




REMOVAL PROCEDURE



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

5.0/6.0 kW Class

-  Outdoor Unit
-  Non-Inverter
-  Pair Type



Service Manual Removal Procedure

Outdoor Unit

●Cooling Only

**RE50NRV16
RE60NRV16**

**REL50NRV16
REL60NRV16**

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

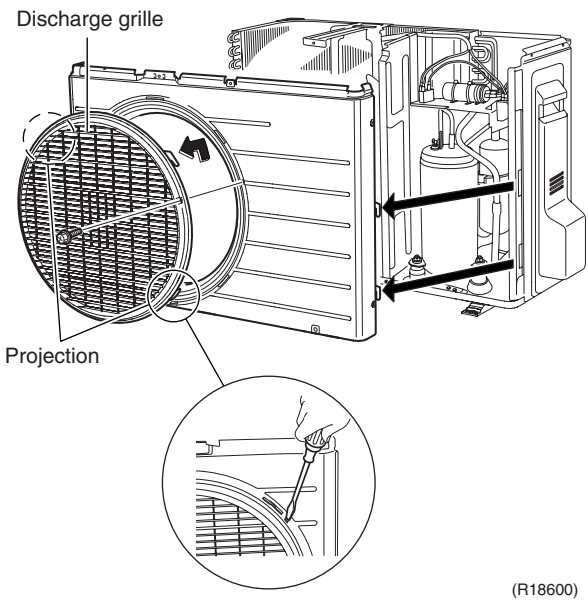
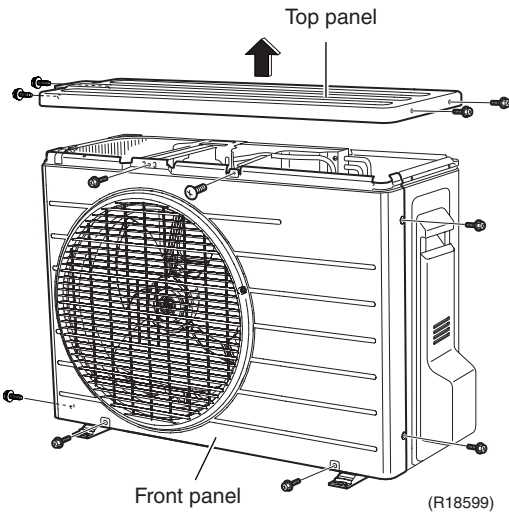
1. Outer Panels



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 4 screws and remove the top panel.	
2	Remove the 7 screws of the front panel.	
3	Unfasten the 2 hooks of the right side and remove the front panel.	
4	Remove the screw on the discharge grille.	
5	The discharge grille has 2 projections to prevent its rotation. Press the projection from the rear side and rotate the discharge grille to remove it.	

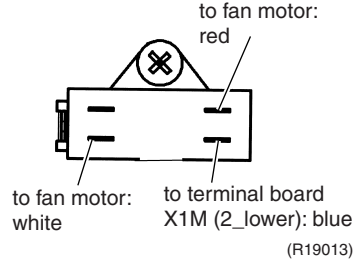
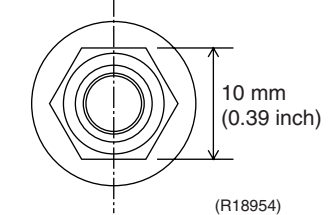
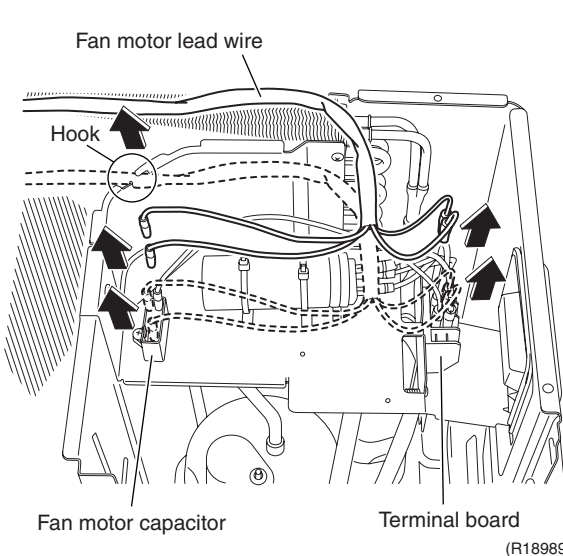
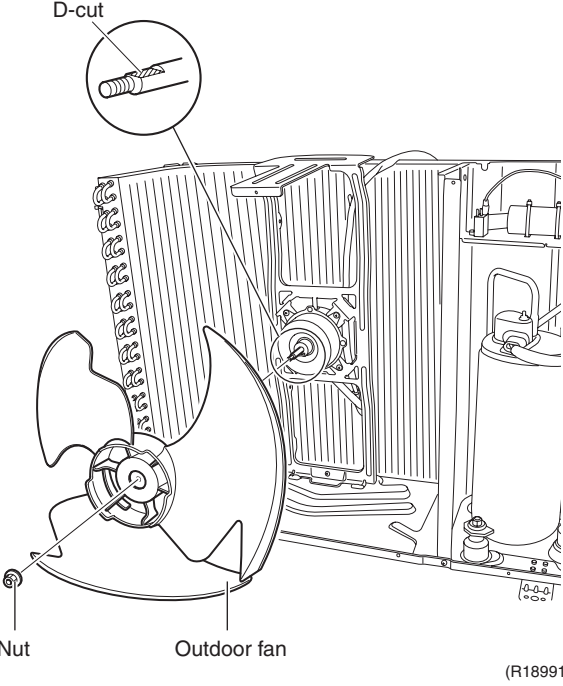


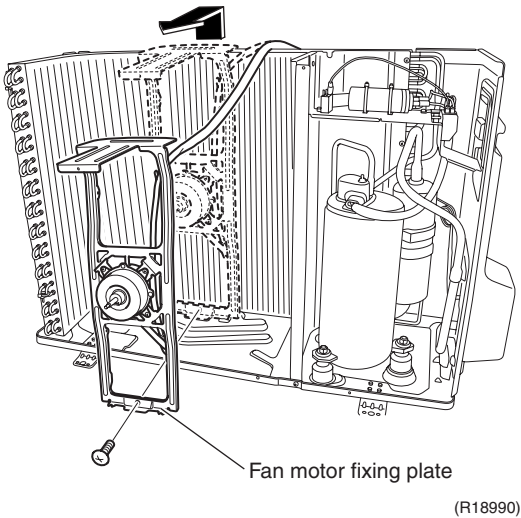
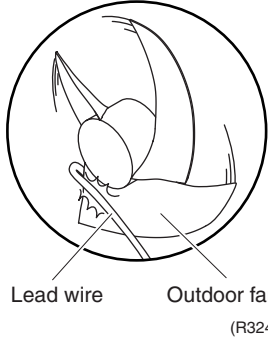
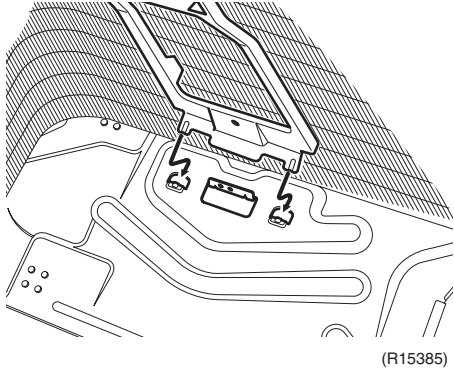
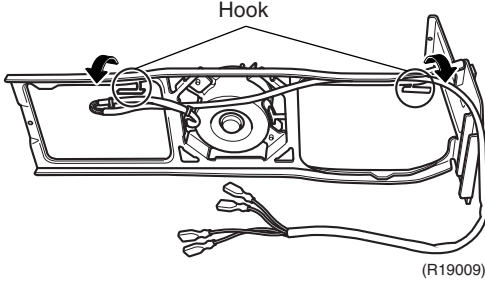
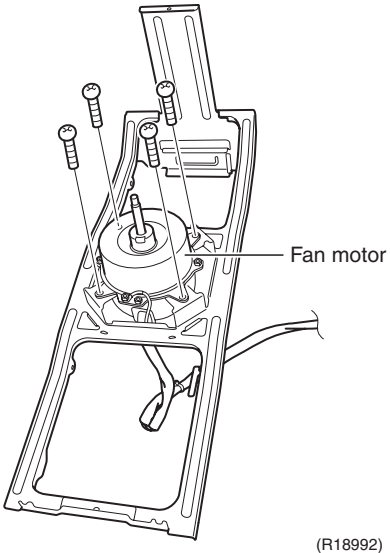
2. Outdoor Fan / Fan Motor



Warning

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

Step	Procedure	Points
1	Pull out the 2 terminals (red, white) from the fan motor capacitor (C2).	<ul style="list-style-type: none"> ■ Fan motor capacitor (C2)
2	Pull out the 2 terminals (black: 3_upper, green / yellow: \pm _upper) from the terminal board (X1M).	
3	Release the fan motor lead wire from the hook.	
4	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
5	Remove the screw and remove the fan motor fixing plate.	<ul style="list-style-type: none"> ■ Be careful so as not to damage the top part of the outdoor heat exchanger fins. ■ 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.
		
6	Unfasten the 2 hooks and release the fan motor lead wire.	<ul style="list-style-type: none"> ■ When reassembling, fit the lower hooks into the bottom frame.
		
7	Remove the 4 screws and remove the fan motor.	<ul style="list-style-type: none"> ■ Screw size: M4 x 16
	 	

3. Electrical Components

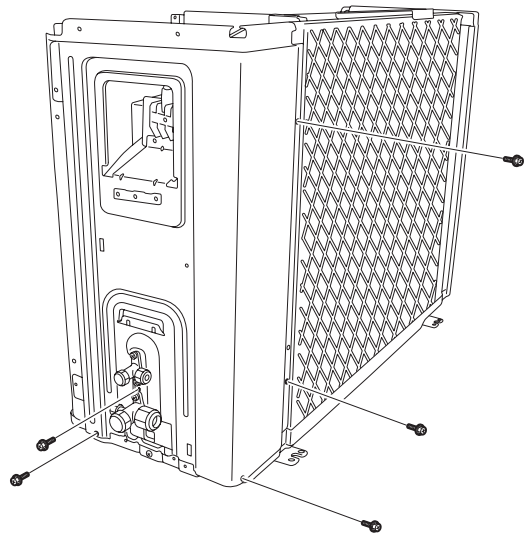


Warning

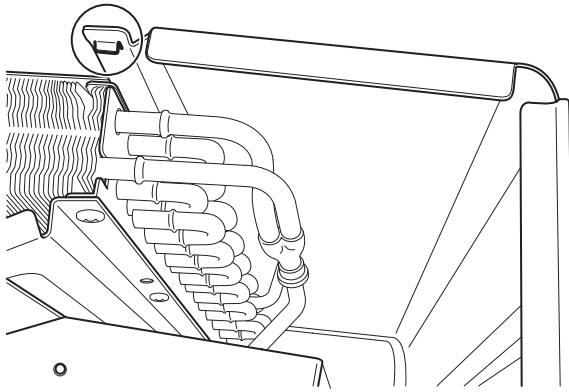
- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Remove the right side panel.	<p>Stop valve cover</p> <p>(R18993)</p>	<ul style="list-style-type: none"> ■ The stop valve cover has 3 hooks.
1 Remove the screw and remove the stop valve cover. 2 Remove the 3 screws and remove the wire fixture. 3 Remove the 7 screws on the terminal board and disconnect the connecting wire and the power supply wire.	<p>Wire fixture</p> <p>Connecting wire</p> <p>Power supply wire</p> <p>(R18994)</p>	
4 Remove the 2 screws on the right side (upper).	<p>(R19010)</p>	

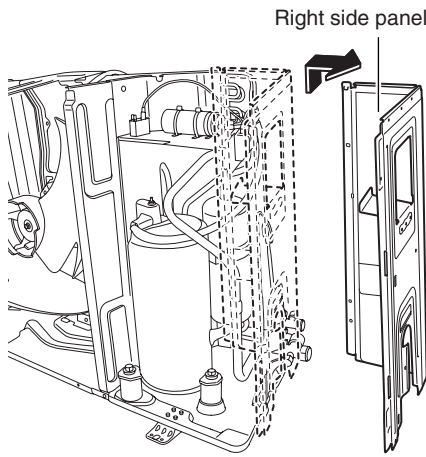
Step	Procedure	Points
5	Remove the 2 screws on the right side (lower).	
6	Remove the 3 screws on the rear side.	
7	Unfasten the hook.	
8	Remove the right side panel.	



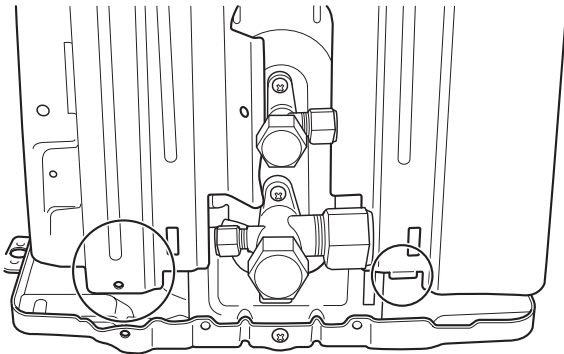
(R18995)



(R18998)

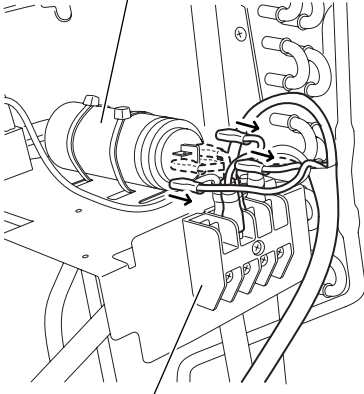
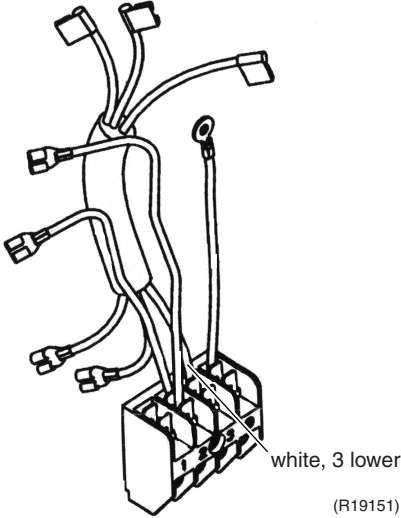
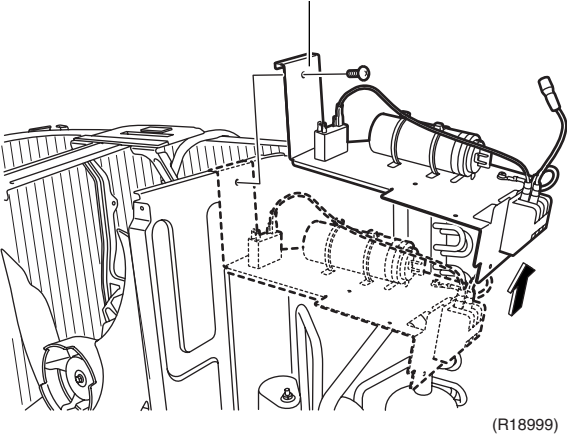
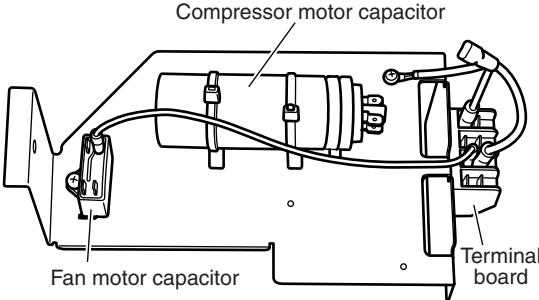
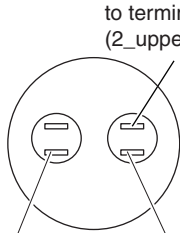


(R18996)



(R15171)

■ The right side panel has 2 hooks at the bottom.

Step	Procedure	Points
<p>2. Remove the electrical component ASSY.</p>	<p>Compressor motor capacitor</p>  <p>Terminal board (R18997)</p> <p>2</p> <p>Pull out the terminal (white: 3_lower) from the terminal board (X1M).</p>  <p>white, 3 lower (R19151)</p> <p>3</p> <p>Remove the screw and remove the electrical component ASSY.</p>  <p>Electrical component ASSY (R18999)</p>  <p>Compressor motor capacitor</p> <p>Fan motor capacitor</p> <p>Terminal board (R19000)</p>	<p>■ Compressor motor capacitor (C1)</p>  <p>to terminal board (2_upper): blue</p> <p>to compressor (S): red</p> <p>to compressor (R): blue</p> <p>(R19011)</p>

4. 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.)



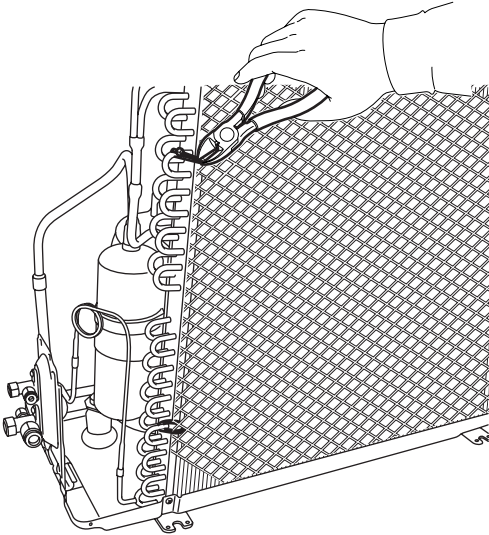
Caution

- ◆ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ◆ **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.

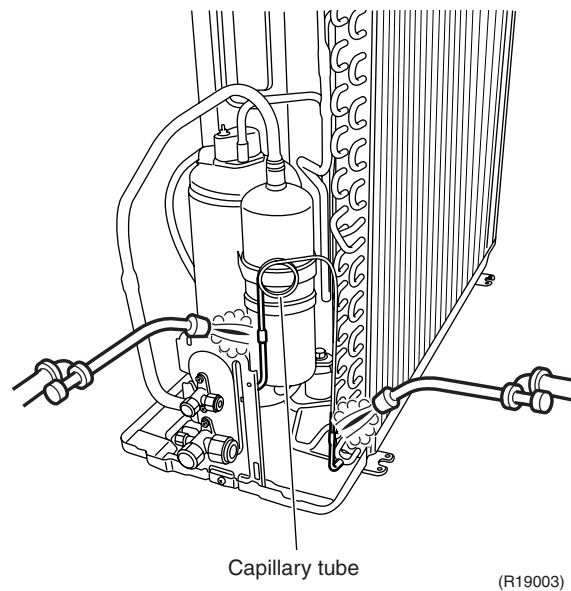
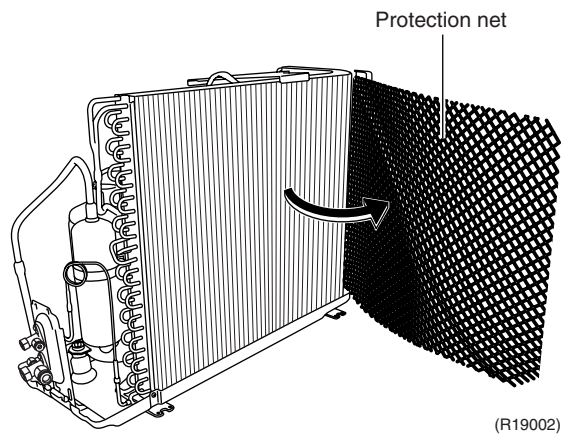


Note

- ◆ 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>Cut the 2 clamps.</p>  <p style="text-align: right;">(R19001)</p>	

Step	Procedure	Points
2	Remove the protection net.	
3	Heat up the 2 brazed parts and remove the capillary tube.	<ul style="list-style-type: none"> ■ The design of capillary tube varies depending on the model.



5. 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.



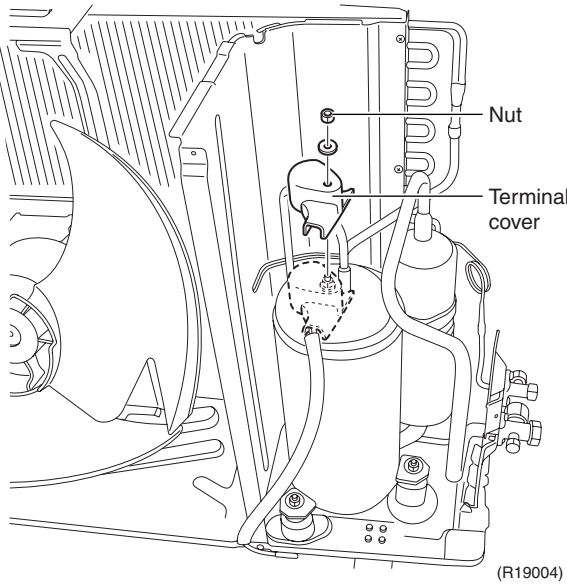
Caution

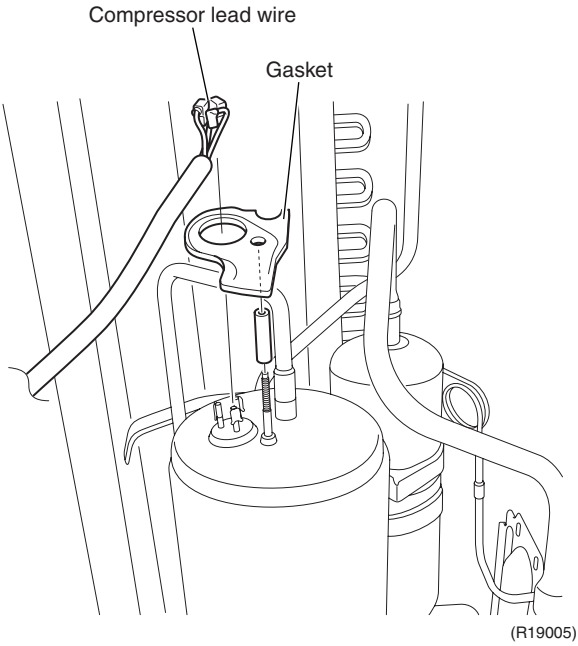
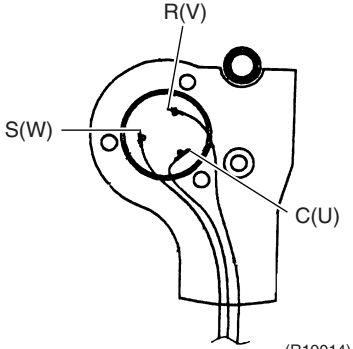
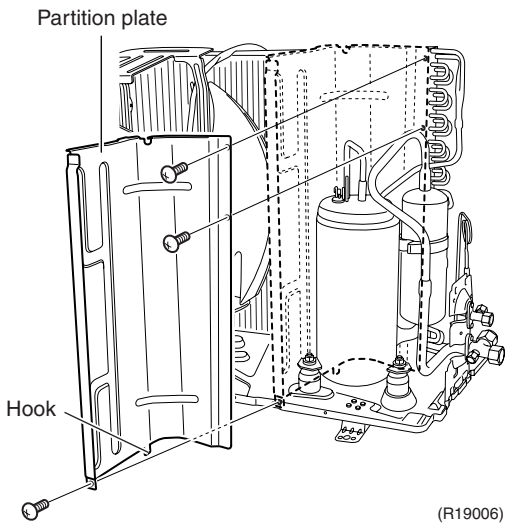
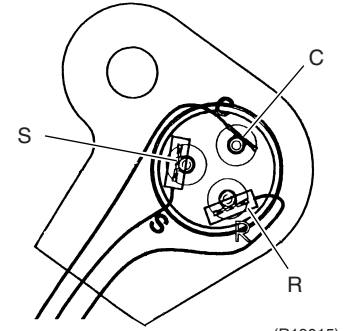
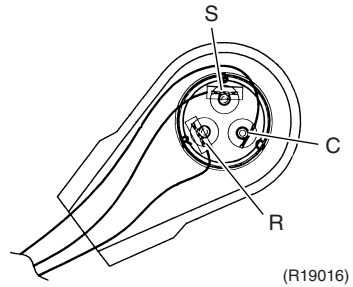
- ◆ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ◆ Cautions for restoration
 1. Restore the piping by non-oxidation brazing.
 2. It is required to prevent the carbonization of the oil inside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

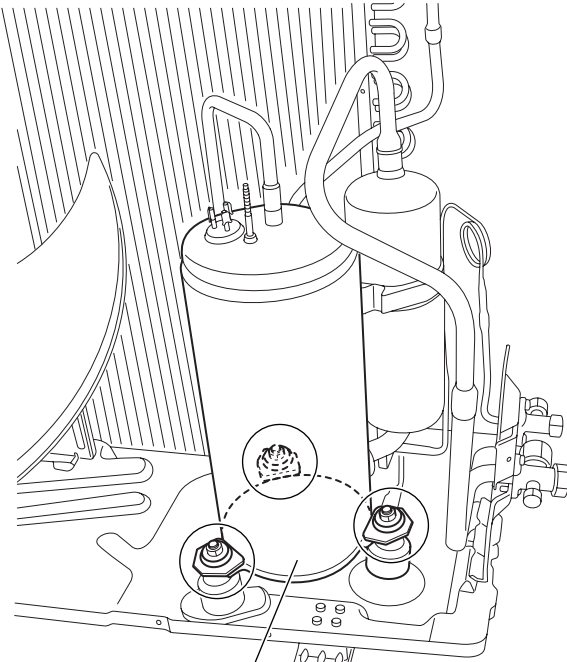
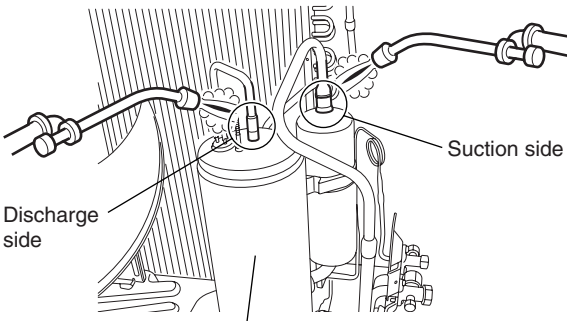


Note

- ◆ 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 Remove the nut.</p> <p>2 Remove the terminal cover.</p>		<p>■ The design of the terminal cover varies depending on the model.</p>

Step	Procedure	Procedure	Points
3	Disconnect the compressor lead wires.		
4	Remove the gasket.		<p>Pattern 1</p>  <p>S (W): red C (U): white R (V): blue</p>
5	Remove the 3 screws and remove the partition plate.		<p>Pattern 2</p>  <p>S: red C: white R: blue</p> <p>Pattern 3</p>  <p>S: red C: white R: blue</p> <p>■ When reassembling, fit the lower hook into the bottom frame.</p>

Step	Procedure	Points
6	Remove the 3 nuts of the compressor.	
	 <p style="text-align: center;">Compressor</p> <p style="text-align: right;">(R19007)</p>	
7	Heat up the brazed part of the discharge side and disconnect.	
8	Heat up the brazed part of the suction side and disconnect.	
9	Lift the compressor ASSY up and remove it.	
	 <p style="text-align: center;">Compressor ASSY</p> <p style="text-align: right;">(R19008)</p>	

Revision History

Month / Year	Version	Revised contents
06 / 2013	Si011281E	First edition

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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