






Si011185

REMOVAL PROCEDURE



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

12000 Btu/h Class

-  Outdoor Unit
-  Non-Inverter
-  Pair Type



Service Manual Removal Procedure

Outdoor Unit

Applicable Models

●Cooling Only

RE12MV2S

RE12NV2S

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

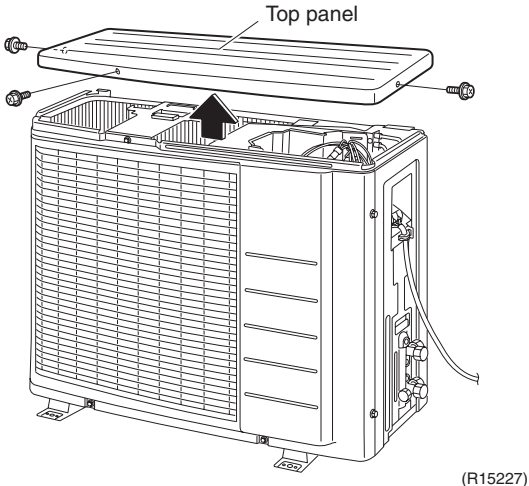
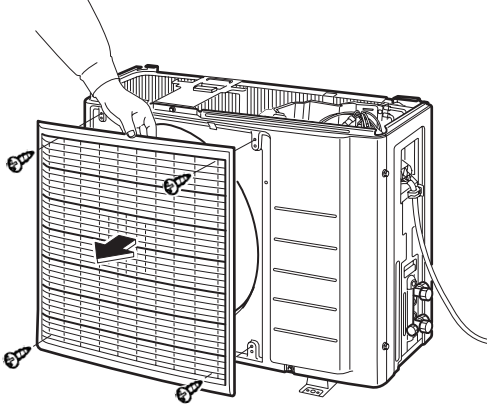
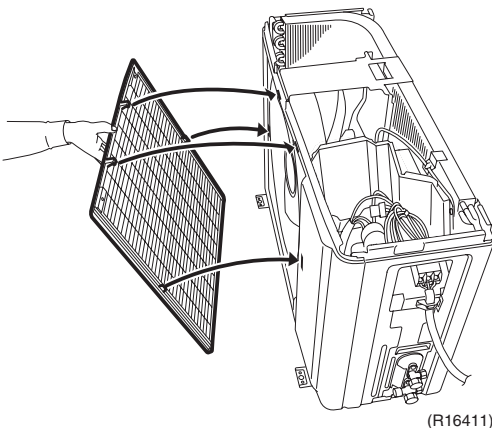
1. Removal of Outer Panels / Fan Motor

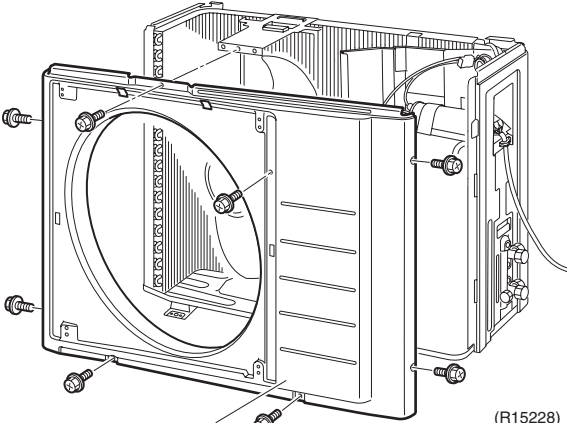
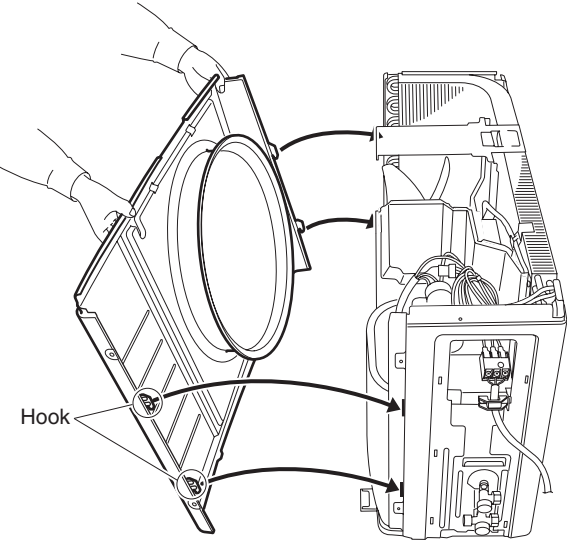
Procedure

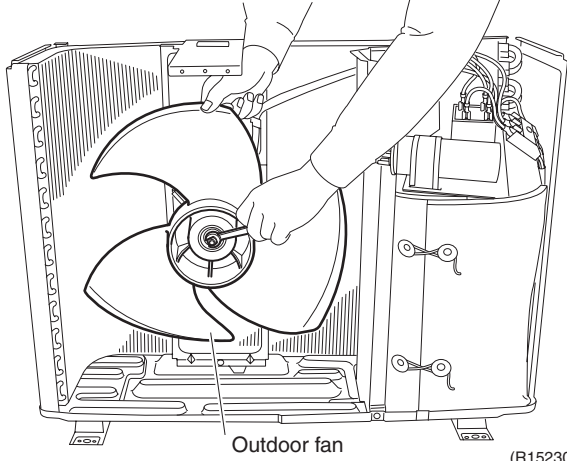
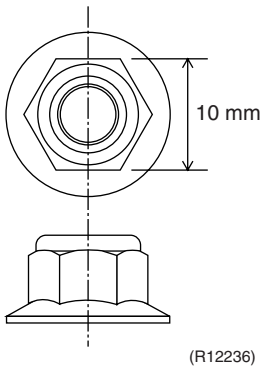
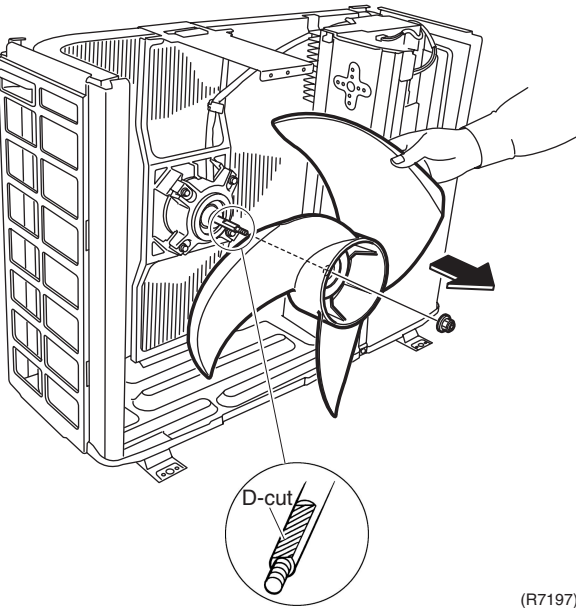
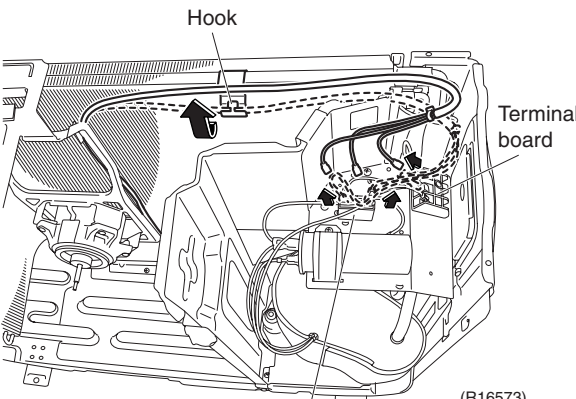
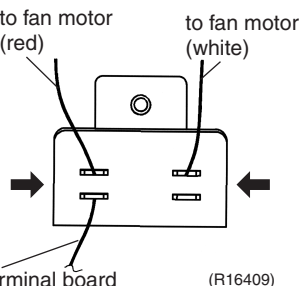
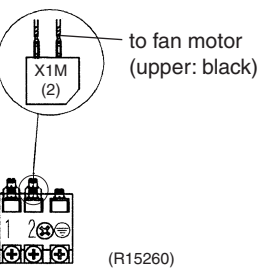


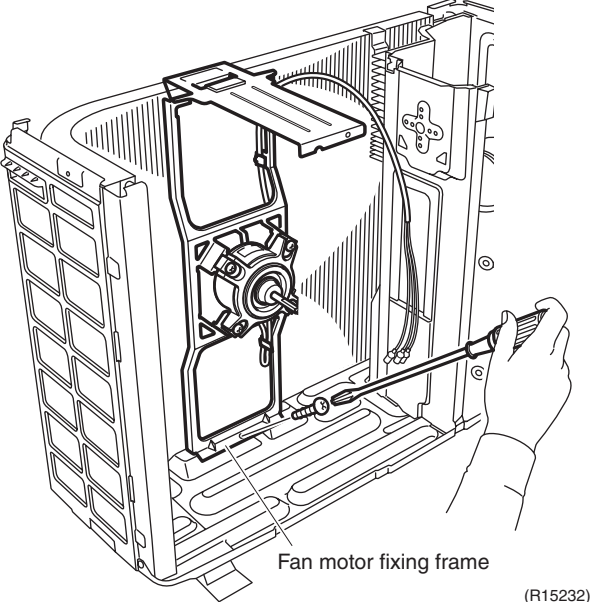
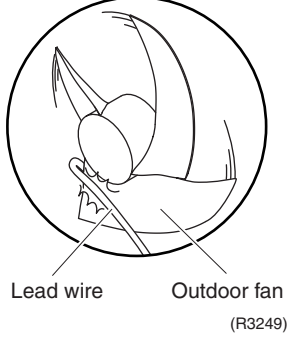
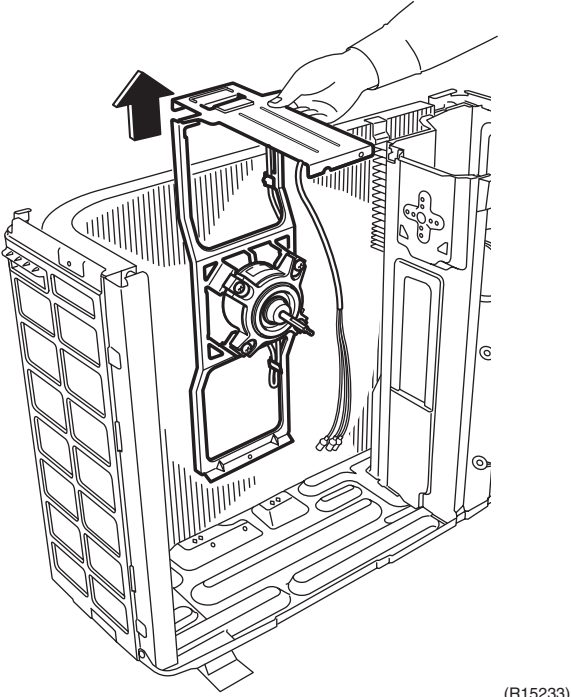
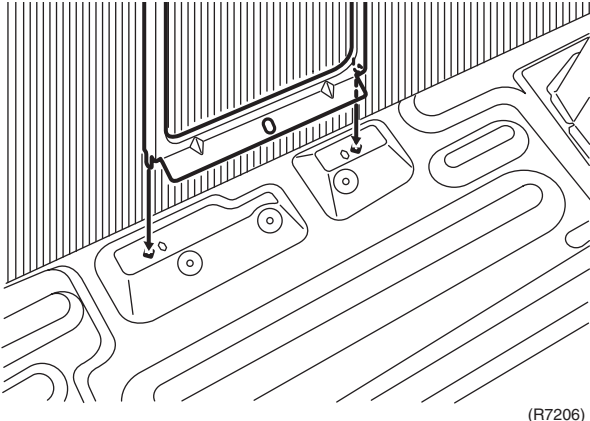
Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

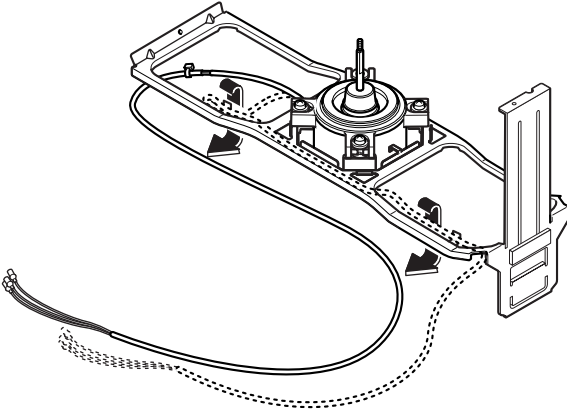
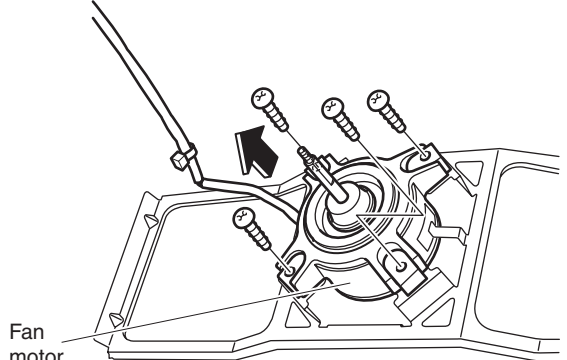
Step	Procedure	Points
<p>1. Appearance features</p>	<p>(R15226)</p> <p>(R16332)</p>	<ul style="list-style-type: none"> Take care not to cut your finger by the fins of the outdoor heat exchanger.
<p>2. Remove the panels.</p> <p>1 Remove the screw of the stop valve cover. Pull down the stop valve cover and remove it.</p>	<p>Stop valve cover</p> <p>Shield plate</p> <p>Hook</p> <p>(R7188)</p> <p>(R15256)</p>	<ul style="list-style-type: none"> The stop valve cover is united with the shield plate. When reassembling, make sure to fit the 5 hooks.

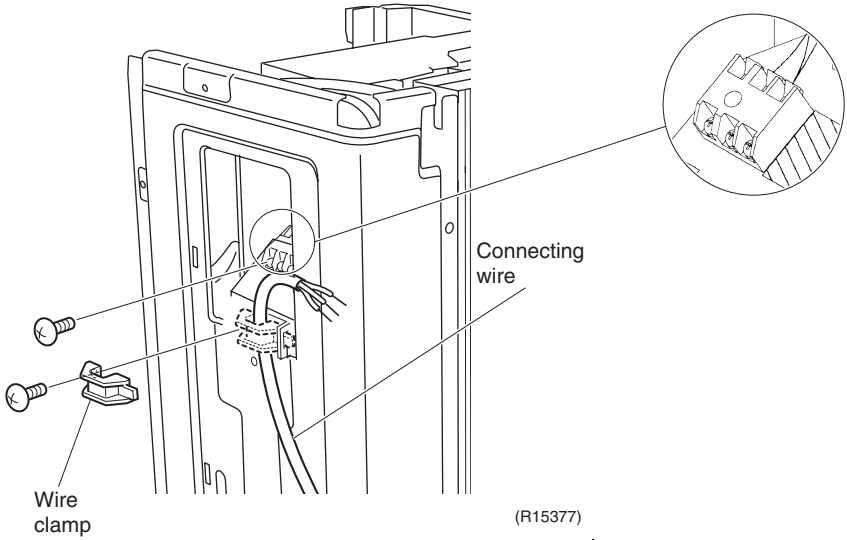
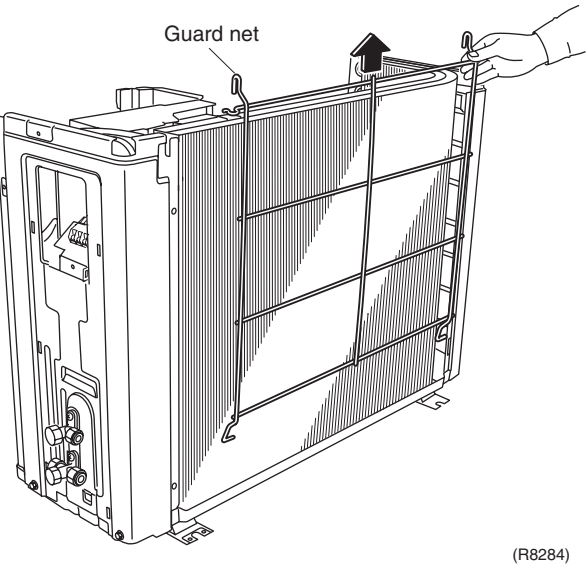
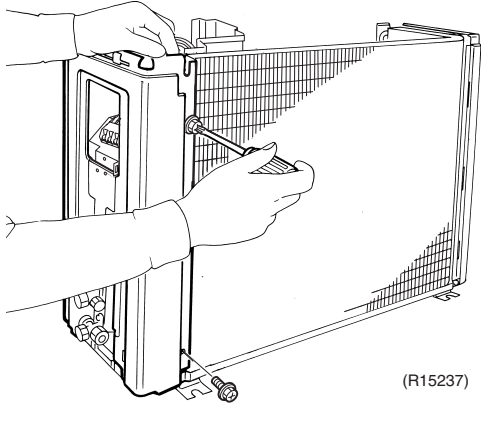
Step	Procedure	Points
2	<p>Remove the 3 screws and remove the top panel.</p> 	
3	<p>Remove the 4 screws and remove the discharge grille.</p>  	<p>■ The discharge grille has 4 hooks.</p>

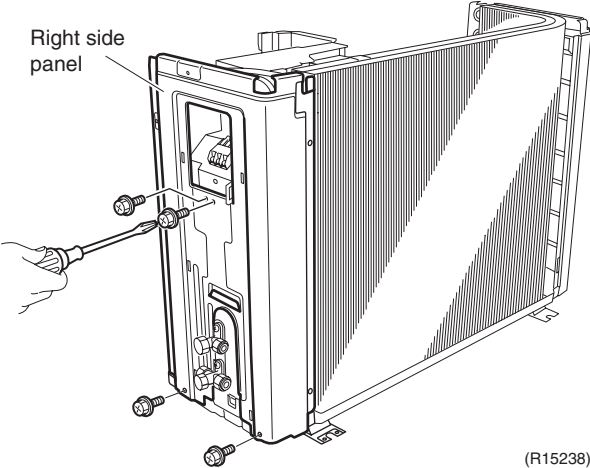
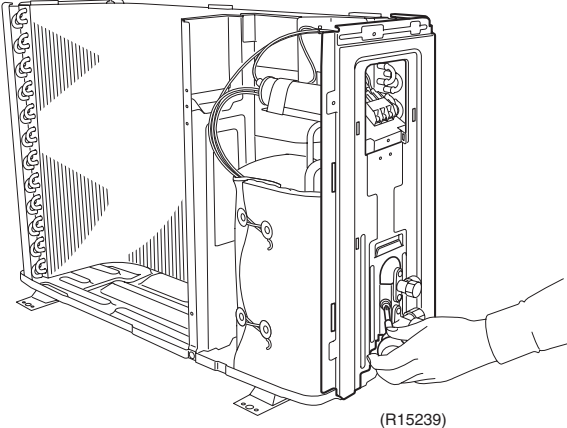
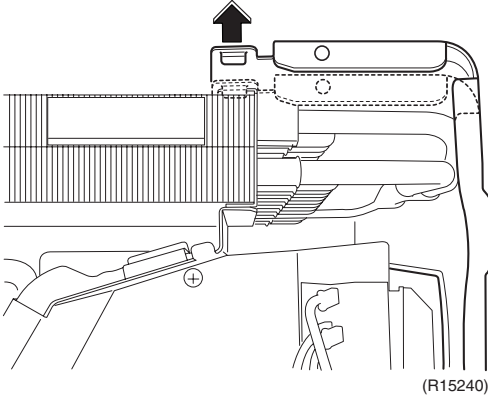
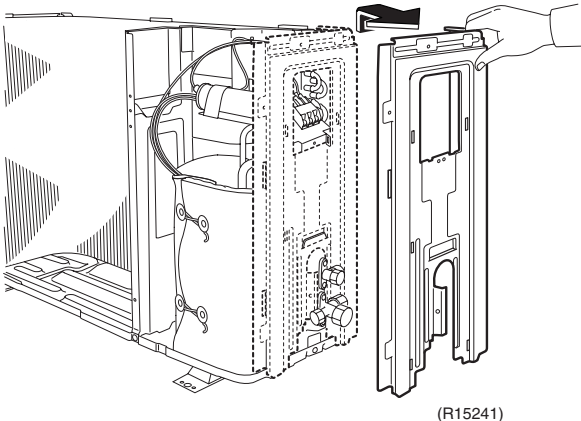
Step	Procedure	Points
4	Remove the 8 screws and remove the front panel.	
	 <p style="text-align: right;">(R15228)</p>	
5	Unfasten the hooks. Pull and remove the front panel.	<ul style="list-style-type: none"> ■ The front panel has 4 hooks.
	 <p style="text-align: right;">(R16412)</p>	

Step	Procedure	Points
3. Remove the fan motor.		
1 Remove the nut of the outdoor fan.	 <p>Outdoor fan (R15230)</p>	<ul style="list-style-type: none"> ■ Nut size: M6  <p>10 mm</p> <p>(R12236)</p>
2 Remove the outdoor fan.	 <p>D-cut</p> <p>(R7197)</p>	<ul style="list-style-type: none"> ■ Align the ▼ mark of the outdoor fan with the D-cut section of the motor shaft when reassembling.
3 Pull out the 2 terminals (red, white) from the fan capacitor (C2R).	 <p>Hook</p> <p>Terminal board</p> <p>Fan capacitor (R16573)</p>	<ul style="list-style-type: none"> ■ Fan capacitor (C2R)  <p>to fan motor (red)</p> <p>to fan motor (white)</p> <p>to terminal board X1M(1): red</p> <p>(R16409)</p>
4 Pull out the terminal (black) from the terminal board X1M (2).		
5 Release the fan motor lead wire from the hook.		
		<ul style="list-style-type: none"> ■ Terminal board (X1M)  <p>to fan motor (upper: black)</p> <p>(R15260)</p>

Step	Procedure	Points
6	Remove the screw and remove the fan motor fixing frame.	<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.
	 <p>Fan motor fixing frame (R15232)</p>	 <p>Lead wire Outdoor fan (R3249)</p>
	 <p>(R15233)</p>	
	 <p>(R7206)</p>	<ul style="list-style-type: none"> When reassembling, fit the lower hooks into the bottom frame.

Step	Procedure	Points
7	Release the fan motor lead wire from the hooks.	
	 <p>(R15234)</p>	
8	Remove the 4 screws and remove the fan motor.	
	 <p>Fan motor</p> <p>(R15235)</p>	

Step	Procedure	Points
4. Remove the right side panel.	 <p>Connecting wire</p> <p>Wire clamp</p> <p>(R15377)</p>	
3. Lift up and remove the guard net.	 <p>Guard net</p> <p>(R8284)</p>	
4. Remove the 2 screws on the rear side.	 <p>(R15237)</p>	

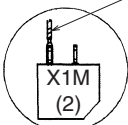
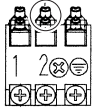
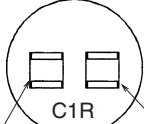
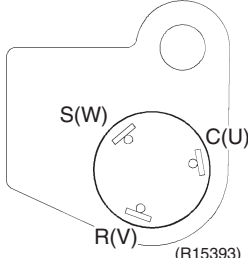
Step	Procedure	Points
5	Remove the 4 screws on the right side.	
	 <p>Right side panel</p> <p>(R15238)</p>	
6	Remove the screw near the connection port.	
	 <p>(R15239)</p>	
7	Unfasten the hook of the right side panel.	<p>■ When reassembling, make sure to fit the hook.</p>
	 <p>(R15240)</p>	
8	Remove the right side panel.	
	 <p>(R15241)</p>	

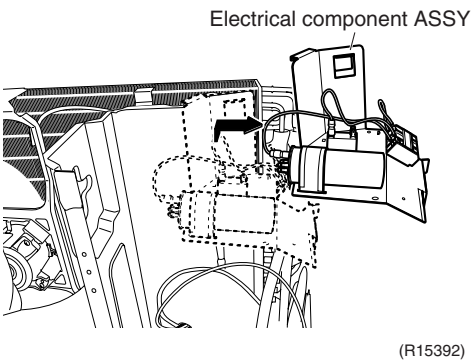
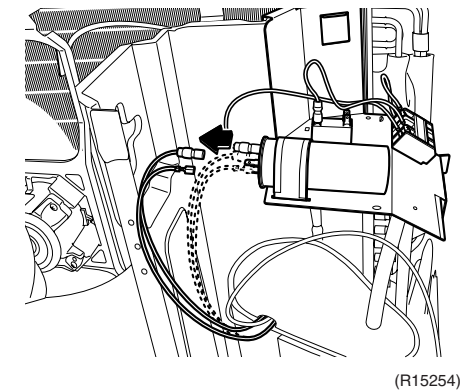
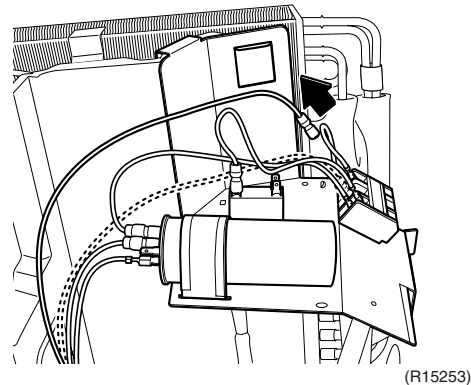
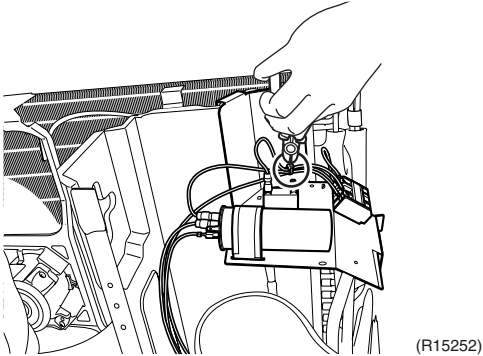
2. Removal of Electrical Component ASSY

Procedure



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

Step	Procedure	Points
1	Cut the clamp.	
2	Pull out the terminal (blue) from the terminal board X1M (2).	<p>■ Terminal board (X1M)</p>   <p>(R17652)</p>
3	Pull out the 2 terminals (red, yellow) from the compressor capacitor (C1R).	<p>■ Compressor capacitor (C1R)</p>  <p>(R17651)</p>
4	Remove the electrical component ASSY.	<p>■ Compressor lead wire</p>  <p>(R15393)</p> <p>S(W) : yellow C(U) : blue R(V) : red</p>

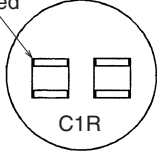
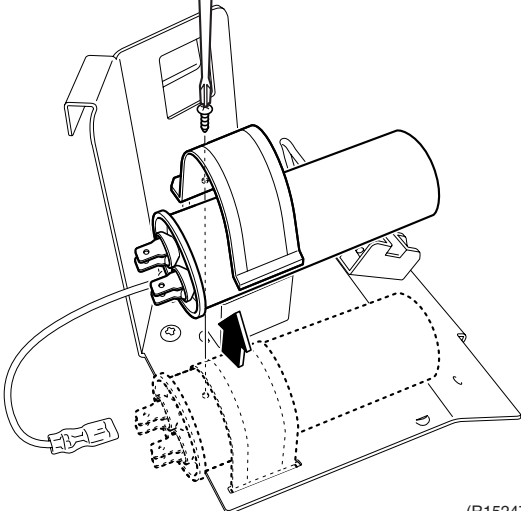


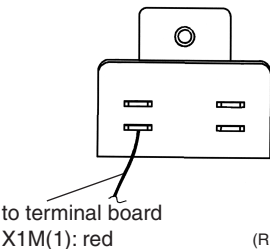
3. Removal of Electrical Components

Procedure



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

Step	Procedure	Points
1	Pull out the remaining terminal (red) from the compressor capacitor (C1R).	<p>■ Compressor capacitor</p> <p>to terminal board X1M(1): red</p>  <p>(R15263)</p>
2	Remove the screw of the capacitor fixing band and remove the compressor capacitor.	(R15246)
	 <p>(R15247)</p>	

Step	Procedure	Points
3	Pull out the remaining terminal (red) from the fan capacitor.	<p>■ Fan capacitor (C2R)</p> 
4	Remove the screw and remove the fan capacitor.	(R15249)
5	Remove the screw and release the earth wire.	(R16413)
6	Remove the screw and remove the terminal board.	Earth wire
	(R17484)	

4. Removal of Sound Blankets

Procedure



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). 2 Untie the 2 strings and open the sound blanket (body).	<p>(R15242)</p>	Preparation <ul style="list-style-type: none"> ■ Remove the outer panels according to the "Removal of Outer Panels / Fan Motor". ■ Remove the electrical components ASSY according to the "Removal of Electrical Components ASSY".
3	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.
	<p>(R15243)</p>	

5. Removal of Capillary Tube (Pattern 1)

Procedure



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

Step	Procedure	Points
<ul style="list-style-type: none"> ■ 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. 		<p>Warning Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.</p> <p>Warning If the refrigerant gas leaks during work, ventilate the room. (If the refrigerant gas is exposed to flames, toxic gas may be generated.)</p> <p>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.</p> <p>Cautions for restoration</p> <ol style="list-style-type: none"> 1. Restore the piping by non-oxidation brazing. 2. Avoid excessive heating. (Keep below 120°C)
<p>1 Remove the putty. Heat up the 2 brazed parts and remove the capillary tube.</p>		
<p>Note:</p> <ul style="list-style-type: none"> ■ 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 heat exchanger fin. 		

6. Removal of Capillary Tube (Pattern 2)

Procedure



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

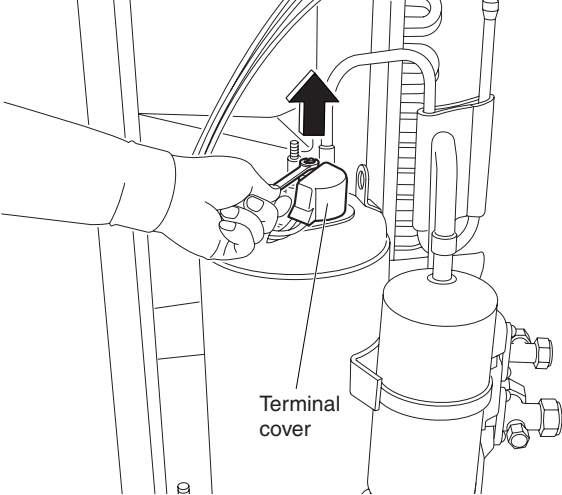
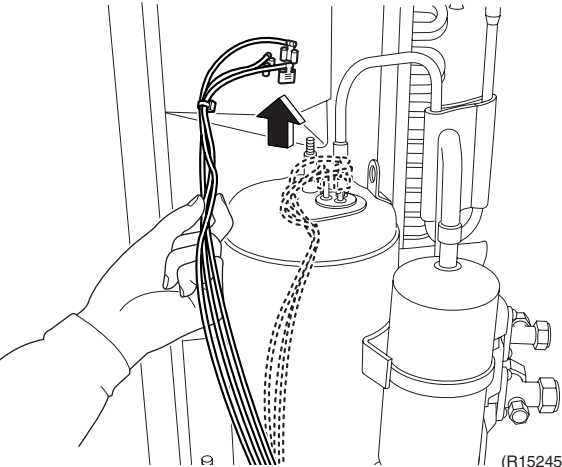
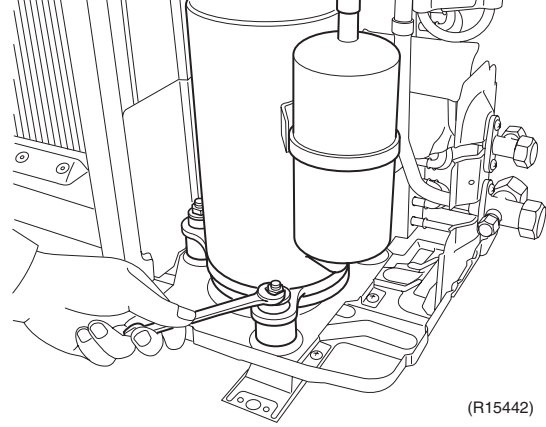
Step	Procedure	Points
<ul style="list-style-type: none"> ■ Before working, make sure that the refrigerant gas is empty in the circuit. ■ Be sure to apply nitrogen replacement when heating up the brazed part. 	<p style="text-align: right;">(R15460)</p>	<p>Warning Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.</p> <p>Warning If the refrigerant gas leaks during work, ventilate the room. (If the refrigerant gas is exposed to flames, toxic gas may be generated.)</p> <p>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.</p>
<p>1 Remove the putty. Heat up the 2 brazed parts and remove the capillary tube.</p>	<p style="text-align: right;">(R15461)</p>	<p>Cautions for restoration</p> <ol style="list-style-type: none"> 1. Restore the piping by non-oxidation brazing. 2. Avoid excessive heating. (Keep below 120°C)
<p>Note:</p> <ul style="list-style-type: none"> ■ 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 heat exchanger fin. 	<p style="text-align: right;">(R15490)</p>	<p>In case of difficulty with gas brazing machine</p> <ol style="list-style-type: none"> 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.

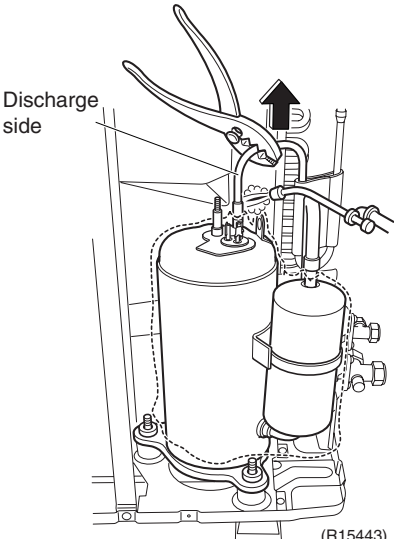
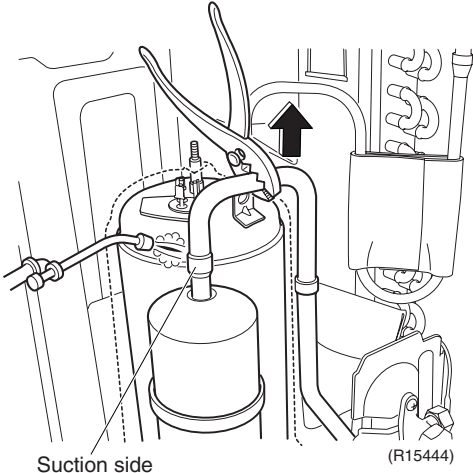
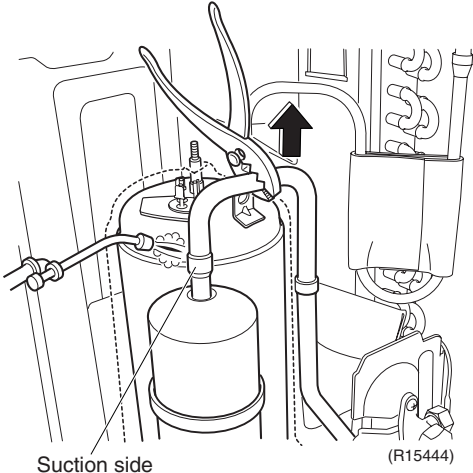
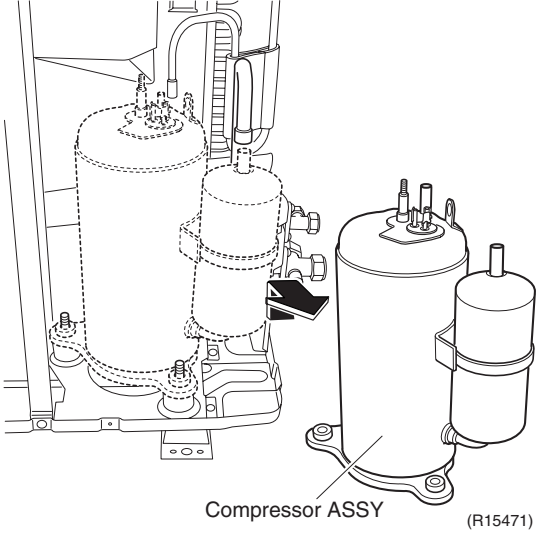
7. Removal of Compressor ASSY

Procedure



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 nut and remove the terminal cover.	 <p>(R15244)</p>
2	Disconnect the compressor lead wires.	 <p>(R15245)</p> <p>S(W) : yellow C(U) : blue R(V) : red</p> <p>(R15393)</p>
3	Remove the 3 nuts of the compressor.	 <p>(R15442)</p>

Step	Procedure	Points
<ul style="list-style-type: none"> ■ 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. 	 <p style="text-align: center;">(R15443)</p>	<p>Warning Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.</p>
<p>4 Heat up the brazed part of the discharge side and disconnect.</p>	 <p style="text-align: center;">(R15444)</p>	<p>Warning If the refrigerant gas leaks during work, ventilate the room. (If the refrigerant gas is exposed to flames, toxic gas may be generated.)</p>
<p>5 Heat up the brazed part of the suction side and disconnect.</p>	 <p style="text-align: center;">(R15444)</p>	<p>Warning Since it may happen that the refrigerant oil in the compressor catches fire, prepare wet cloth so as to extinguish fire immediately.</p>
<p>6 Lift the compressor ASSY up and remove it.</p>	 <p style="text-align: center;">(R15471)</p>	<p>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.</p>
<p>Note:</p> <ul style="list-style-type: none"> ■ 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 heat exchanger fin. 	<p>Cautions for restoration</p> <ol style="list-style-type: none"> 1. Restore the piping by non-oxidation brazing. 2. Avoid excessive heating. (Keep below 120°C) <p>In case of difficulty with gas brazing machine</p> <ol style="list-style-type: none"> 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. 	

Revision History

Month / Year	Version	Revised contents
08/2012	Si011185	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

DAIKIN INDUSTRIES, LTD.

Head Office:
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,
Kita-ku, Osaka, 530-8323 Japan

Tokyo Office:
JR Shinagawa East Bldg., 2-18-1, Konan,
Minato-ku, Tokyo, 108-0075 Japan

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