




REMOVAL PROCEDURE



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

2.5/3.5 kW Class

-  Outdoor Unit
-  Non-Inverter
-  Pair Type



Service Manual Removal Procedure

Outdoor Unit

Applicable Models

●Cooling Only

R25JV1V

RE35LV16

RE35LV169

RE35MV16

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Note:

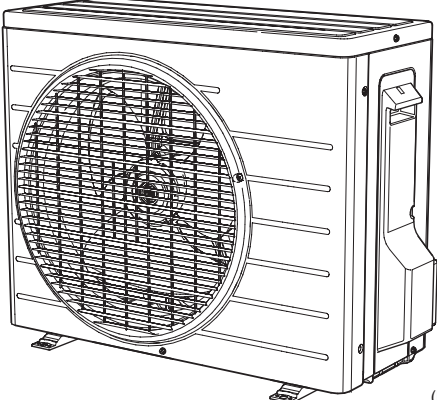
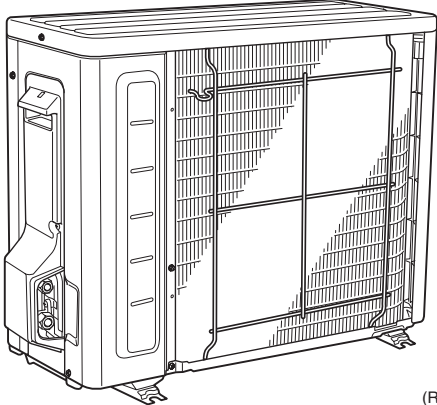
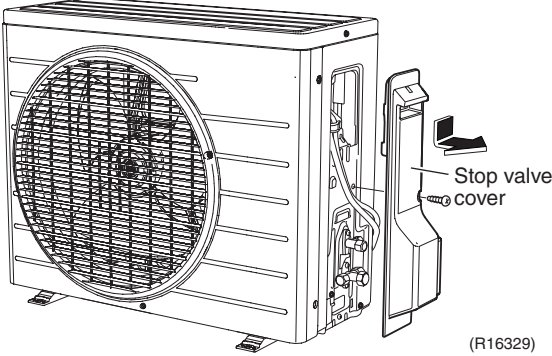
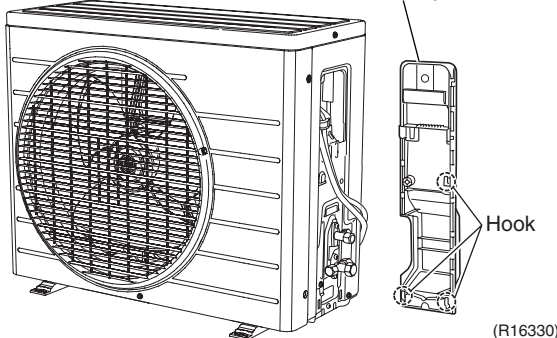
♦ The illustrations may be slightly different depending on the model.

1. Removal of Outer Panels

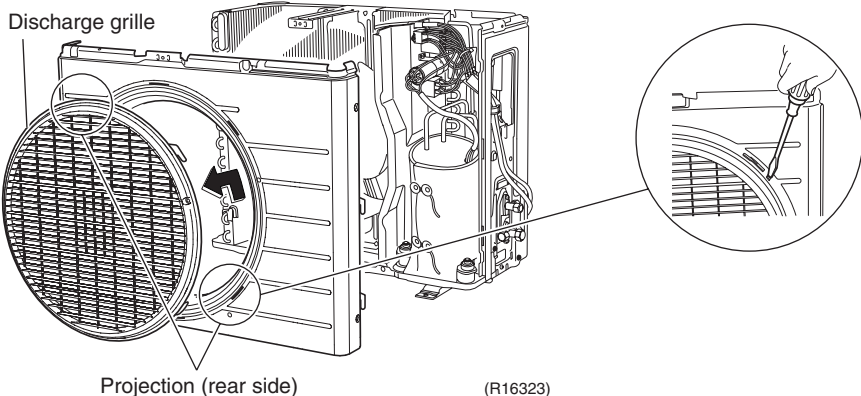
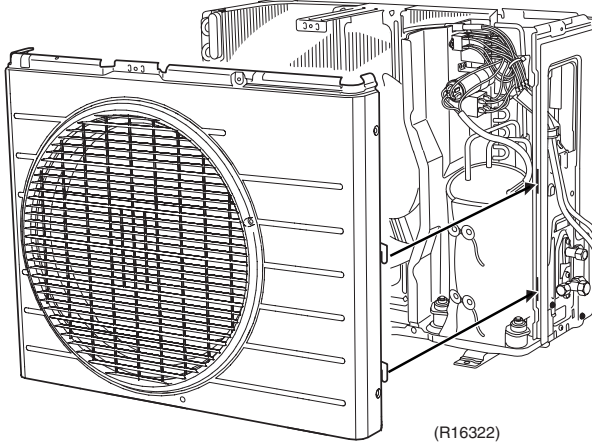
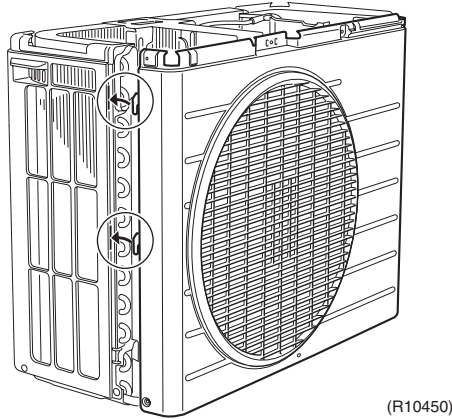
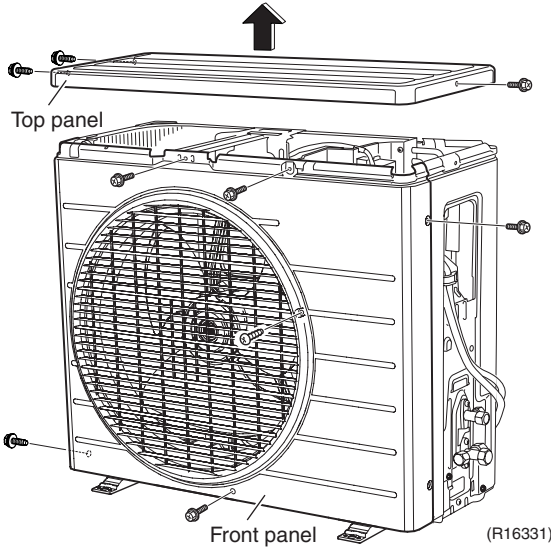
Procedure



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

Step	Appearance features	Procedure	Points
1	Appearance features	 <p>(R10742)</p>  <p>(R10743)</p>	<ul style="list-style-type: none"> Take care not to cut your finger by the fins of the outdoor heat exchanger.
2	Remove the screw of the stop valve cover. Pull down and remove the stop valve cover.	 <p>(R16329)</p> <p>Stop valve cover</p>  <p>Shield plate</p> <p>Hook</p> <p>(R16330)</p>	<ul style="list-style-type: none"> The stop valve cover is united with the shield plate. When reassembling, make sure to fit the 3 hooks.

Step	Procedure	Points
3	Remove the 3 screws (left: 2 screws, right: 1 screw) and lift the top panel from the rear side at first.	
4	Remove the 6 screws of the front panel.	
5	Lift up the left side and unfasten the hooks.	
6	Release the right side hooks and remove the front panel.	
7	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.	

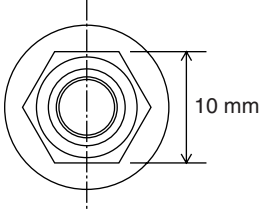
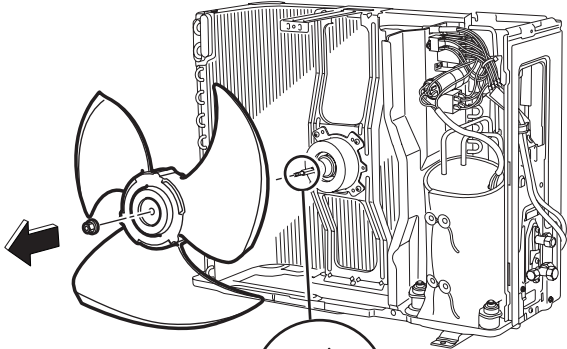

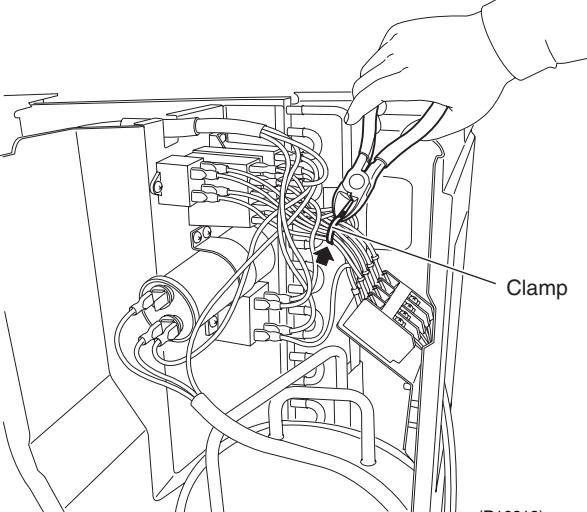


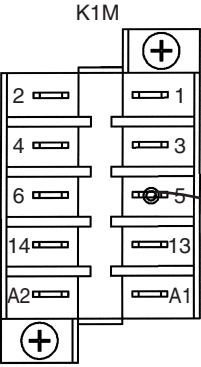
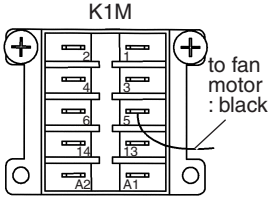
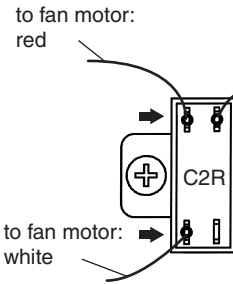
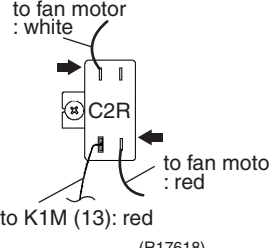
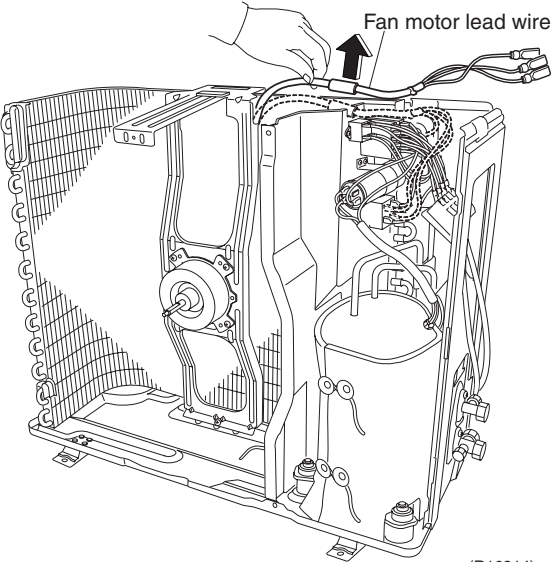
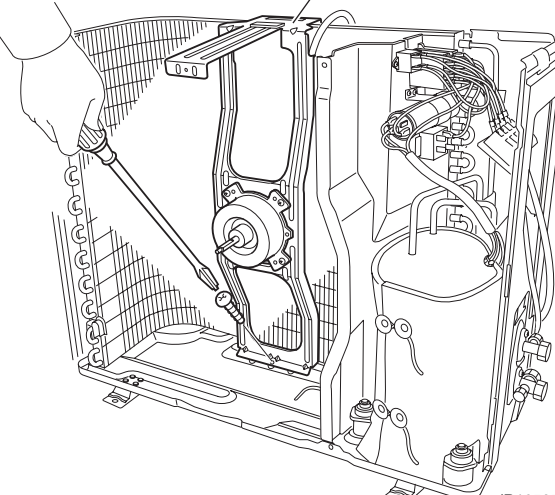
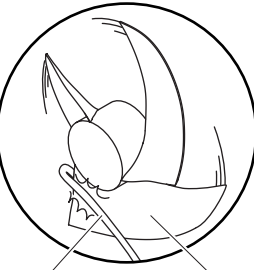
2. Removal of Outdoor Fan / Fan Motor

Procedure

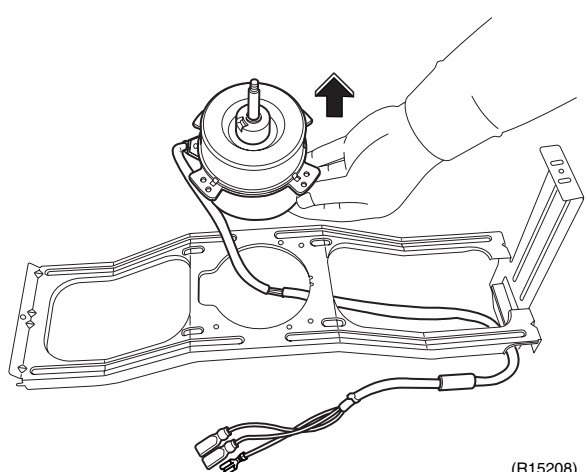
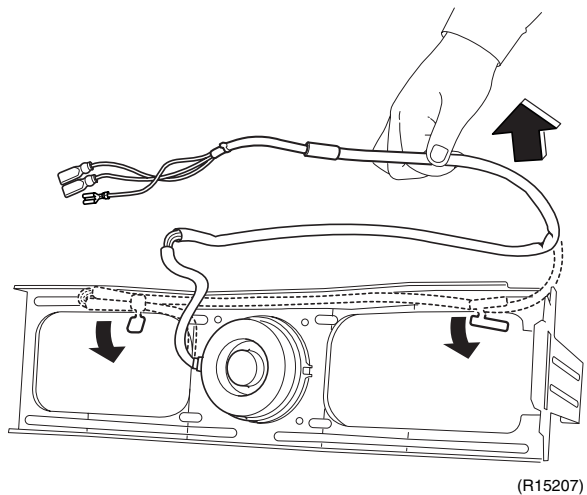
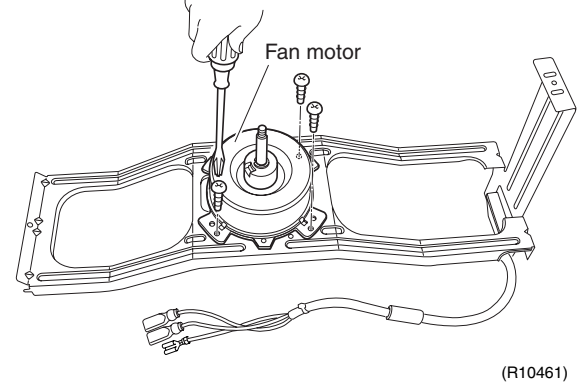
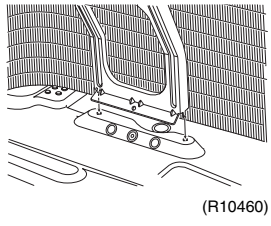
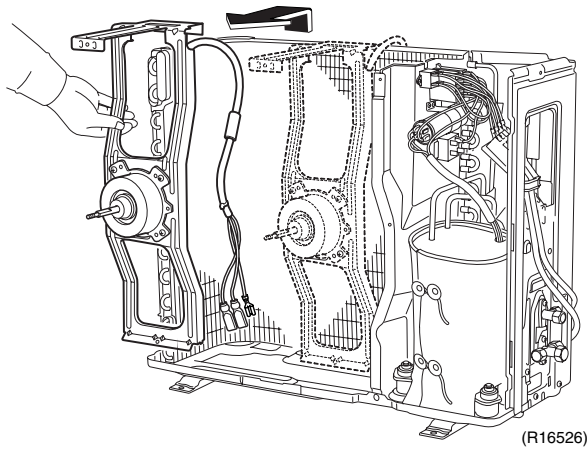


Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1	Remove the nut of the outdoor fan.	<ul style="list-style-type: none"> ■ Nut size: M6  <p style="text-align: right; margin-right: 50px;">(R17447)</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.
2	Remove the outdoor fan.	 <div style="text-align: center; margin-top: 10px;">  <p>(R16324)</p> </div>
3	Cut the clamp.	 <p style="text-align: right; margin-right: 50px;">(R16313)</p>

Step	Procedure	Procedure	Points
4	Pull out the terminal (black) from K1M (5).	 <p style="text-align: center;">(R16180)</p>	<p>■ The design of electrical components is slightly different by models.</p>  <p style="text-align: center;">(R17617)</p>
5	Pull out the 2 terminals (red, white) from the fan capacitor (C2R).	 <p style="text-align: center;">(R16179)</p>	 <p style="text-align: center;">(R17618)</p>
6	Release the fan motor lead wire from the groove.	 <p style="text-align: center;">(R16314)</p>	
7	Remove the screw to detach the fan motor fixing frame.	 <p style="text-align: center;">(R16525)</p>	<p>■ Put the lead wire through the back of the motor when reassembling so as not to be entangled with the outdoor fan.</p>  <p style="text-align: center;">(R3249)</p>

Step	Procedure	Points
8	Remove the fan motor fixing frame.	<ul style="list-style-type: none"> When reassembling, fit the lower hooks into the bottom frame.
9	Remove the 3 screws and remove the fan motor.	<ul style="list-style-type: none"> Screw size: M4 × 16
10	Release the harness from the hooks.	
11	Remove the fan motor.	



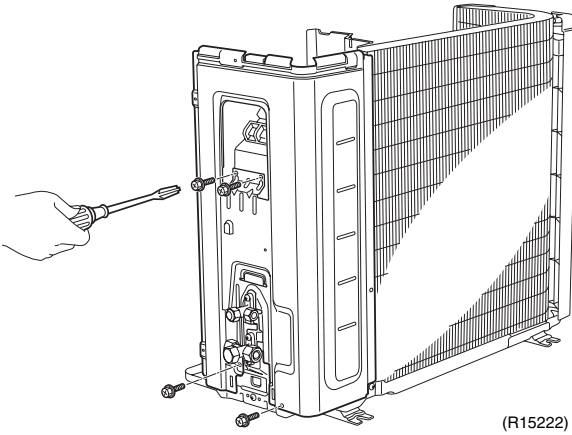
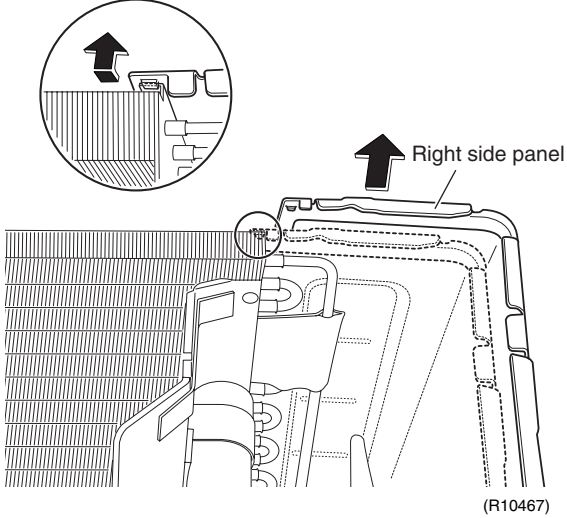
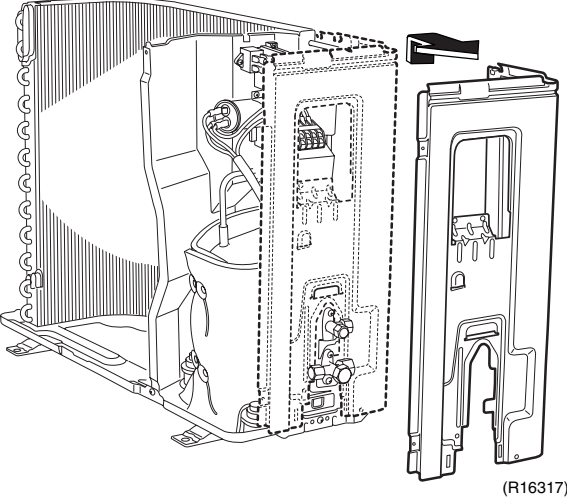
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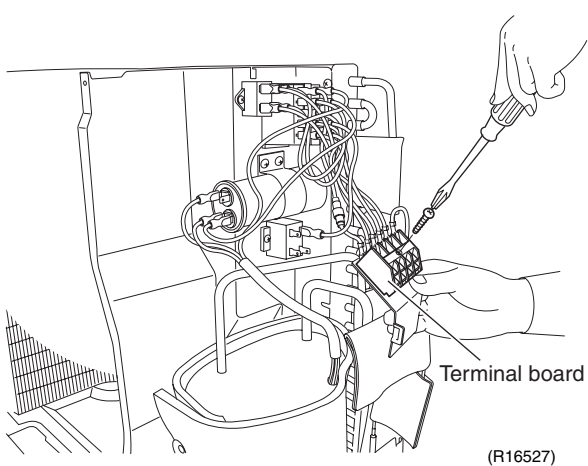
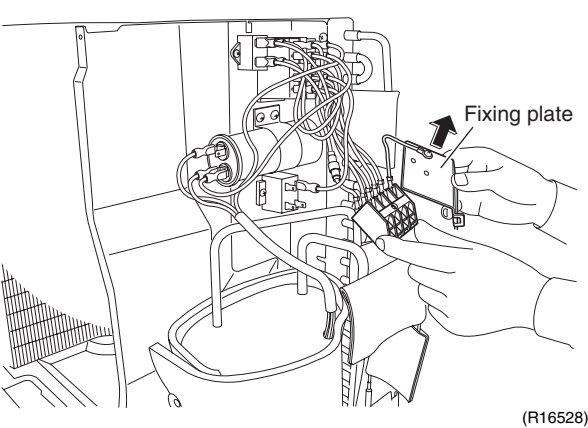
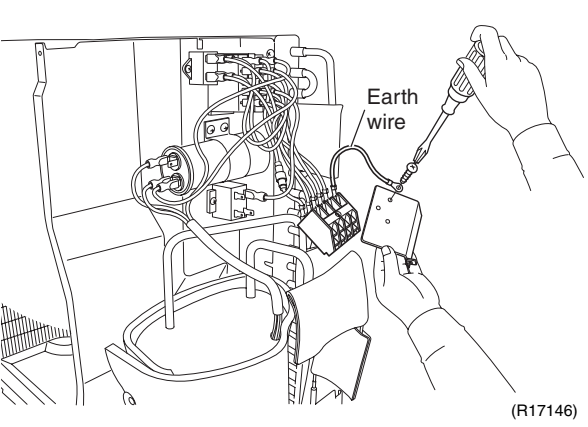
Procedure

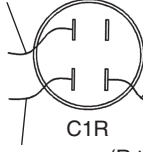
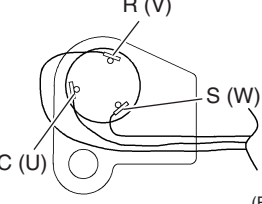
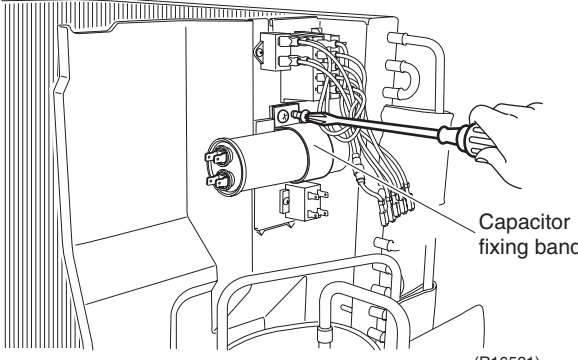
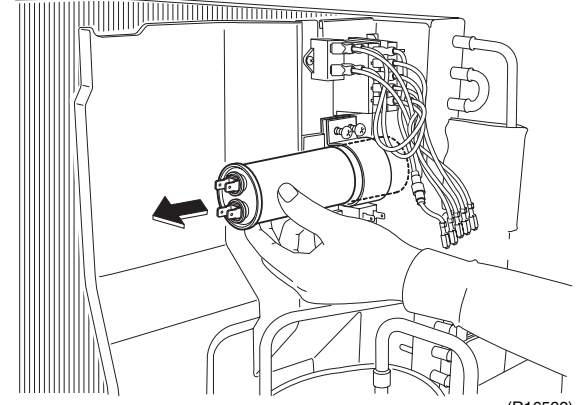


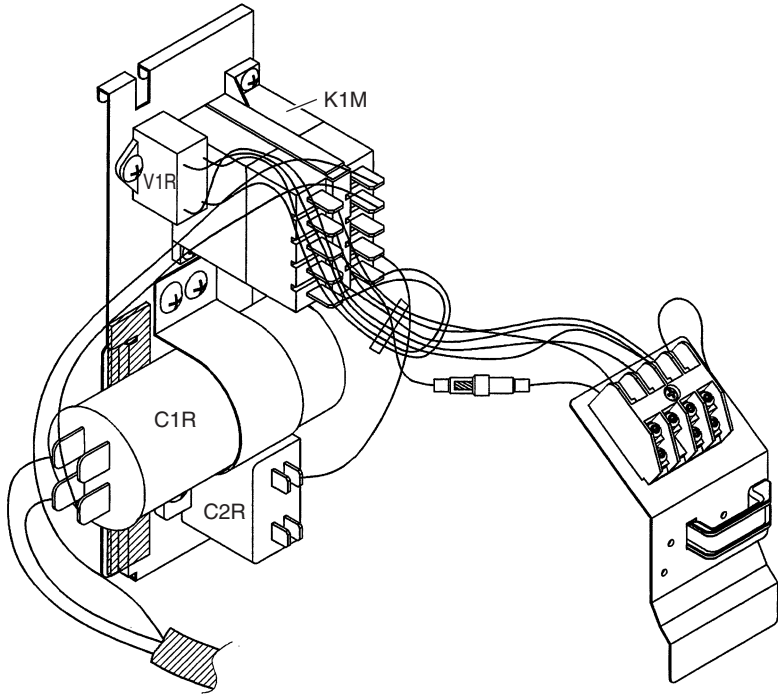
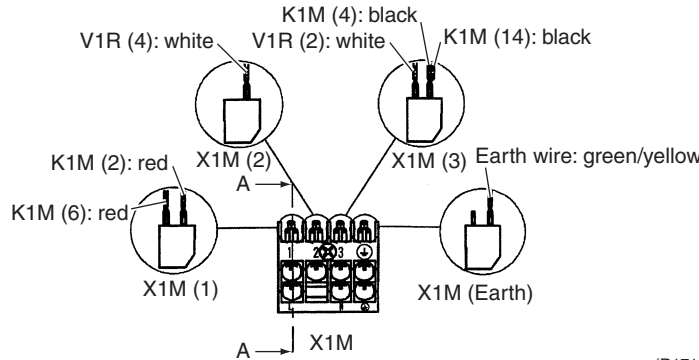
Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1	Remove the 7 screws on the terminal board and disconnect the connecting wire and the power supply wire.	
2	Remove the screw and remove the wire clamp.	
3	Remove the screw on the rear side.	
4	Lift up the guard net and remove it.	

Step	Procedure	Points
5	Remove the 4 screws on the right side.	
	 <p>(R15222)</p>	
6	Unfasten the hook of the right side panel.	<ul style="list-style-type: none"> ■ When reassembling, make sure to fit the hook.
	 <p>(R10467)</p>	
7	Remove the right side panel.	
	 <p>(R16317)</p>	

Step	Procedure	Points
8	Remove the screw of the terminal board.	
		
9	Detach the fixing plate.	
		
10	Remove the screw of the earth wire.	
		

Step	Procedure	Points
11	Pull out the 3 terminals from the compressor capacitor (C1R).	<p>■ Compressor capacitor</p> <p>to compressor (S terminal): yellow</p>  <p>to K1M (3): red</p> <p>C1R</p> <p>to compressor (R terminal): red (R17453)</p> <p>■ Compressor lead wire</p> 
12	Pull out the harnesses from the terminal board.	<p>S (W): yellow C (U): blue R (V): red</p>
13	Remove the 2 screws to loosen the capacitor fixing band.	 <p>Capacitor fixing band</p>
14	Remove the compressor capacitor.	

Step	Procedure	Points
15	<p data-bbox="199 215 454 271">Layout of the electrical components</p>   <p data-bbox="574 1220 686 1254">SECT. A-A</p>	<p data-bbox="1236 174 1316 203">Points</p> <p data-bbox="1388 1265 1460 1294">(R17147)</p>

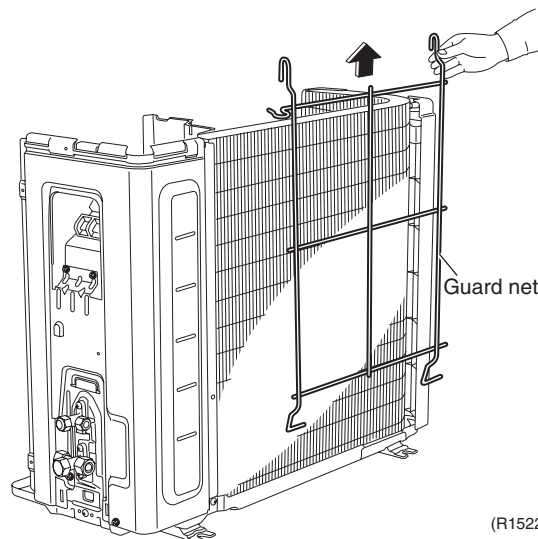
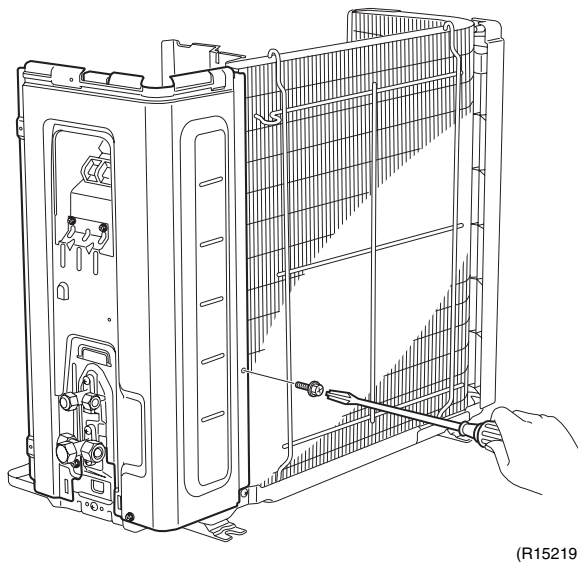
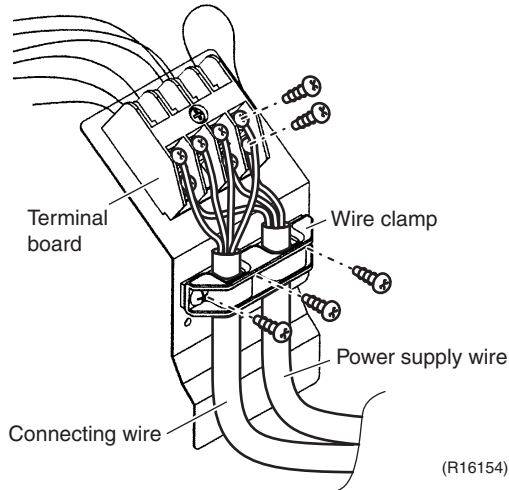
4. Removal of Electrical Components (Pattern 2)

Procedure

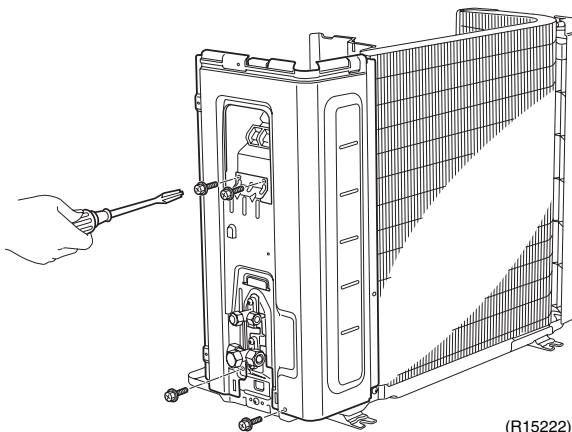


Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

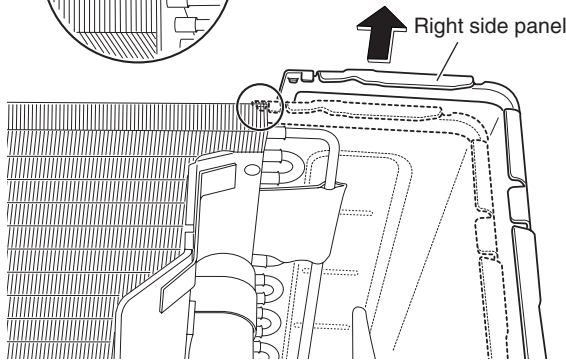
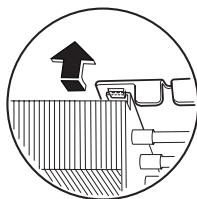
Step	Procedure	Points
1	Remove the 7 screws on the terminal board and disconnect the connecting wire and the power supply wire.	
2	Remove the 3 screws and remove the wire clamp.	
3	Remove the screw on the rear side.	
4	Lift up the guard net and remove it.	



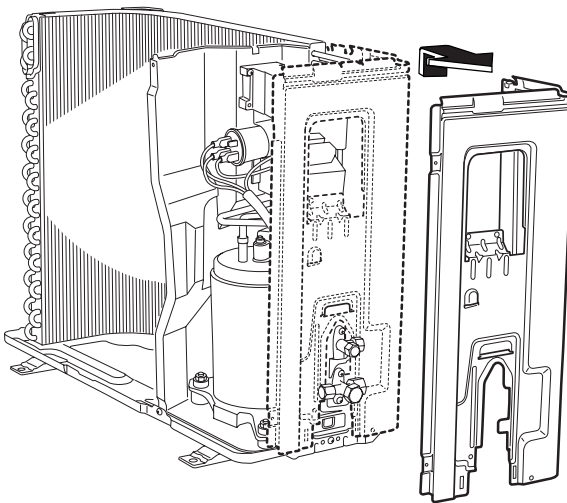
Step	Procedure	Points
5	Remove the 4 screws on the right side.	
6	Unfasten the hook of the right side panel.	<ul style="list-style-type: none"> ■ When reassembling, make sure to fit the hook.
7	Remove the right side panel.	



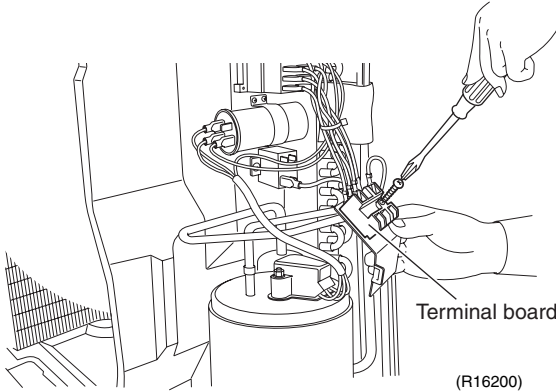
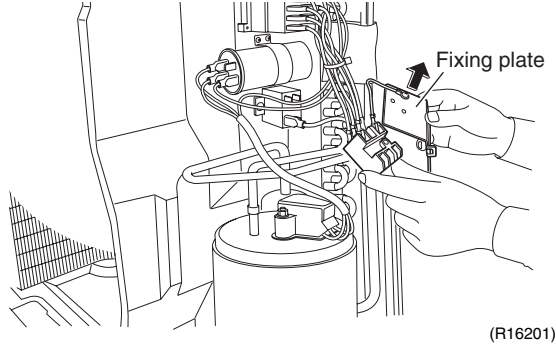
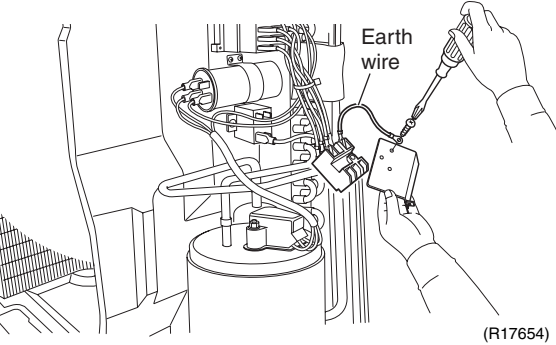
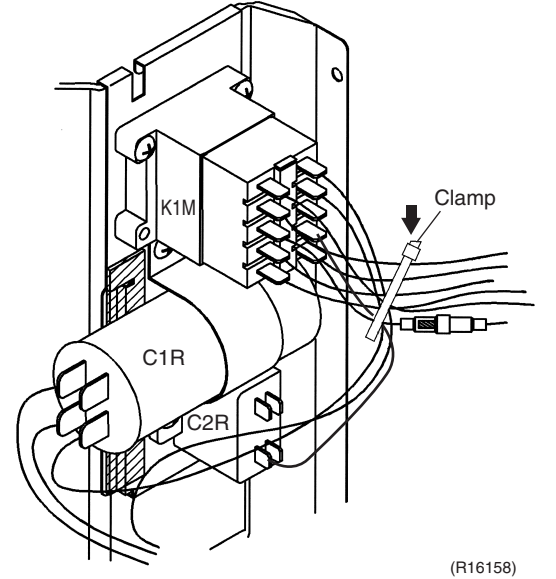
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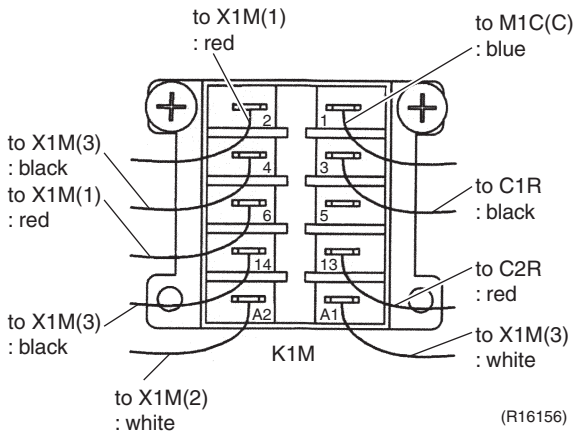
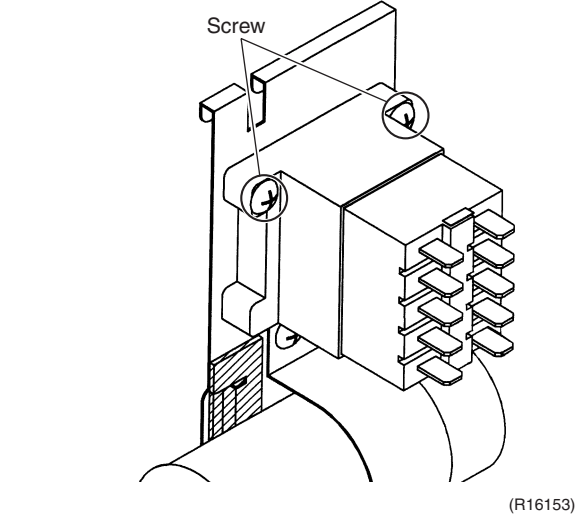
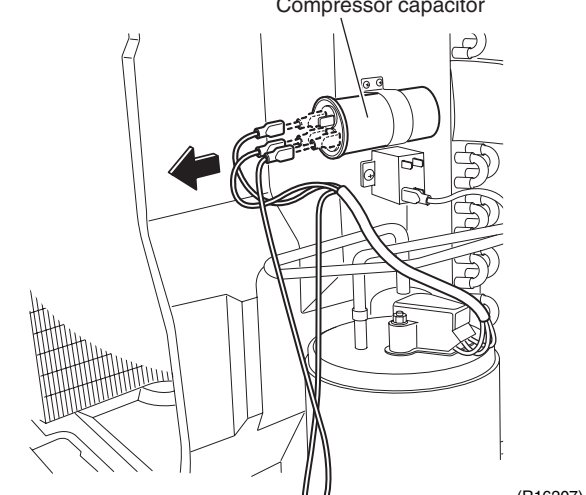
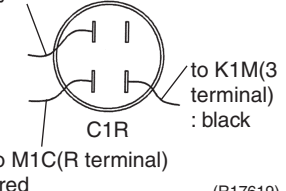
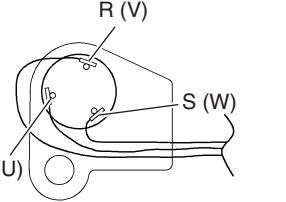


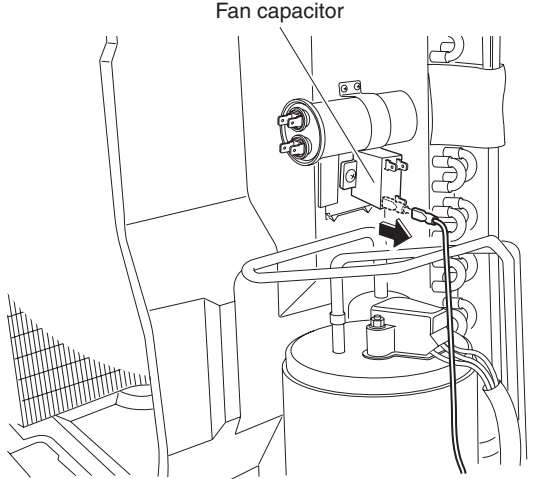
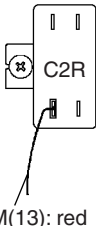
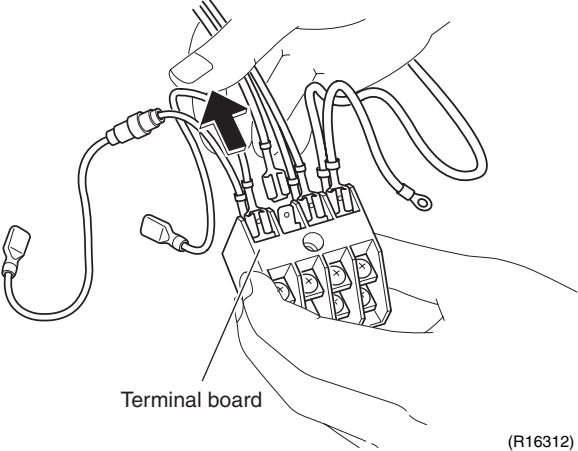
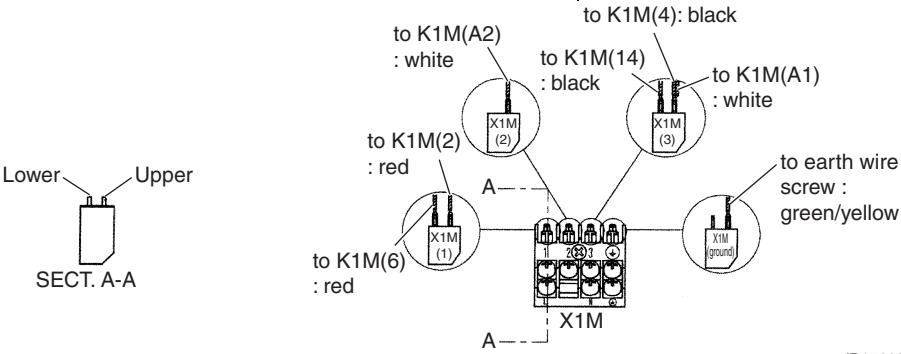
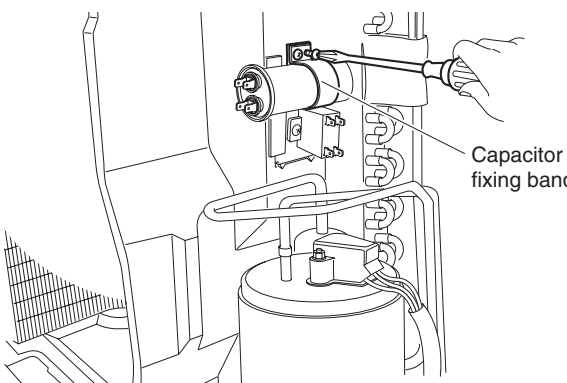
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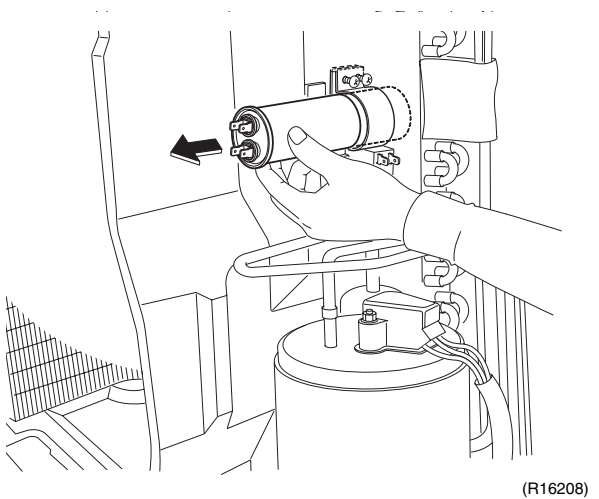


(R16199)

Step	Procedure	Points
8	Remove the screw of the terminal board.	
	 <p style="text-align: right;">Terminal board</p> <p style="text-align: right;">(R16200)</p>	
9	Detach the fixing plate.	
	 <p style="text-align: right;">Fixing plate</p> <p style="text-align: right;">(R16201)</p>	
10	Remove the screw of the earth wire.	
	 <p style="text-align: right;">Earth wire</p> <p style="text-align: right;">(R17654)</p>	
11	Cut the clamp.	
	 <p style="text-align: right;">Clamp</p> <p style="text-align: right;">(R16158)</p>	

Step		Procedure	Points
12	Pull out all the terminals from K1M.		
13	Remove the 2 screws and remove K1M.		
14	Pull out the 3 terminals from the compressor capacitor (C1R).		<p>■ Compressor capacitor</p> <p>to M1C(S terminal) : yellow</p>  <p>■ Compressor lead wire</p>  <p>S (W): yellow C (U): blue R (V): red</p>

Step	Procedure	Procedure	Points
15	Pull out the terminal (red) from the fan capacitor (C2R).	 <p style="text-align: center;">Fan capacitor</p> <p style="text-align: right;">(R16203)</p>	<p>■ Fan capacitor (C2R)</p>  <p style="text-align: center;">to K1M(13): red</p> <p style="text-align: right;">(R16157)</p>
16	Pull out the harnesses from the terminal board.	 <p style="text-align: center;">Terminal board</p> <p style="text-align: right;">(R16312)</p>  <p style="text-align: center;">Lower Upper SECT. A-A</p> <p style="text-align: center;">X1M</p> <p style="text-align: right;">(R17620)</p>	
17	Remove the 2 screws to loosen the capacitor fixing band.	 <p style="text-align: center;">Capacitor fixing band</p> <p style="text-align: right;">(R16209)</p>	

Step	Procedure	Points
18	Remove the compressor capacitor.	
		

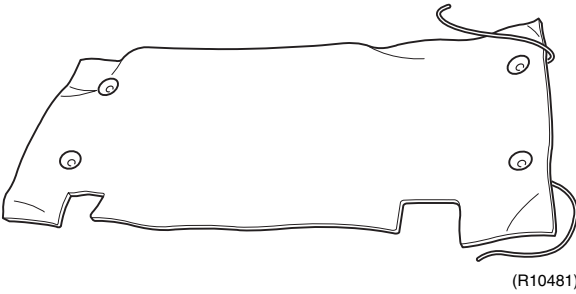
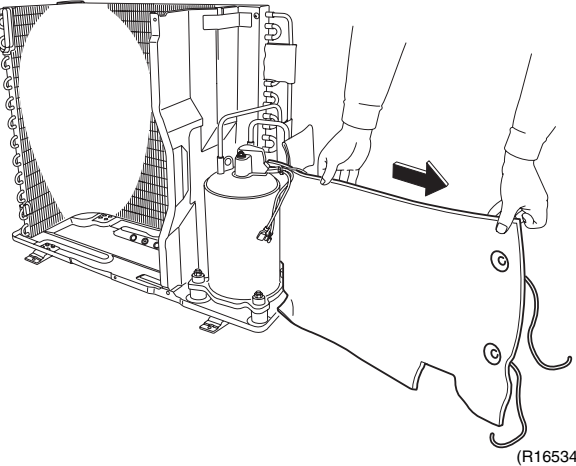
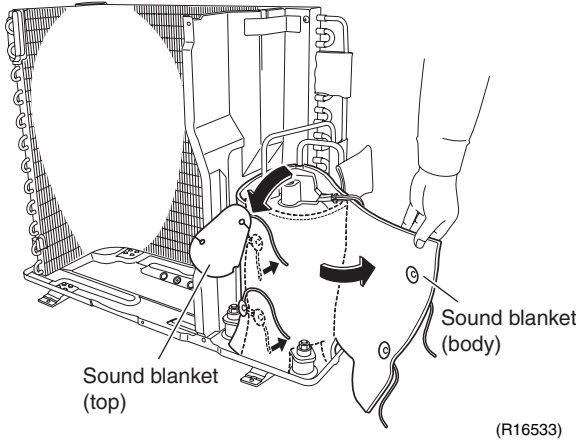
5. Removal of Sound Blankets

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).	<ul style="list-style-type: none"> Some models have no sound blanket.
2	Untie the 2 strings and open the sound blanket (body).	<p>Preparation</p> <ul style="list-style-type: none"> Remove the outer panels according to the "Removal of Outer Panels". Remove the terminal board and fixing plate according to the "Removal of Electrical Components".
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.



6. 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 style="text-align: center;">(R16177)</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: center;">(R16178)</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>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.
<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. 		

7. 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>Warning Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.</p>
<p>1 Remove the putty. Heat up the 2 brazed parts and remove the capillary tube.</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>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>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>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.

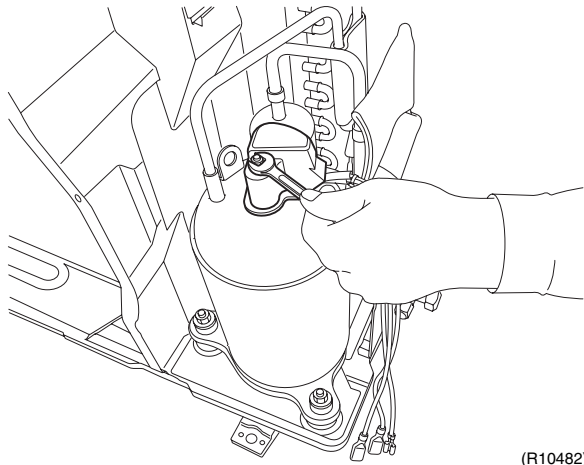
8. Removal of Compressor ASSY

Procedure

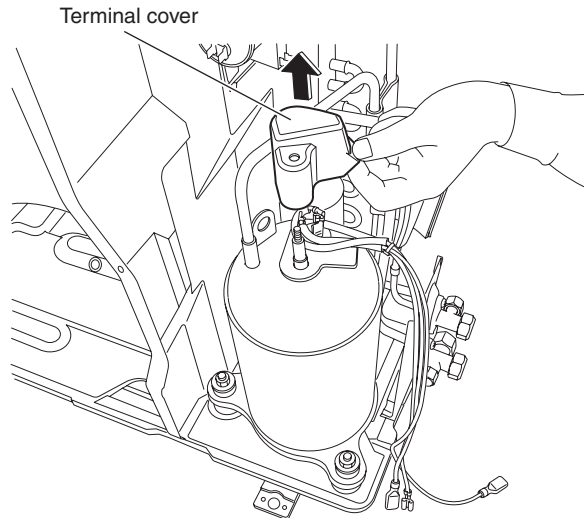


Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

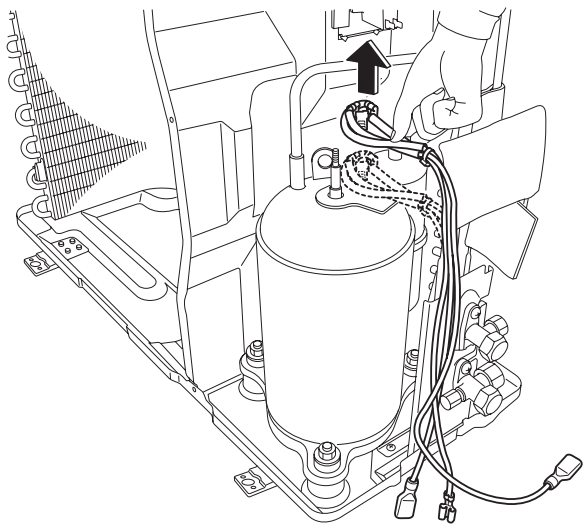
Step	Procedure	Points
1	Remove the nut.	
2	Remove the terminal cover.	
3	Disconnect the compressor lead wires.	



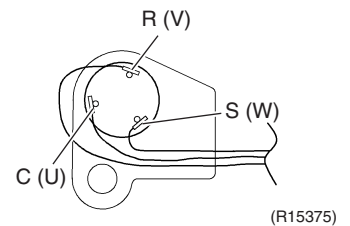
(R10482)



(R10483)

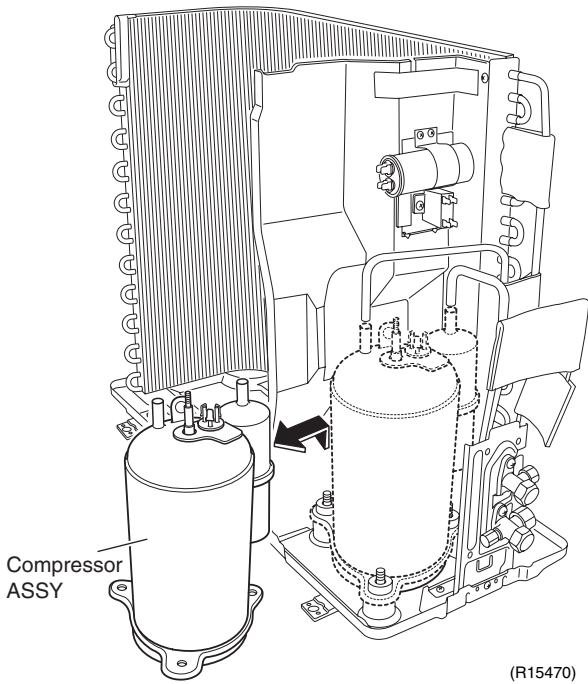
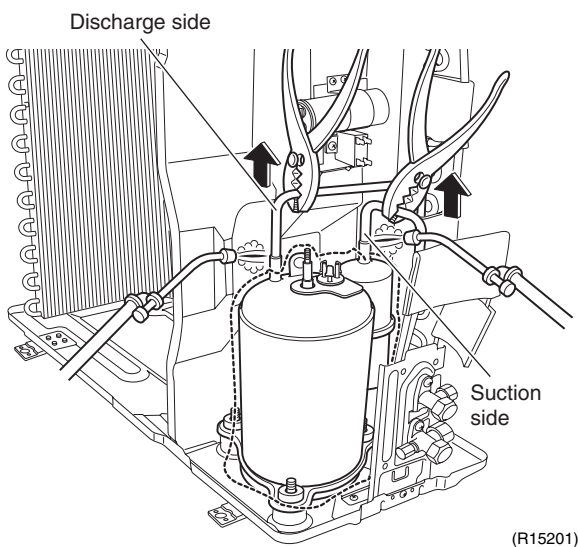
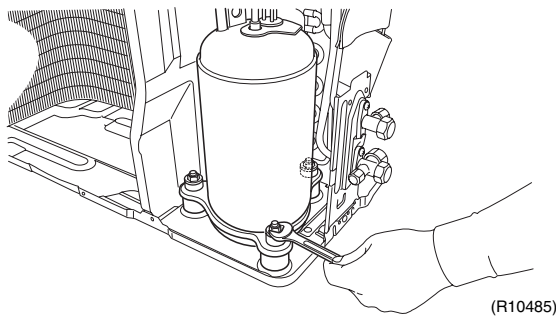


(R10484)



S (W): yellow
 C (U): blue
 R (V): red

Step	Procedure	Points
4	Remove the 3 nuts of the compressor.	<p>Warning Be careful not to get yourself burnt with the pipes and other parts that are heated by the gas brazing machine.</p>
<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 If the refrigerant gas leaks during work, ventilate the room. (If the refrigerant gas is exposed to flames, toxic gas may be generated.)</p>
5	Heat up the brazed part of the discharge side and disconnect.	<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>
6	Heat up the brazed part of the suction side and disconnect.	<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>
7	Lift the compressor ASSY up and remove it.	<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.
<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. 		



Revision History

Month / Year	Version	Revised contents
08/2012	Si011190	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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