




Si001353EB

# REMOVAL PROCEDURE



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

**2.0/2.2/2.5/2.8/3.5/3.6/4.2 kW Class**  
**9000/12000/15000 Btu/h Class**

-  Outdoor Unit
-  Inverter
-  Pair Type



# **Service Manual Removal Procedure**

## **Outdoor Unit**

### **●Cooling Only**

**RKS09JV2S  
RKS12JV2S  
RKS15JV2S**

**RKS42JVMG**

### **●Heat Pump**

**RXJ20LV1B  
RXJ25LV1B  
RXJ35LV1B**

**RXJ25NVLT**

**RXJ25NVMV  
RXJ35NVMV**

**RXM20LV1B  
RXM25LV1B  
RXM35LV1B**

**RXV22NVLT  
RXV28NVLT  
RXV36NVLT**

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**Note:**

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

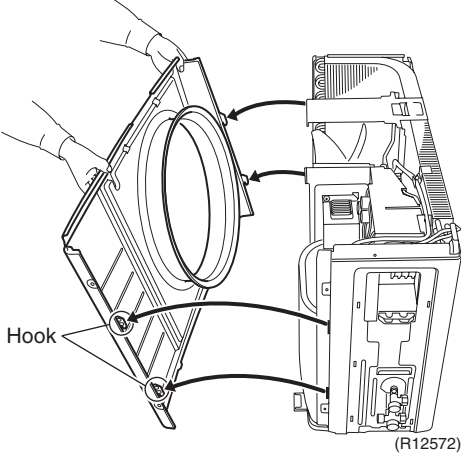
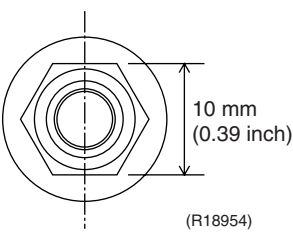
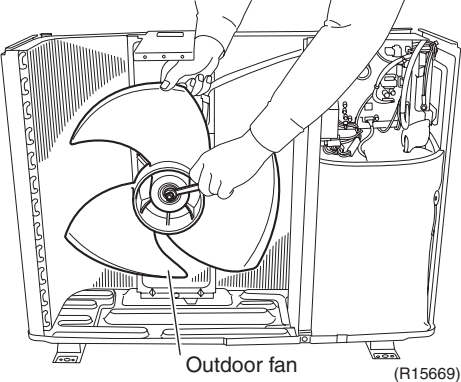
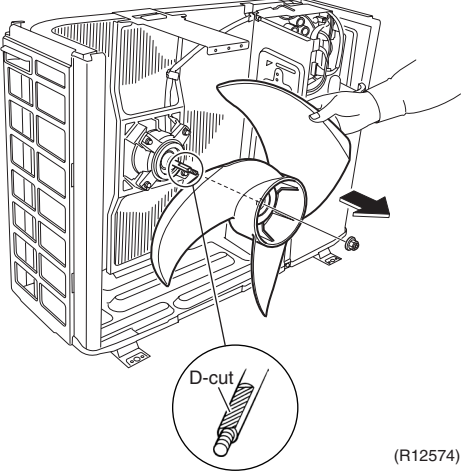
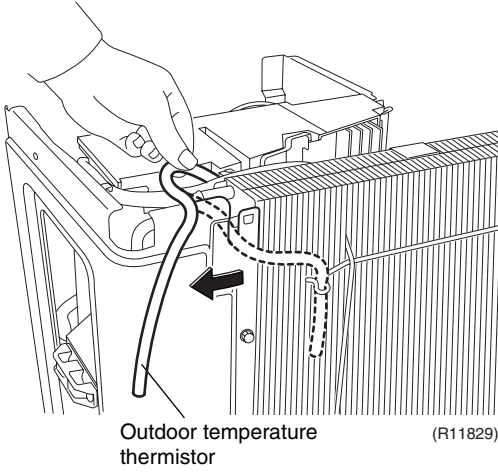
# 1. Outer Panels / Fan Motor



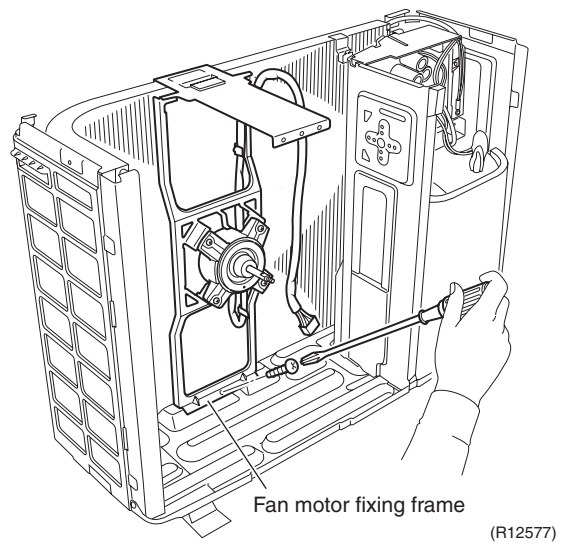
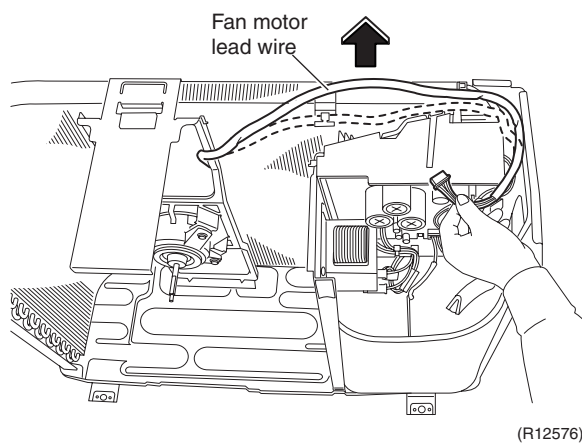
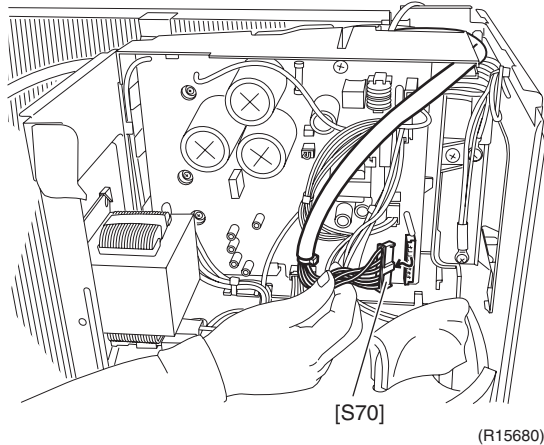
## Warning


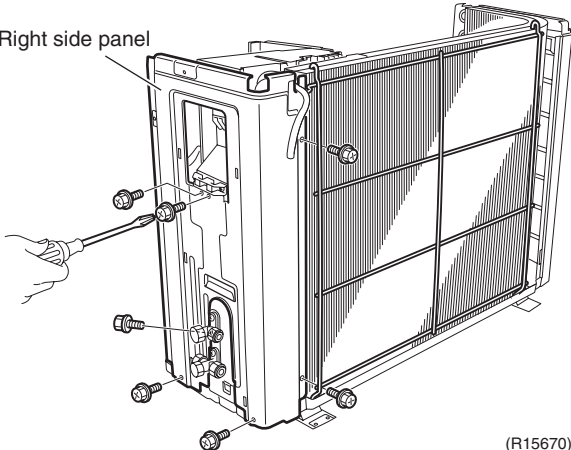
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Remove the panels.	<p>(R17214)</p> <p>Stop valve cover</p> <p>Top panel</p> <p>Drip proof plate</p> <p>Discharge grille</p> <p>(R17767)</p> <p>(R12570)</p> <p>Front panel</p> <p>(R18657)</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> <li>■ The discharge grille has 4 hooks.</li> </ul>
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.	
5	Remove the 4 screws and remove the discharge grille.	
6	Remove the 8 screws of the front panel.	

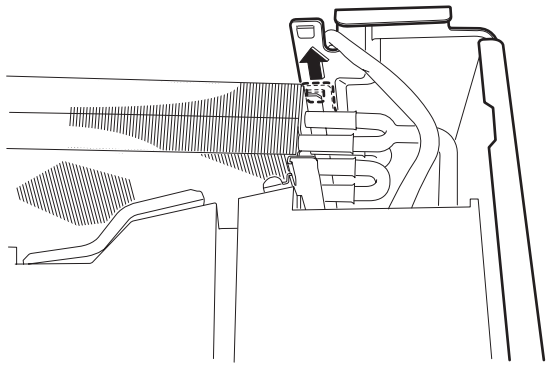
Step	Procedure	Points
7	Unfasten the hooks. Pull and remove the front panel.	<ul style="list-style-type: none"> <li>■ The front panel has 4 hooks.</li> </ul>
2. Remove the fan motor.		<ul style="list-style-type: none"> <li>■ Nut size: M6</li> </ul>
1	Remove the nut of the outdoor fan.	
2	Remove the outdoor fan.	<ul style="list-style-type: none"> <li>■ When reassembling, align the ▼ mark of the outdoor fan with the D-cut section of the motor shaft.</li> </ul>
3	Release the outdoor temperature thermistor.	  

Step	Procedure	Points
4	Disconnect the connector [S70].	[S70]: fan motor
5	Release the fan motor lead wire from the hook.	
6	Remove the screw of the fan motor fixing frame.	

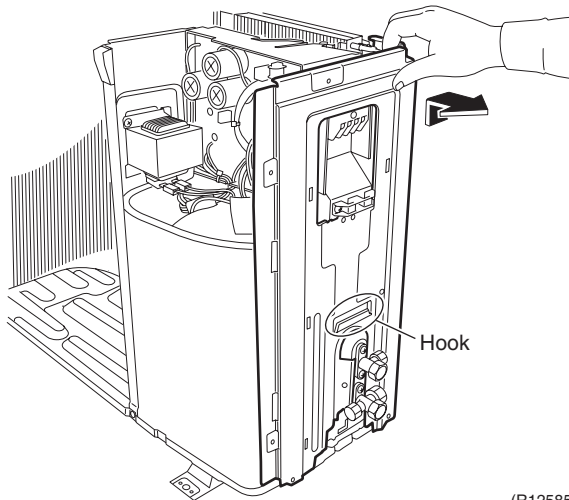


Step	Procedure	Points
7	Lift and remove the fan motor fixing frame.	<ul style="list-style-type: none"> <li>When reassembling, fit the 2 lower hooks into the bottom frame.</li> </ul>
8	Release the fan motor lead wire from the 2 hooks.	<ul style="list-style-type: none"> <li>When reassembling, put the fan motor lead wire through the back of the fan motor so as not to be entangled with the outdoor fan.</li> </ul>
9	Remove the 4 screws and remove the fan motor.	 <p>Lead wire      Outdoor fan (R12215)</p>
3. Remove the right side panel.	Right side panel	
1	Remove the 7 screws on the right side panel.	 <p>(R15670)</p>

Step	Procedure	Points
2	Unfasten the hook on the rear side.	<ul style="list-style-type: none"> <li>■ When reassembling, make sure to fit the hook.</li> </ul>
3	Lift up the right side panel and remove it.	<ul style="list-style-type: none"> <li>■ When reassembling, make sure to fit the hook.</li> </ul>



(R12584)



(R12585)



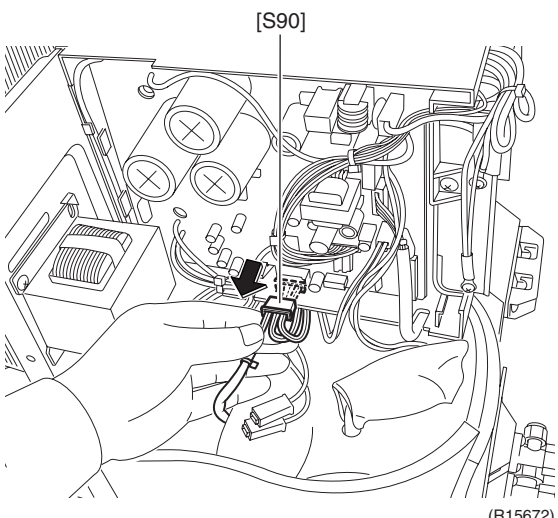
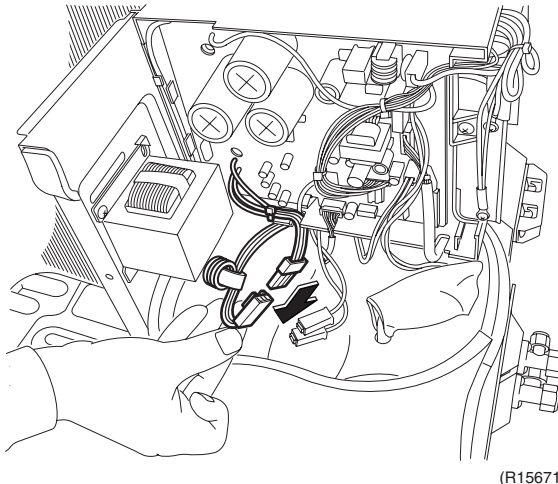
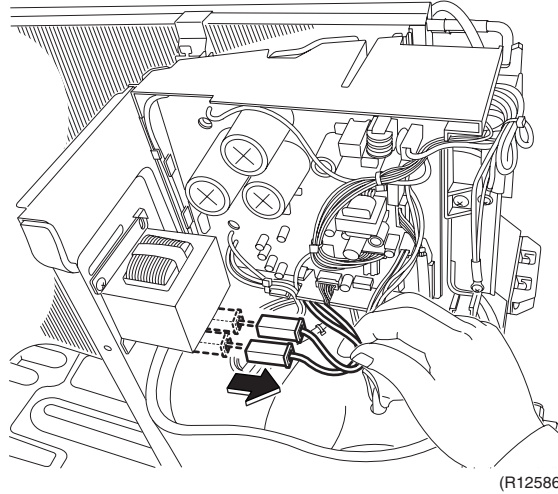
## 2. Electrical Box

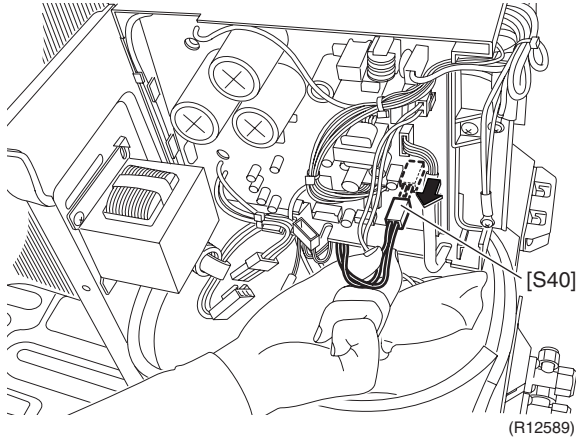
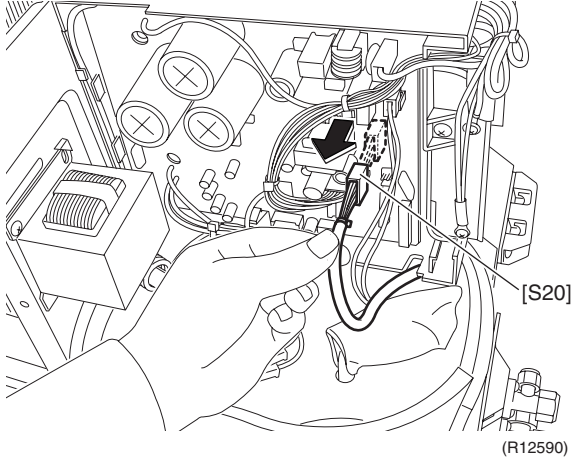
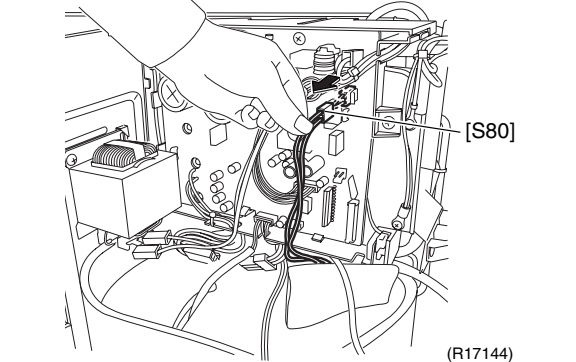
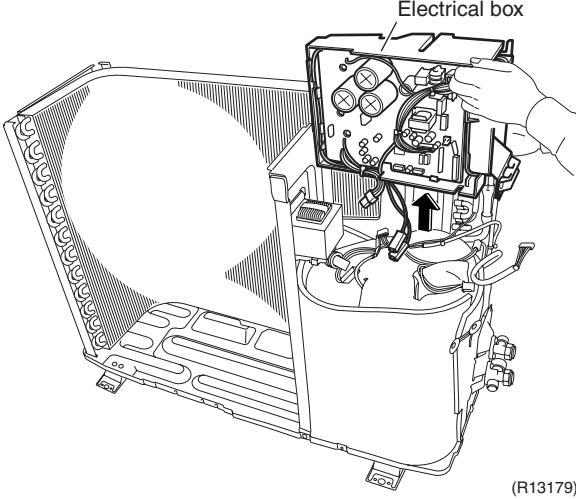
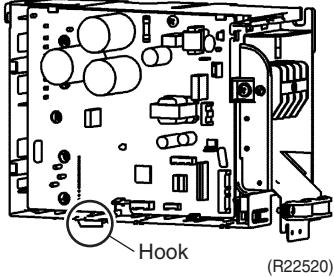


### Warning

- ◆ 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.	<ul style="list-style-type: none"> <li>■ When reassembling, you can connect the 2 connectors for the reactor in either way regardless of the color.</li> <li>■ When reassembling, connect the connectors in the following order.               <ol style="list-style-type: none"> <li>(1) [S40]</li> <li>(2) Relay connector for compressor</li> <li>(3) Reactor</li> <li>(4) [S20]</li> <li>(5) [S80]</li> <li>(6) [S90]</li> </ol> </li> </ul>
2	Disconnect the relay connector for the compressor.	
3	Disconnect the connector [S90].	[S90]: thermistor



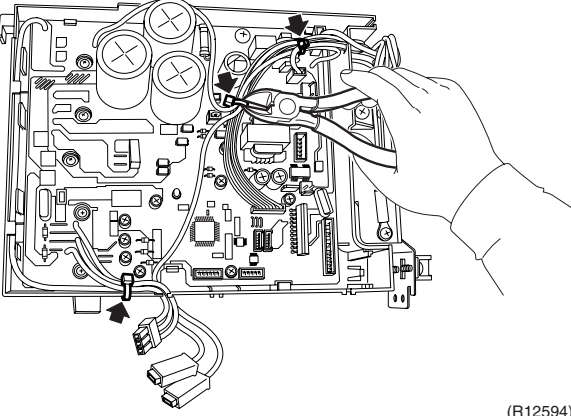
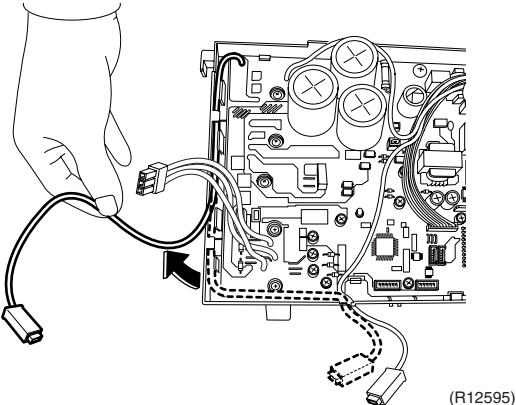
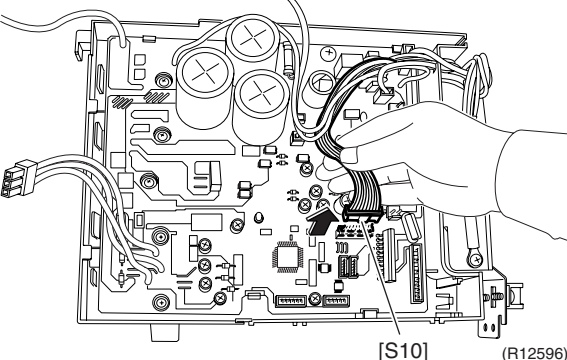
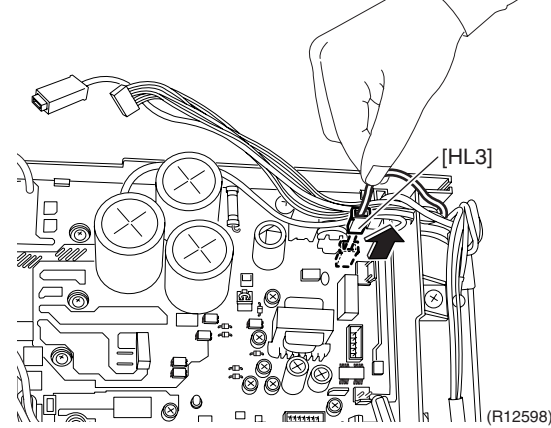
Step	Procedure	Points
4	Disconnect the connector [S40].	[S40]: overload protector
		
5	Disconnect the connector [S20].	[S20]: electronic expansion valve coil
		
6	Disconnect the connector [S80].	[S80]: four way valve coil
		<ul style="list-style-type: none"> <li>■ Cooling only models have no harness for [S80].</li> </ul>
7	Lift and remove the electrical box.	<ul style="list-style-type: none"> <li>■ When reassembling, make sure that the hook of the electrical box is securely fastened on the partition plate.</li> </ul>
		

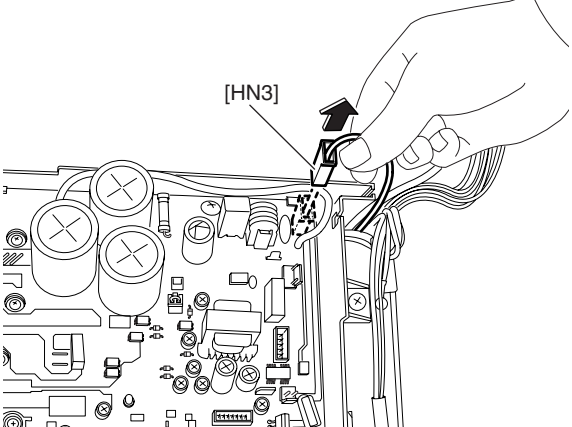
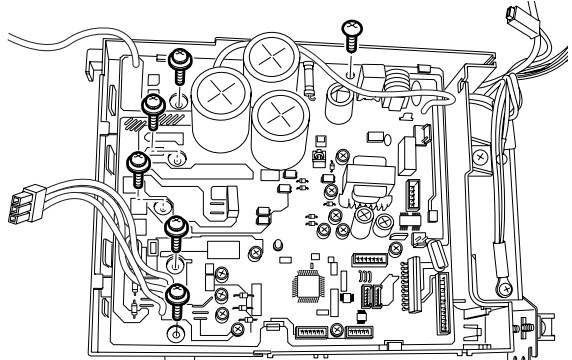

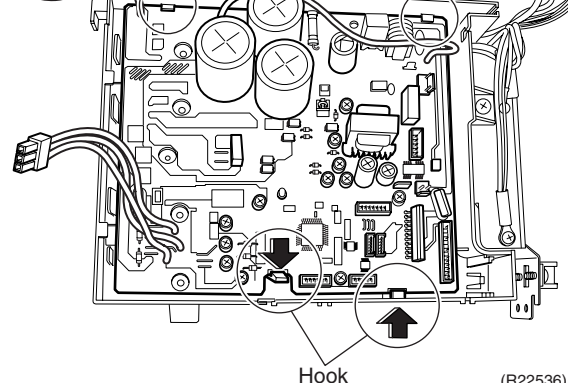
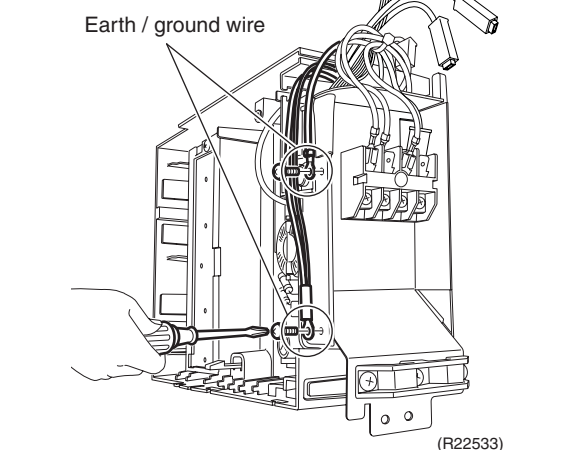
### 3. PCBs



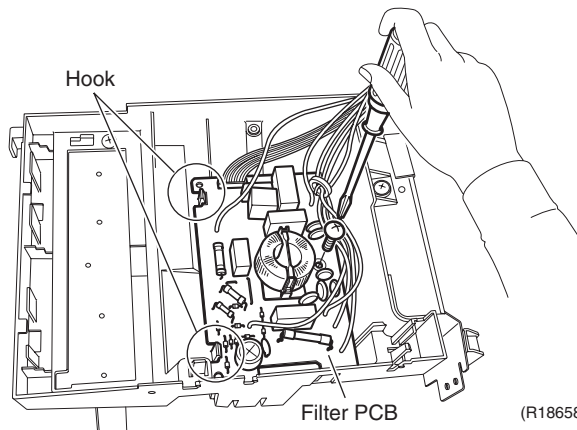
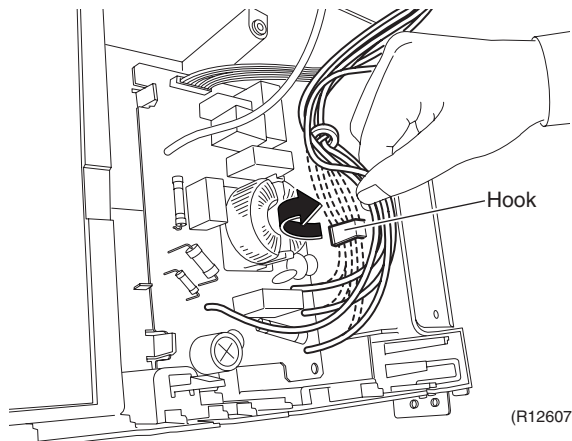
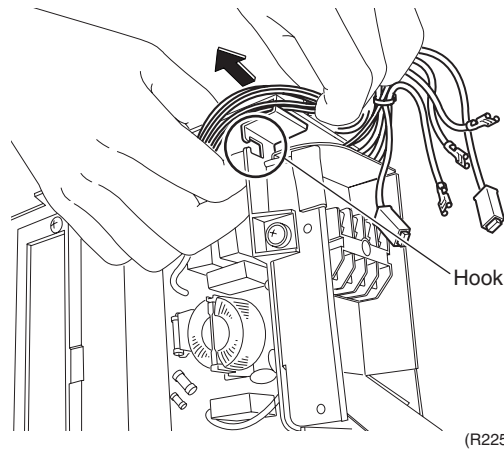
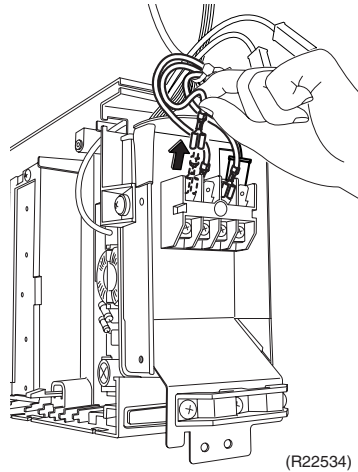
#### Warning

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

Step	Procedure	Points
1. Remove the main PCB.		
1 Cut the 3 clamps.	 <p>(R12594)</p>	<ul style="list-style-type: none"> <li>■ You can remove the main PCB after you disconnect the lead wires on the terminal board without removing the electrical box.</li> </ul>
2 Release the harnesses from the hooks.	 <p>(R12595)</p>	
3 Disconnect the connector [S10].	 <p>[S10] (R12596)</p>	[S10]: filter PCB
4 Disconnect the connector [HL3].	 <p>[HL3] (R12598)</p>	[HL3]: filter PCB

Step	Procedure	Procedure	Points
5	Disconnect the connector [HN3].	 <p>(R12599)</p>	[HN3]: filter PCB
6	Remove the 6 screws.	 <p>(R12600)</p>	
7	Unfasten the 2 hooks on the lower side.	 <p>Hook</p>	
8	Lift and pull out the main PCB.	 <p>Hook</p> <p>(R22536)</p>	<p>■ The electrical box also has 2 hooks on the upper side. When reassembling, be sure to fit all the 4 hooks.</p>
2. Remove the filter PCB.			
1	Remove the 2 screws and release the earth / ground wires.	 <p>Earth / ground wire</p> <p>(R22533)</p>	

Step	Procedure	Points
2	Disconnect the connectors from the terminal board.	1 : black, back 2 : white, back 3 : red, front ≡ : yellow / green, back
3	Release the harnesses from the hook.	Hook
4	Release the harnesses from the hook.	Hook
5	Remove the screw.	
6	Unfasten the 2 hooks and remove the filter PCB.	Hook
	Filter PCB	



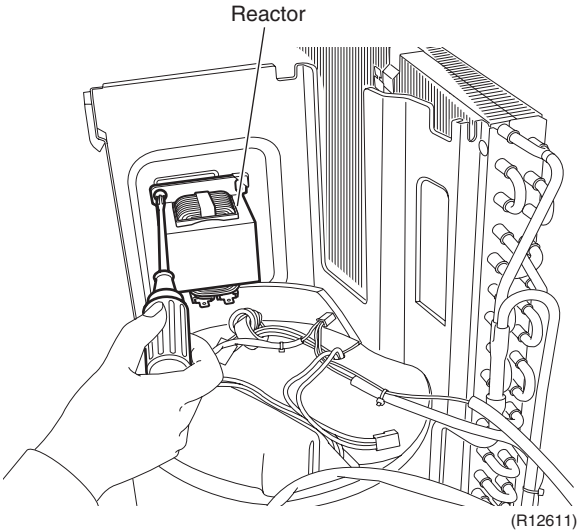
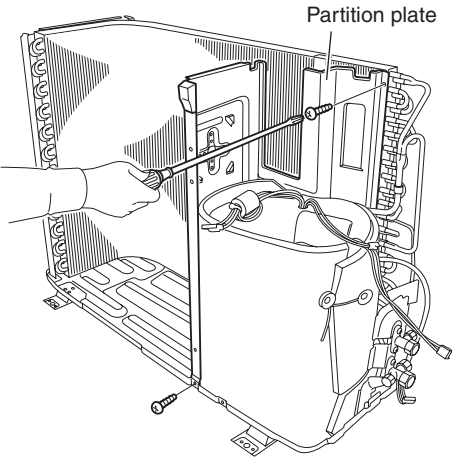
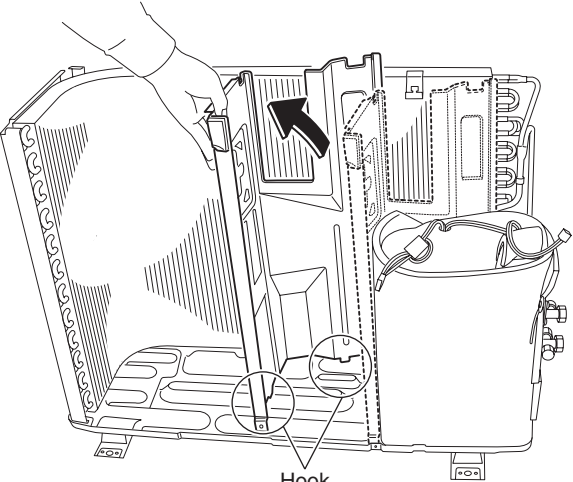


# 4. Reactor / Partition Plate



**Warning**

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

Step	Procedure	Points
<p>1. Remove the reactor.</p> <p>1 Remove the screw and slide the reactor to the left to unfasten the hook.</p> <p>2 Remove the reactor.</p>	 <p style="text-align: right;">(R12611)</p>	
<p>2. Remove the partition plate.</p> <p>1 Remove the 2 screws.</p> <p>2 The partition plate has 2 hooks on the lower side. Lift and pull the partition plate and remove it.</p>	 <p style="text-align: right;">(R12613)</p>  <p style="text-align: right;">(R12614)</p>	<p>■ When reassembling, fit the 2 lower hooks into the bottom frame.</p>

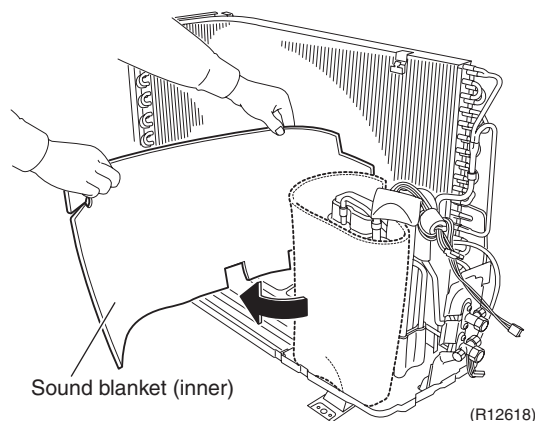
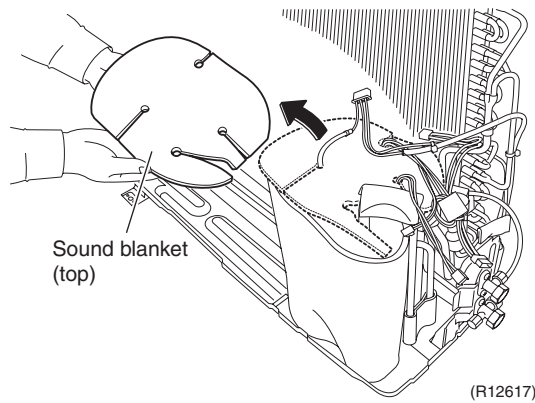
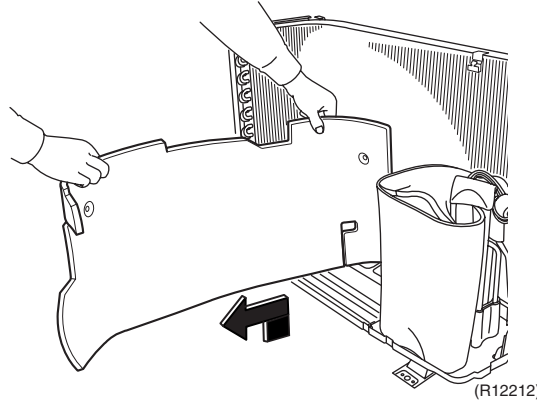
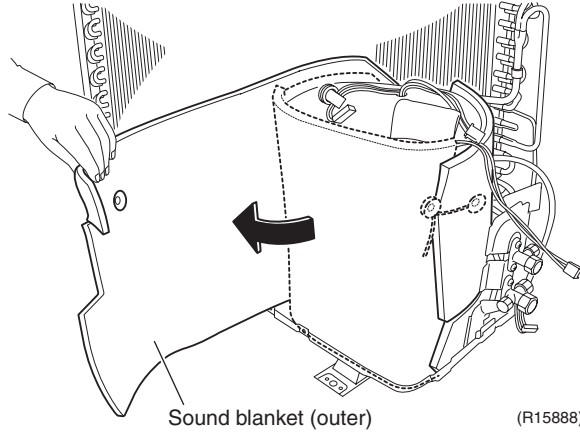
## 5. Sound Blankets



### Warning

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

Step	Procedure	Points
1	Untie the string and open the sound blanket (outer).	<ul style="list-style-type: none"> <li>■ Since the piping ports are torn easily, remove the sound blanket carefully.</li> </ul>
2	Pull out the sound blanket (outer).	
3	Remove the sound blanket (top).	
4	Pull out the sound blanket (inner).	

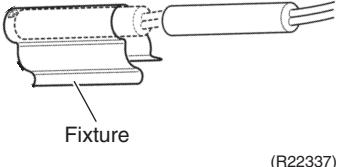
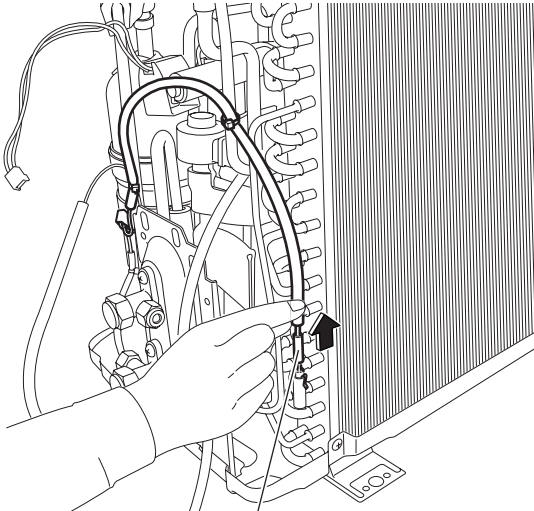
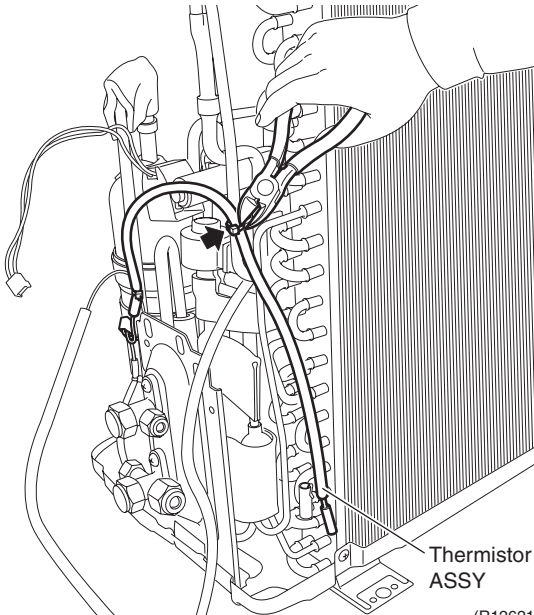


# 6. Thermistor ASSY



**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 discharge pipe thermistor.	<p>■ Be careful not to lose the fixture for the thermistor.</p> 
2	Pull out the outdoor heat exchanger thermistor.	<p>■ Be careful not to lose the clip for the thermistor.</p> 
3	Cut the clamp and remove the thermistor ASSY.	



# 7. 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.)



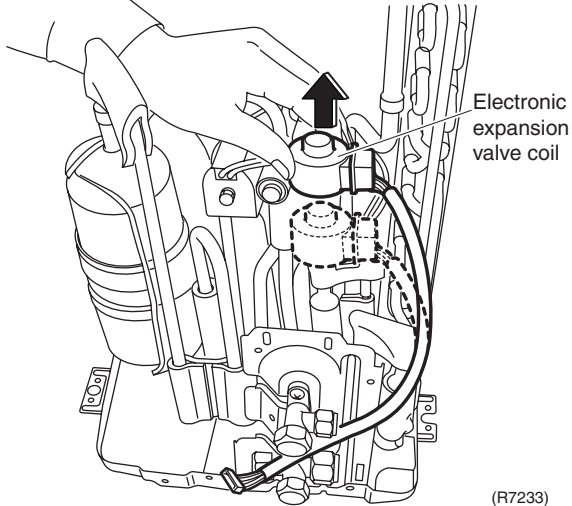
**Caution**

- ◆ 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.

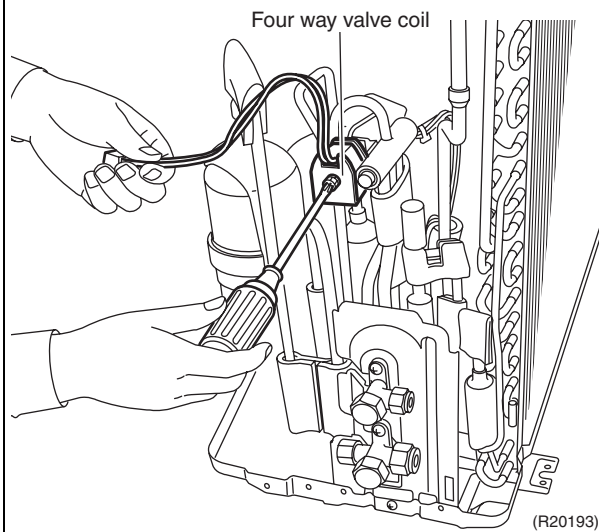
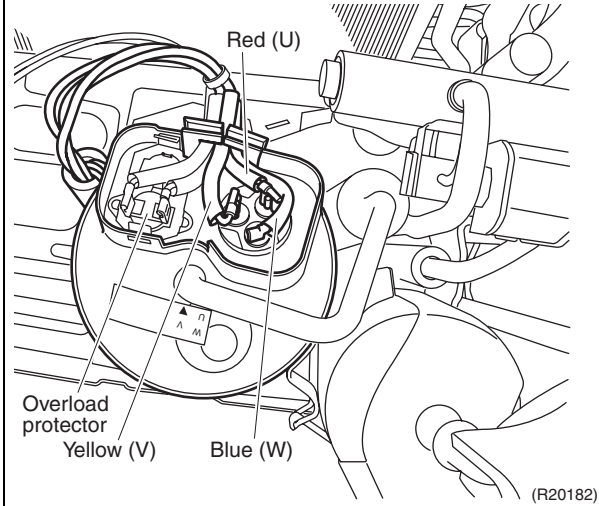
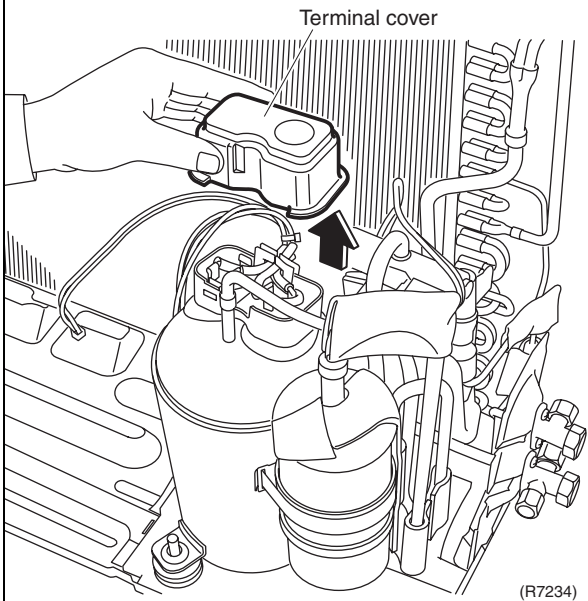


**Note**

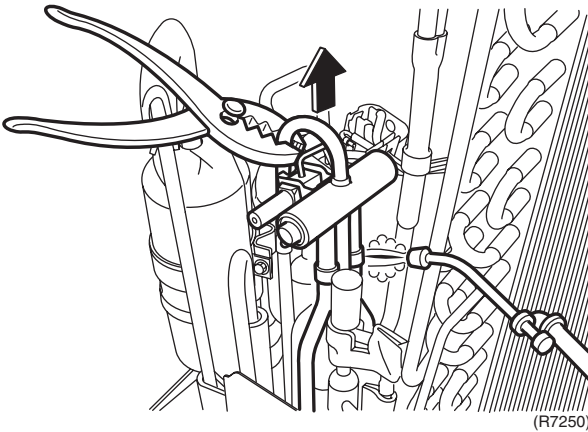
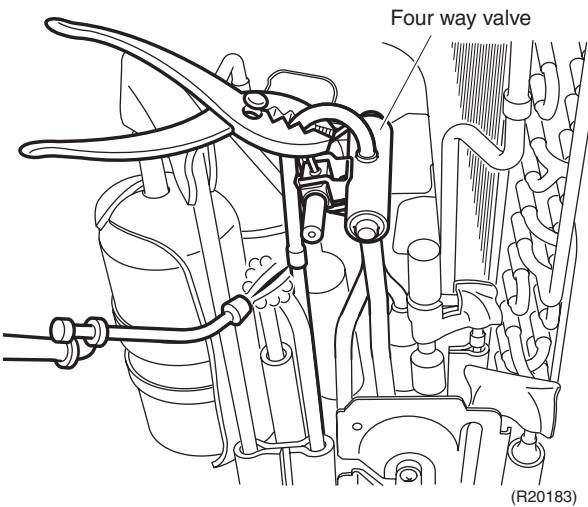
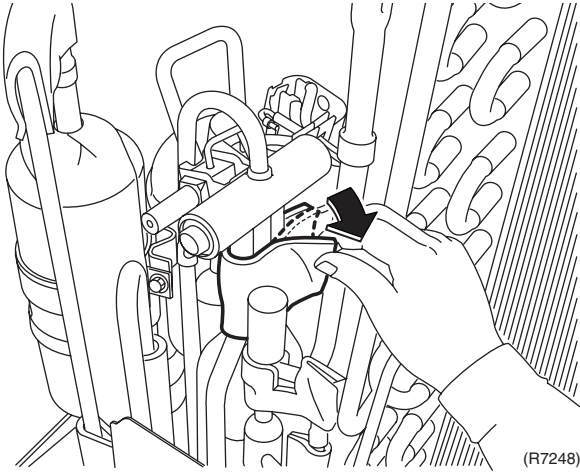
- ◆ Before working, make sure that the refrigerant gas is empty in the circuit.
- ◆ Be sure to apply nitrogen replacement when heating up the brazed part.
- ◆ Do not use a metal saw for cutting pipes by all means because the sawdust comes into the circuit.
- ◆ When withdrawing the pipes, be careful not 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> 	<ul style="list-style-type: none"> <li>■ Cooling only models have no four way valve.</li> </ul>

Step	Procedure	Points
2	Remove the terminal cover.	
3	Disconnect the lead wires of the compressor and the overload protector.	
4	Remove the screw and remove the four way valve coil.	



Step	Procedure	Points
5	Remove the sheets of putty.	
6	Heat up the 4 brazed parts and withdraw the piping with pliers.	



# 8. 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.



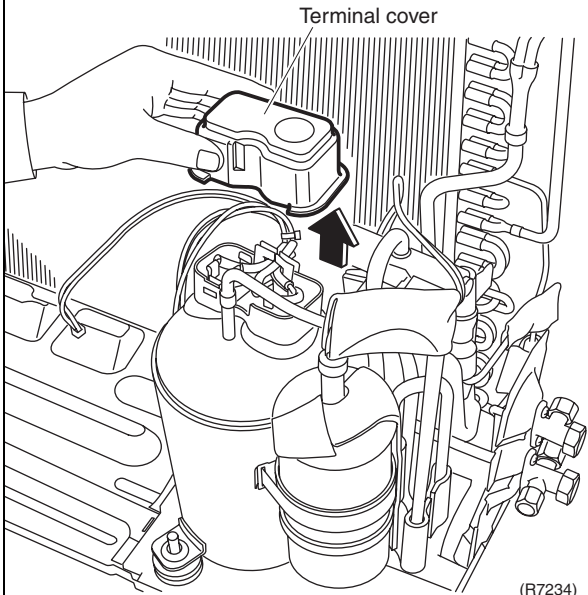
**Caution**

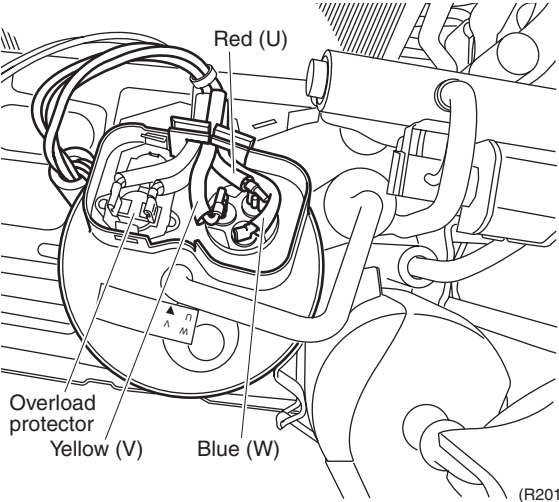
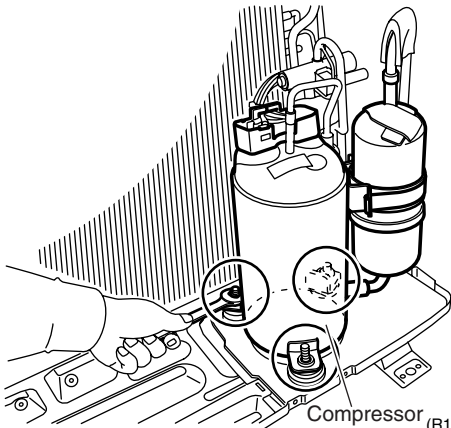
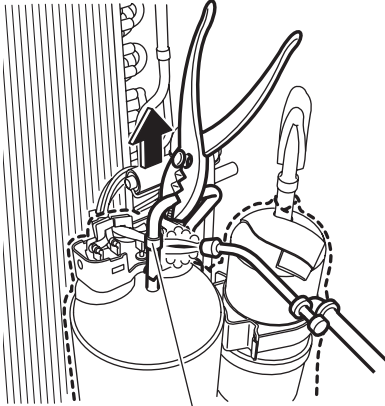
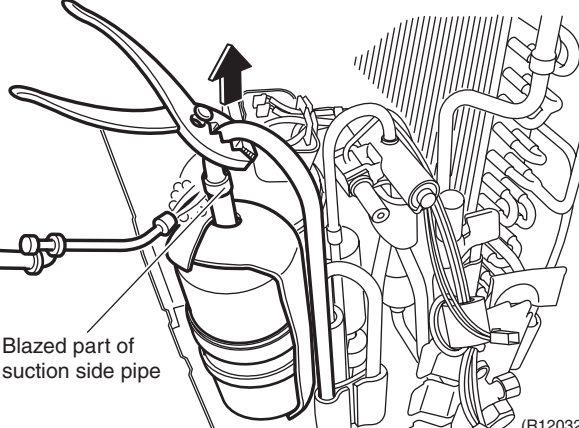
- ◆ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ◆ Restore the piping by non-oxidation brazing.



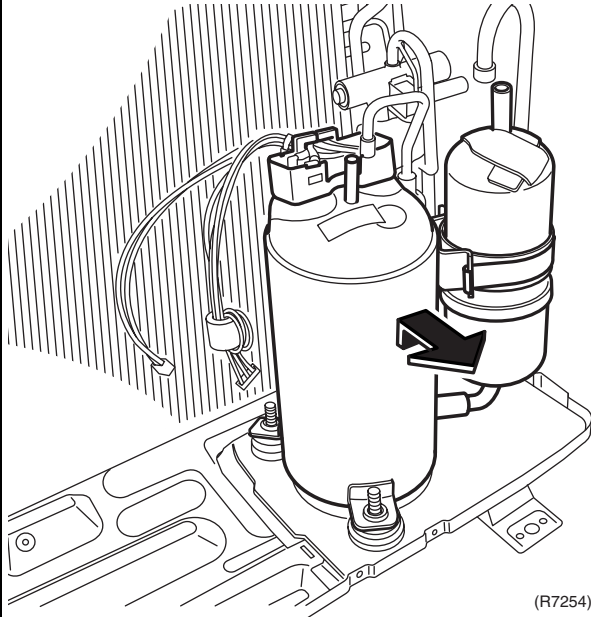
**Note**

- ◆ 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.	

Step	Procedure	Points
2	Disconnect the lead wires of the compressor and the overload protector.	
3	Remove the 2 or 3 nuts (depending on the model) of the compressor.	
4	Heat up the brazed part of the discharge side pipe and disconnect.	
5	Heat up the brazed part of the suction side pipe and disconnect.	 <p data-bbox="1094 1659 1445 1756">■ Some models have a sheet of putty, make sure to remove it beforehand.</p>

Step	Procedure	Points
6	Lift the compressor up and remove it.	



# Revision History

Month / Year	Version	Revised contents
02 / 2013	Si001353	First edition
02 / 2015	Si001353EA	Model addition: RXJ20/25/35LV1B, RXJ25NVLT, RXJ25/35NVMV, RXM20/25/35LV1B
09 / 2015	Si001353EB	Model addition: RXV22/28/36NVLT

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.

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