






Si011359EA

REMOVAL PROCEDURE



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

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

-  Outdoor Unit
-  Non-Inverter
-  Pair Type



Service Manual Removal Procedure

Outdoor Unit

●Cooling Only

ARM24MV2S

**RM24NV2S
RM28NV2S**

**RM60JV14
RM71JV14**

RM60KV1V

RN60JV1G

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Note:

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

1. Outer Panels

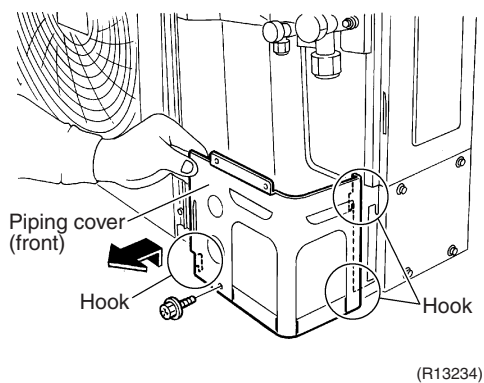
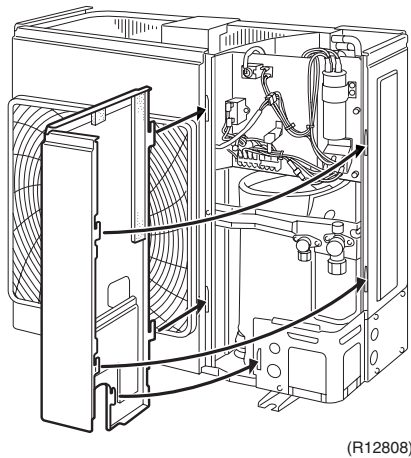
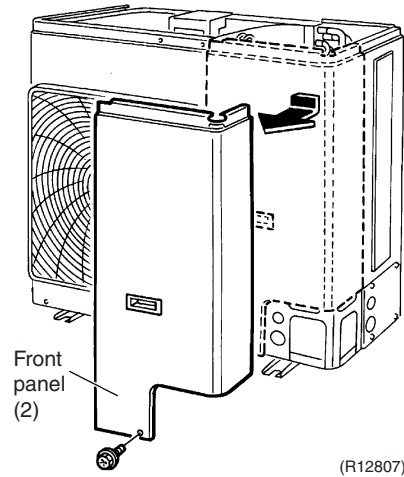
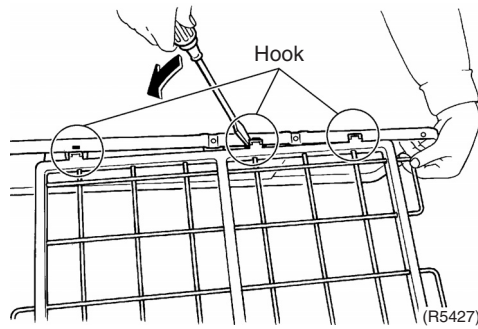


Warning

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

Step	Procedure	Points
1	Remove the 8 screws of the top panel.	
	<p>Top panel (R5423)</p>	
	<p>(R5424)</p>	
2	Pull the suction grille to unfasten the 3 hooks.	
	<p>Suction grille Hook (R19345)</p>	
3	Lift up and remove the top panel.	
	<p>(R5426)</p>	

Step	Procedure	Points
4	Unfasten the 3 hooks with a flat screwdriver and remove the suction grille.	
5	Remove the screw and remove the front panel (2).	
6	Remove the screw and remove the piping cover (front).	

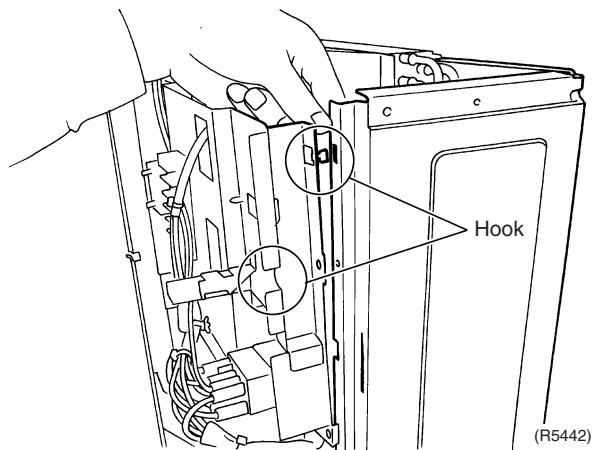
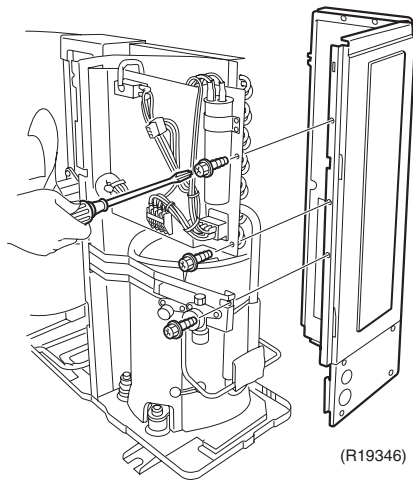
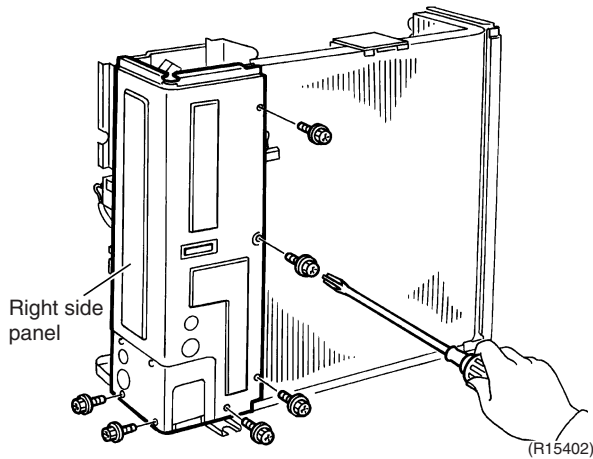


■ When reassembling, fit the 5 hooks.

■ When reassembling, fit the 3 hooks.

Step	Procedure	Points
7	Remove the 6 screws and remove the front panel (1).	
<p>Front panel (1)</p> <p>(R12810)</p> <p>(R17188)</p> <p>(R8322)</p>		

Step	Procedure	Points
8	Remove the 9 screws and remove the right side panel.	<ul style="list-style-type: none"> ■ When reassembling, fit the 2 hooks.



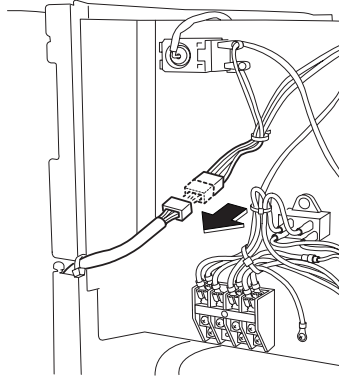
2. Outdoor Fan / Fan Motor



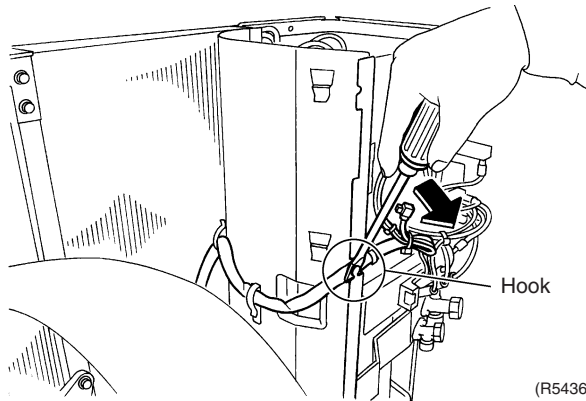
Warning

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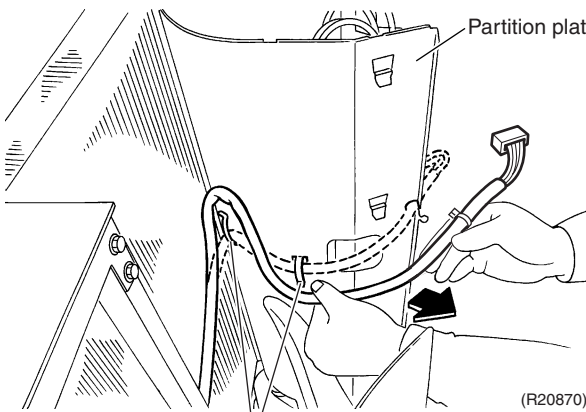
Step	Procedure	Points
1	Disconnect the relay connector for the fan motor.	
2	Unfasten the hook with a flat screwdriver.	
3	Unfasten the 2 hooks and release the fan motor lead wire from the partition plate.	<p>■ Put the fan motor lead wire through the back of the fan motor when reassembling so as not to be entangled with the outdoor fan.</p>



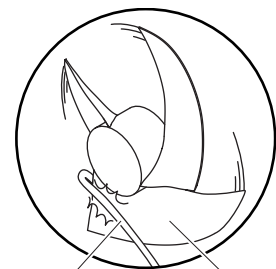
(R19298)



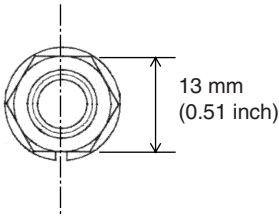
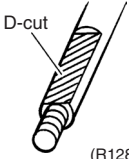
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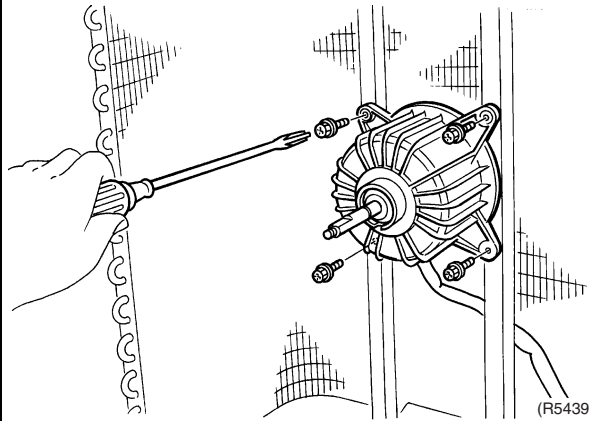
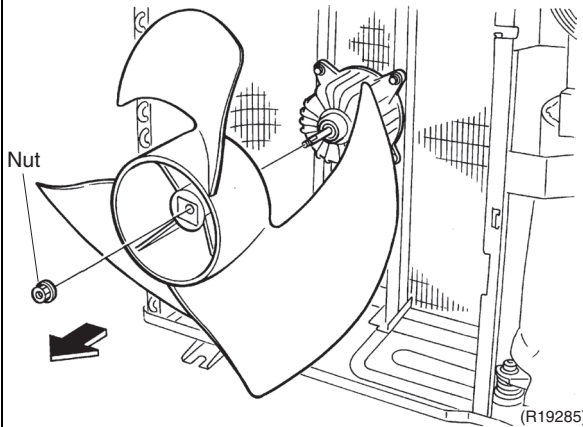


(R20870)



Lead wire Outdoor fan
(R3249)

Step	Procedure	Points
4	Remove the nut and remove the outdoor fan.	<ul style="list-style-type: none"> ■ Nut size: M8  <p style="text-align: right;">(R19286)</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.  <p style="text-align: right;">(R12834)</p>
5	Remove the 4 screws and remove the fan motor.	<ul style="list-style-type: none"> ■ Be sure to remove the lower screws first. If the upper screws are removed first, the fan motor may tilt or fall because the center of its gravity is toward the front. It may cause injuries. ■ Screw size: M5 × 16

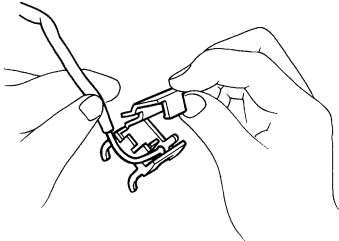
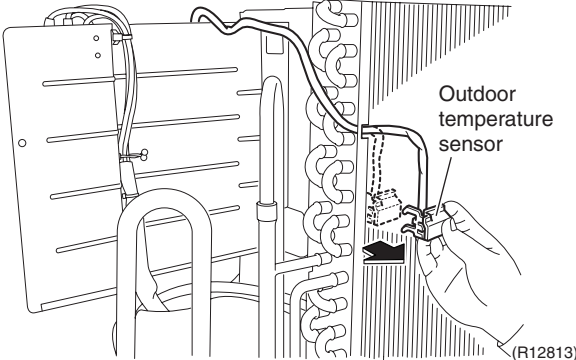
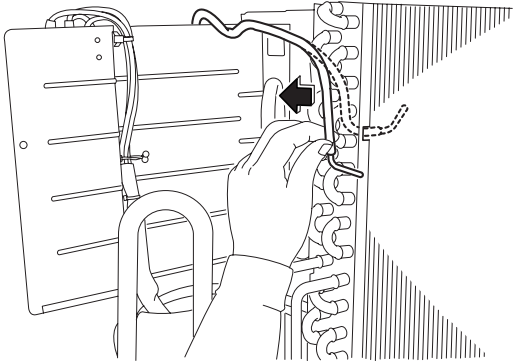
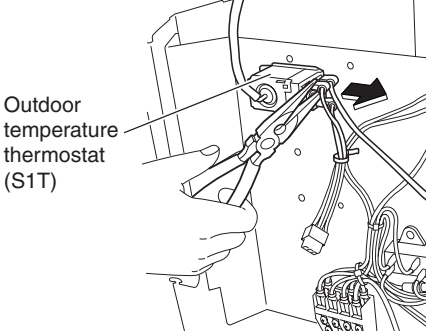
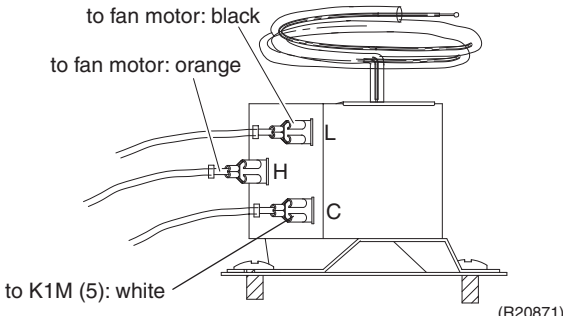


3. Electrical Component ASSY

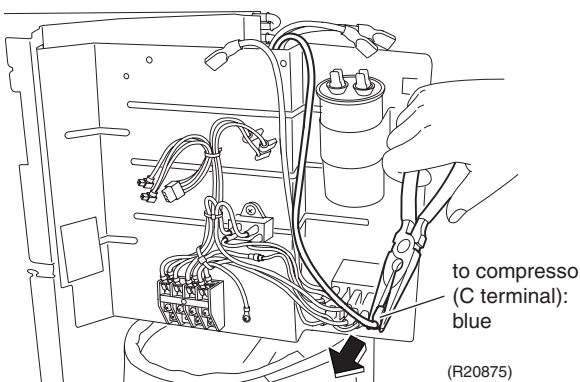
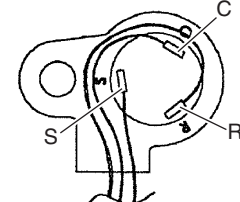
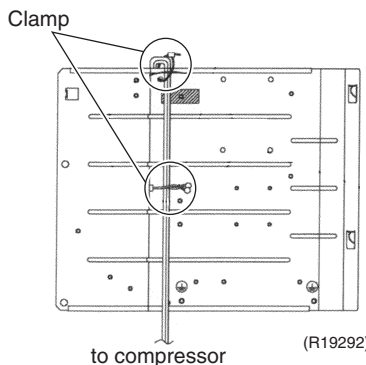
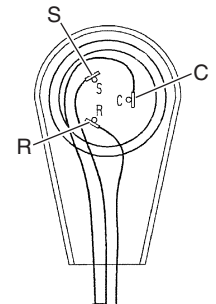
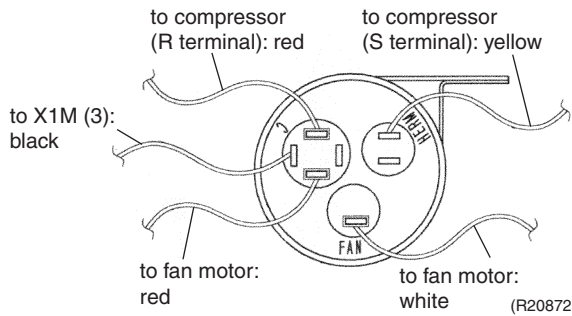
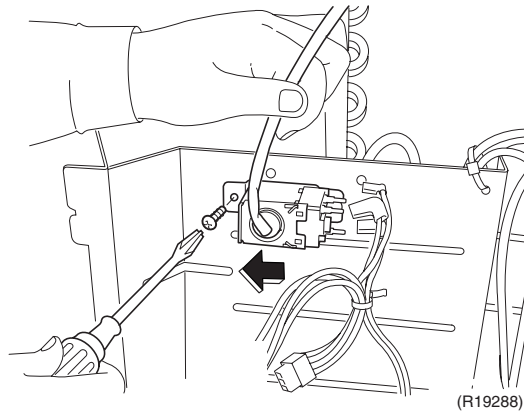


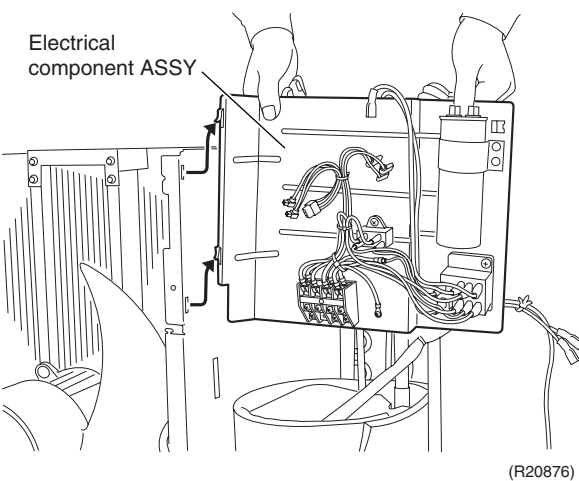
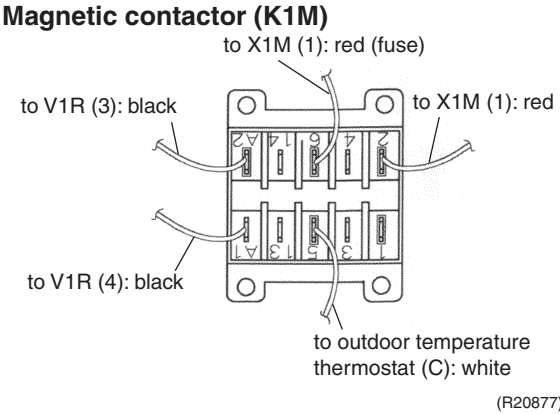
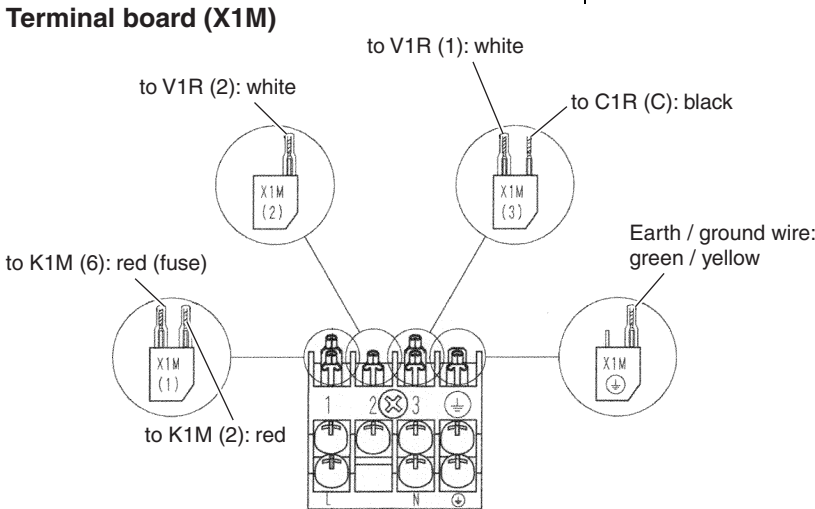
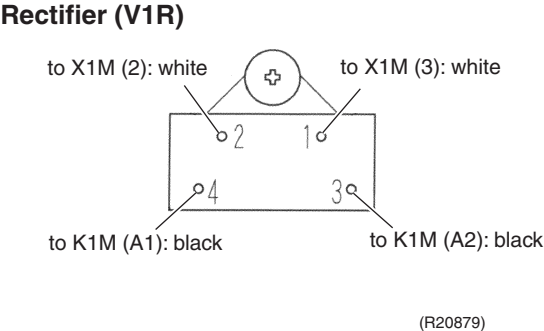
Warning

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

Step	Procedure	Points
1	Detach the outdoor temperature sensor.	 <p>(R17451)</p> <ul style="list-style-type: none"> ■ Remove the sensor fixing plate.
2	Disconnect the terminals of the outdoor temperature thermostat (S1T).	 <p>(R12813)</p>  <p>(R12814)</p>  <p>(R19299)</p>  <p>(R20871)</p> <ul style="list-style-type: none"> ■ K1M: magnetic contactor

Step	Procedure	Points
3	Remove the left screw and slide the outdoor temperature thermostat to the left to remove it.	<ul style="list-style-type: none"> ■ If it is difficult to remove the outdoor temperature thermostat, loosen the right screw.
4	Disconnect the terminals from the compressor capacitor (C1R).	<ul style="list-style-type: none"> ■ X1M: terminal board ■ Compressor lead wire <p>Pattern 1</p>
5	Remove the 2 clamps on the rear side.	<p>Pattern 2</p>
6	Disconnect the blue terminal from the magnetic contactor K1M (1).	<p>S: yellow C: blue R: red</p>



Step	Procedure	Points
7	<p>Lift the electrical component ASSY to unfasten the 2 hooks and remove it.</p>	<p>■ When reassembling, connect the wirings to the correct position.</p>
	<p>Electrical component ASSY</p>  <p>(R20876)</p>	
	<p>Magnetic contactor (K1M) to X1M (1): red (fuse)</p> <p>to V1R (3): black</p> <p>to V1R (4): black</p> <p>to X1M (1): red</p> <p>to outdoor temperature thermostat (C): white</p>  <p>(R20877)</p>	
	<p>Terminal board (X1M)</p> <p>to V1R (2): white</p> <p>to V1R (1): white</p> <p>to C1R (C): black</p> <p>to K1M (6): red (fuse)</p> <p>to K1M (2): red</p> <p>Earth / ground wire: green / yellow</p>  <p>(R20878)</p>	
	<p>Rectifier (V1R)</p> <p>to X1M (2): white</p> <p>to X1M (3): white</p> <p>to K1M (A1): black</p> <p>to K1M (A2): black</p>  <p>(R20879)</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"> ■ Since the piping ports on the sound blanket are torn easily, remove the sound blanket carefully.
2	Remove the sound blanket (body).	

Sound blanket (top)

Sound blanket (body)

(R19300)

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

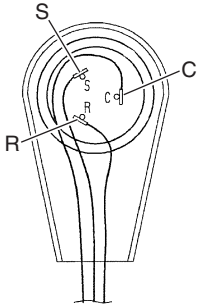
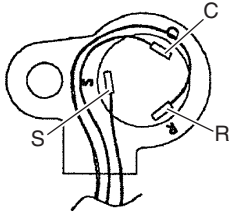
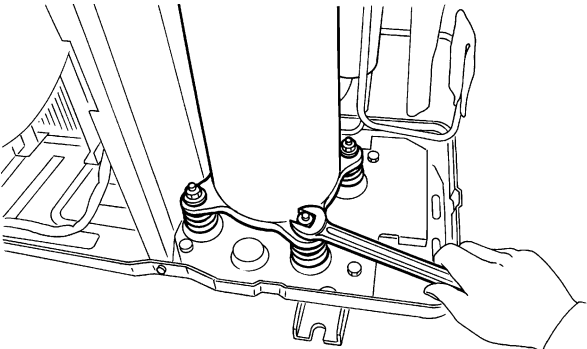
- ◆ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ◆ Restore the piping by non-oxidation brazing.



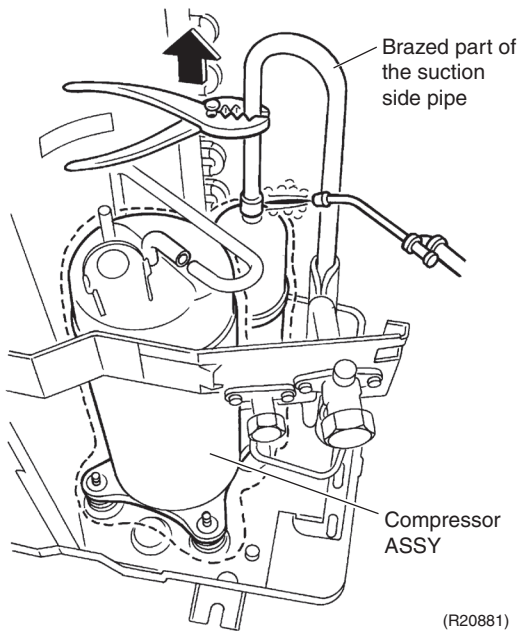
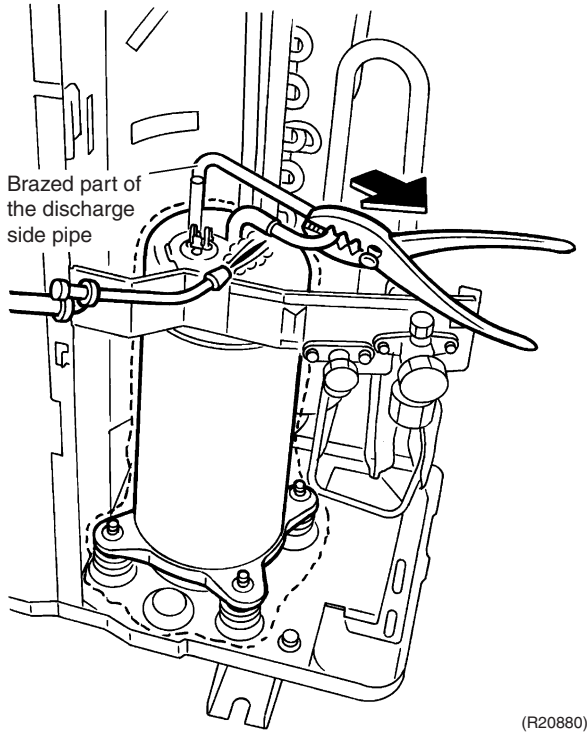
Note

- ◆ 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 terminal cover.</p>	<p>Terminal cover</p> <p>Terminal cover fixture</p> <p>(R5455)</p> <p>(R5456)</p>	<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>■ Be careful so as not to burn the compressor terminals or the name plate.</p> <p>Pattern 1</p>  <p>(R20873)</p>
3	Remove the gasket.	<p>Pattern 2</p>  <p>(R20874)</p> <p>S: yellow C: blue R: red</p>
4	Remove the 4 nuts of the compressor.	 <p>(R12888)</p>

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



Revision History

Month / Year	Version	Revised contents
08 / 2013	Si011359E	First edition
09 / 2014	Si011359EA	Model addition: ARM24MV2S, RM24/28NV2S, RM60/71JV14, RM60KV1V

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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