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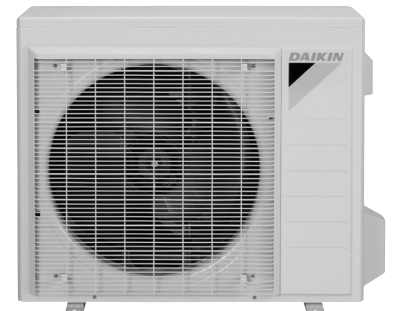
REMOVAL PROCEDURE



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

15000/18000/24000 Btu/h Class

-  Outdoor Unit
-  Inverter
-  Pair Type



Service Manual Removal Procedure

Outdoor Unit

●Cooling Only

**RK18NMVJU
RK24NMVJU
RKN24NMVJU**

●Heat Pump

**RX18NMVJU
RX24NMVJU
RXN18NMVJU
RXN24NMVJU**

RXL15QMVJU

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Note:

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

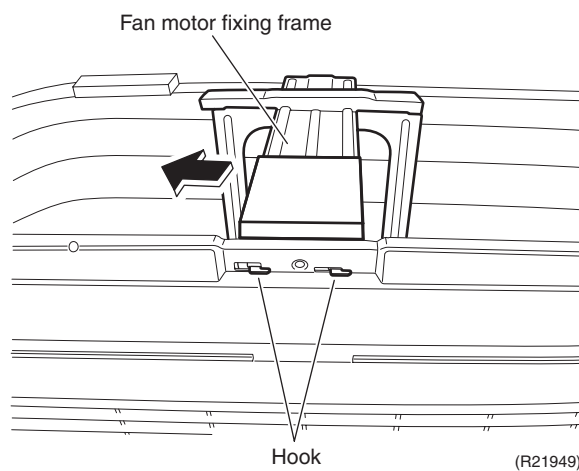
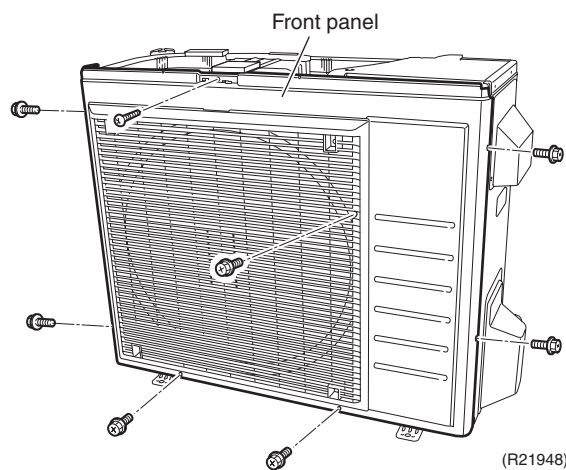
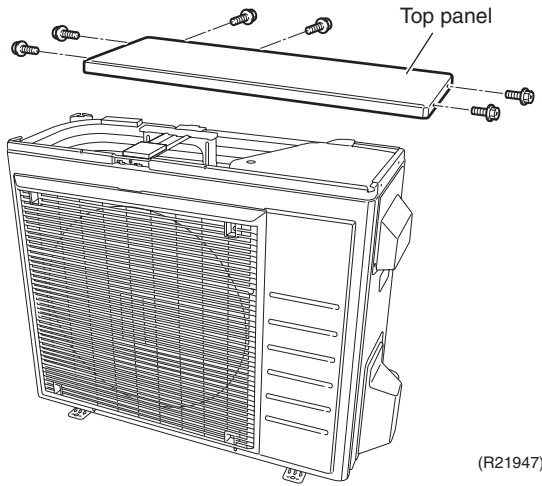
1. Outer Panels

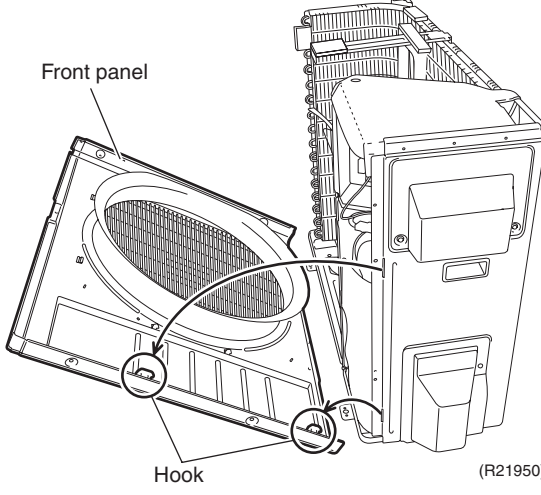
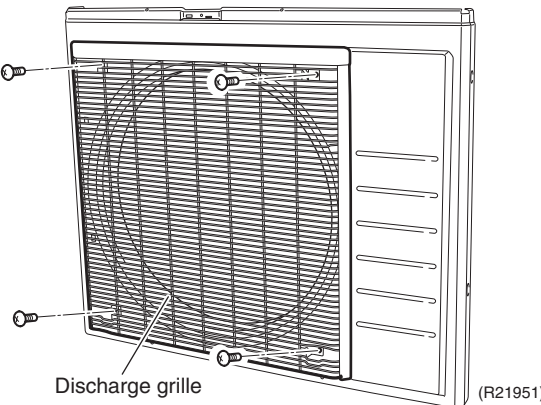
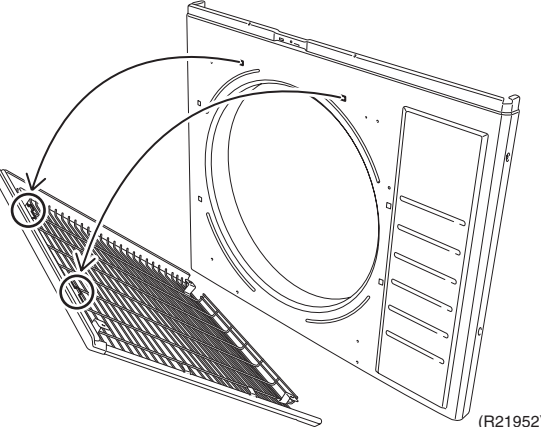


Warning

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

Step	Procedure	Points
1	Remove the 6 screws and remove the top panel.	(R21947)
2	Remove the 8 screws of the front panel.	(R21948)
3	Slide the fan motor fixing frame to the left and unfasten the 2 hooks.	(R21949)



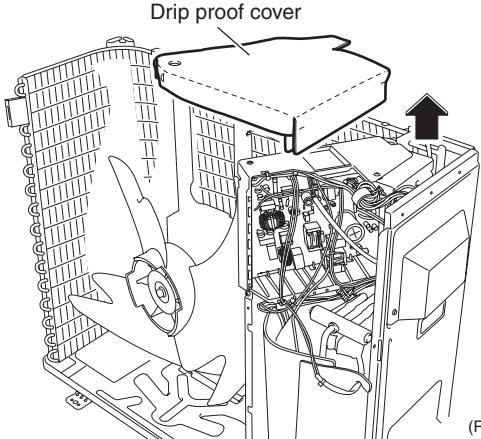
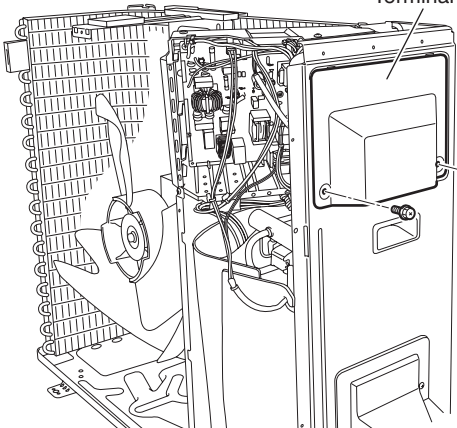
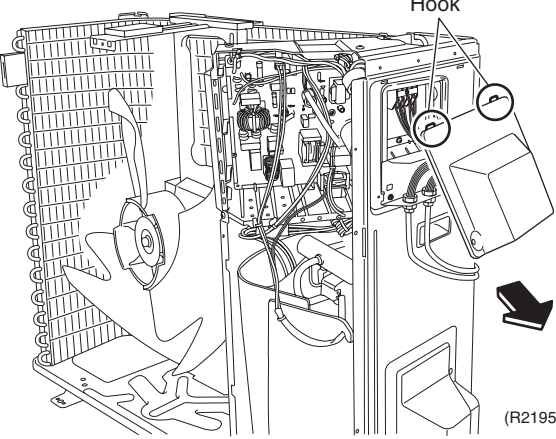
Step		Procedure	Points
4	Unfasten the 2 hooks on the right side.	 <p>Front panel</p> <p>Hook</p> <p>(R21950)</p>	
5	Remove the front panel.		 <p>Discharge grille</p> <p>(R21951)</p>
6	Remove the 4 screws of the discharge grille.	 <p>(R21952)</p>	
7	Unfasten the 2 hooks and remove the discharge grille.		

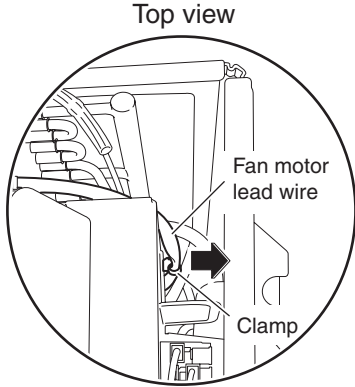
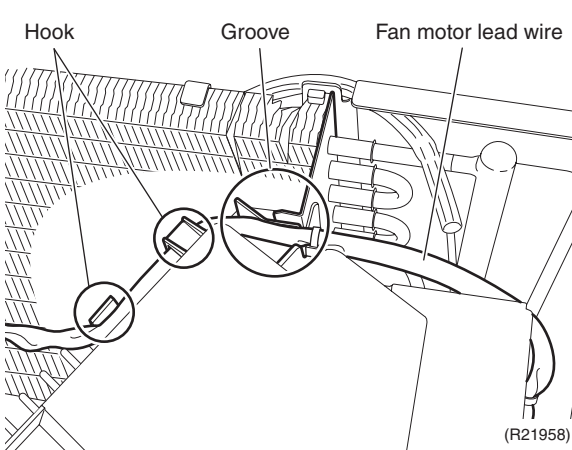
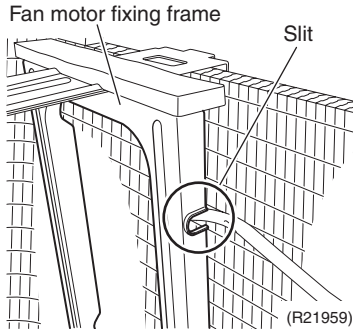
2. Outdoor Fan / Fan Motor

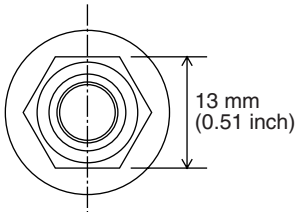
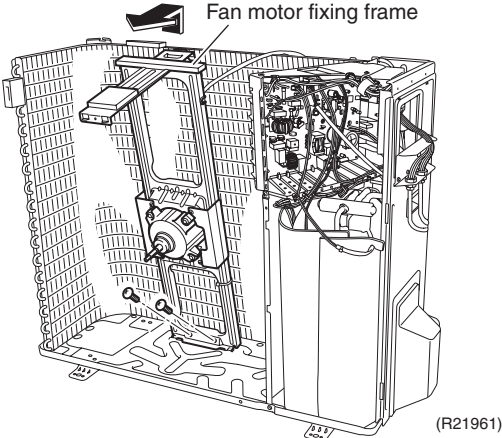
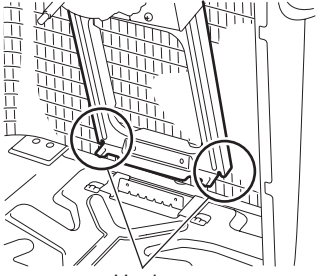
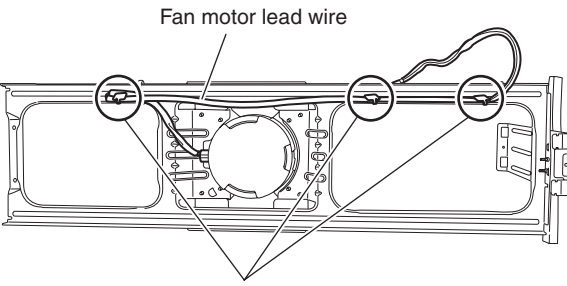
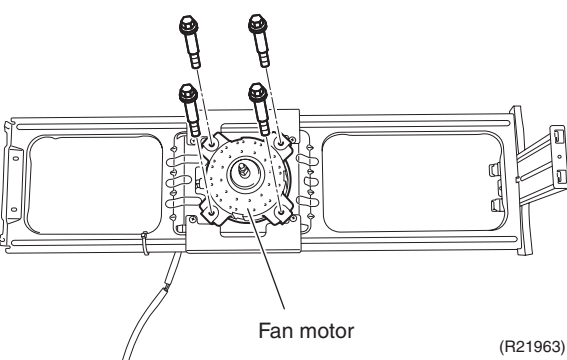


Warning

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Step	Procedure	Points	Points
1	Remove the drip proof cover.	 <p style="text-align: center;">Drip proof cover</p> <p style="text-align: right;">(R21953)</p>	
2	Remove the 2 screws of the terminal cover.	 <p style="text-align: center;">Terminal cover</p> <p style="text-align: right;">(R21954)</p>	
3	Open the terminal cover and pull down to unfasten the 2 hooks.	 <p style="text-align: center;">Hook</p> <p style="text-align: right;">(R21955)</p>	
4	Remove the terminal cover.		

Step	Procedure	Points
5	Disconnect the connector [S70].	[S70]: fan motor
6	Pull out the clamp of the fan motor lead wire (on the outer side of the electrical box).	 <p>Top view</p> <p>Fan motor lead wire</p> <p>Clamp</p>
7	Release the fan motor lead wire from the groove and unfasten the 2 hooks.	<p>■ When reassembling, fit the fan motor lead wire into the slit at the back of the fan motor fixing frame.</p>   <p>Fan motor fixing frame</p> <p>Slit</p>

Step	Procedure	Points
8	Remove the nut and remove the outdoor fan.	<p>■ Nut size : M8</p>  <p>(R18965)</p>
9	Remove the 2 screws and remove the fan motor fixing frame.	<p>■ When reassembling, fit the 2 lower hooks into the bottom frame.</p>   <p>(R21961)</p> <p>(R20916)</p>
10	Unfasten the 3 hooks on the fan motor fixing frame and release the fan motor lead wire.	 <p>(R21962)</p>
11	Remove the 4 screws and remove the fan motor.	 <p>(R21963)</p>

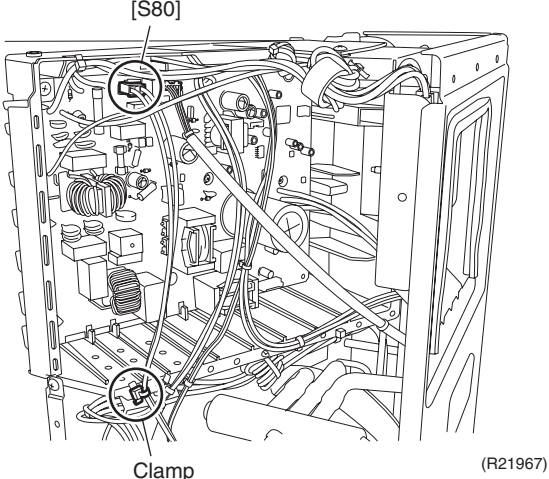
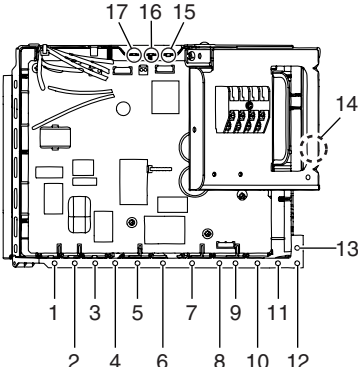
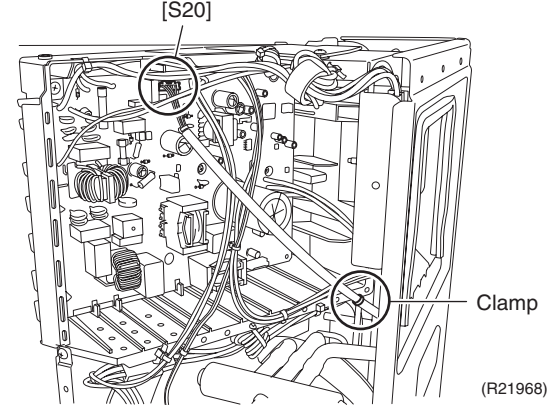
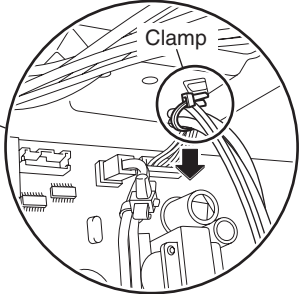
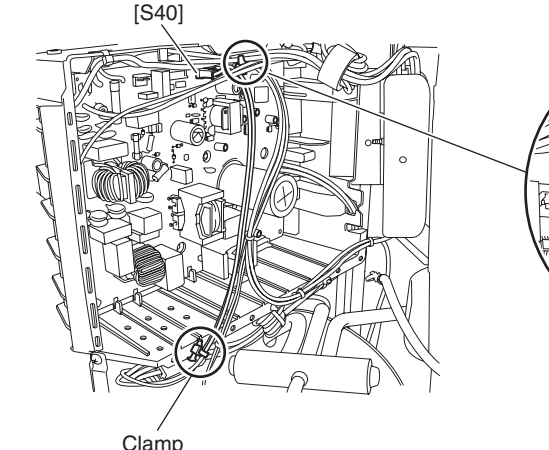
3. Electrical Box

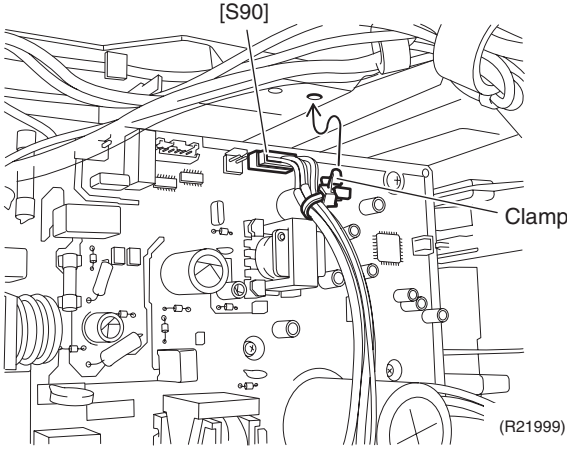
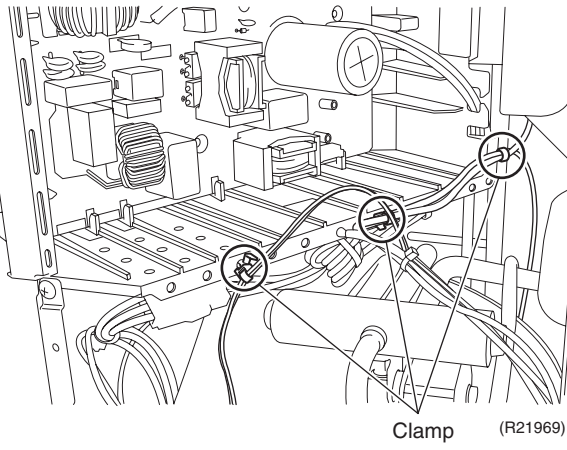
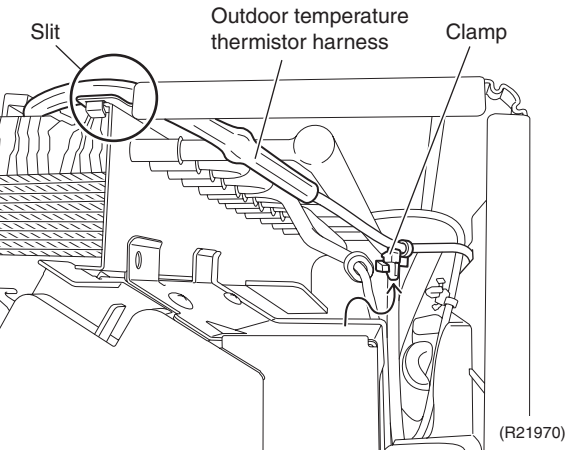
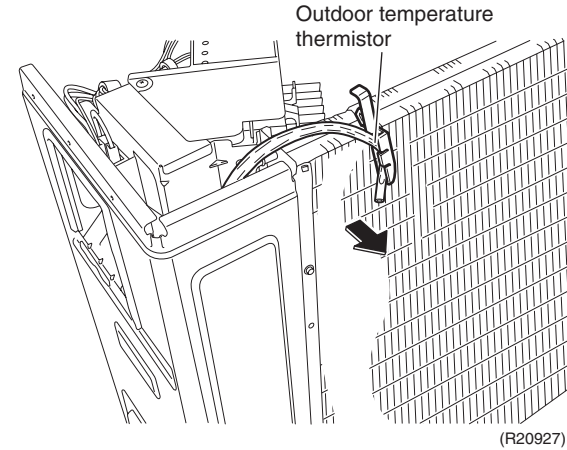


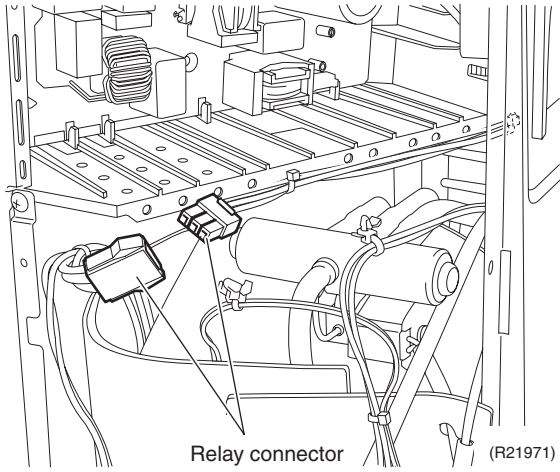
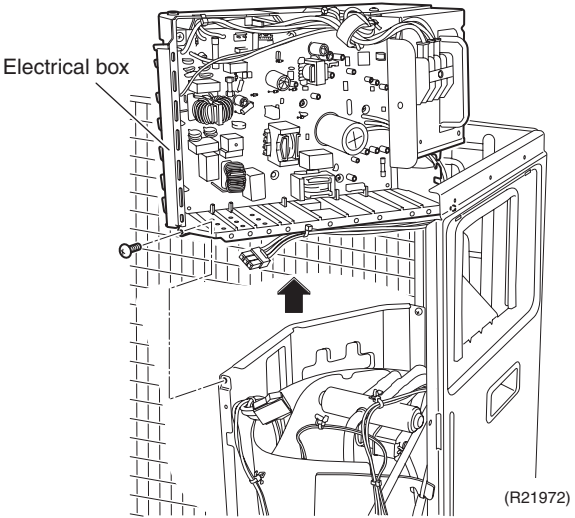
Warning

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

Step	Procedure	Points
1	Remove the 7 screws on the terminal board and disconnect the connecting wire and power supply wire.	<p>(R21964)</p>
2	Loosen the 2 nuts of the conduits and remove the connecting wire and power supply wire.	<p>(R21964)</p>
3	Remove the 2 screws and remove the conduit mounting plate.	<p>■ When reassembling, fit the 2 hooks of the conduit mounting plate to the right side panel.</p> <p>(R21965)</p> <p>(R21966)</p>
4	Remove the 2 screws.	<p>(R20921)</p>

Step	Procedure	Points
5	Disconnect the connector [S80] and pull out the clamp (Hole No.1).	<p>[S80]: four way valve coil</p> <ul style="list-style-type: none"> ■ The cooling only models have no harness for [S80]. ■ When reassembling, connect the connectors in the following order. Be sure to insert the wiring clamps of lead wires into the appropriate holes. <p>(1) [S90]: Hole No.15, 14, 13, 7, 3 (2) [S40]: Hole No.16, 2 (3) [S20]: Hole No.11 (4) [S80]: Hole No.1</p>
		<p>Hole No. for wiring clamps</p>  <p>(R21996)</p>
6	Disconnect the connector [S20] and pull out the clamp (Hole No.11).	<p>[S20]: electronic expansion valve coil</p>
		<p>[S40]: overload protector</p>
7	Pull out the clamp (Hole No.16) and disconnect the connector [S40].	 <p>(R21998)</p>
8	Pull out the clamp (Hole No.2).	
		

Step	Procedure	Points
9	Pull out the clamp (Hole No.15) and disconnect the connector [S90].	[S90]: thermistors
		
10	Pull out the 3 clamps (Hole No.3, 7, and 13).	
		
11	Pull out the clamp from the Hole No.14 and release the outdoor temperature thermistor harness from the slit.	
		
12	Remove the outdoor temperature thermistor.	<ul style="list-style-type: none"> ■ The design of the outdoor temperature thermistor varies depending on the model.
		

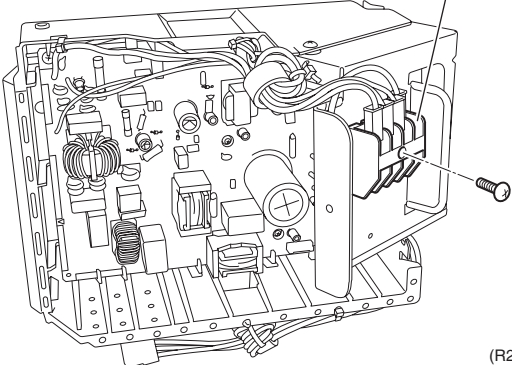
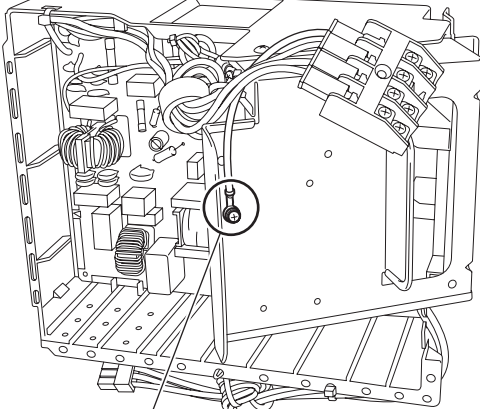
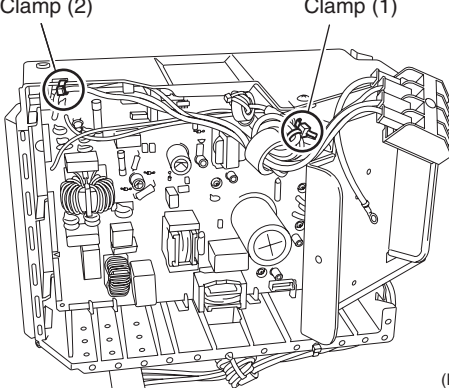
Step	Procedure	Points
13	<p>Disconnect the relay connector for compressor.</p>  <p>Relay connector (R21971)</p>	
14	<p>Remove the screw and remove the electrical box.</p>  <p>Electrical box (R21972)</p>	

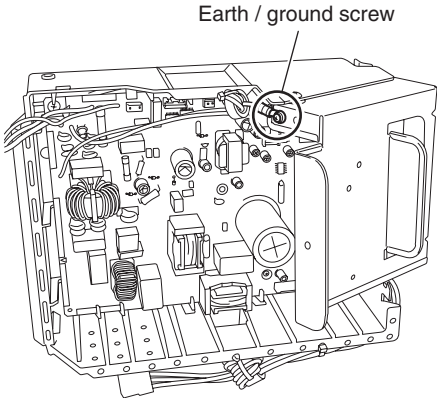
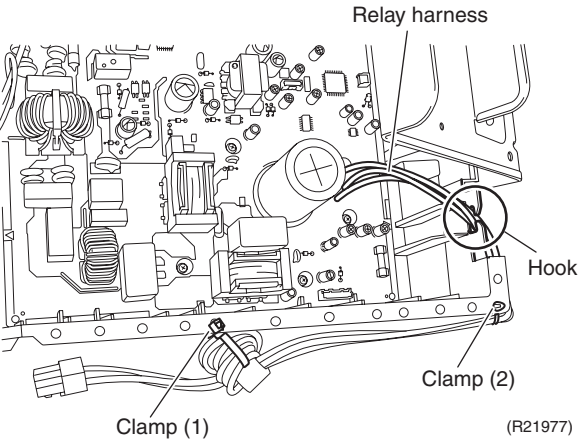
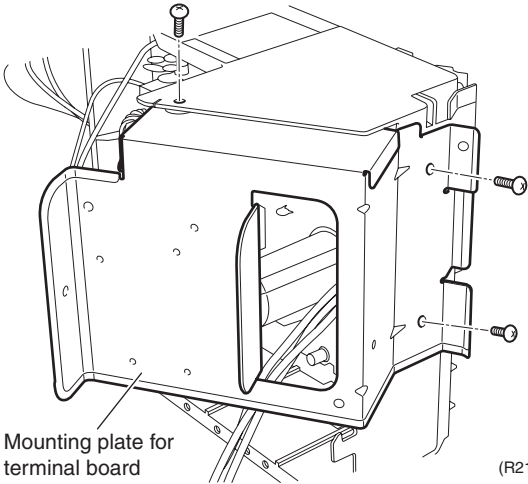
4. PCB

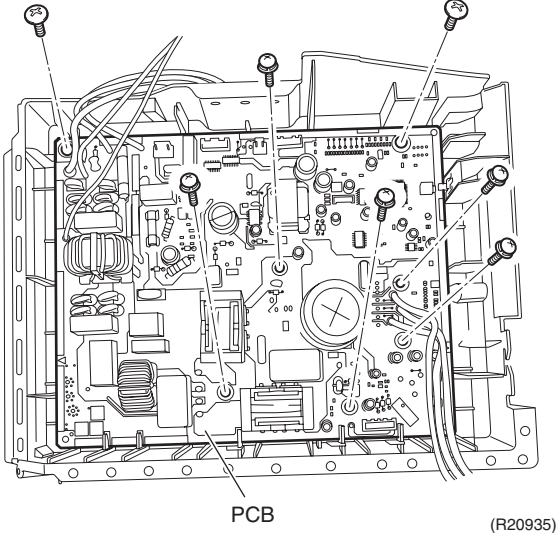
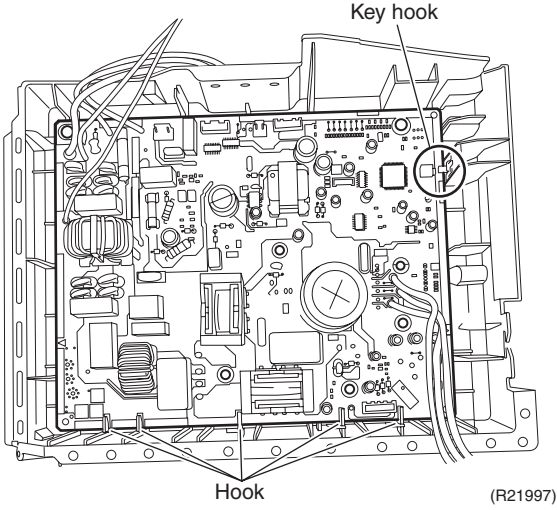
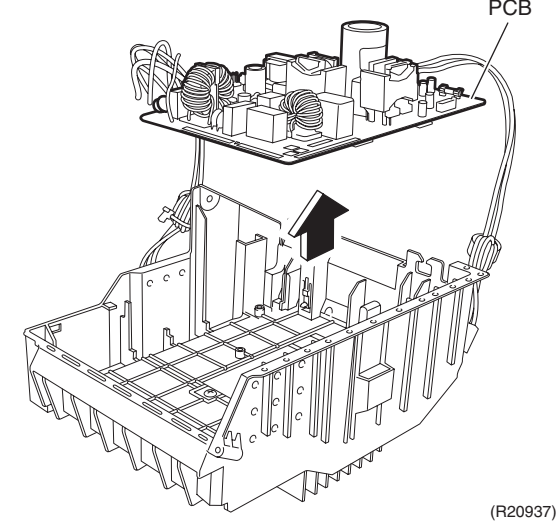


Warning

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Step	Procedure	Procedure	Points
1	Remove the screw of the terminal board.	 <p>Terminal board</p> <p>(R21973)</p>	
2	Remove the earth / ground screw.	 <p>Earth / ground screw</p> <p>(R21974)</p>	
3	Pull out the clamp (1) and cut the clamp (2).	 <p>Clamp (2)</p> <p>Clamp (1)</p> <p>(R21975)</p>	

Step	Procedure	Points
4	Remove the earth / ground screw.	 <p style="text-align: center;">Earth / ground screw</p> <p style="text-align: right;">(R21976)</p>
5	Cut the clamp (1) (Hole No.5), pull out the clamp (2) (Hole No.12), and release the relay harness from the hook.	 <p style="text-align: center;">Relay harness</p> <p style="text-align: right;">Hook</p> <p style="text-align: center;">Clamp (2)</p> <p style="text-align: center;">Clamp (1)</p> <p style="text-align: right;">(R21977)</p>
6	Remove the 3 screws of the mounting plate for terminal board.	 <p style="text-align: center;">Mounting plate for terminal board</p> <p style="text-align: right;">(R21978)</p>

Step	Procedure	Points
7	Remove the 7 screws of the PCB.	
	 <p>PCB (R20935)</p>	
8	Unfasten the key hook then the other 5 hooks.	
	 <p>Key hook Hook (R21997)</p>	
9	Remove the PCB.	
	 <p>PCB (R20937)</p>	

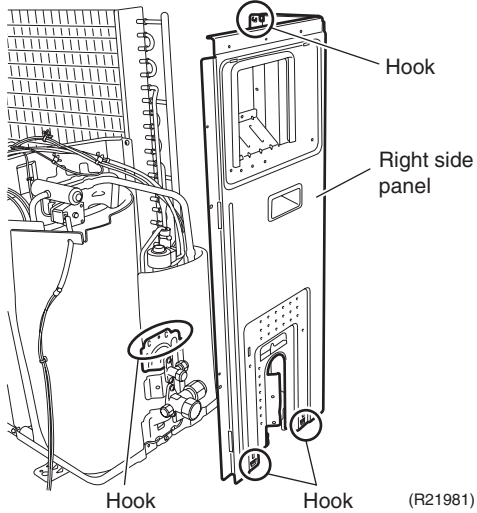
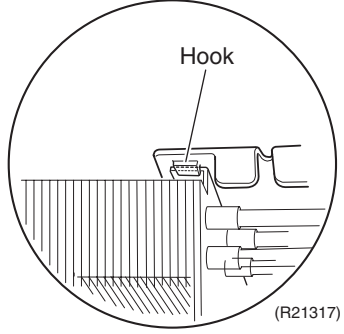
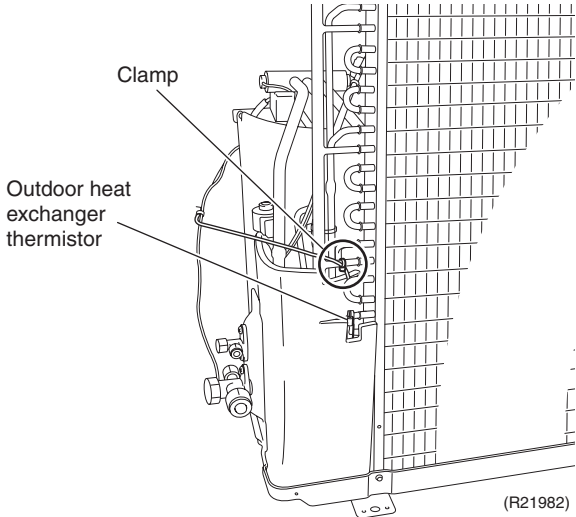
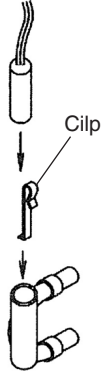
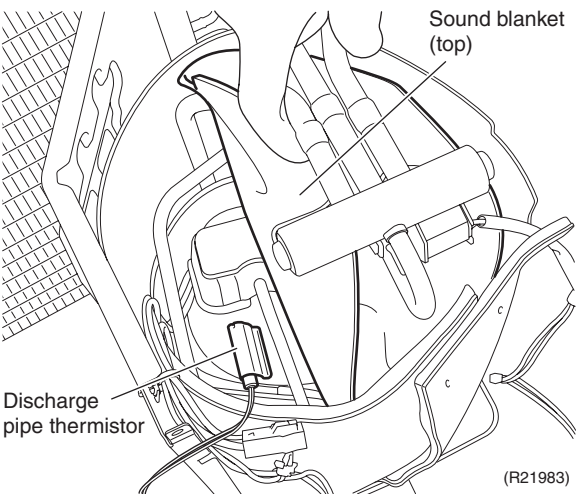
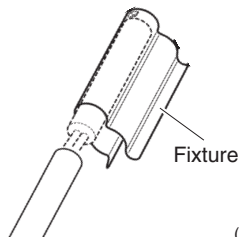
5. Thermistor ASSY / Partition Plate

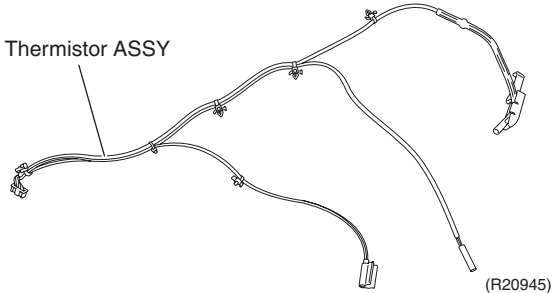
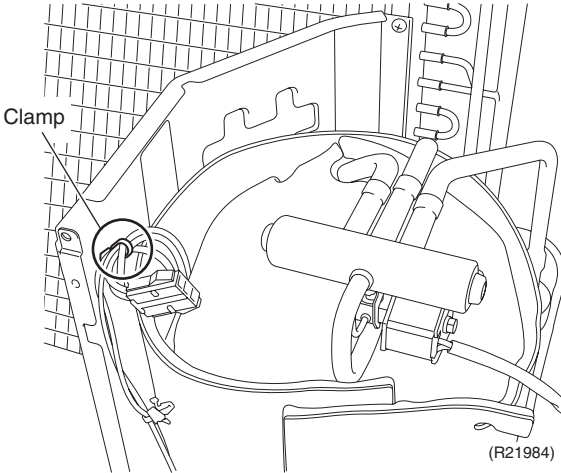
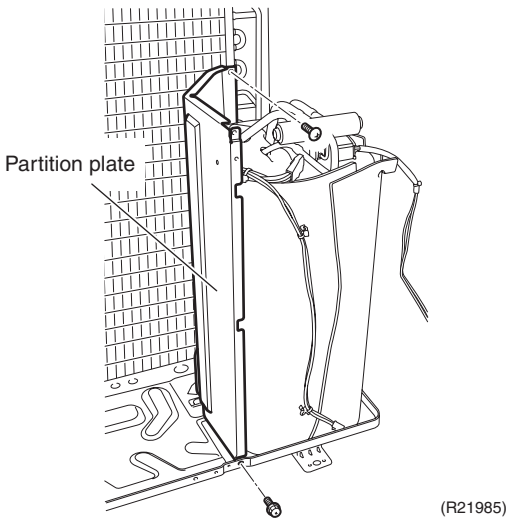
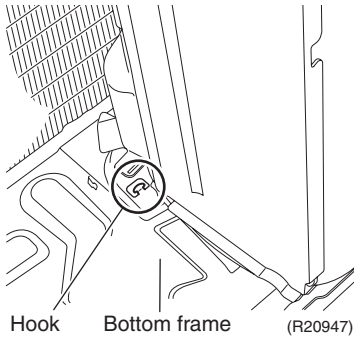


Warning

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Step	Procedure	Points
1. Remove the right side panel.	<p>(R21979)</p>	
1 Remove the screw of the stop valve cover.	<p>(R21980)</p>	<p>■ When reassembling, make sure to fit the 3 hooks.</p> <p>(R20940)</p>
2 Slide the stop valve cover downward and remove it.	<p>(R20941)</p>	
3 Remove the 4 screws of the right side panel.		

Step	Procedure	Points
<p>4</p> <p>Unfasten the 4 hooks and remove the right side panel.</p>		<p>■ When reassembling, make sure to fit the rear hook.</p> 
<p>2. Remove the thermistor ASSY.</p>	<p>1</p> <p>Cut the clamp and pull out the outdoor heat exchanger thermistor.</p> 	<p>■ Be careful not to lose the clip for the thermistor.</p> 
<p>2</p> <p>Open the sound blanket (top) and detach the discharge pipe thermistor.</p>		<p>■ Be careful not to lose the fixture for the thermistor.</p> 

Step	Procedure	Points
3	Remove the thermistor ASSY.	 <p>Thermistor ASSY</p> <p>(R20945)</p>
3. Remove the partition plate.		 <p>Clamp</p> <p>(R21984)</p>
1	Pull out the clamp.	
2	Remove the 2 screws and remove the partition plate.	 <p>Partition plate</p> <p>(R21985)</p>
		<p>■ When reassembling, fit the lower hook into the bottom frame.</p>
		 <p>Hook Bottom frame (R20947)</p>

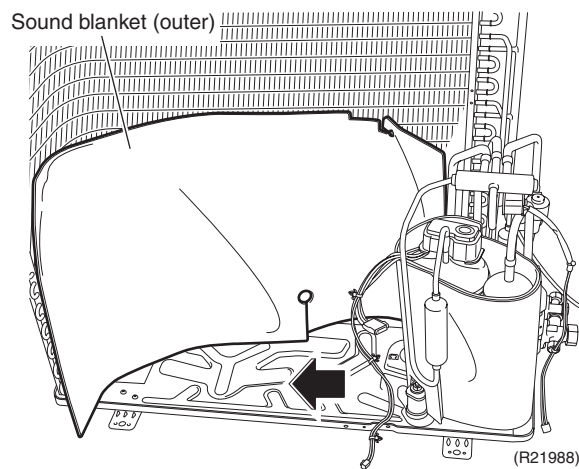
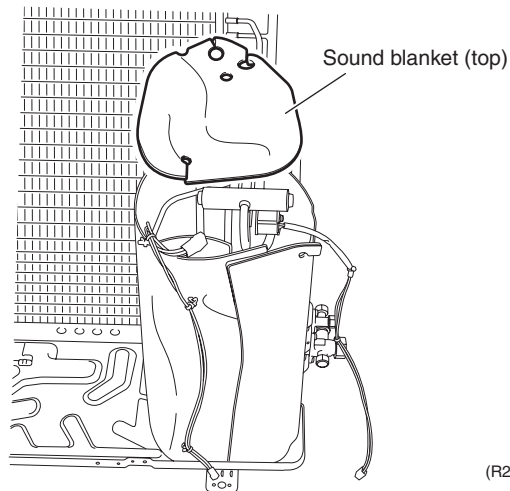
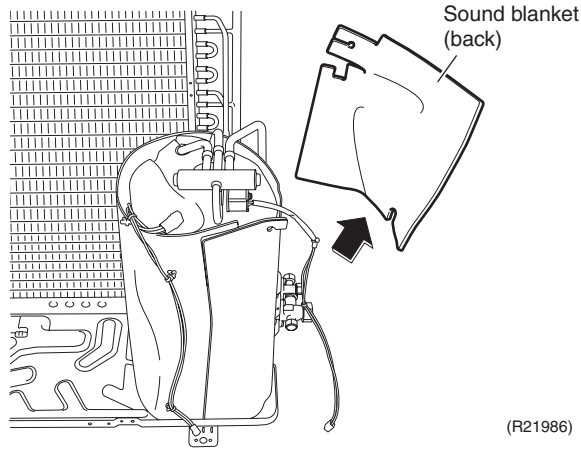
6. Sound Blankets



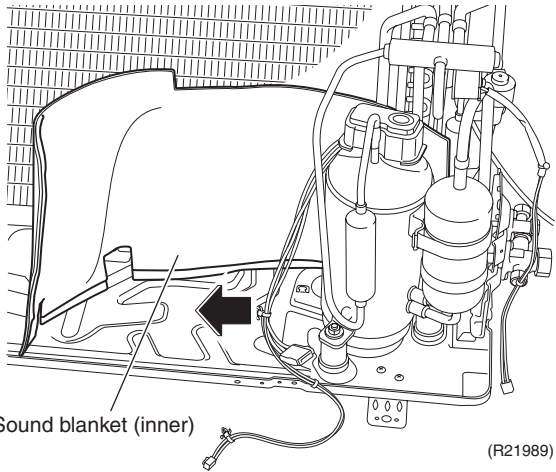
Warning

- ◆ 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 (back).	(R21986)
2	Remove the sound blanket (top).	(R21987)
3	Open and pull up the sound blanket (outer).	(R21988)



Step	Procedure	Points
4	Remove the sound blanket (inner).	<ul style="list-style-type: none"> ■ When reassembling, fit the sound blankets in the following order. <ol style="list-style-type: none"> (1) inner (2) outer (3) back (4) top



Sound blanket (inner)

(R21989)

7. Electronic Expansion Valve Coil / Four Way Valve



Warning

- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.
- ◆ Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.
- ◆ If the refrigerant gas leaks during work, ventilate the room. (If the refrigerant gas is exposed to flames, toxic gas may be generated.)



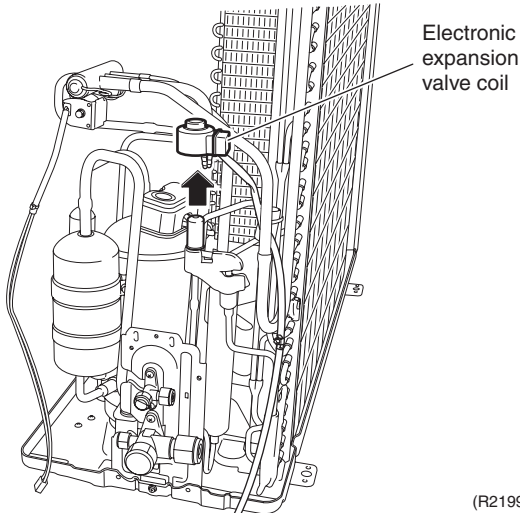
Caution

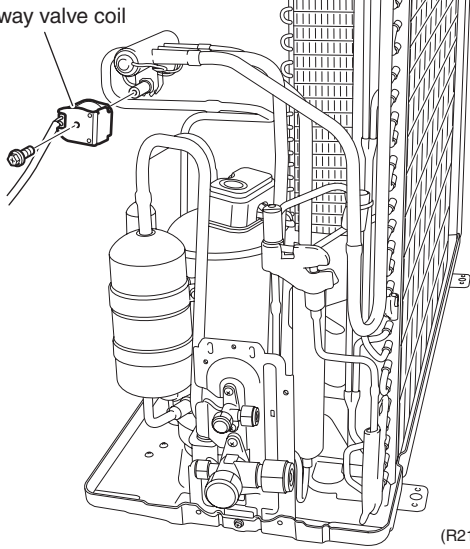
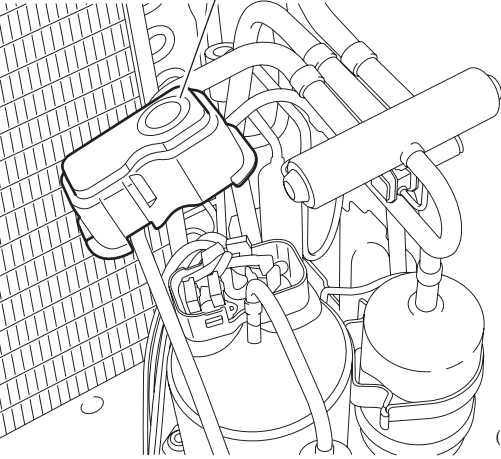
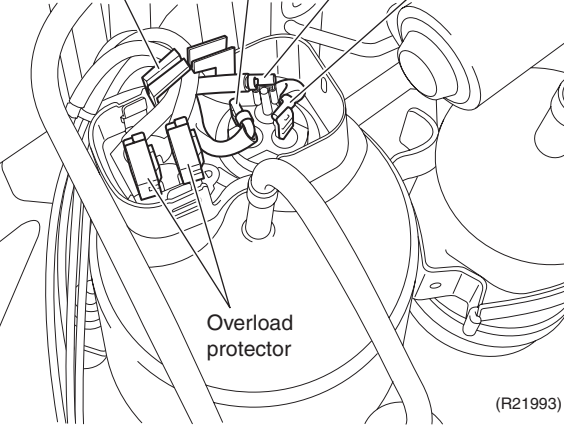
- ◆ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ◆ **Cautions for restoration**
 1. Restore the piping by non-oxidation brazing.
 2. It is required to prevent the carbonization of the oil inside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



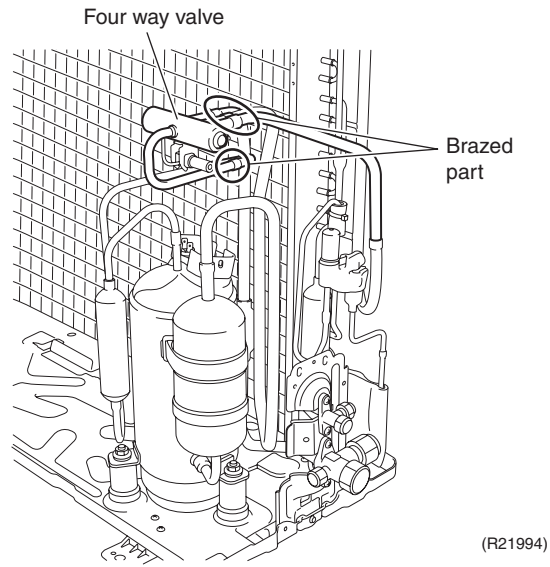
Note

- ◆ 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
<p>1</p>	<p>Pull out the electronic expansion valve coil.</p>  <p>Electronic expansion valve coil</p> <p>(R21990)</p>	<ul style="list-style-type: none"> ■ The cooling only models have no four way valve coil.

Step	Procedure	Points
2	Remove the screw and remove the four way valve coil.	
	 <p>Four way valve coil</p> <p>(R21991)</p>	
3	Remove the terminal cover.	
	 <p>Terminal cover</p> <p>(R21992)</p>	
4	Remove the protection bushing.	
5	Disconnect the compressor lead wires and the overload protector.	
	 <p>Protection bushing V (yellow) U (red) W (blue)</p> <p>Overload protector</p> <p>(R21993)</p>	

Step	Procedure	Points
6	Heat up the 4 brazed parts and remove the four way valve.	<ul style="list-style-type: none">■ When reassembling, make sure that the four way valve is not inclined.



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.



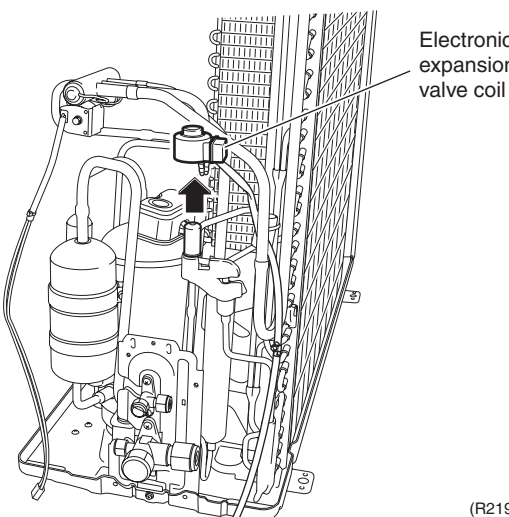
Caution

- ◆ 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.

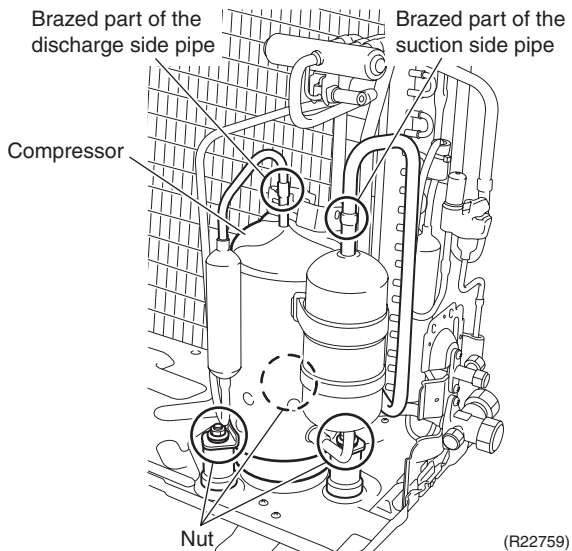
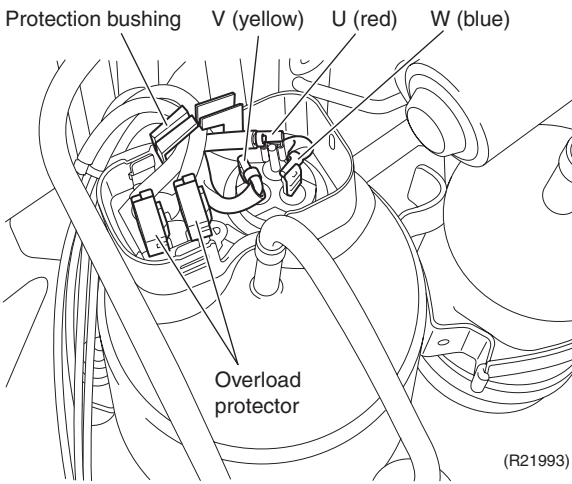
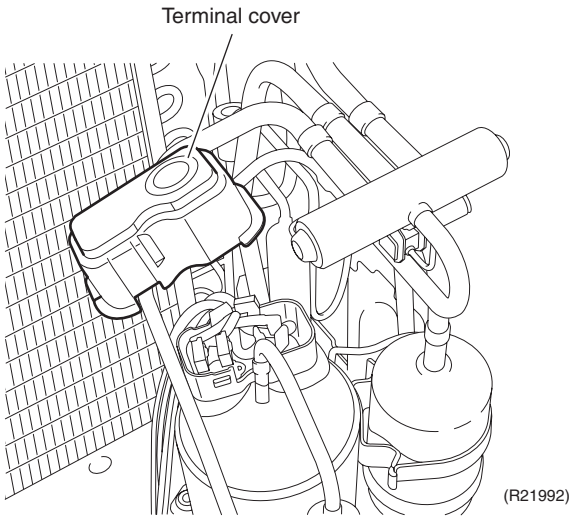


Note

- ◆ 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	Pull out the electronic expansion valve coil.	<div style="text-align: center;">  <p>(R21990)</p> </div>
		<ul style="list-style-type: none"> ■ The cooling only models have no four way valve coil.

Step	Procedure	Points
2	Remove the terminal cover.	
3	Remove the protection bushing.	
4	Disconnect the compressor lead wires and the overload protector.	
5	Heat up the brazed part of the discharge side pipe and disconnect it.	
6	Heat up the brazed part of the suction side pipe and disconnect it.	
7	Remove the 3 nuts.	
8	Lift up the compressor and remove it.	



Revision History

Month / Year	Version	Revised contents
06 / 2015	Si001555E	First edition
01 / 2016	Si001555EA	Model addition: RXL15QMVJU

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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