






Si011358EA

REMOVAL PROCEDURE



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

5.0/6.0 kW Class 18000 Btu/h Class

-  Outdoor Unit
-  Non-Inverter
-  Pair Type



Service Manual Removal Procedure

Outdoor Unit

●Cooling Only

ARM18MV2S

RM18NV2S

RM50JV14

RM50KV1V

RN50JV1G

RNE60LV1

RNE60MV1

RNE60MV14

RNE60MV1V

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

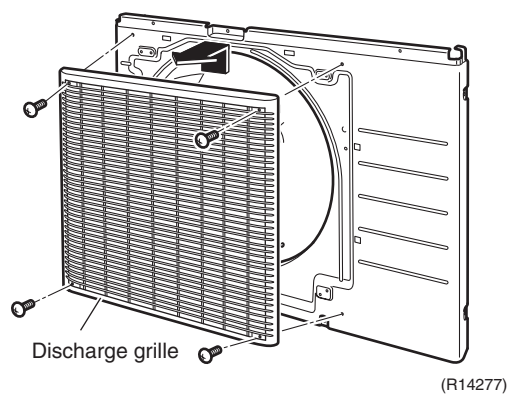
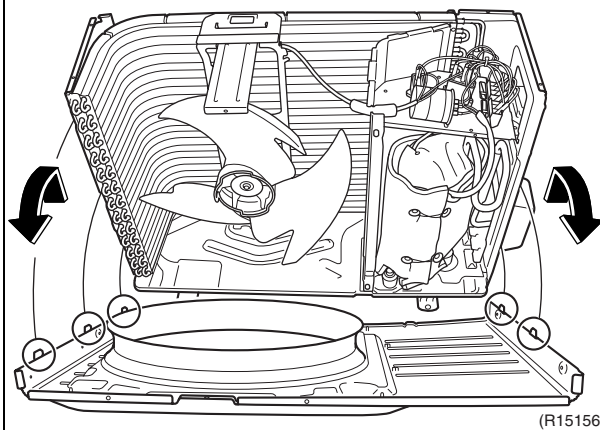
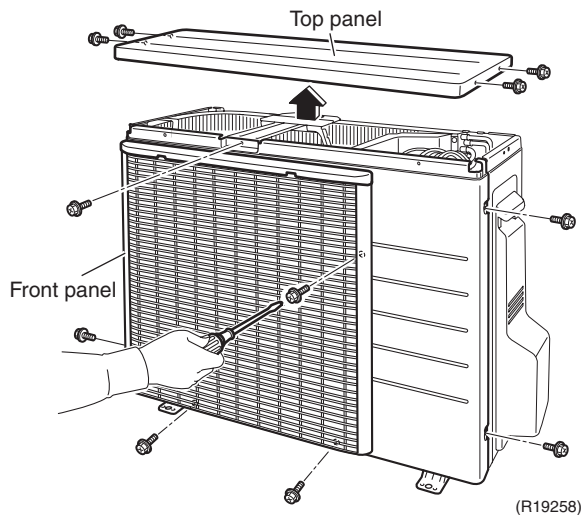
1. Outer Panels



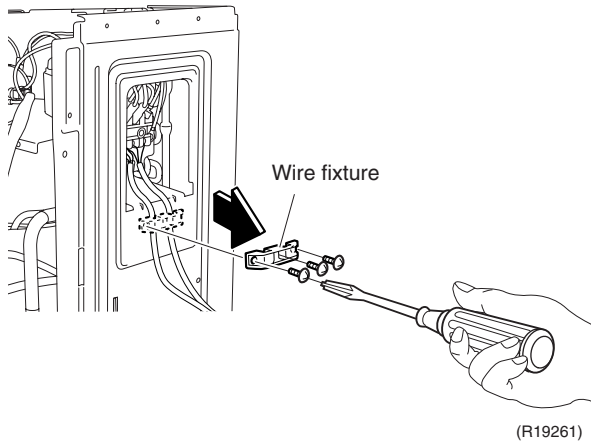
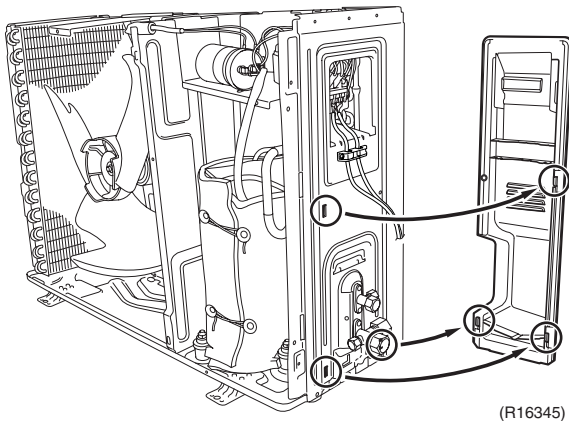
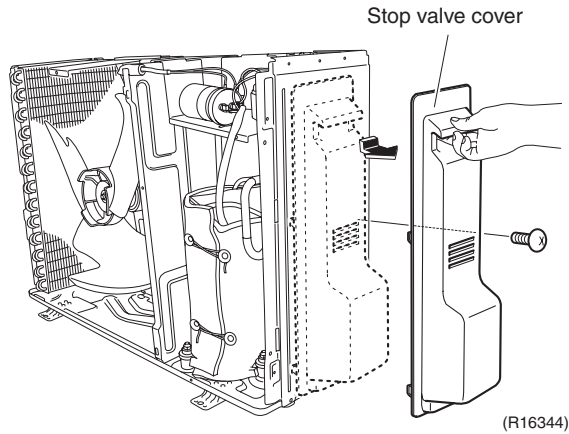
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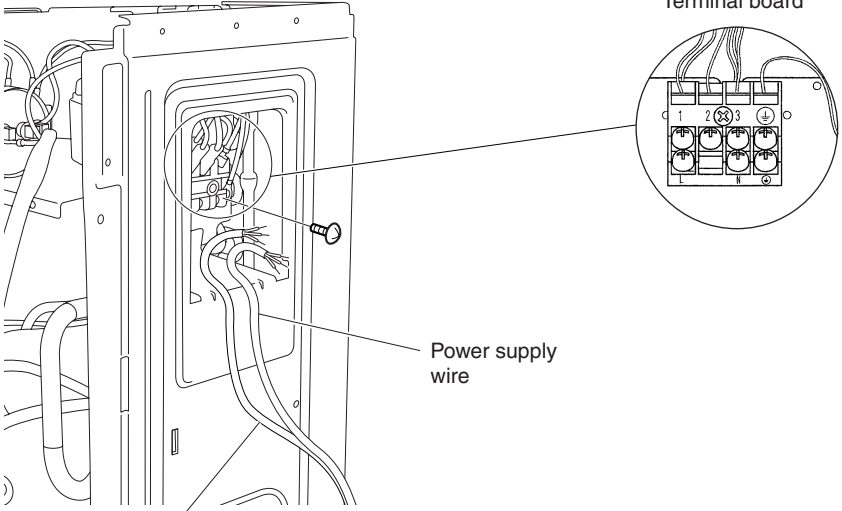
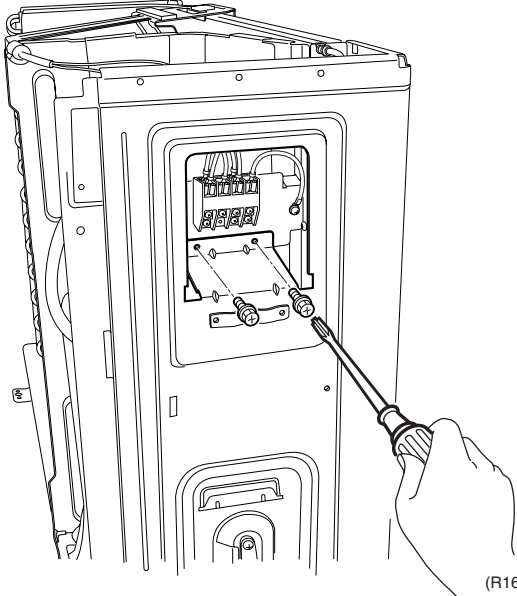
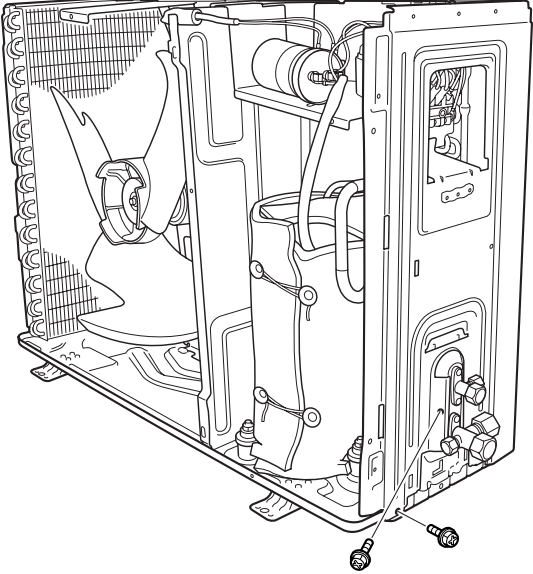
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

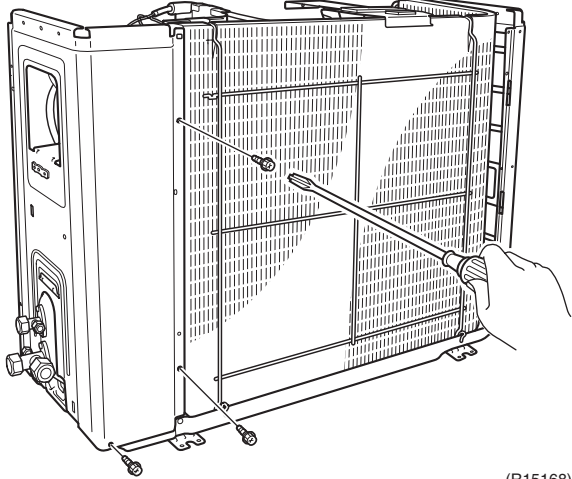
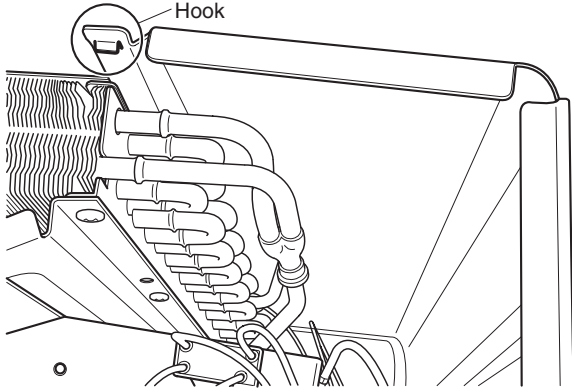
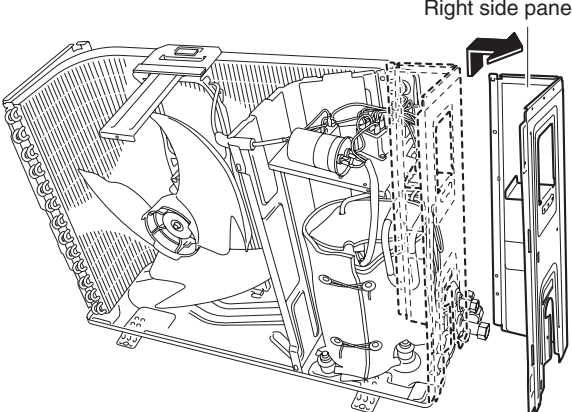
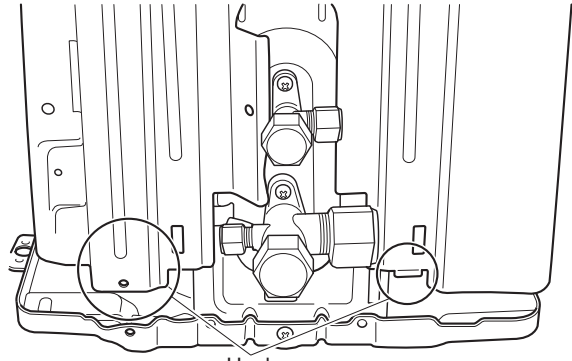
Step	Procedure	Points
1	Remove the 4 screws and remove the top panel.	
2	Remove the 7 screws of the front panel.	
3	Lift the front panel and unfasten the 3 hooks of the left side and 2 hooks of the right side.	
4	Remove the 4 screws and remove the discharge grille.	



Step	Procedure	Points
5	Remove the screw and remove the stop valve cover.	<ul style="list-style-type: none"> ■ The stop valve cover has 3 hooks.
6	Remove the 3 screws and remove the wire fixture.	



Step	Procedure	Points
7	<p>Remove the 7 screws on the terminal board and disconnect the connecting wire and the power supply wire.</p>  <p>Terminal board</p> <p>Power supply wire</p> <p>Connecting wire</p>	
8	<p>Remove the 2 screws on the right side (upper).</p> 	(R19262)
9	<p>Remove the 2 screws on the right side (lower).</p> 	(R16346)
		(R15167)

Step	Procedure	Points
10	Remove the 3 screws on the rear side.	 <p>(R15168)</p>
11	Unfasten the hook.	 <p>Hook</p> <p>(R20779)</p>
12	Remove the right side panel.	 <p>Right side panel</p> <p>(R16347)</p>  <p>Hook</p> <p>(R20780)</p> <ul style="list-style-type: none"> ■ The right side panel has 2 hooks at the bottom. When reassembling, make sure to fit the 2 hooks.

2. Outdoor Fan / Fan Motor

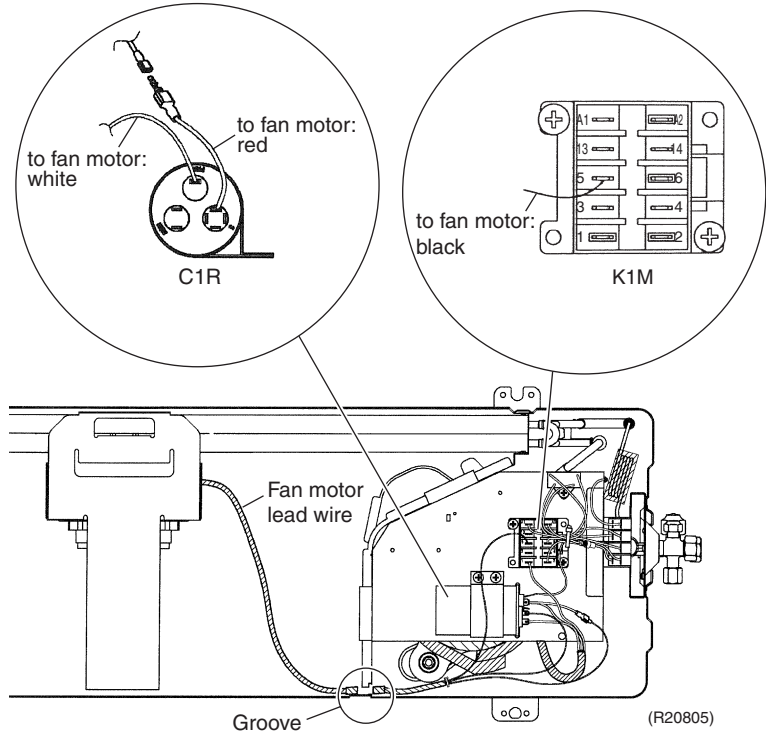


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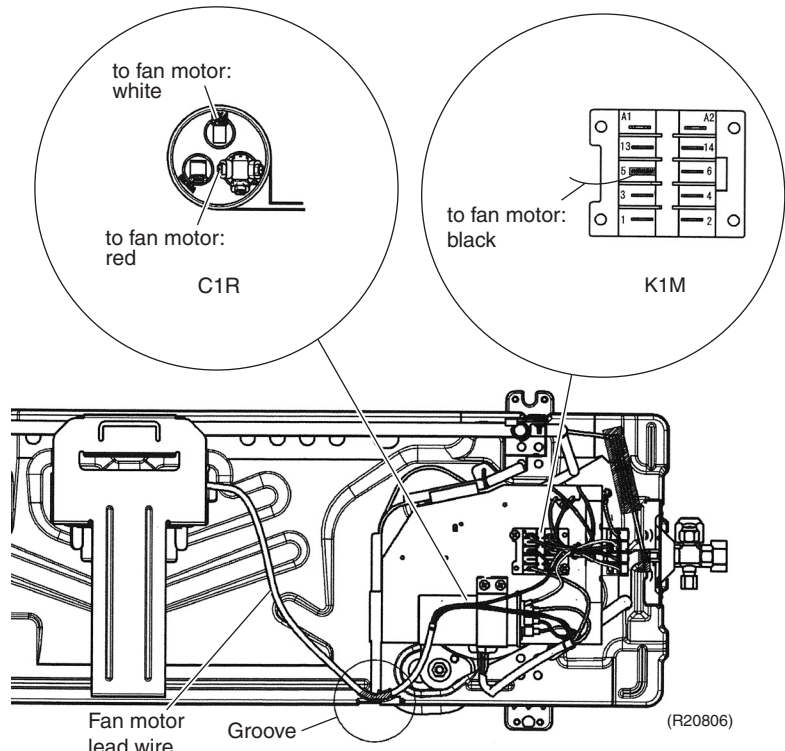
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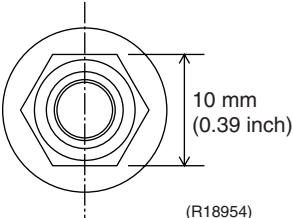
Step	Procedure	Points
1	Pull out the 2 terminals (red, white) from the compressor capacitor (C1R).	<ul style="list-style-type: none"> ■ The wiring pattern is slightly different depending on the model. Please make note of the wiring pattern before removing.
2	Pull out the terminal (5) from the magnetic contactor (K1M).	
3	Release the fan motor lead wire from the groove.	

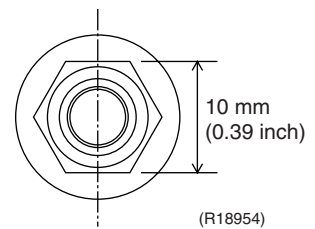
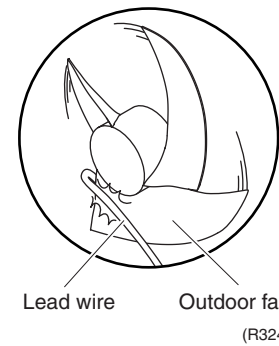
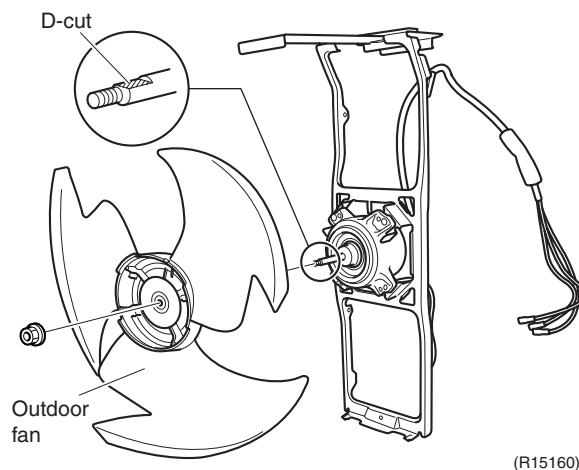
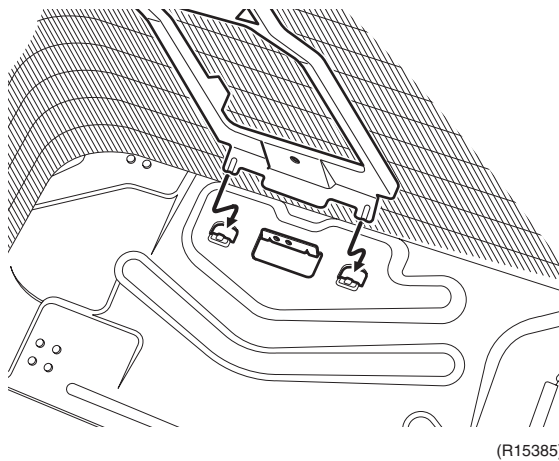
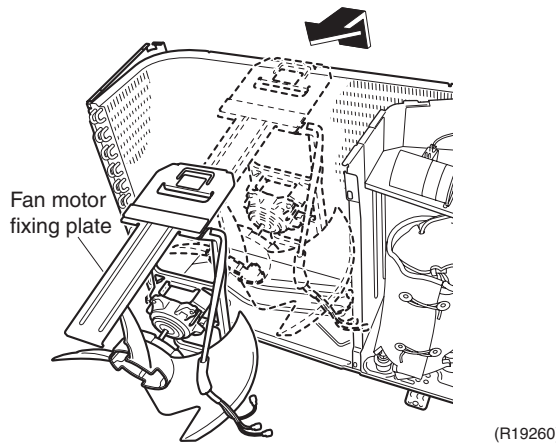
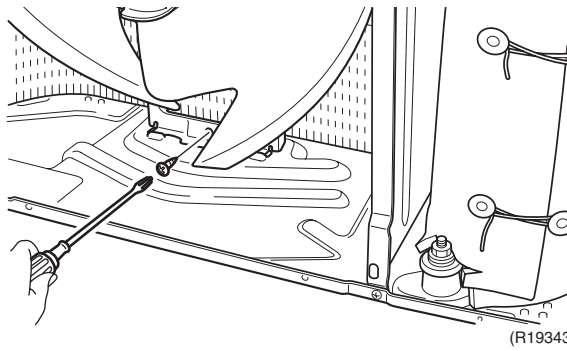
Pattern 1: ARM, RM, RN series

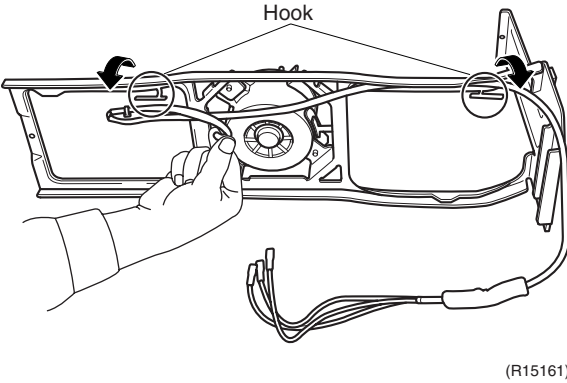
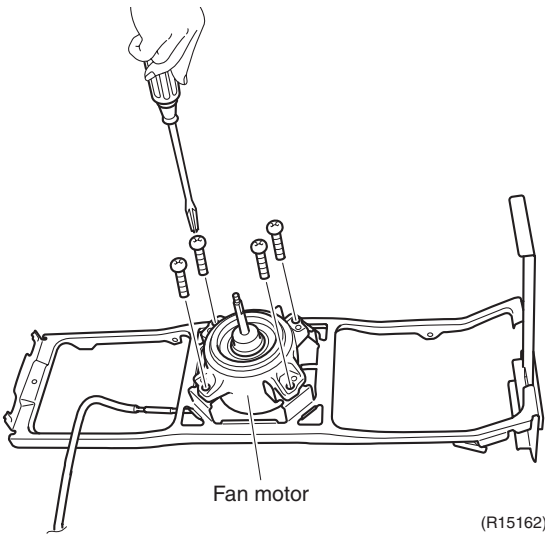


Pattern 2: RNE series



Step	Procedure	Points
4	Remove the screw of the fan motor fixing plate.	
5	Remove the fan motor fixing plate.	<ul style="list-style-type: none"> Put the fan motor lead wire through the back of the fan motor when reassembling so as not to be entangled with the outdoor fan.
6	Remove the nut and remove the outdoor fan.	<ul style="list-style-type: none"> Nut size: M6  <ul style="list-style-type: none"> Align the ▼ mark of the outdoor fan with the D-cut section of the motor shaft when reassembling.



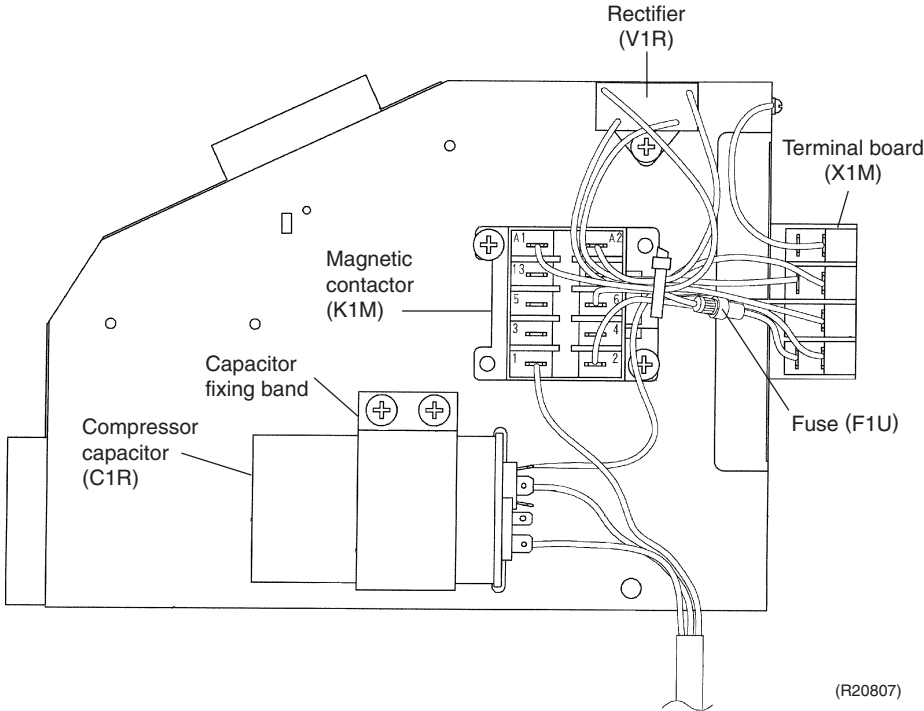
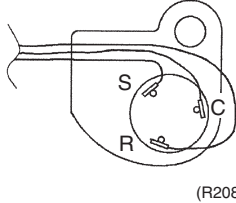
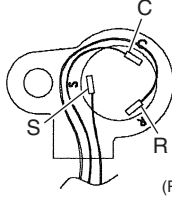
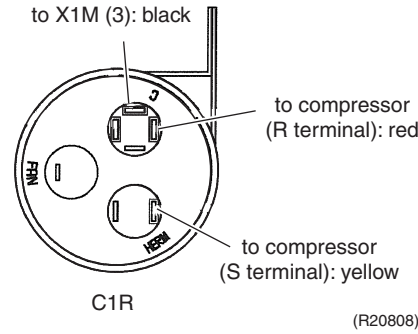
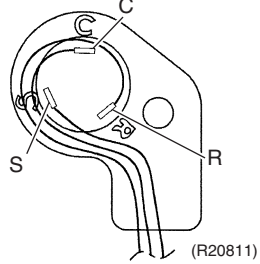
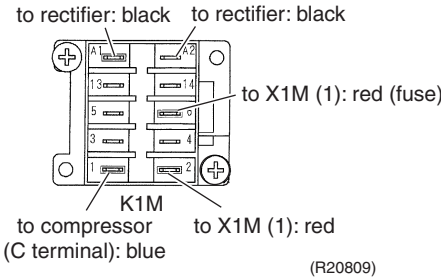
Step	Procedure	Points
7	Unfasten the 2 hooks and release the fan motor lead wire.	
	 <p style="text-align: center;">Hook</p> <p style="text-align: right;">(R15161)</p>	
8	Remove the 4 screws and remove the fan motor.	
	 <p style="text-align: center;">Fan motor</p> <p style="text-align: right;">(R15162)</p>	

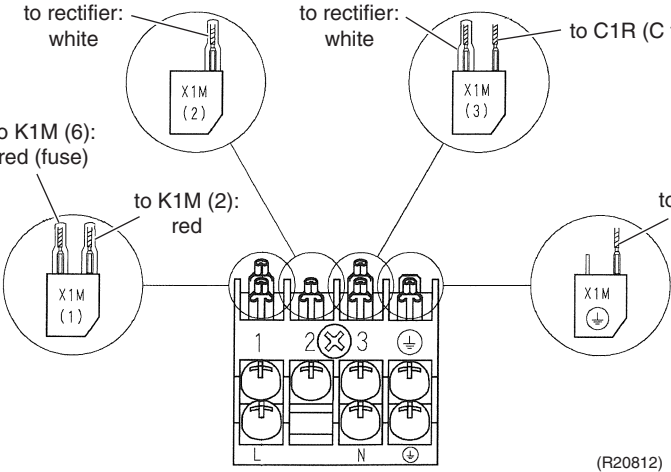
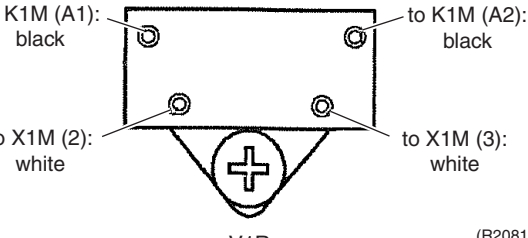
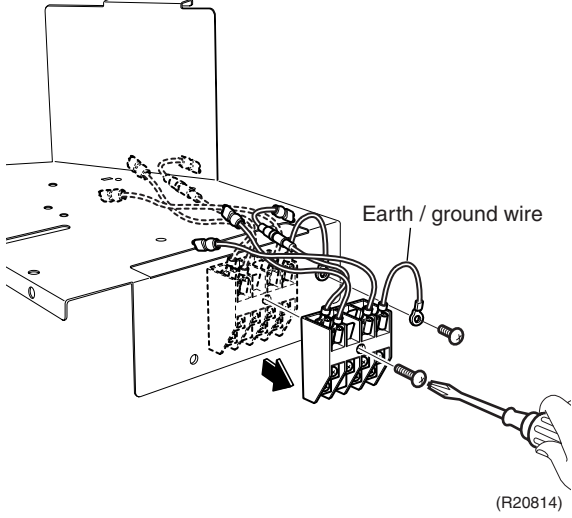
3. Electrical Components



Warning

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

Step	Procedure	Points
1	Open the fuse cover and remove the fuse (F1U).	 <p style="text-align: right;">(R20807)</p>
2	Pull out the remaining terminal from the compressor capacitor (C1R).	<p>■ Compressor lead wire RN series</p>
3	Remove the 2 screws (M4×8) and remove the capacitor fixing band.	 <p style="text-align: right;">(R20893)</p>
4	Remove the compressor capacitor (C1R).	<p>ARM, RM series</p>
5	Pull out the remaining terminals from the magnetic contactor (K1M).	 <p style="text-align: right;">(R20810)</p>
6	Remove the 2 screws (M4×16) and remove the magnetic contactor (K1M).	<p>RNE series</p>
	 <p style="text-align: right;">(R20808)</p>	 <p style="text-align: right;">(R20811)</p>
	 <p style="text-align: right;">(R20809)</p>	<p>S: yellow C: blue R: red</p>

Step	Procedure	Points
7	<p>Pull out the terminals from the terminal board (X1M).</p>  <p style="text-align: center;">X1M</p> <p style="text-align: right;">(R20812)</p>	
8	<p>Pull out the terminals from the rectifier (V1R).</p>  <p style="text-align: center;">V1R</p> <p style="text-align: right;">(R20813)</p>	
9	<p>Remove the screw (M4x12) and remove the rectifier (V1R).</p>	
10	<p>Remove the screw of the earth / ground wire.</p>	
11	<p>Remove the screw (M4x30) and remove the terminal board.</p>  <p style="text-align: right;">(R20814)</p>	

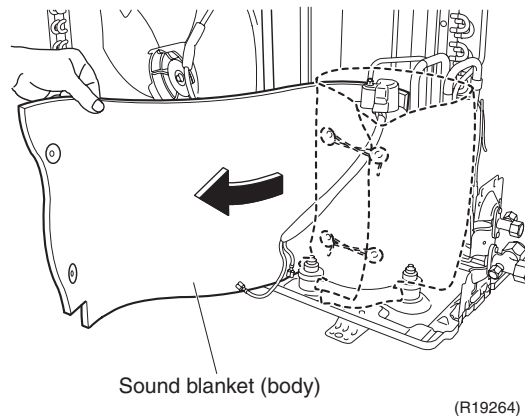
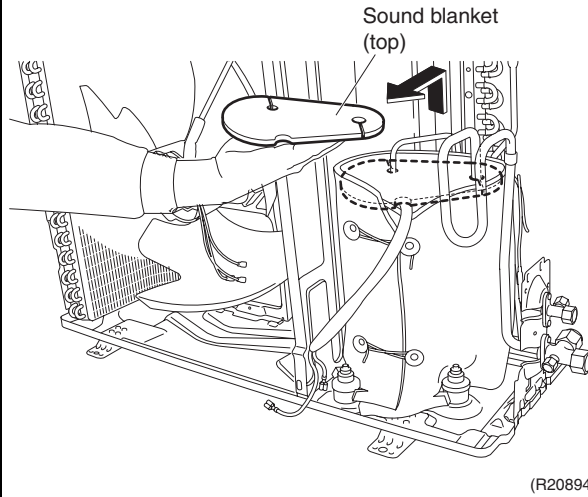
4. Sound Blankets



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 (top).	<ul style="list-style-type: none"> ■ The design of the sound blankets varies depending on the model. ■ Some models have no sound blanket (top).
2	Remove the sound blanket (body).	<ul style="list-style-type: none"> ■ Since the piping ports on the sound blanket are torn easily, remove the sound blanket carefully.



5. Capillary Tube



Warning

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



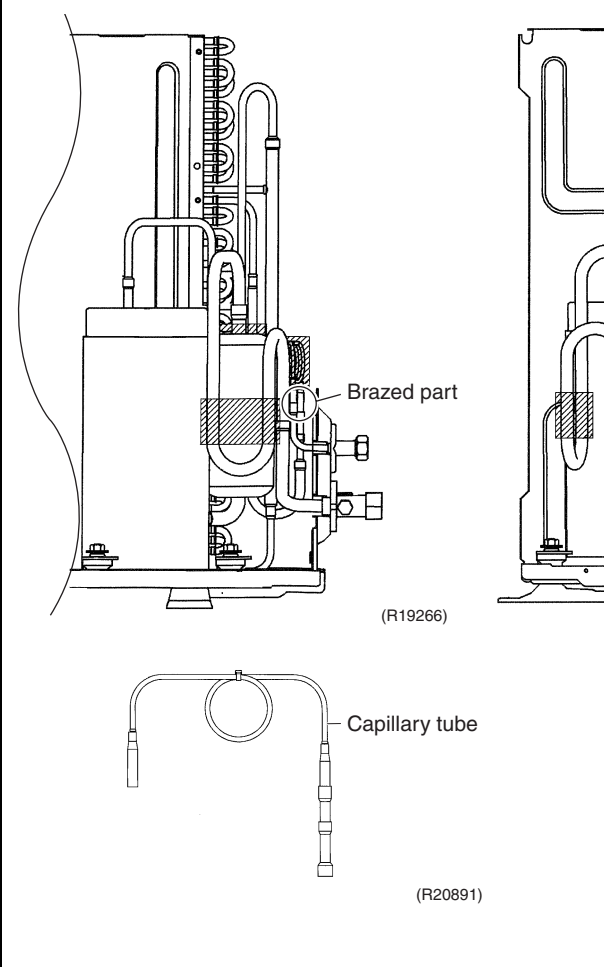
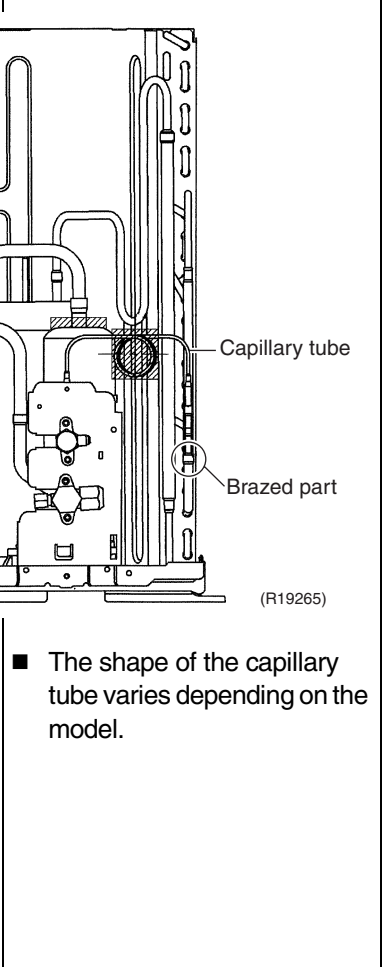
Caution

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



Note

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

Step	Procedure	Points
<p>1 Remove the putty. Heat up the 2 brazed parts and remove the capillary tube.</p>	 <p style="text-align: right;">(R19266)</p> <p style="text-align: right;">(R20891)</p>	 <p style="text-align: right;">(R19265)</p> <ul style="list-style-type: none"> ■ The shape of the capillary tube varies depending on the model.

6. Compressor ASSY



Warning

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



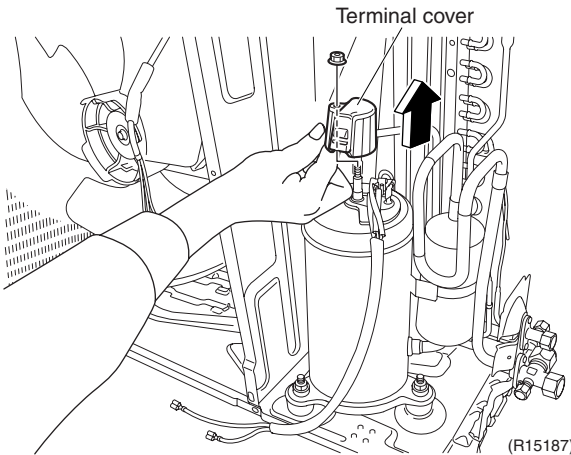
Caution

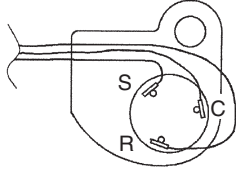
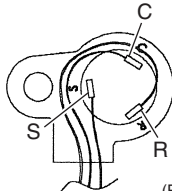
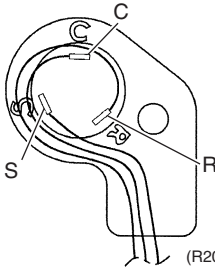
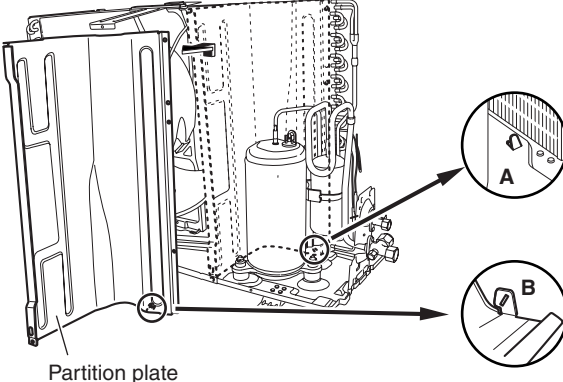
- ◆ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ◆ Restore the piping by non-oxidation brazing.

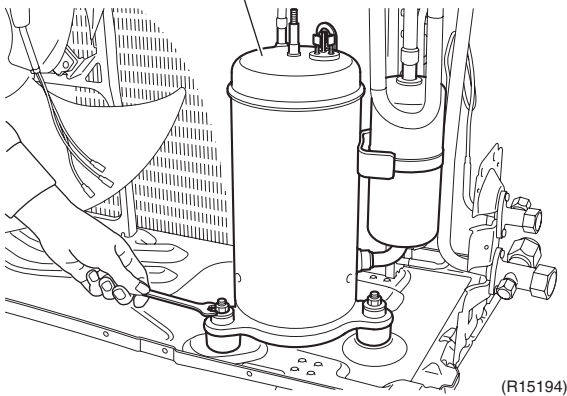
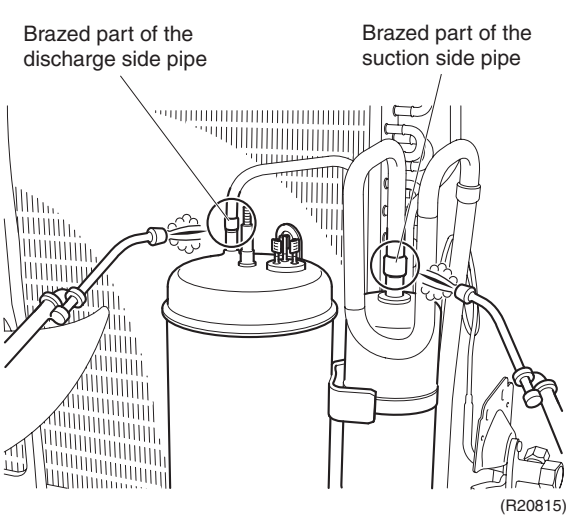
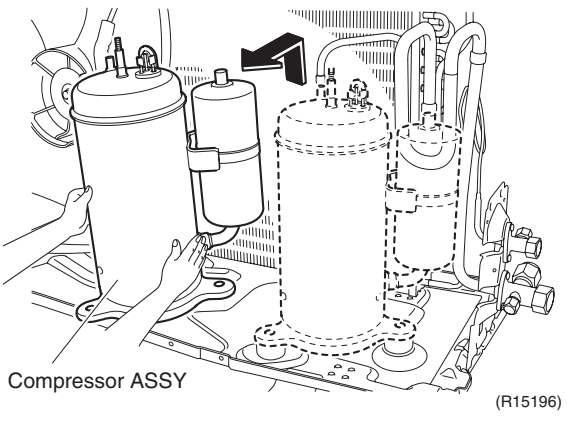


Note

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

Step	Procedure	Points
1	Remove the nut and remove the terminal cover. 	<ul style="list-style-type: none"> ■ The shape of the terminal cover varies depending on the model.

Step	Procedure	Points
2	Disconnect the compressor lead wires.	<p>RN series</p>  <p>(R20893)</p>
3	Remove the gasket.	<p>ARM, RM series</p>  <p>(R20810)</p>
4	Remove the 3 screws of the partition plate.	<p>RNE series</p>  <p>(R20811)</p>
5	Remove the partition plate.	<p>S: yellow C: blue R: red</p>
	 <p>Partition plate</p> <p>(R15188)</p> <p>(R15189)</p> <p>(R19344)</p> <p>(R15191)</p>	<p>■ When reassembling, insert A into B.</p>

Step	Procedure	Points
6	Remove the 3 nuts of the compressor.	
	 <p>Compressor</p> <p>(R15194)</p>	
7	Heat up the brazed part of the discharge side pipe and disconnect it.	
8	Heat up the brazed part of the suction side pipe and disconnect it.	
	 <p>Brazed part of the discharge side pipe</p> <p>Brazed part of the suction side pipe</p> <p>(R20815)</p>	
9	Lift up the compressor ASSY and remove it.	
	 <p>Compressor ASSY</p> <p>(R15196)</p>	

Revision History

Month / Year	Version	Revised contents
08 / 2013	Si011358E	First edition
09 / 2014	Si011358EA	Model addition: ARM18MV2S, RM18NV2S, RM50JV14, RM50KV1V, RNE60LV1, RNE60MV1, RNE60MV14, RNE60MV1V

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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