

REMOVAL PROCEDURE



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

6.0/6.3/7.1 kW Class 24000/28000 Btu/h Class

-  Outdoor Unit
-  Inverter
-  Pair Type



Service Manual

Removal Procedure

Outdoor Unit

●Cooling Only

RKM28NV2S

RKM71PVMG

RKS24JV2S
RKS28JV2S

RKS60MVLТ

RKS71FVMV

RKS71GVM4
RKS71GVMV

RKS71HVM

RKS71JVMG

RKV71NVM
RKV71NVM4
RKV71NVMV

●Heat Pump

RXM63NVLT

RXS60MVLТ

RXS71FVMV

RXS71FAV1B9
RXS71FAV1B8
RX71GV1B9
RX71GV1B8

RXS71GVMV

RXV71NVLT

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Note:

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

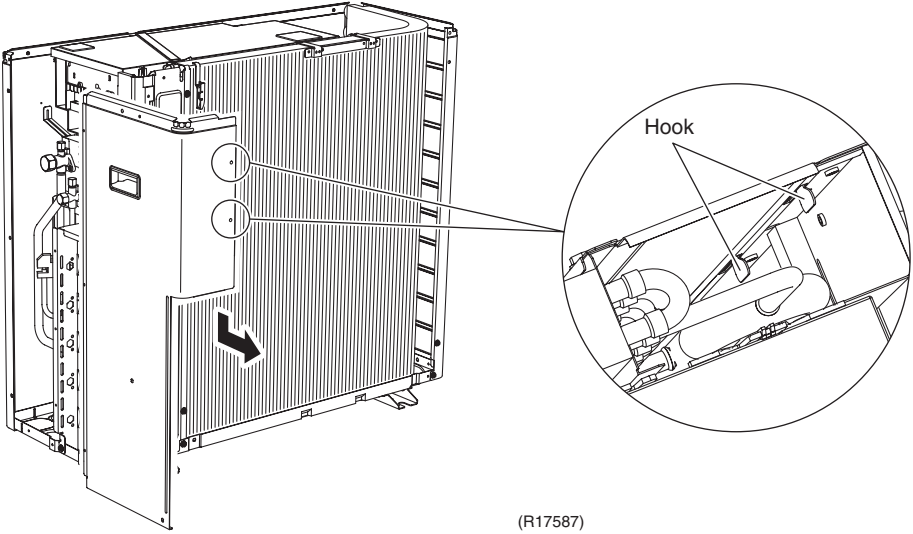
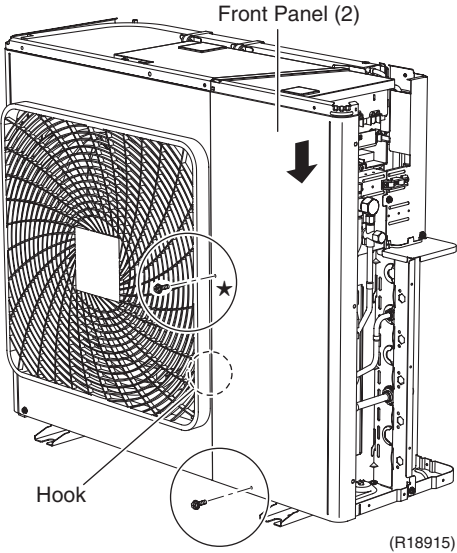
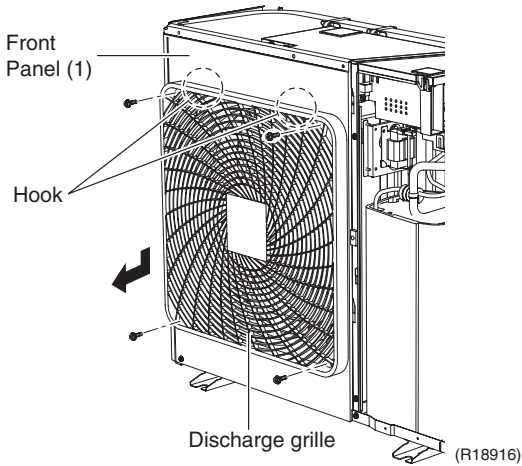
1. Outer Panels

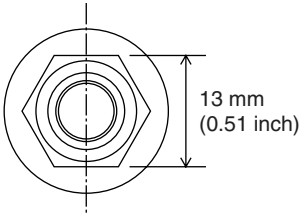
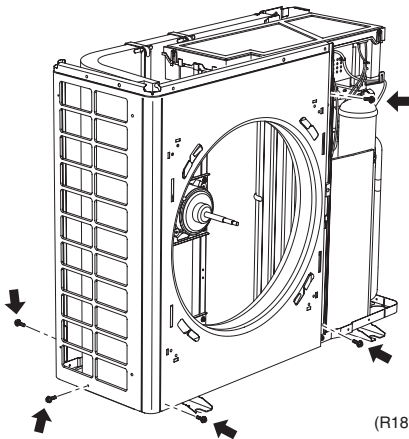
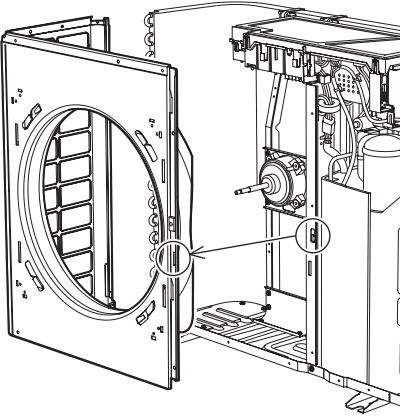
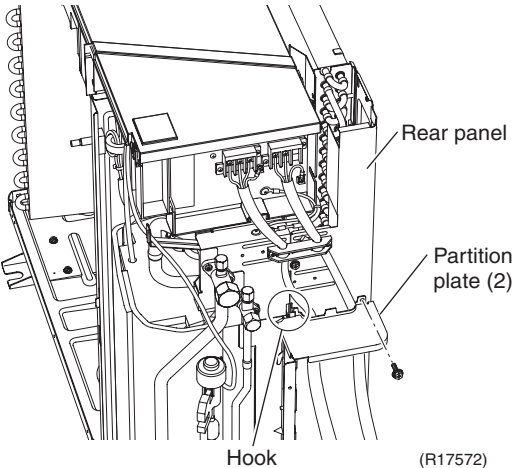


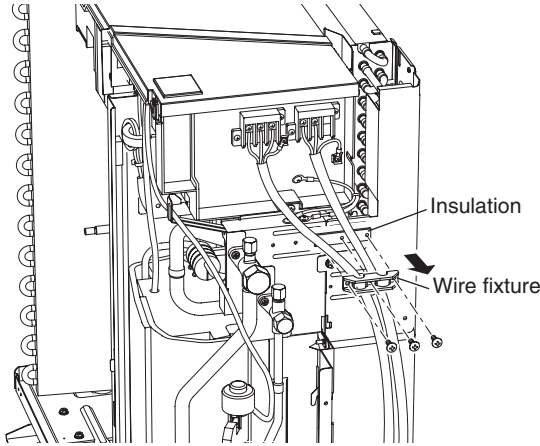
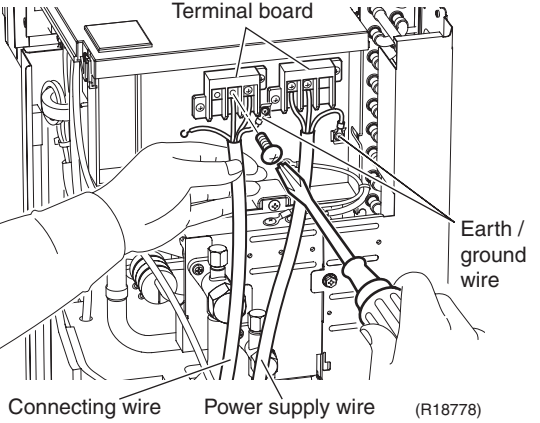
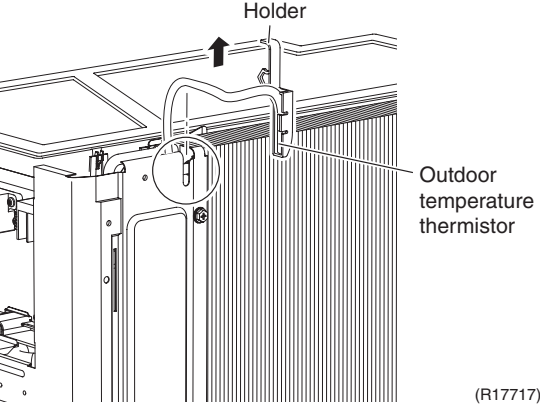
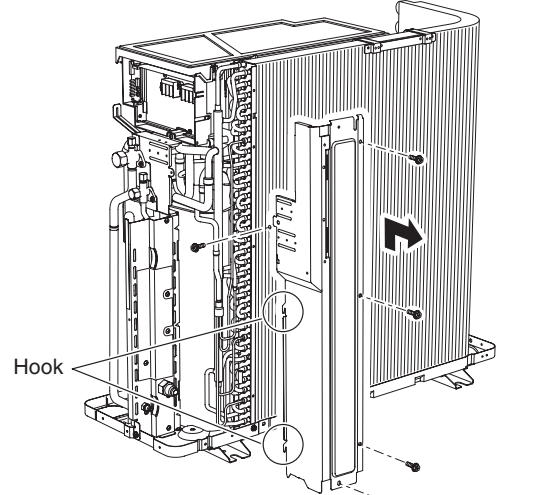
Warning

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

Step	Procedure	Points
<p>1. Remove the suction grille.</p> <p>1 Unfasten the 5 hooks.</p> <p>2 Remove the suction grille.</p>		
<p>2. Remove the top panel.</p> <p>1 Remove the 8 screws.</p> <p>2 Lift the top panel and remove it.</p>		<p>■ The design of the discharge grille varies depending on the model.</p>
<p>3. Remove the right side panel.</p> <p>1 Remove the 5 screws.</p>		

Step	Procedure	Points
2	Remove the right side panel.	<ul style="list-style-type: none"> Slide the right side panel downward to unfasten the 2 hooks on the rear side.
 <p style="text-align: right;">(R17587)</p>		
4. Remove the front panel (2).	 <p style="text-align: right;">(R18915)</p>	<ul style="list-style-type: none"> ★: This screw is M5(3) × 16. Slide the front panel (2) downward to unfasten the hook.
1 Remove the 2 screws and remove the front panel (2).		
5. Remove the front panel (1).	 <p style="text-align: right;">(R18916)</p>	<ul style="list-style-type: none"> Remove the discharge grille and the outdoor fan before removing the front panel (1).
1 Remove the 4 screws on the discharge grille.		
2 Unfasten the 2 hooks at the top and remove the discharge grille.		

Step	Procedure	Points
3	Remove the nut and remove the outdoor fan.	<ul style="list-style-type: none"> ■ Nut size: M8  <p style="text-align: center;">(R18965)</p> <ul style="list-style-type: none"> ■ When reassembling, align the ▼ mark of the outdoor fan with the D-cut section of the motor shaft.
4	Remove the 5 screws.	 <p style="text-align: right;">(R18780)</p>
5	Release the hook and remove the front panel (1).	 <p style="text-align: right;">(R17716)</p>
6. Remove the rear panel.	<p>1 Remove the screw on the partition plate (2).</p> <p>2 Unfasten the hook and remove the partition plate (2).</p>	<ul style="list-style-type: none"> ■ When reassembling, make sure that the hook is securely fastened before tightening the screw.
	 <p style="text-align: right;">(R17572)</p>	

Step	Procedure	Points
3	Remove the 3 screws on the wire fixture.	
4	Remove the wire fixture and the insulation.	
		
(R19533)		
5	Remove the 7 screws of the terminal board and earth / ground wires.	
6	Detach the connecting wire and the power supply wire.	
		
(R18778)		
7	Release the holder and harness of the outdoor temperature thermistor.	
		
(R17717)		
8	Remove the 5 screws.	
9	Unfasten the 2 hooks and remove the rear panel.	
		
(R18246)		

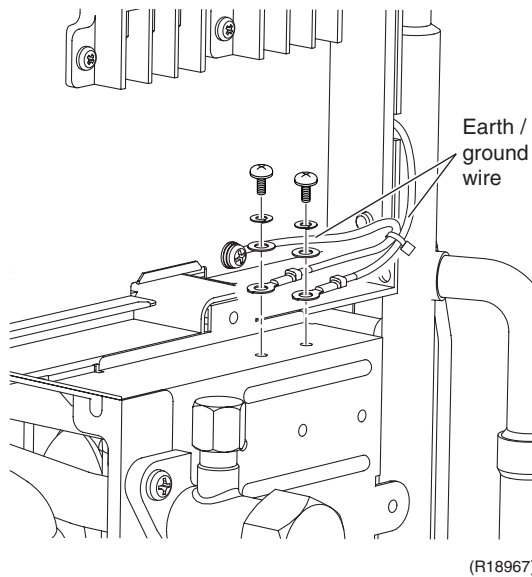
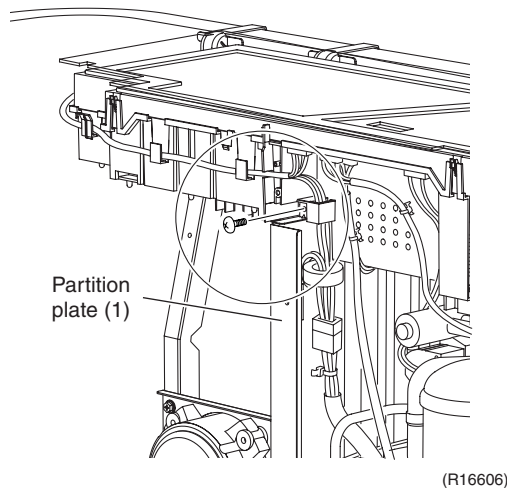
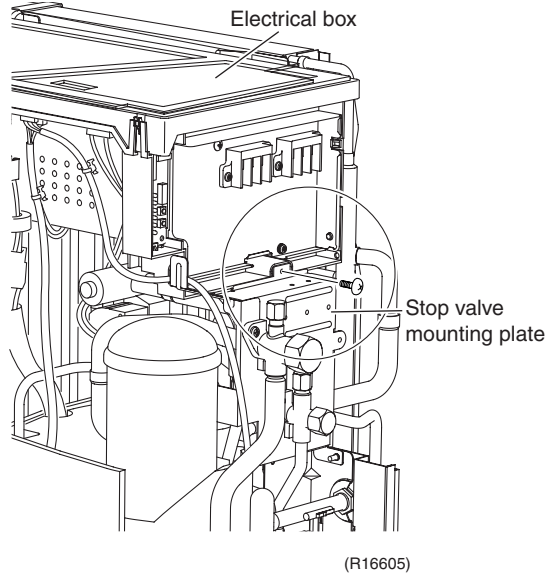
2. Electrical Box

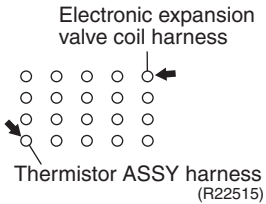


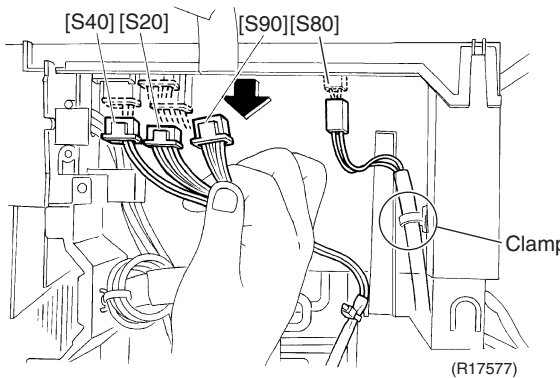
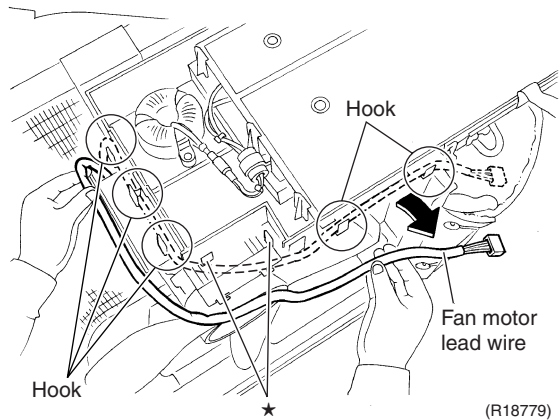
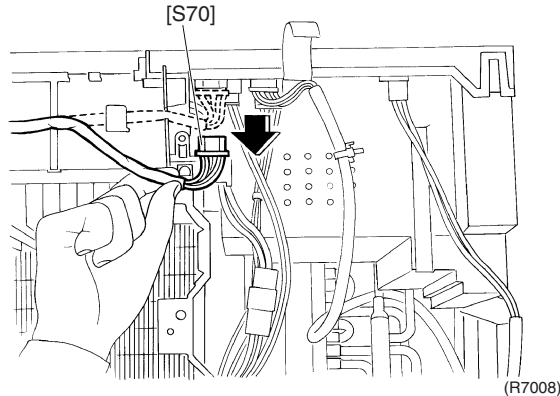
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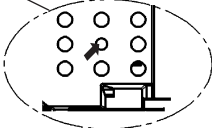
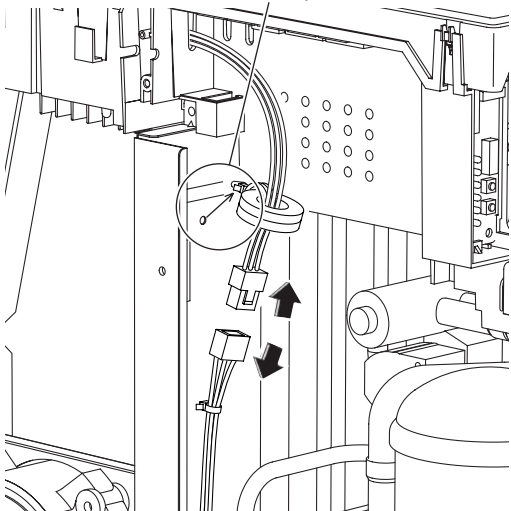
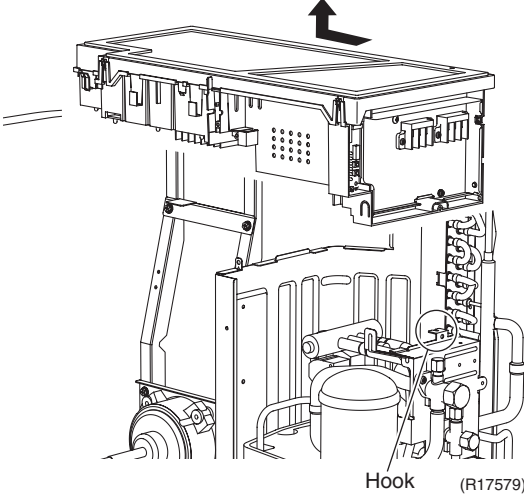
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1	Remove the screw on the stop valve mounting plate.	
2	Remove the screw on the partition plate (1).	
3	Remove the 2 screws to detach the earth / ground wires.	



Step	Procedure	Points
4	Disconnect the connector [S70].	[S70]: fan motor
5	Release the fan motor lead wire from the 5 hooks.	★: When reassembling, do not use these 2 hooks.
6	Disconnect the connectors of the front side.	<p>[S20]: electronic expansion valve coil [S40]: overload protector [S80]: four way valve coil [S90]: thermistors</p> <ul style="list-style-type: none"> ■ The cooling only models have no harness for [S80]. ■ When reassembling, insert each clamp into the hole as below. <div style="text-align: center;">  <p>Electronic expansion valve coil harness</p> <p>Thermistor ASSY harness (R22515)</p> </div>



Step	Procedure	Points
7	Release the thermistor harness from the hook at the bottom of electrical box.	<ul style="list-style-type: none"> ■ When reassembling, insert the clamp into the hole.
8	Pull out the clamp of the thermistor harness from the hole of the electrical box.	 <p>Fixing position for the thermistor harness</p>
9	Release the clamp.	(R19534)
10	Disconnect the relay connector for the compressor.	 <p>Clamp</p>
11	Unfasten the hook.	(R19535)
12	Remove the electrical box.	 <p>Hook (R17579)</p>

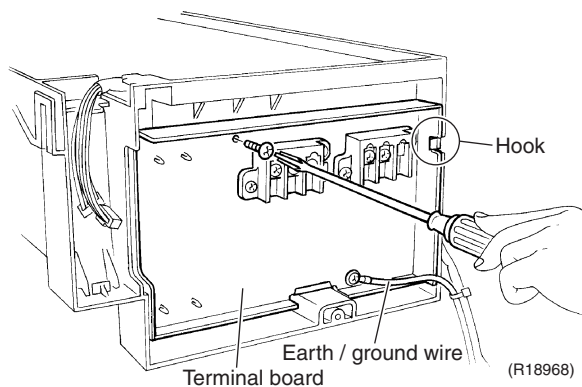
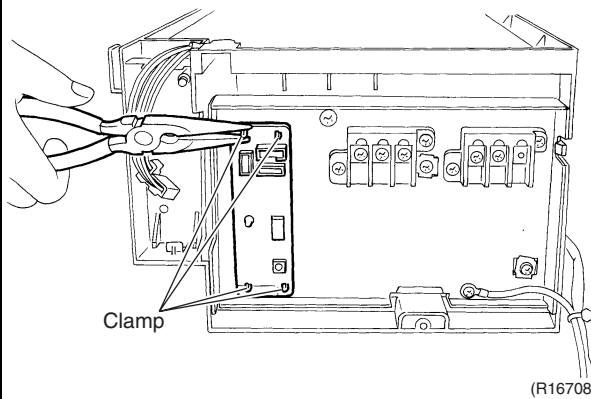
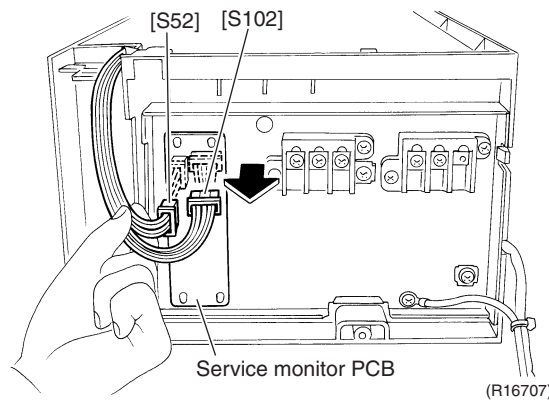
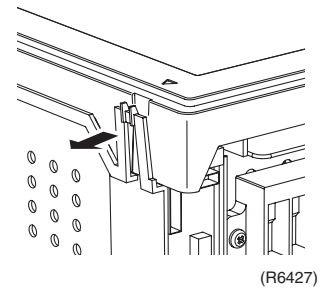
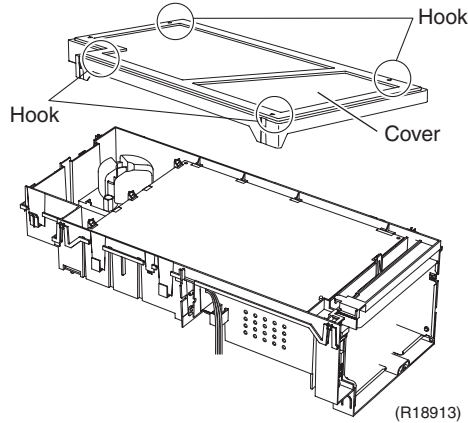
3. PCBs



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 cover of the electrical box.	<ul style="list-style-type: none"> ■ Release the 4 hooks. The hooks are indicated by ▼.
2	Disconnect the connectors [S52] [S102] from the service monitor PCB.	[S52], [S102]: to main PCB
3	Detach the 4 clamps with pliers and remove the service monitor PCB.	
4	Remove the screws of the terminal board and the earth / ground wire.	
5	Unfasten the hook on the right.	



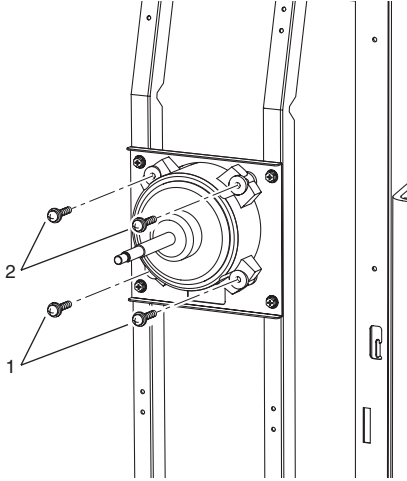
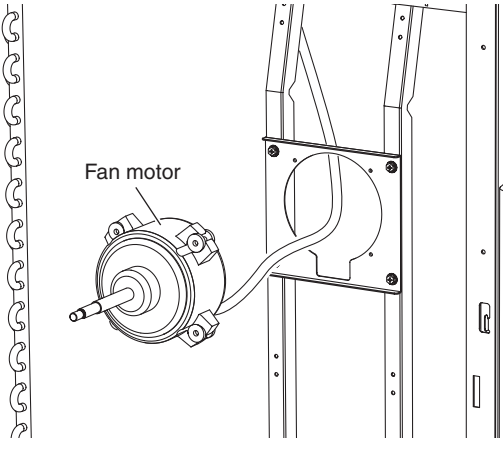
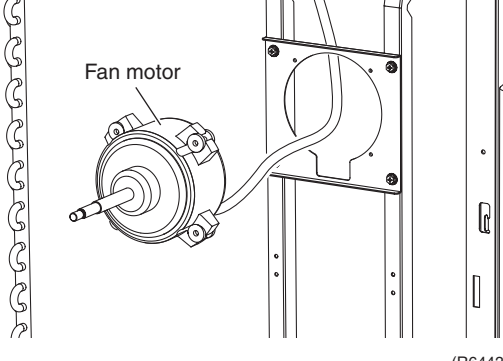
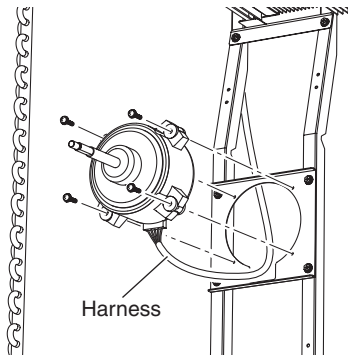
Step	Procedure	Points
6	Open the terminal board.	1: Black
7	Disconnect the harnesses.	2: White
8	Disconnect the 2 harnesses for the reactor [HR1] [HR2].	3: Red
9	Remove the 3 screws of the main PCB.	L1: Black
10	Release the 4 hooks.	L2: Brown
11	Lift up and remove the main PCB.	N1: White
		N2: Blue
		[HR1]: White
		[HR2]: Blue
		<ul style="list-style-type: none"> ■ The harness for [HR2] has a ferrite core.

4. Fan Motor



Warning

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

Step	Procedure	Procedure	Points
1	Remove the 2 lower screws first.		
2	Then, remove the 2 upper screws.		<ul style="list-style-type: none"> ■ Be sure to remove the lower screws first. If the top screws are removed first, the fan motor may tilt down or fall and cause injury because its center of gravity is shifted to the front.
3	Remove the fan motor.		<ul style="list-style-type: none"> ■ When reassembling, make sure that the wire harness is facing downward.
			

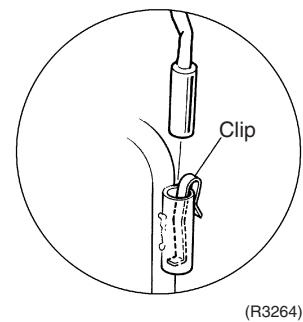
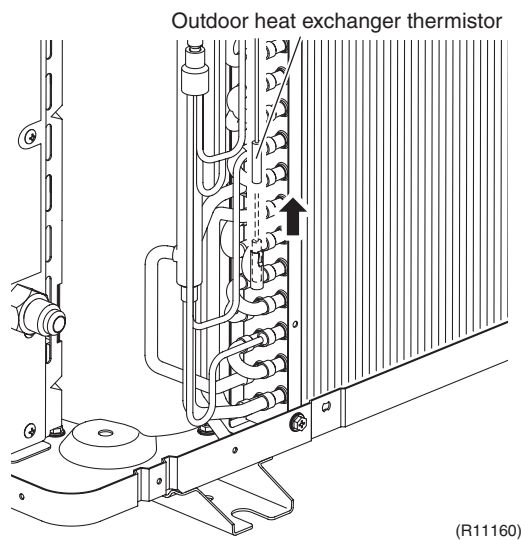
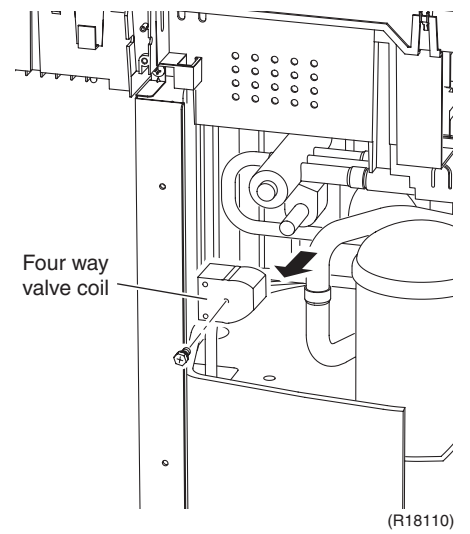
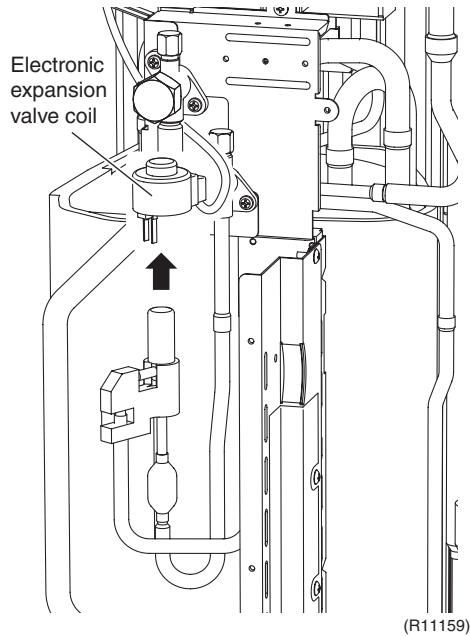
5. Coils / Thermistors



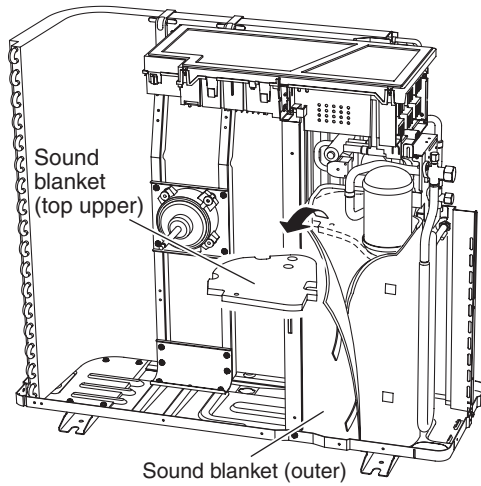
Warning

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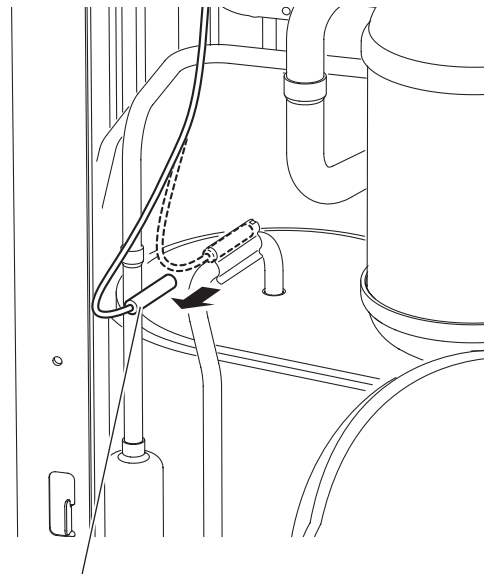
Step	Procedure	Points
1	Pull out the electronic expansion valve coil.	
2	Remove the screw and remove the four way valve coil.	<ul style="list-style-type: none"> ■ The cooling only models have no four way valve coil.
3	Pull out the outdoor heat exchanger thermistor.	<ul style="list-style-type: none"> ■ Be careful not to lose the clip for the thermistor.



Step	Procedure	Points
4	Slightly open the sound blanket (outer).	<ul style="list-style-type: none"> ■ The design of the sound blankets varies depending on the model.
5	Remove the sound blanket (top upper).	
6	Remove the discharge pipe thermistor.	<ul style="list-style-type: none"> ■ Be careful not to lose the fixture for the thermistor.

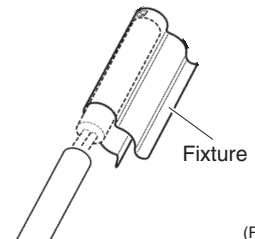


(R17582)



Discharge pipe thermistor

(R9469)



(R21395)

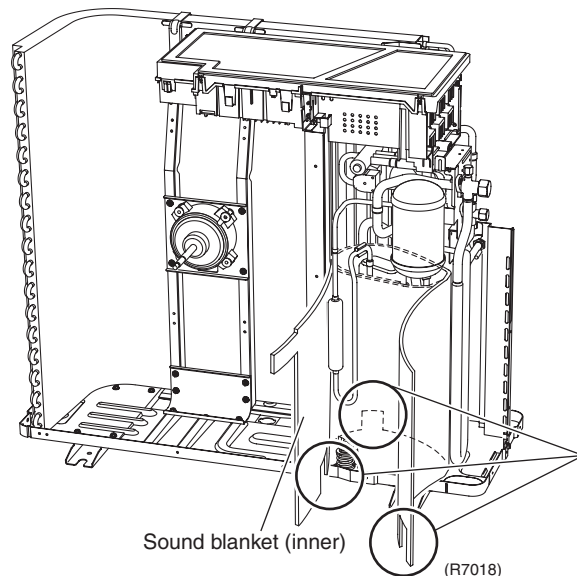
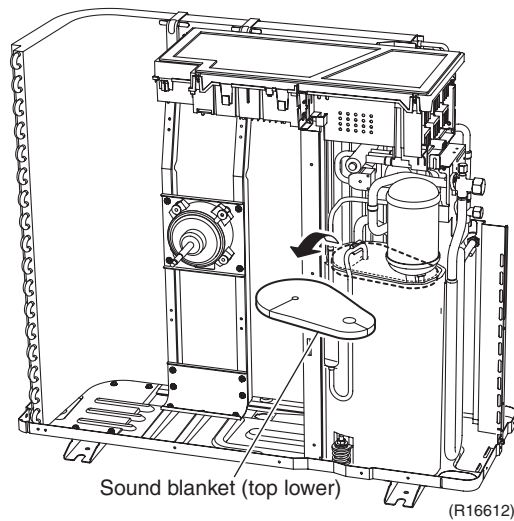
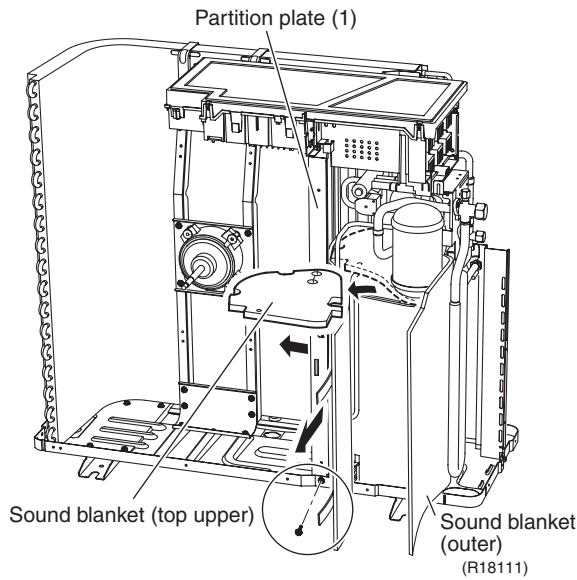
6. Sound Blankets



Warning

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

Step	Procedure	Points
1	Open the sound blanket (outer).	<ul style="list-style-type: none"> ■ The design of the sound blankets varies depending on the model.
2	Remove the sound blanket (top upper).	<ul style="list-style-type: none"> ■ The sound blanket is fragile. Carefully pass the discharge pipe through it.
3	Remove the screw and slightly push the partition plate (1) to the left for easy work.	<ul style="list-style-type: none"> ■ Since the piping ports are torn easily, remove the sound blanket carefully.
4	Remove the sound blanket (outer).	
5	Remove the sound blanket (top lower).	<ul style="list-style-type: none"> ■ Some models have no sound blanket (top lower).
6	Remove the sound blanket (inner).	<ul style="list-style-type: none"> ■ The sound blanket is fragile. Be careful of the notches of the compressor mount (3 locations).



7. Compressor



Warning

- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.
- ◆ Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.
- ◆ If the refrigerant gas leaks during work, ventilate the room. (If the refrigerant gas is exposed to flames, toxic gas may be generated.)
- ◆ Since it may happen that the refrigerant oil in the compressor catches fire, prepare wet cloth so as to extinguish fire immediately.



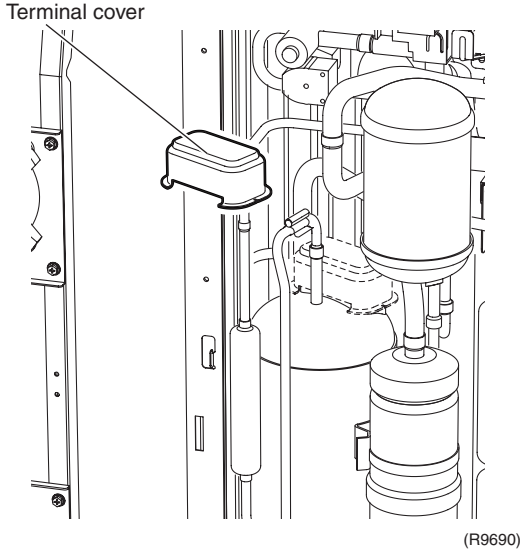
Caution

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

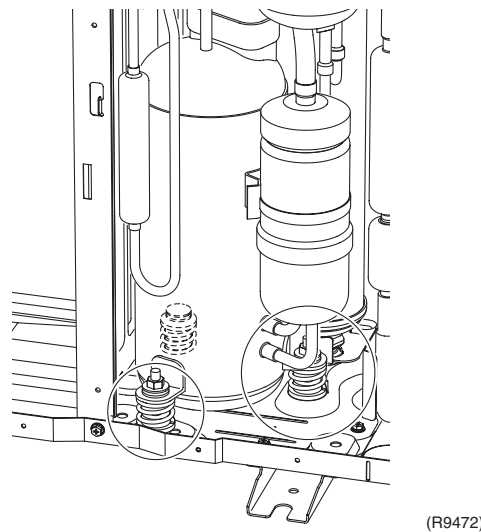
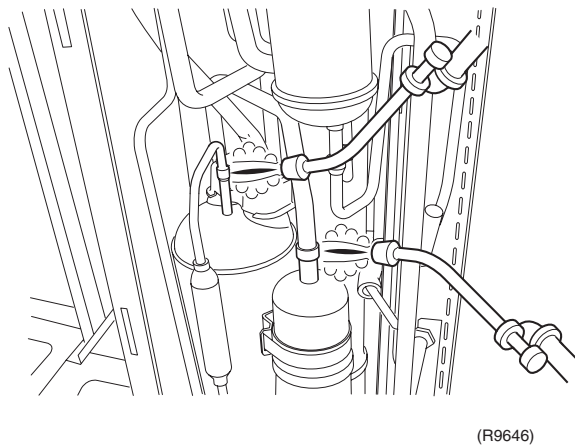
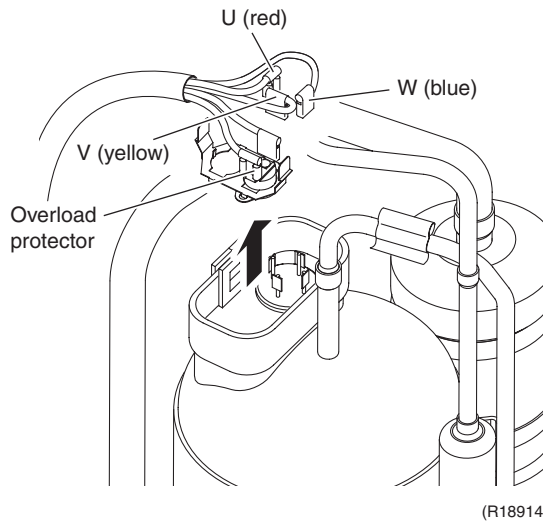


Note

- ◆ Before working, make sure that the refrigerant gas is empty in the circuit.
- ◆ Be sure to apply nitrogen replacement when heating up the brazed part.
- ◆ Do not use a metal saw for cutting pipes by all means because the sawdust comes into the circuit.
- ◆ When withdrawing the pipes, be careful not to pinch them firmly with pliers. The pipes may get deformed.
- ◆ Provide a protective sheet or a steel plate so that the brazing flame cannot influence peripheries.
- ◆ Be careful so as not to burn the compressor terminals, the name plate, the outdoor heat exchanger fin.
- ◆ In case of difficulty with gas brazing machine.
 1. Disconnect the brazed part where is easy to disconnect and restore.
 2. Cut pipes on the main unit with a tube cutter in order to make it easy to disconnect.

Step	Procedure	Points
1	Remove the terminal cover.	 <p style="text-align: right;">(R9690)</p>

Step	Procedure	Points
2	Pull out the compressor lead wires.	
3	Remove the overload protector.	
4	Heat up the brazed parts and withdraw the piping with pliers.	
5	Remove the 2 nuts.	
6	Remove the compressor.	



Revision History

Month / Year	Version	Revised contents
09 / 2012	Si001271	First edition
11 / 2012	Si001271_A	Model addition: RXS71FAV1B9, RX71GV1B9
04 / 2013	Si001271_B	Model addition: RKS24/28JV2S, RK(X)S60MVL, RKS71HVM, RKS71JVMG
11 / 2013	Si001271EC	Model addition: RKS71GVM4, RKS71GVMV, RXS71FAV1B8, RX71GV1B8
02 / 2014	Si001271ED	Model addition: RKS71GVMV
08 / 2015	Si001271EE	Model addition: RKM28NV2S, RKM71PVMG, RKV71NVM, RKV71NVM4, RKV71NVMV, RXM63NVLT, RXV71NVLT

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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