


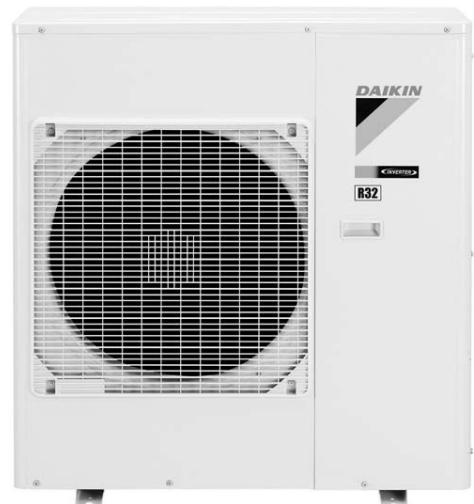
REMOVAL PROCEDURE



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

8.5/9.5 kW Class

-  Outdoor Unit
-  Inverter
-  Pair Type



Service Manual Removal Procedure

Outdoor Unit

●Heat Pump

**RXM85PVMA
RXM95PVMA**

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

1. Outer Panels

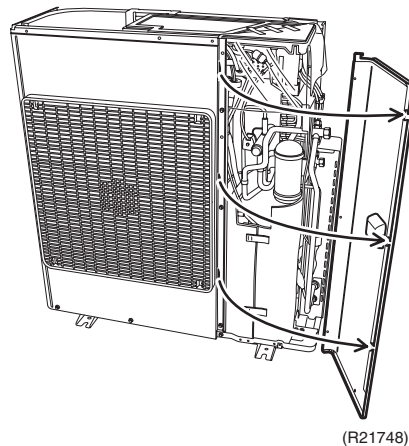
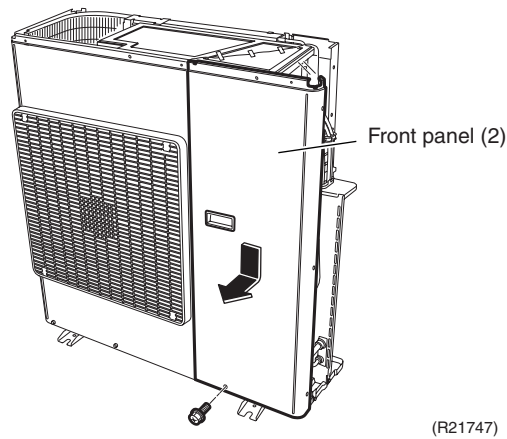
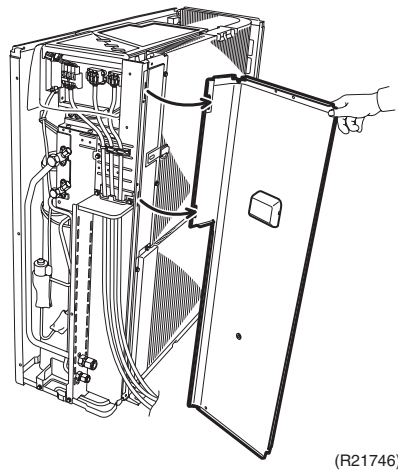
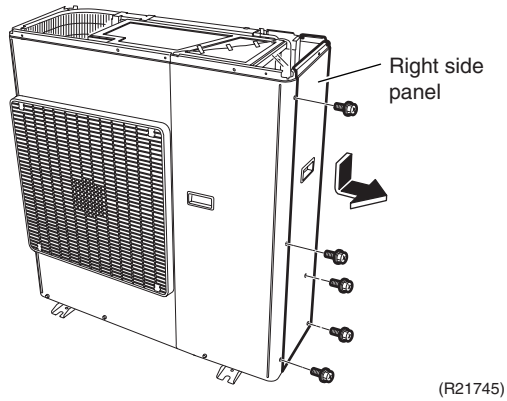


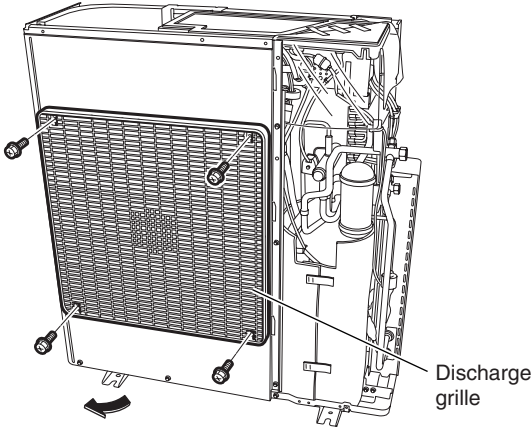
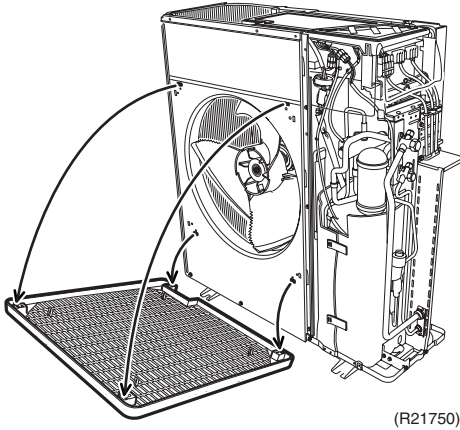
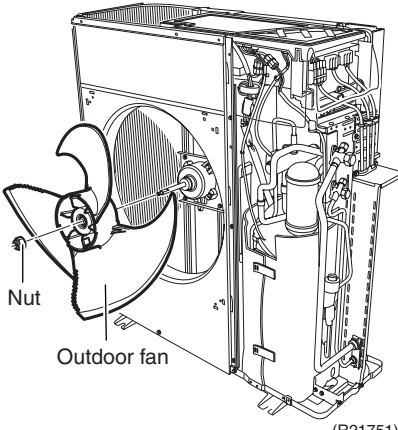
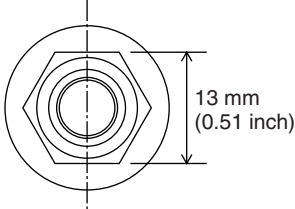
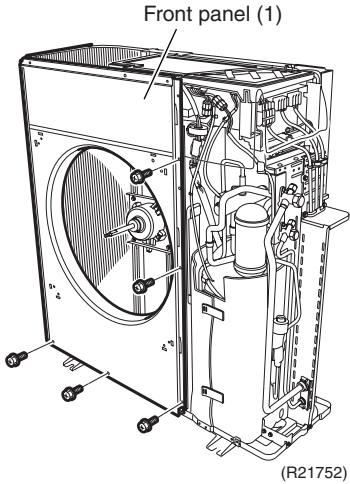
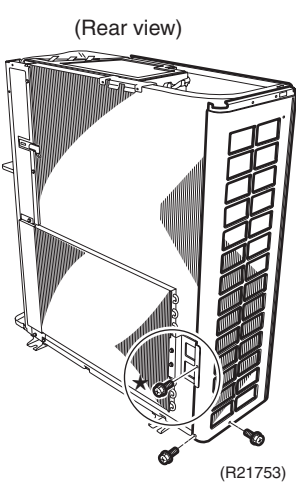
Warning

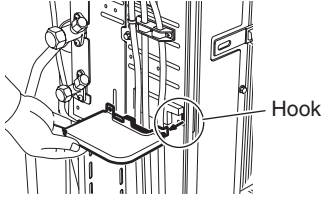
◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

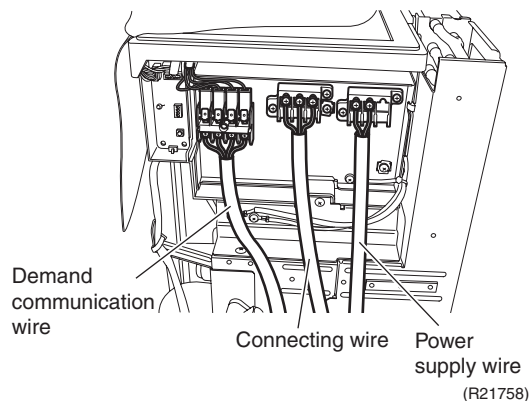
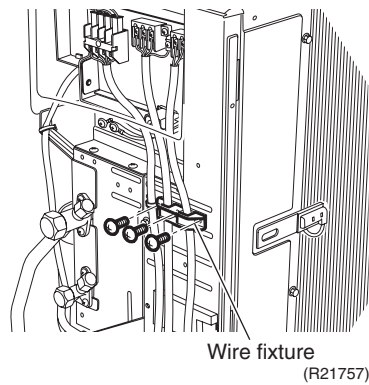
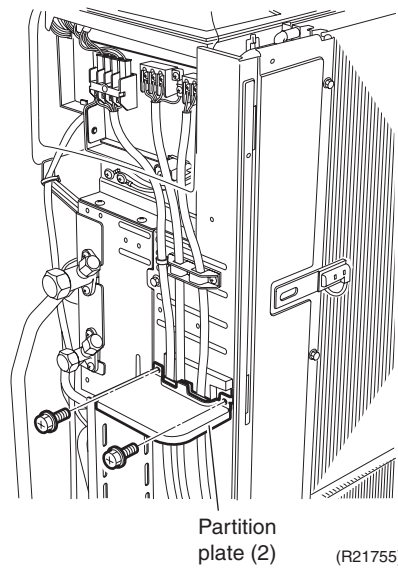
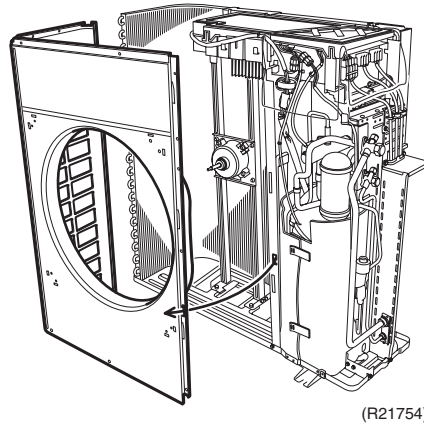
Step	Procedure	Points
<p>1. Remove the suction grille.</p> <p>1 Pull out the bottom of the suction grille.</p> <p>2 Unfasten the 3 hooks on the top of the suction grille and remove it.</p>	<p>(R21742)</p> <p>(R21743)</p>	<p>■ Suction grille has other 6 hooks. When reassembling, insert the 6 hooks into the clearances of the outdoor heat exchanger fins.</p>
<p>2. Remove the outer panels.</p> <p>1 Remove the 9 screws and remove the top panel.</p>	<p>(R21744)</p>	

Step	Procedure	Points
2	Remove the 5 screws.	
3	Slide the right side panel downward to unfasten the 2 hooks on the back.	
4	Remove the right side panel.	
5	Remove the screw.	
6	Slide the front panel (2) downward.	
7	Remove the front panel (2).	<ul style="list-style-type: none"> ■ The front panel has 3 hooks on the back. When reassembling, be sure to fit all 3 hooks.

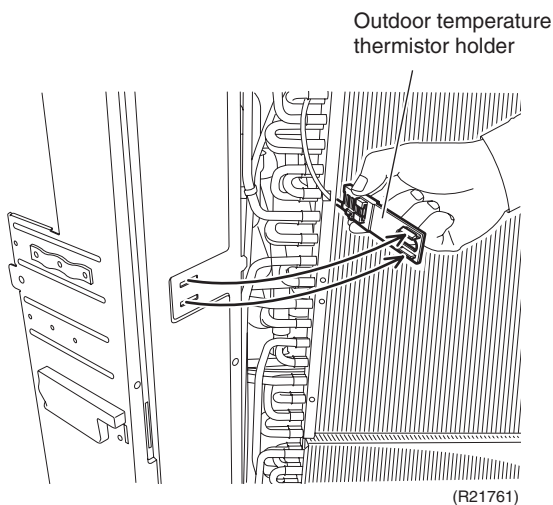
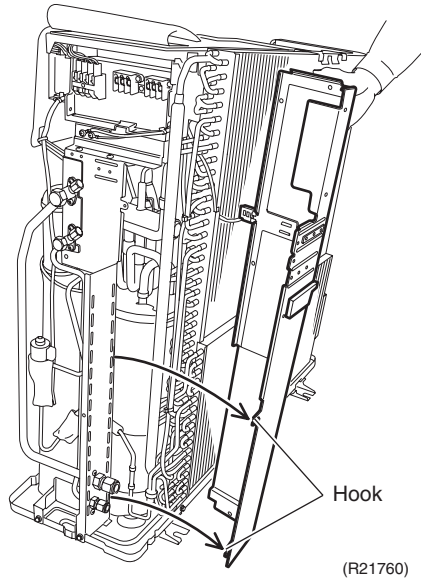
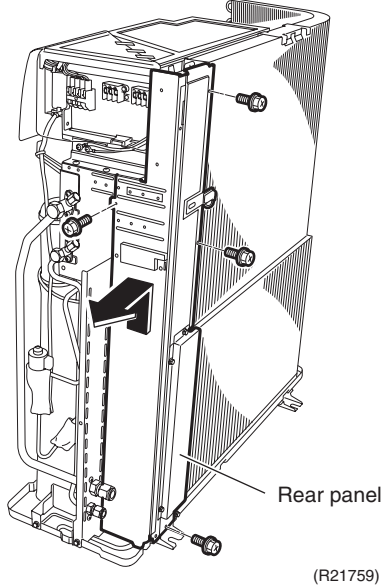


Step	Procedure	Points
8	Remove the 4 screws.	
9	Pull out the bottom of the discharge grille and remove it.	
	 <p>Discharge grille (R21749)</p>	
	 <p>(R21750)</p>	<ul style="list-style-type: none"> ■ The discharge grille has 4 hooks on the back. When reassembling, make sure to fit the 4 hooks.
10	Remove the nut and remove the outdoor fan.	
	 <p>Nut Outdoor fan (R21751)</p>	<ul style="list-style-type: none"> ■ Nut size: M8  <p>13 mm (0.51 inch) (R18965)</p>
11	Remove the 8 screws of the front panel (1).	
	 <p>Front panel (1) (R21752)</p>  <p>(Rear view) (R21753)</p>	<ul style="list-style-type: none"> ■ The 85 class model does not have the ★ marked screw.

Step	Procedure	Points
12	Lift up the front panel (1) to unfasten the hook.	
13	Remove the front panel (1).	
14	Remove the 2 screws on the partition plate (2).	<ul style="list-style-type: none"> ■ Partition plate (2) has a hook on the right.
15	Lift up the partition plate (2) and remove it.	 <p style="text-align: right;">Hook</p> <p style="text-align: right;">(R21756)</p>
16	Remove the 3 screws and remove the wire fixture.	
17	Remove the screws of the terminal boards and detach the demand communication wire, connecting wire and the power supply wire.	



Step	Procedure	Points
18	Remove the 4 screws of the rear panel.	<ul style="list-style-type: none"> ■ The 85 class model has 2 more screws on the back.
19	Lift the rear panel upward to unfasten the 2 hooks.	
20	Remove the rear panel.	
21	Push the hooks of the outdoor temperature thermistor holder from the inner side of the rear panel. Detach the outdoor temperature thermistor holder.	

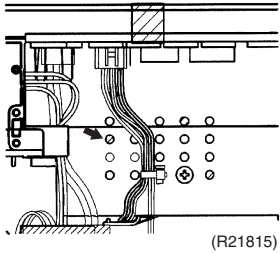
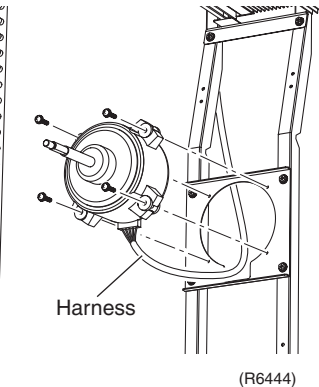


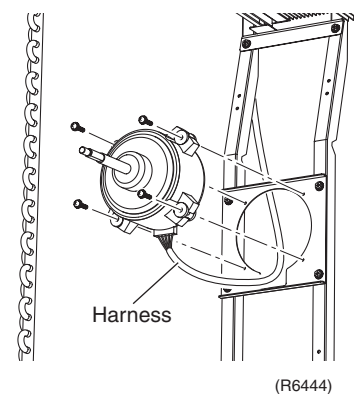
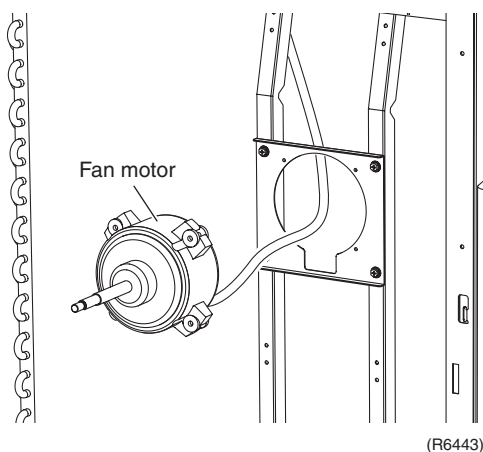
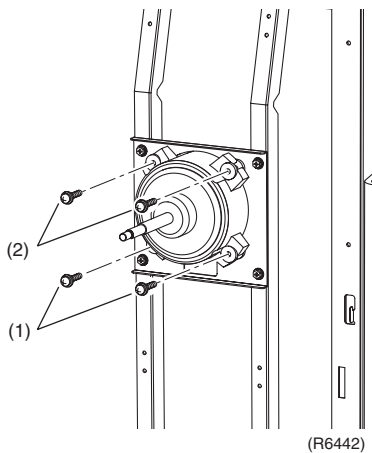
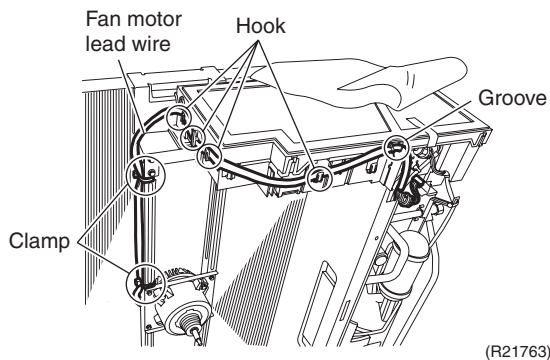
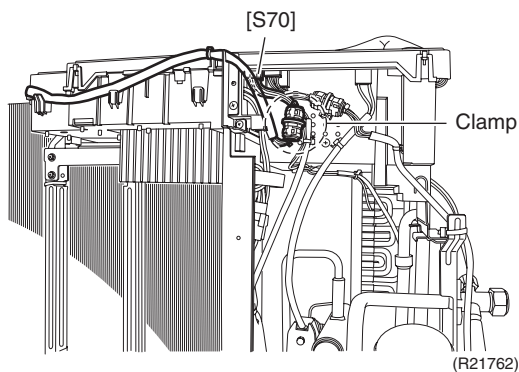
2. Fan Motor



Warning

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

Step	Procedure	Points
1	Disconnect the connector [S70] and pull out the clamp.	<p>[S70]: fan motor</p> <ul style="list-style-type: none"> ■ When reassembling, insert the clamp into the hole.
2	Release the fan motor lead wire from the groove and the 4 hooks.	 <p>(R21815)</p>
3	Cut the 2 clamps.	<ul style="list-style-type: none"> ■ Be sure to remove the lower screws (1) first. If the top screws (2) are removed first, the fan motor may tilt down or fall and cause injury because its center of gravity is shifted to the front.
4	Remove the 2 lower screws.	<ul style="list-style-type: none"> ■ When reassembling, make sure that the wire harness is at the bottom.
5	Remove the 2 upper screws.	 <p>(R6444)</p>
6	Remove the fan motor.	

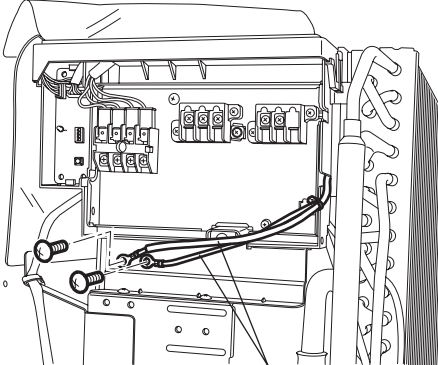
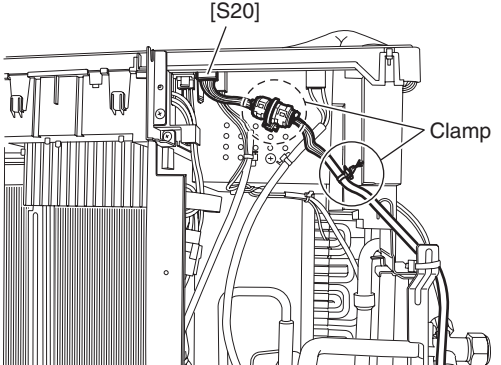
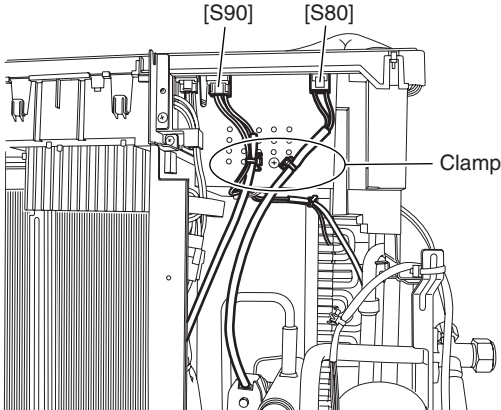
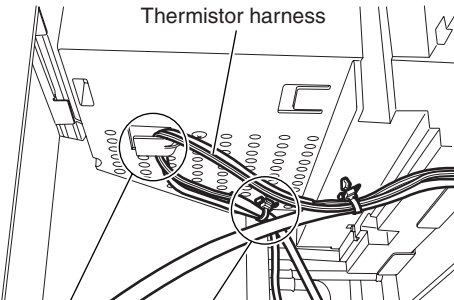
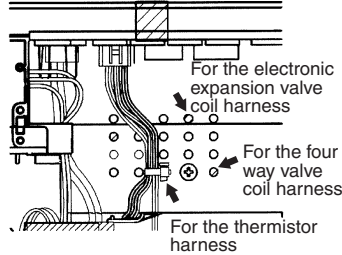
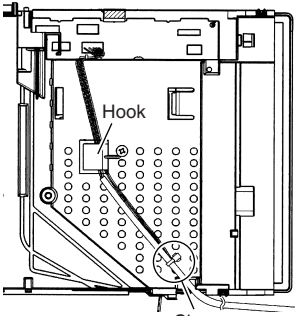


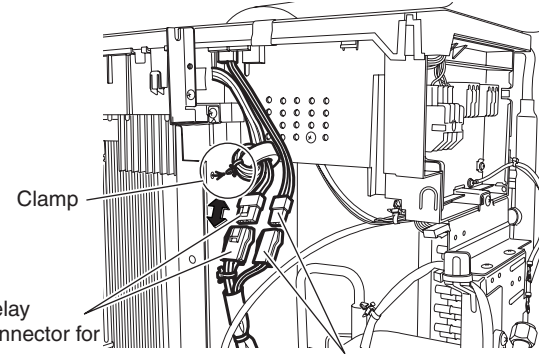
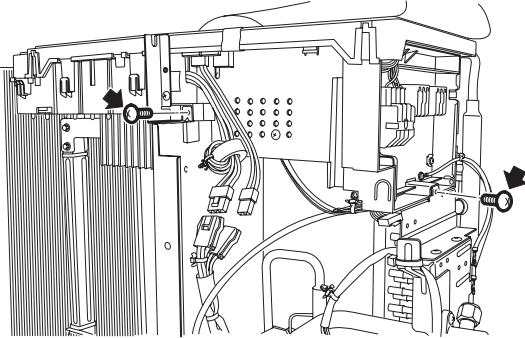
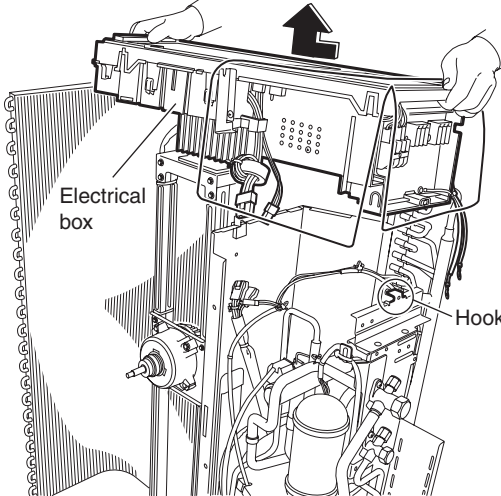
3. Electrical Box



Warning

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Step	Procedure	Points
1	Remove the 2 screws and release the earth / ground wires.	
	 <p style="text-align: center;">Earth / ground wire (R21764)</p>	
2	Pull out the 2 clamps and disconnect the connector [S20].	
	 <p style="text-align: center;">[S20] Clamp (R21765)</p>	[S20]: electronic expansion valve coil
3	Pull out the clamp and disconnect the connector [S80].	
4	Pull out the clamp and disconnect the connector [S90].	
	 <p style="text-align: center;">[S90] [S80] Clamp (R21766)</p>	[S80]: four way valve coil [S90]: thermistors
5	Release the thermistor harness from the hook on the bottom of the electrical box.	
6	Pull out the clamp and release the harness of the thermistors.	
	 <p style="text-align: center;">Thermistor harness Hook Clamp (R21767)</p>	<p>■ When reassembling, insert each clamp into the small holes.</p>  <p style="text-align: center;">For the electronic expansion valve coil harness For the four way valve coil harness For the thermistor harness (R21816)</p>
		 <p style="text-align: center;">Hook Clamp (R21817)</p>

Step	Procedure	Procedure	Points
7	Pull out the clamp and disconnect the relay connector for compressor.	 <p>Clamp</p> <p>Relay connector for compressor</p> <p>Relay connector for overload protector</p> <p>(R21768)</p>	
8	Disconnect the relay connector for overload protector.		
9	Remove the 2 screws.	 <p>(R21769)</p>	
10	Slide the electrical box to the left to unfasten the hook.	 <p>Electrical box</p> <p>Hook</p> <p>(R21770)</p>	
11	Lift up and remove the electrical box.		

4. PCBs

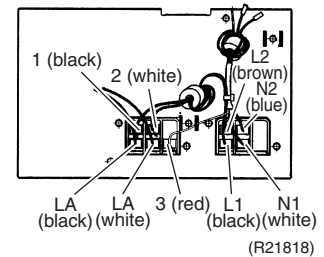
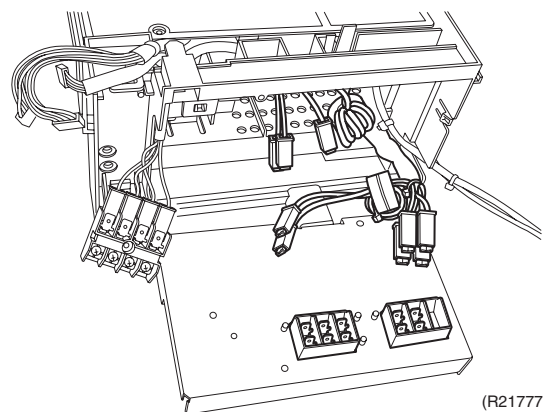
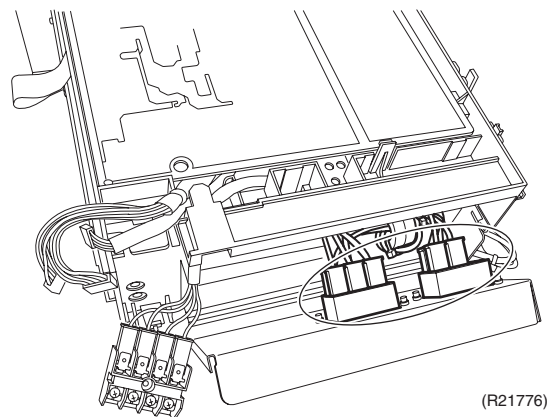
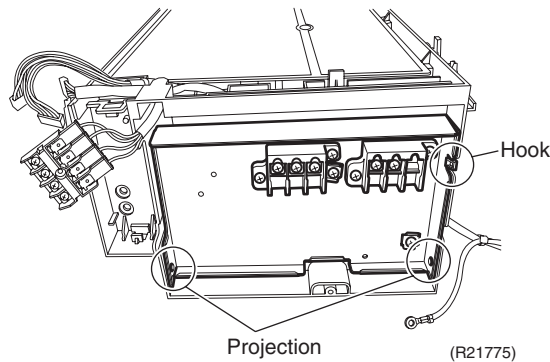
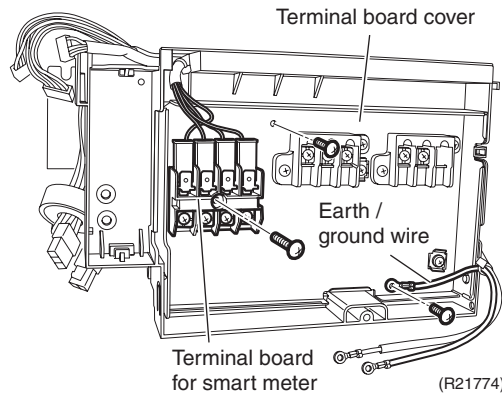


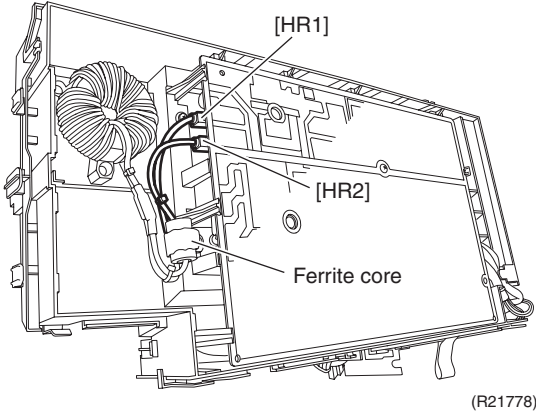
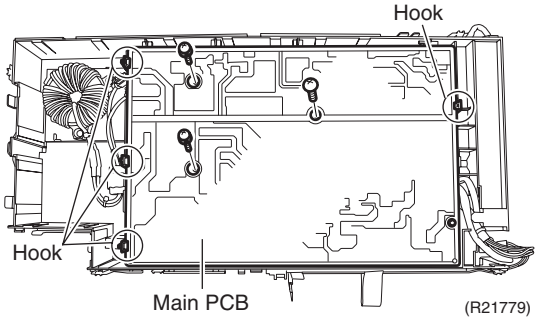
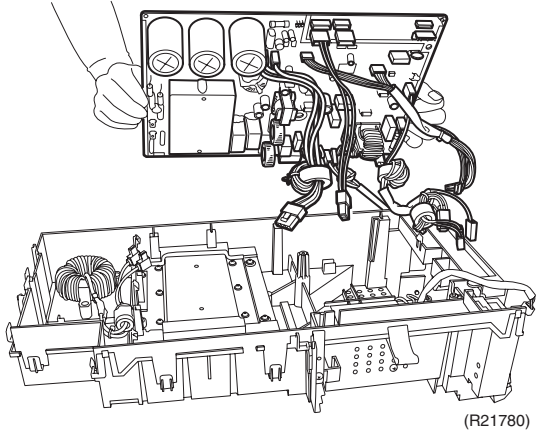
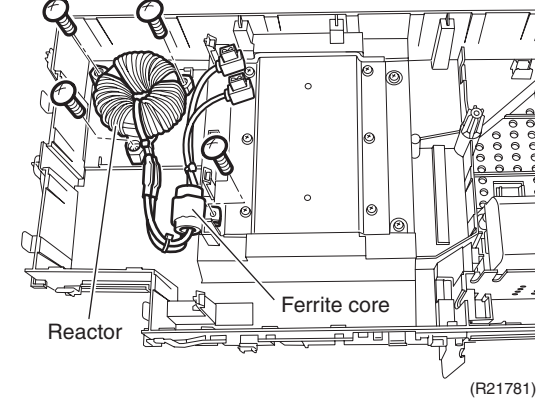
Warning

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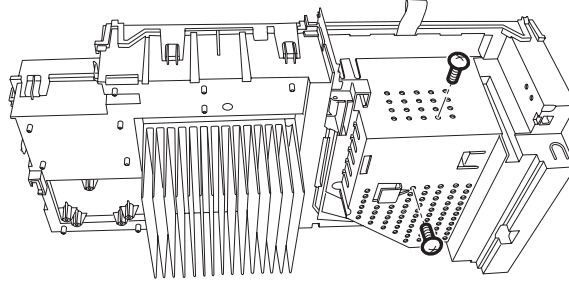
Step	Procedure	Points
1. Remove the main PCB.		
1 Unfasten the 4 hooks and remove the electrical box cover.	<p style="text-align: right;">(R21771)</p>	
2 Disconnect the connectors [S2], [S52], [S102].	<p style="text-align: right;">(R21772)</p>	<p>[S2]: demand control PCB [S52] [S102]: main PCB</p>
3 Unfasten the 2 hooks and remove the service monitor PCB.	<p style="text-align: right;">(R21773)</p>	

Step	Procedure	Points
4	Remove the screw of the terminal board cover.	
5	Remove the earth / ground screw.	
6	Remove the screw and remove the terminal board for the smart meter.	
7	Unfasten the hook on the right and open the terminal board cover.	<ul style="list-style-type: none"> When reassembling, make sure to fit the 2 projections to the holes at the bottom of the terminal board cover.
8	Disconnect all the connectors.	<ul style="list-style-type: none"> When reassembling, connect the connectors as below.

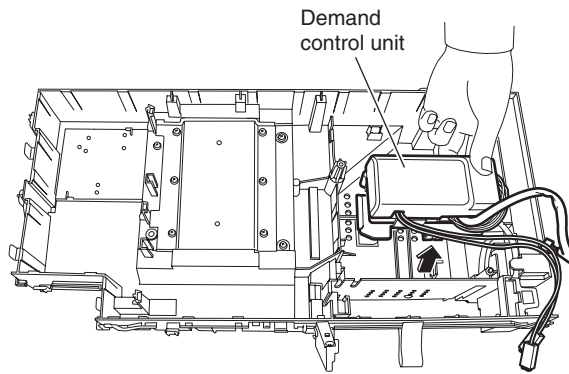


Step	Procedure	Points
9	Disconnect the connectors [HR1], [HR2].	<p>[HR1]: reactor (white) [HR2]: reactor (blue)</p> <ul style="list-style-type: none"> ■ The harness for [HR2] has a ferrite core.
10	Remove the 3 screws and unfasten the 4 hooks.	 <p>(R21778)</p>
11	Lift up and remove the main PCB.	 <p>(R21779)</p>
2. Remove the reactor.	 <p>(R21780)</p>	
1	Remove the 3 screws of the reactor and 1 screw of the ferrite core fixing band.	 <p>(R21781)</p>
2	Lift up and remove the reactor.	

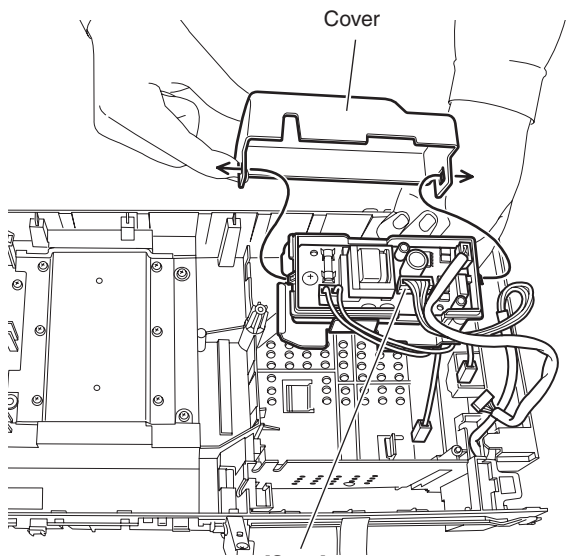
Step	Procedure	Points
3.	Remove the demand control PCB.	
1	Remove the 2 screws.	
2	Lift up and remove the demand control unit.	
3	Unfasten the 2 hooks and open the cover.	
4	Disconnect the connector [S206].	[S206]: terminal board for smart meter
5	Remove the screw and remove the demand control PCB.	



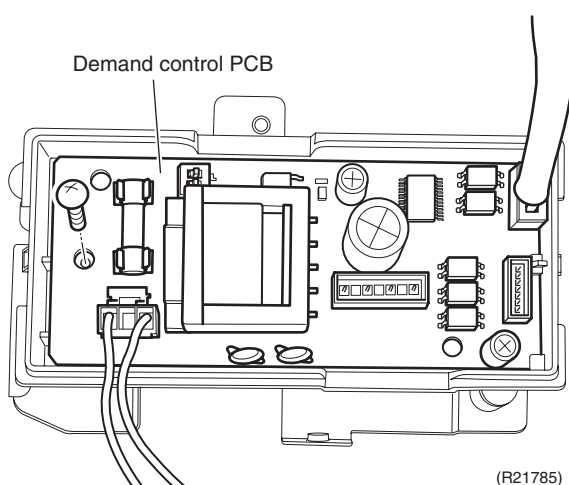
(R21782)



(R21783)



(R21784)



(R21785)

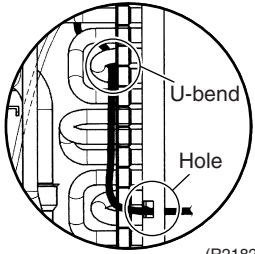
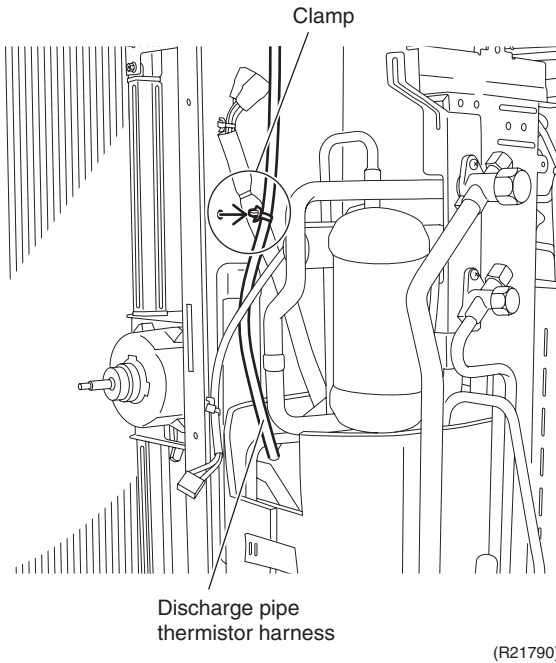
5. Coils / Thermistor ASSY

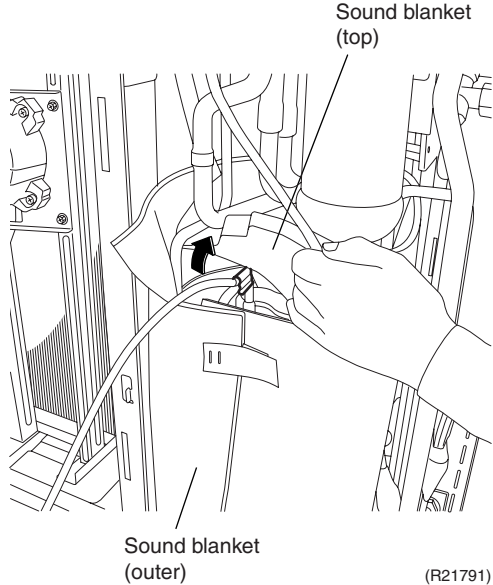
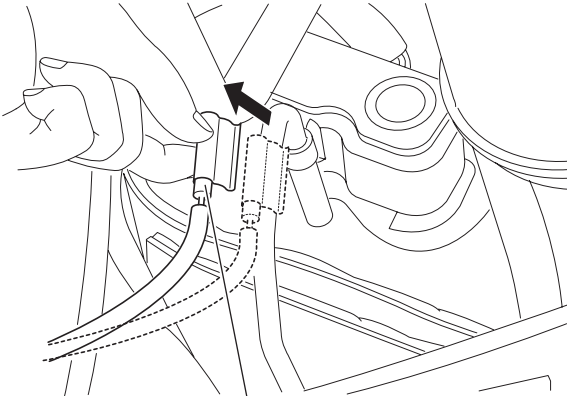
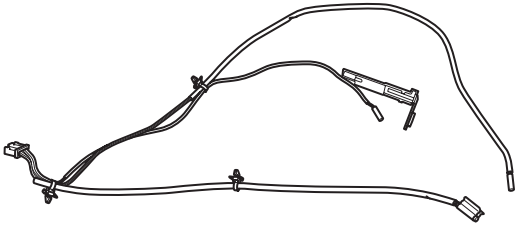
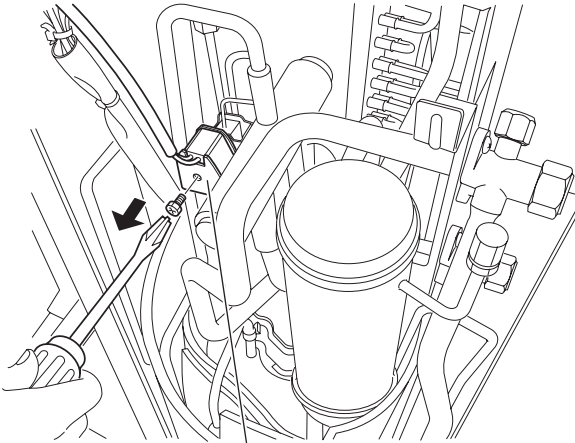


Warning

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Step	Procedure	Points
<p>1. Remove the electronic expansion valve coil.</p> <p>1 Pull out the clamp from the hook and release the harness for electronic expansion valve coil.</p> <p>2 Pull out the electronic expansion valve coil.</p>	<p>(R21786)</p>	
<p>2. Remove the thermistor ASSY.</p> <p>1 Cut the 2 clamps.</p> <p>2 Pull out the outdoor heat exchanger thermistor.</p>	<p>(R21787)</p> <p>(R21788)</p>	<p>■ The 85 class model does not have a clamp at the top.</p> <p>(R21824)</p>

Step	Procedure	Points
3	Open the outdoor temperature thermistor holder.	<ul style="list-style-type: none"> When reassembling, pass the outdoor temperature thermistor through the heat exchanger tube U-bend and the hole as below.
4	Release the outdoor temperature thermistor.	 <p>(R21820)</p>
5	Pull out the clamp and release the harness of the discharge pipe thermistor.	 <p>(R21790)</p>

Step	Procedure	Procedure	Points
6	Slightly open the sound blanket (outer) and sound blanket (top).	 <p>Sound blanket (top)</p> <p>Sound blanket (outer)</p> <p>(R21791)</p>	
7	Detach the discharge pipe thermistor.	 <p>Discharge pipe thermistor (R9635)</p>	
8	Pull out the thermistor ASSY.	 <p>(R21792)</p>	
3.	Remove the four way valve coil.	 <p>Four way valve coil (R18076)</p>	
1	Remove the screw and remove the four way valve coil.		

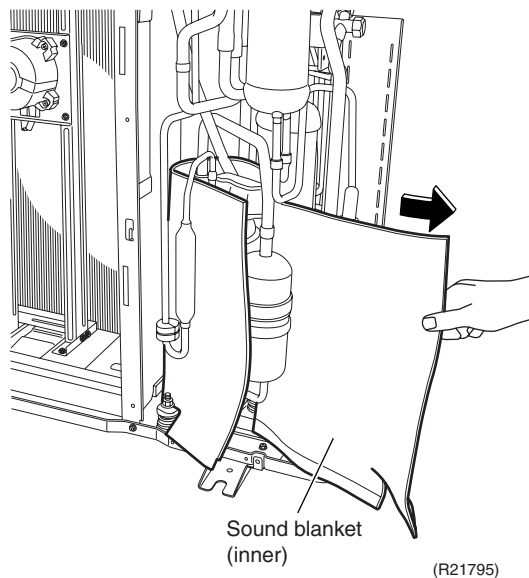
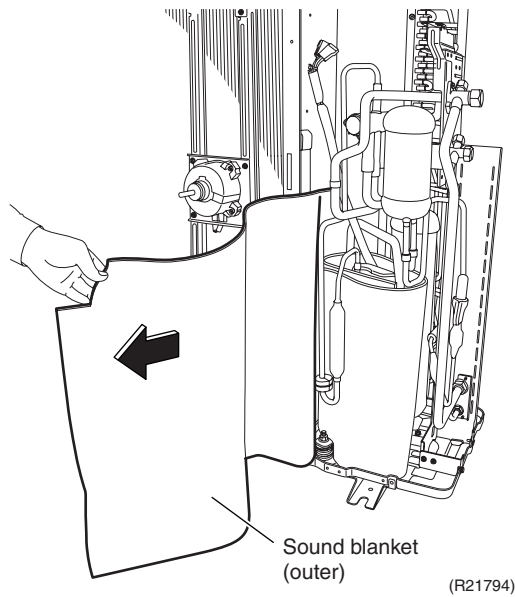
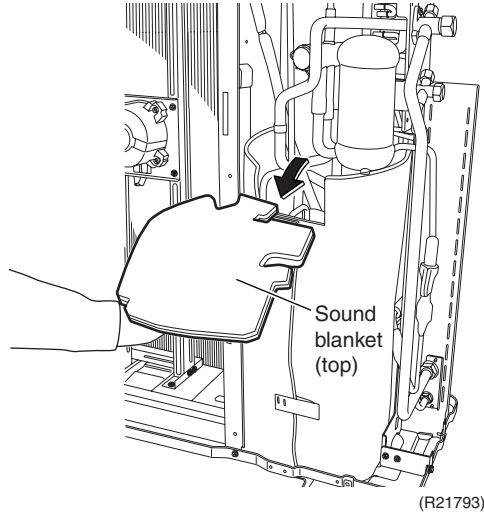
6. Sound Blankets



Warning

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Step	Procedure	Points
1	Remove the sound blanket (top).	
2	Pull out and remove the sound blanket (outer).	
3	Pull out and remove the sound blanket (inner).	



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.



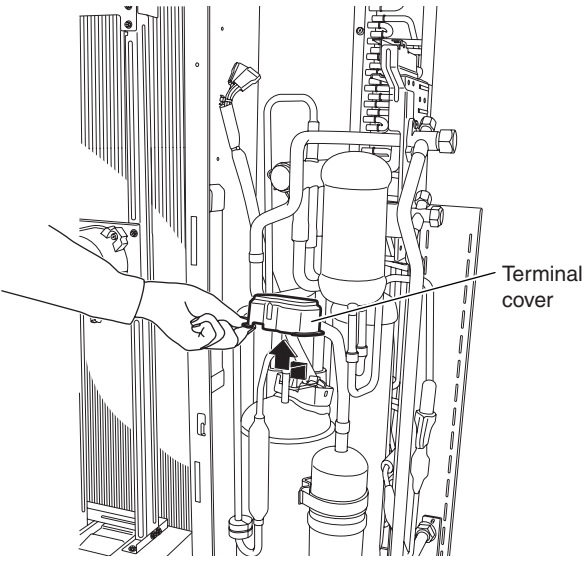
Caution

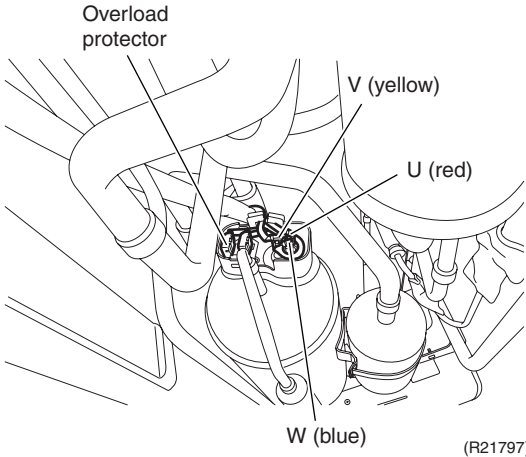
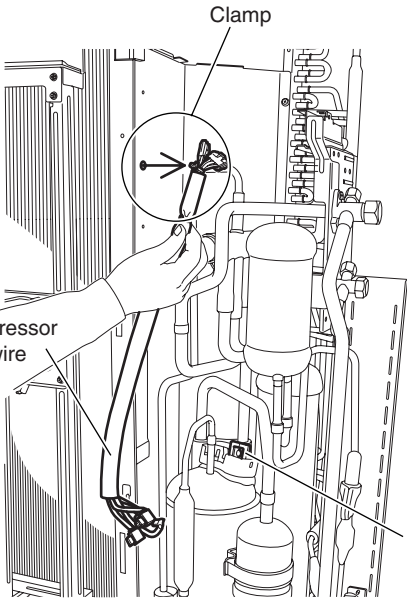
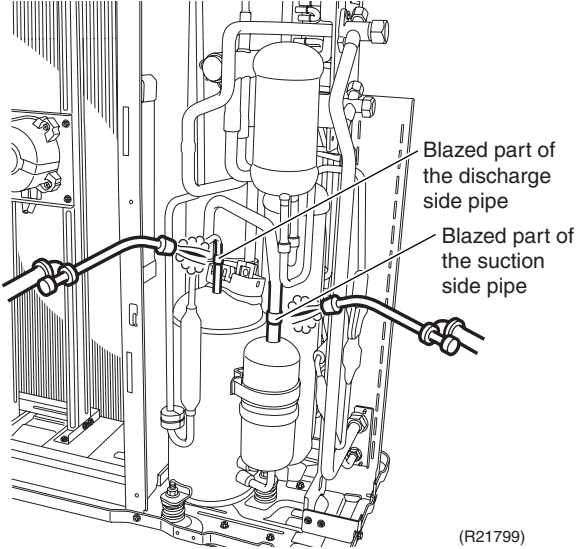
- ◆ From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to collect all the refrigerant gas.
- ◆ Restore the piping by non-oxidation brazing.



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;">(R21796)</p>

Step	Procedure	Procedure	Points	
2	Disconnect the lead wires of the compressor and overload protector.	 <p>Overload protector</p> <p>V (yellow)</p> <p>U (red)</p> <p>W (blue)</p> <p>(R21797)</p>		
3	Remove the protection bushing.	 <p>Clamp</p> <p>Compressor lead wire</p> <p>Protection bushing</p> <p>(R21798)</p>		
4	Pull out the clamp and remove the compressor lead wire.		 <p>Blazed part of the discharge side pipe</p> <p>Blazed part of the suction side pipe</p> <p>(R21799)</p>	
5	Heat up the blazed 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 and remove the compressor.			

Revision History

Month / Year	Version	Revised contents
03 / 2015	Si001423E	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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