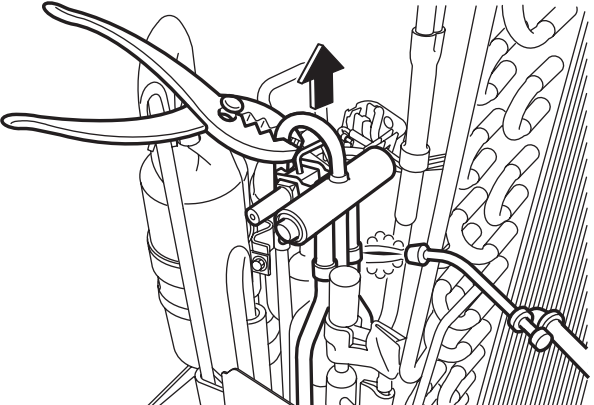


Note

- ◆ 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	<p>Pull out the electronic expansion valve coil.</p>  <p style="text-align: right;">(R7233)</p>	

Step	Procedure	Procedure	Points
2	Remove the terminal cover.	 <p style="text-align: center;">Terminal cover</p> <p style="text-align: right;">(R7234)</p>	
3	Disconnect the lead wires of the compressor.	 <p style="text-align: center;">Red (U)</p> <p style="text-align: center;">Yellow (V) Blue (W)</p> <p style="text-align: right;">(R7235)</p>	
4	Remove the screw and remove the four way valve coil.	 <p style="text-align: center;">Four way valve coil</p> <p style="text-align: right;">(R7247)</p>	
5	Remove the sheets of putty.	 <p style="text-align: right;">(R7248)</p>	

Step	Procedure	Points
<p>6</p>	<p>Heat up the brazed parts and withdraw the piping with pliers.</p> <div style="text-align: center;"> <p>Four way valve</p>  <p>(R7249)</p>  <p>(R7250)</p> </div>	

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

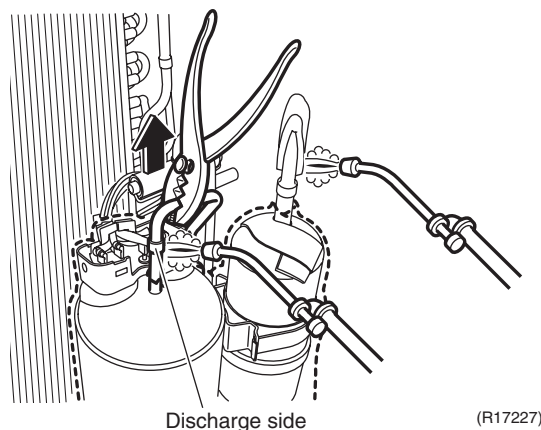
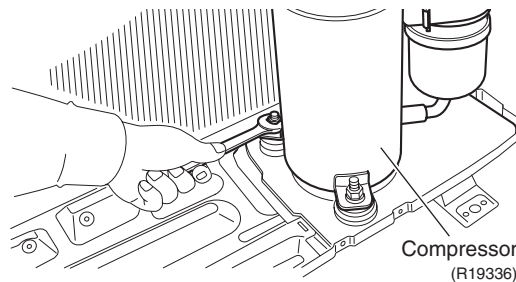
- ◆ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ◆ Cautions for restoration
 1. Restore the piping by non-oxidation brazing.
 2. It is required to prevent the carbonization of the oil inside 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 nut of the compressor.	
2	Heat up the brazed part of the discharge side and disconnect.	
3	Heat up the brazed part of the suction side and disconnect.	
4	Lift the compressor up and remove it.	



Revision History

Month / Year	Version	Revised contents
09 / 2012	Si001266	First edition
08 / 2013	Si001266EA	Model addition: RXD25/35HVMV

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/global_ac/

©All rights reserved