




REMOVAL PROCEDURE



SERVICE
MANUAL

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

RN25HV1G

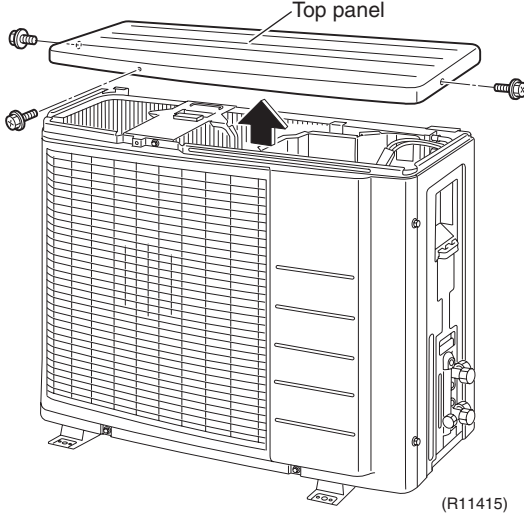
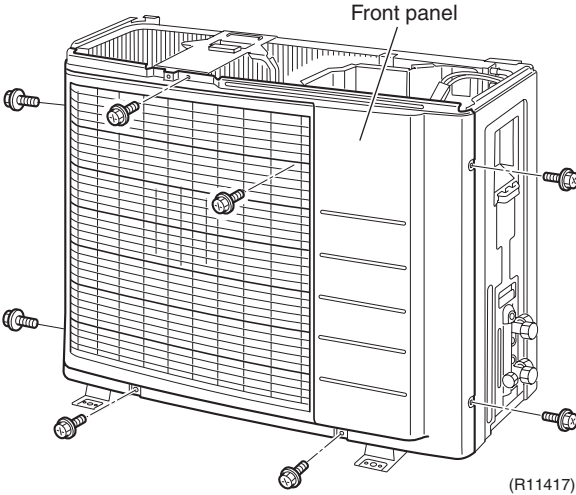
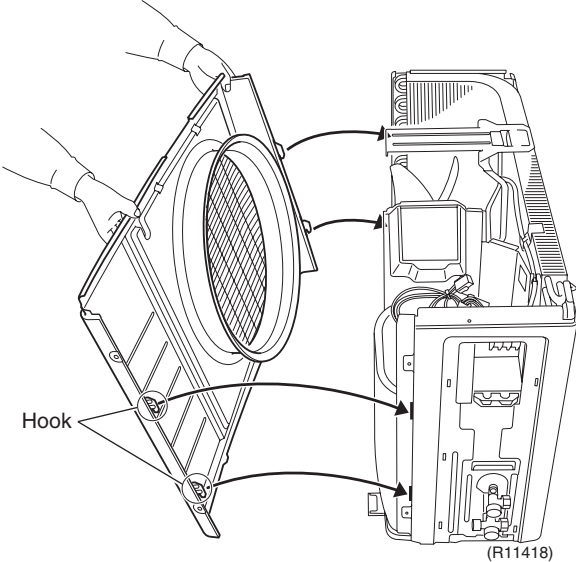
RN35HV1G

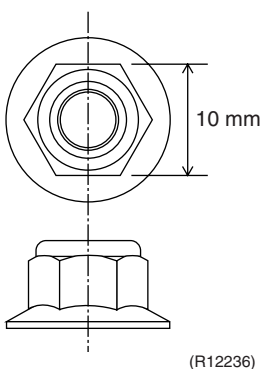
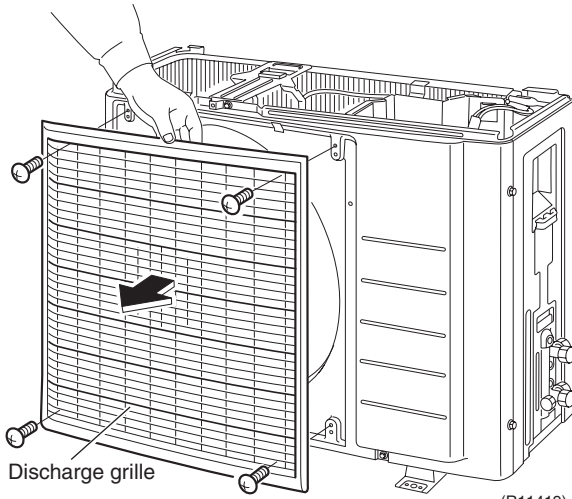
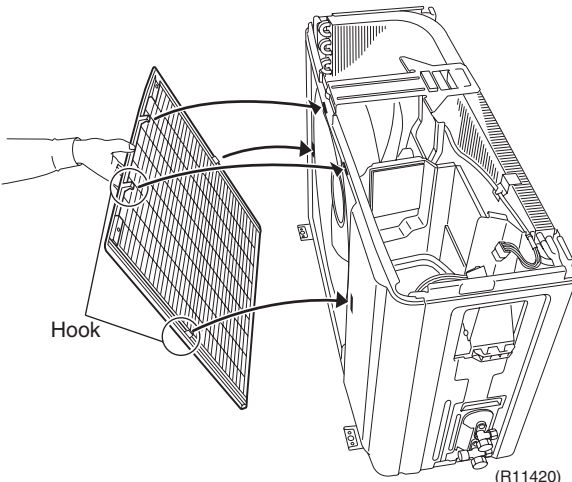
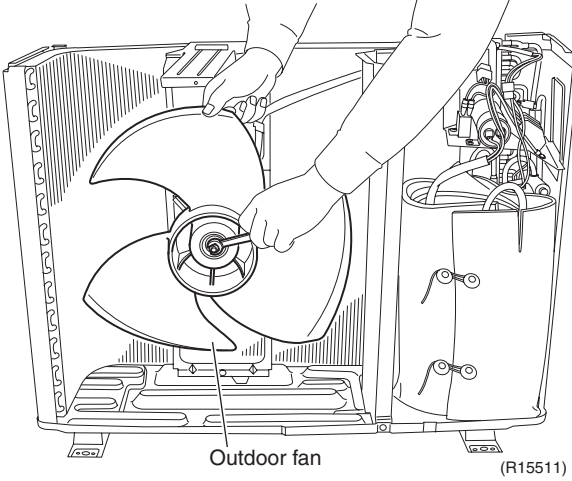
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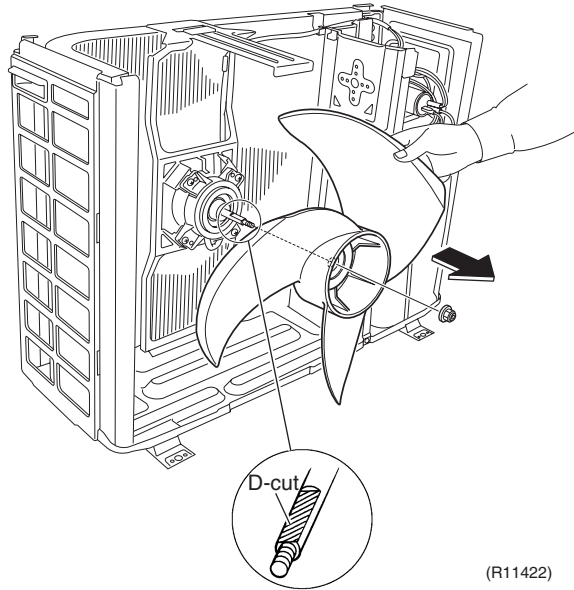


Note: ♦ The illustrations may be slightly different depending on the model.

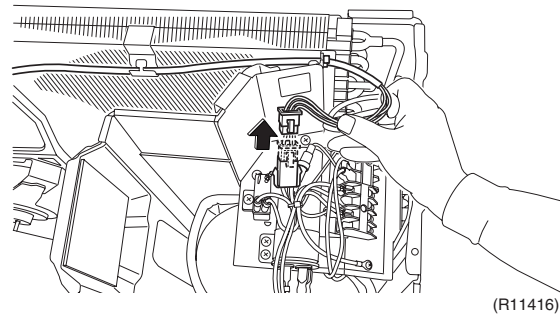
Step	Procedure	Points
2. Remove the panels.		
1	<p>Remove the 3 screws and lift the top panel.</p> 	
2	<p>Remove the 8 screws of the front panel.</p> 	
3	<p>Release the 4 hooks. Pull and remove the front panel.</p> 	<p>■ The front panel has 4 hooks.</p>

Step	Procedure	Points
4	Remove the 4 screws of the discharge grille.	<ul style="list-style-type: none"> ■ The discharge grille can be removed with the front grille on.
5	Remove the discharge grille.	<ul style="list-style-type: none"> ■ The discharge grille has 4 hooks.
3. Remove the fan motor.		<ul style="list-style-type: none"> ■ Nut size: M6
1	Unscrew the nut of the outdoor fan.	 <p>(R12236)</p>
		
		
		

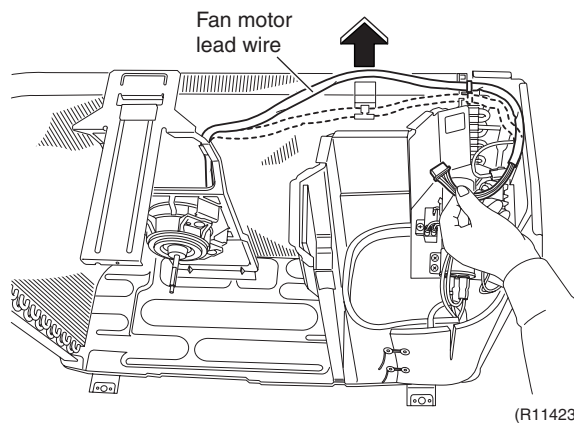
Step	Procedure	Points
2	Remove the outdoor fan.	<ul style="list-style-type: none"> Align ▼ mark of the outdoor fan with D-cut section of the motor shaft when reassembling.
3	Disconnect the relay connector for the fan motor.	<ul style="list-style-type: none"> Put the fan motor lead wire through the back of the fan motor when reassembling so as not to be entangled with the outdoor fan.
4	Release the fan motor lead wire from the fixing hook.	<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.



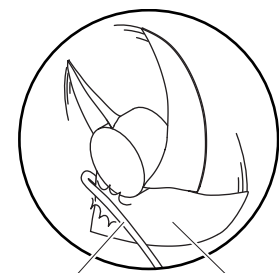
(R11422)



(R11416)



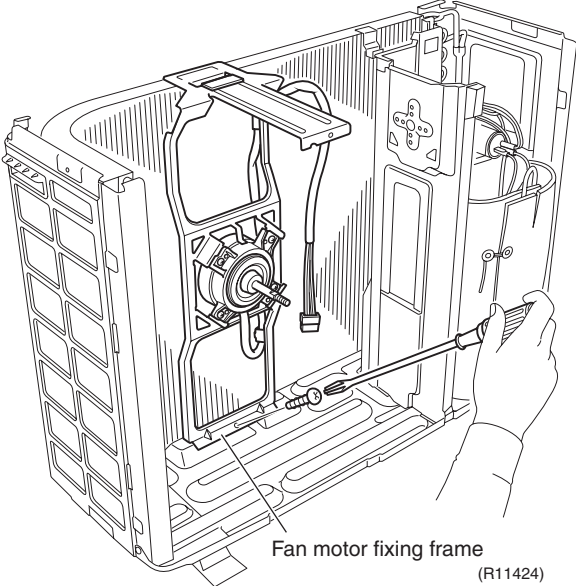
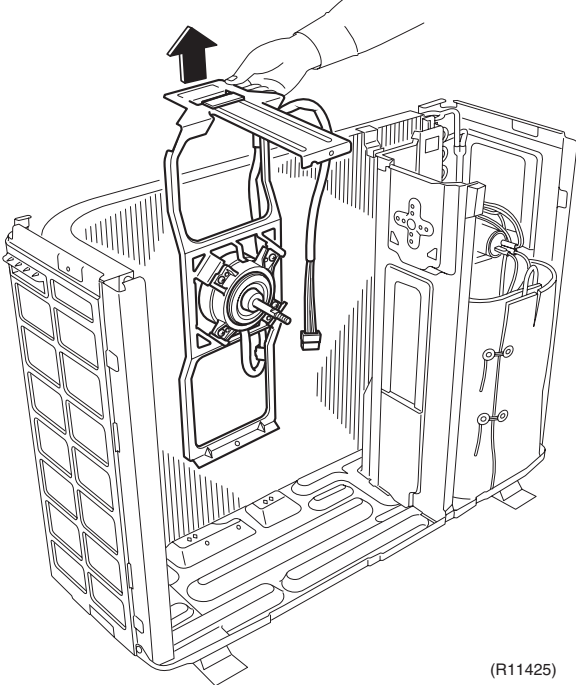
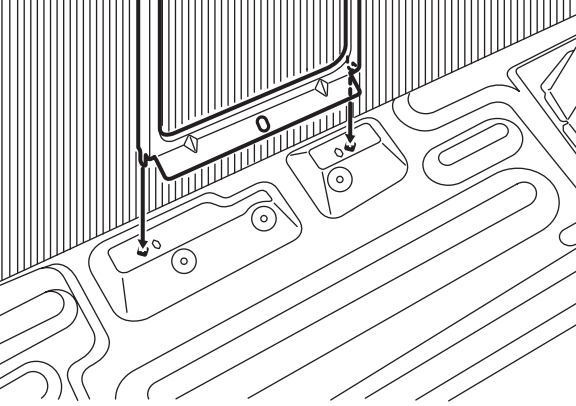
(R11423)

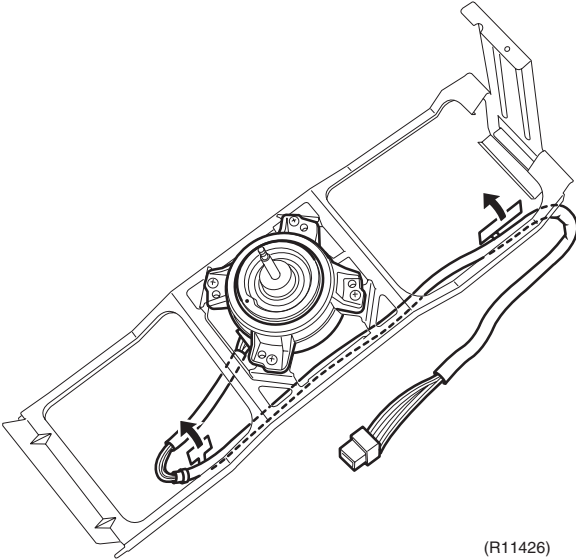
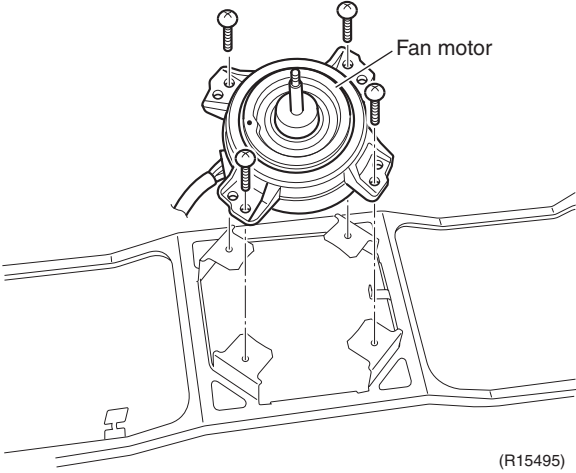


Lead wire

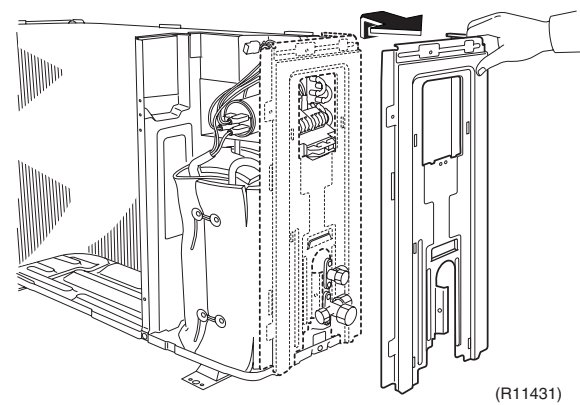
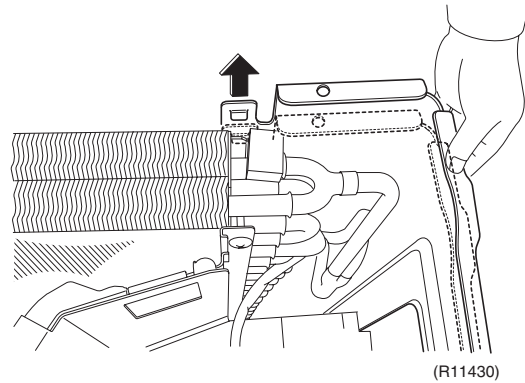
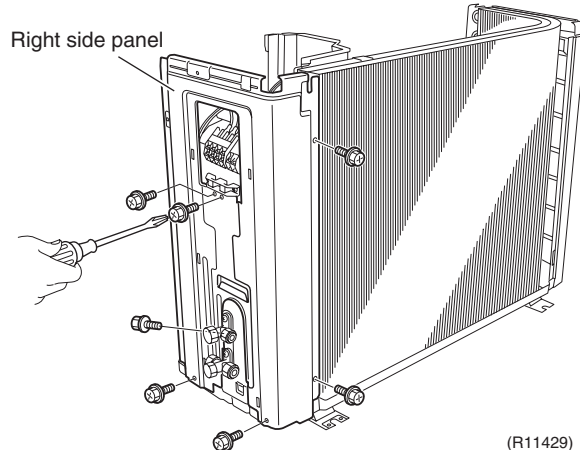
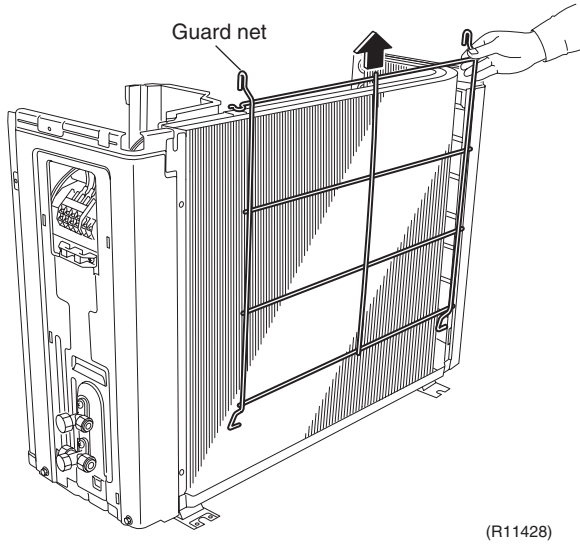
Outdoor fan

(R3249)

Step	Procedure	Points
5	<p>Remove the screw of the fan motor fixing frame.</p>  <p>Fan motor fixing frame (R11424)</p>	
6	<p>Remove the fan motor fixing frame.</p>   <p>(R11425)</p> <p>(R7206)</p>	<p>■ When reassembling, fit the 2 lower hooks into the bottom frame.</p>

Step	Procedure	Points
7	Release the fan motor lead wire from the 2 fixing hooks.	
	 <p>(R11426)</p>	
8	Remove the 4 screws of the fan motor and remove the fan motor.	■ M4 × 16
	 <p>(R15495)</p>	

Step	Procedure	Points
4. Remove the right side panel.		
1	Lift up and remove the guard net.	
2	Remove the 7 screws on the right side panel.	
3	Release the hook.	<p>■ When reassembling, make sure to engage the hook.</p>
4	Lift up the right side panel and remove it.	

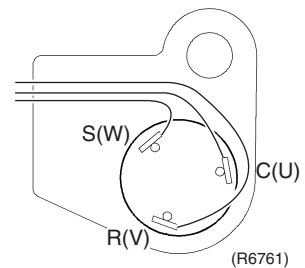
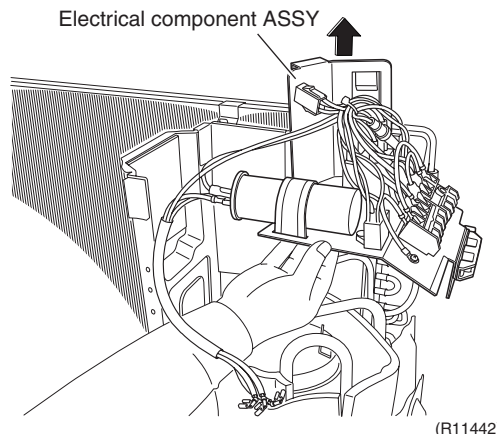
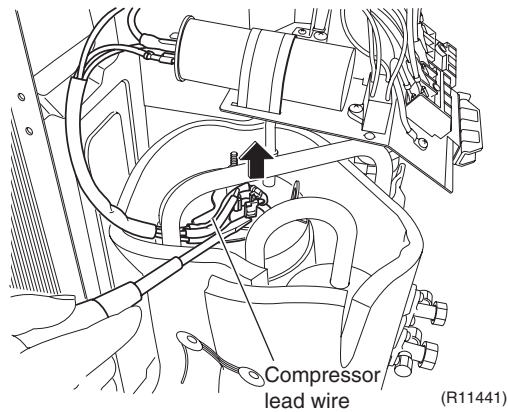
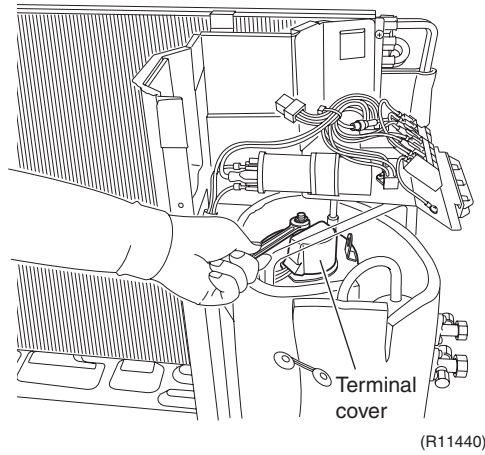
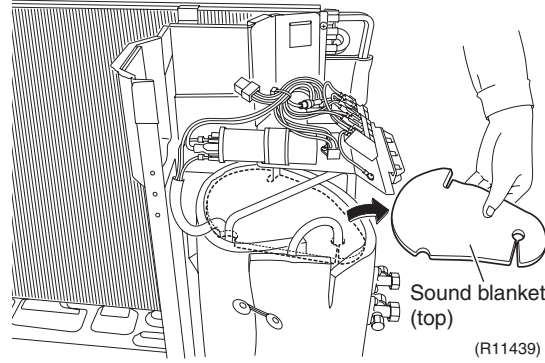


2. Removal of Electrical Components


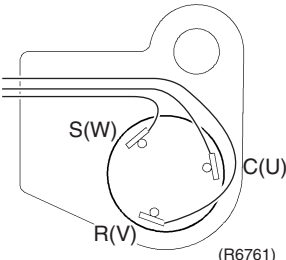
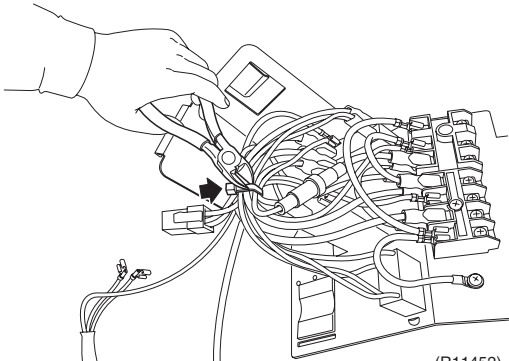
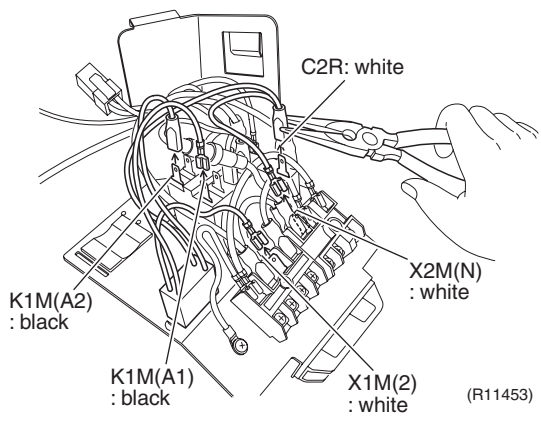
Procedure

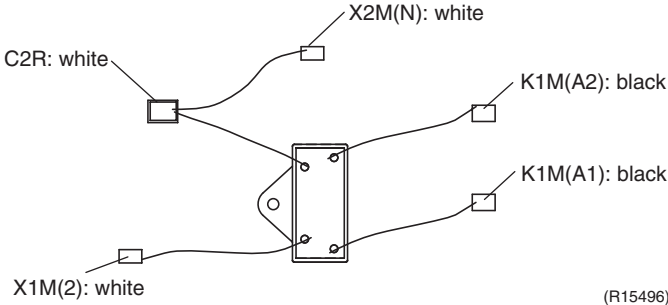
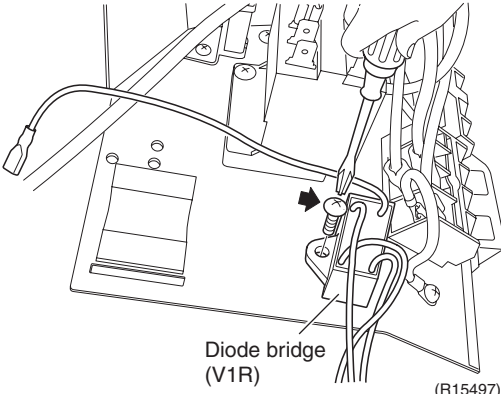
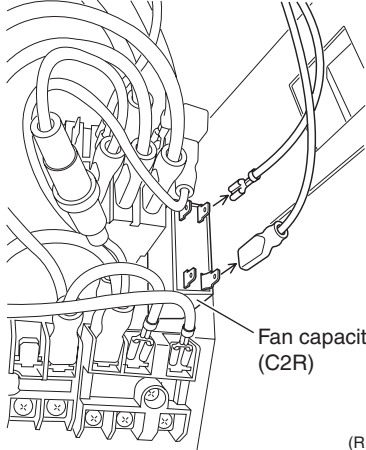
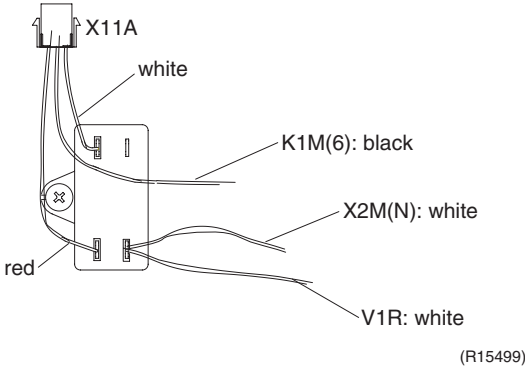
Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

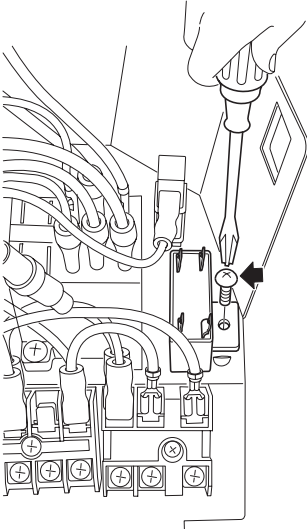
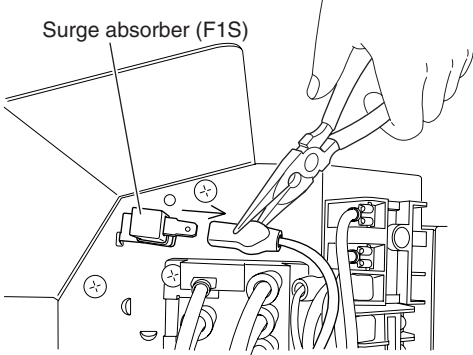
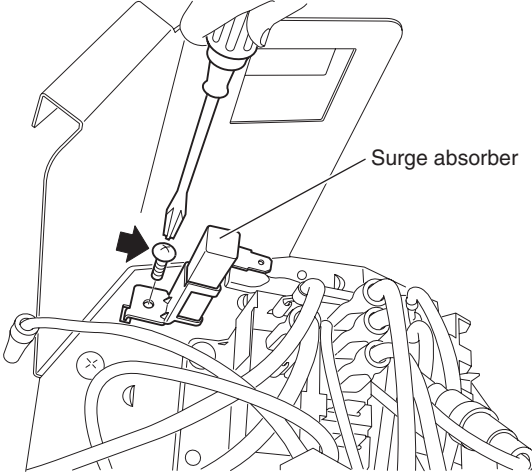
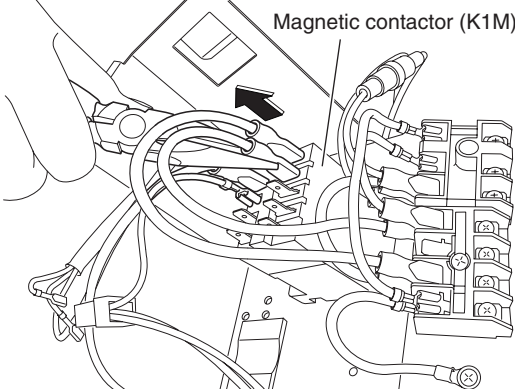
Step	Procedure	Points
1.	Remove the electrical component ASSY.	Preparation
1	Lift and remove the sound blanket (top).	<ul style="list-style-type: none"> Remove the top panel and disconnect the connector for the fan motor according to the "Removal of outer Panels / Fan Motor".
2	Remove the nut and remove the terminal cover.	
3	Disconnect the compressor lead wires with a flat screwdriver.	
4	Lift and remove the electrical component ASSY.	

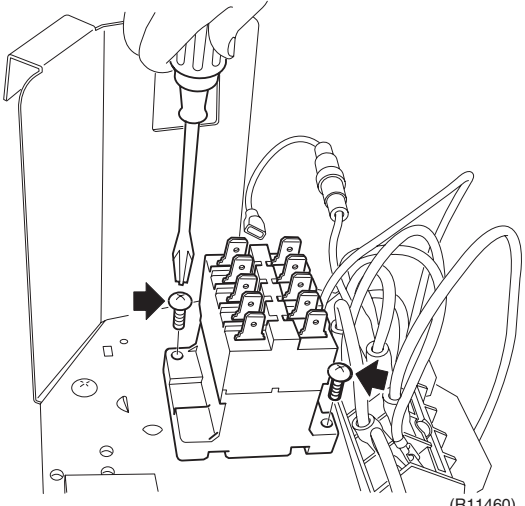
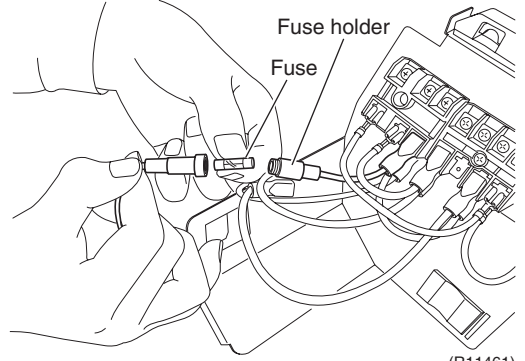
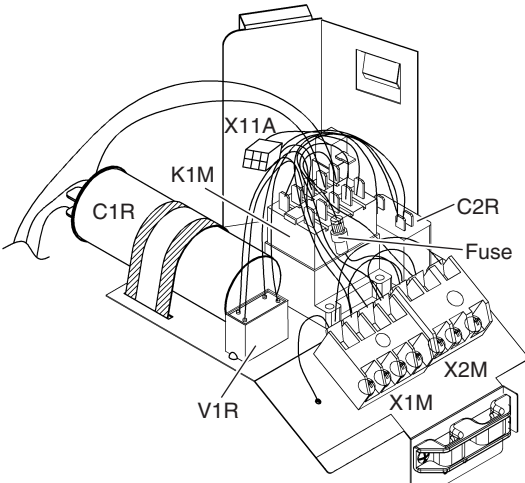
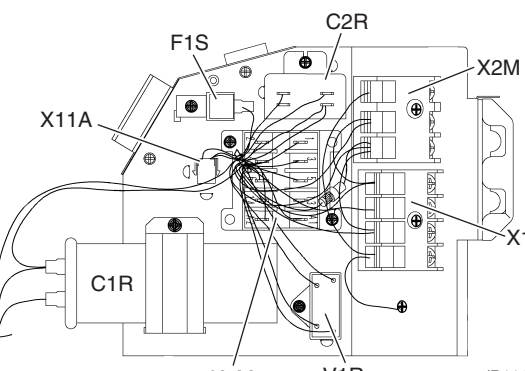


S(W) : yellow
 C(U) : blue
 R(V) : red

Step	Procedure	Points
2.	Remove the electrical components.	<p>■ Compressor capacitor (C1R)</p>
1	Disconnect the 3 connectors of the compressor capacitor (C1R).	<p>K1M(4): red</p>  <p>Compressor (R terminal) : red Compressor (S terminal) : yellow</p> <p>(R17470)</p>
2	Remove the screw and remove the compressor capacitor.	<p>■ Compressor lead wire</p>  <p>S(W) : yellow C(U) : blue R(V) : red</p> <p>(R6761)</p>
3	Cut the clamp.	 <p>(R11452)</p>
4	Disconnect the 5 connectors.	 <p>K1M(A2) : black K1M(A1) : black C2R: white X1M(2) : white X2M(N) : white</p> <p>(R11453)</p>

Step	Procedure	Points
<p>5</p> <p>6</p>	<p>■ Diode bridge (V1R)</p>  <p>(R15496)</p>  <p>Diode bridge (V1R)</p> <p>(R15497)</p>  <p>Fan capacitor (C2R)</p> <p>(R15498)</p> <p>Fan capacitor (C2R)</p>  <p>(R15499)</p>	

Step	Procedure	Points
7	Remove the screw and remove the fan capacitor.	
		
8	Disconnect the connector of the surge absorber (F1S).	
		
9	Remove the screw and remove the surge absorber.	
		
10	Disconnect all the connectors of the magnetic contactor (K1M).	
		

Step	Procedure	Points
11	<p>Remove the 2 screws and remove the magnetic contactor.</p>  <p>(R11460)</p>	
12	<p>Open the fuse holder. Take the fuse out.</p>  <p>(R11461)</p>	
	 <p>(R11487)</p>	
	 <p>(R11488)</p>	

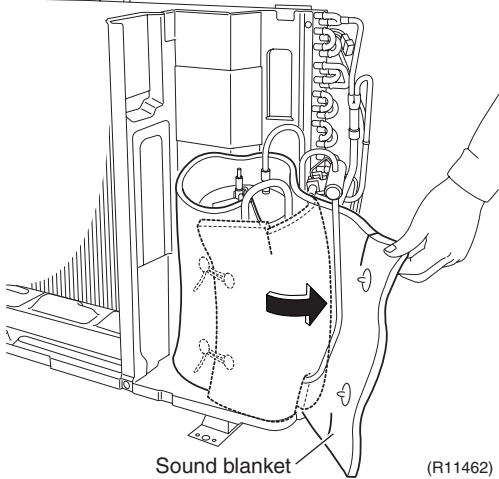
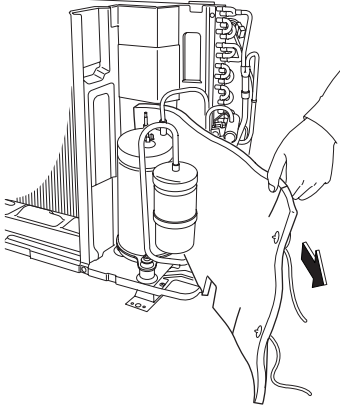
Step	Procedure	Points
		<p>(R17471)</p>

3. Removal of Sound Blanket

Procedure



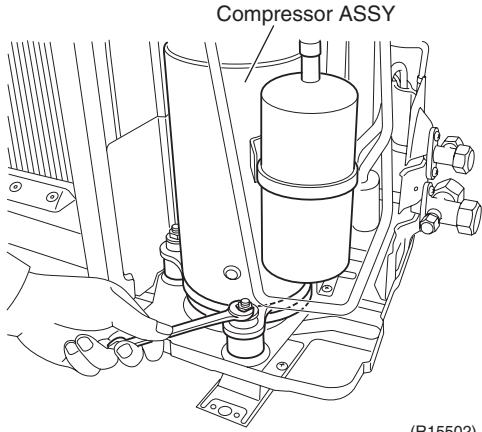
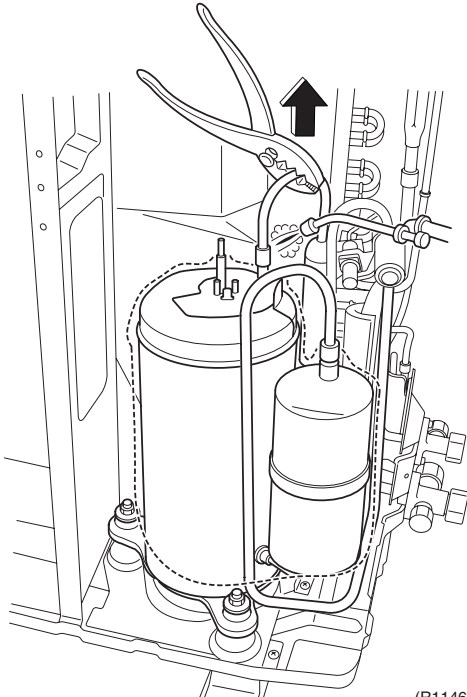
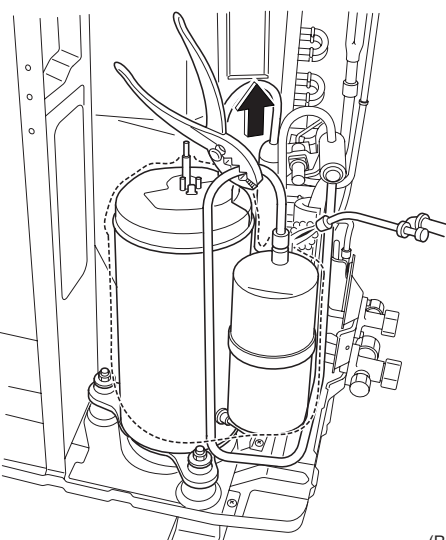
Warning Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Remove the sound blanket.	 <p style="text-align: center;">Sound blanket (body) (R11462)</p>	<p>Preparation</p> <ul style="list-style-type: none"> ■ Remove the outer panels and the electrical components ASSY according to the "Removal of Outer Panels / Fan Motor" and "Removal of Electrical Components".
2. Remove the sound blanket (body).	 <p style="text-align: center;">(R11463)</p>	<ul style="list-style-type: none"> ■ Since the piping ports on the sound blanket are torn easily, remove the blanket carefully.

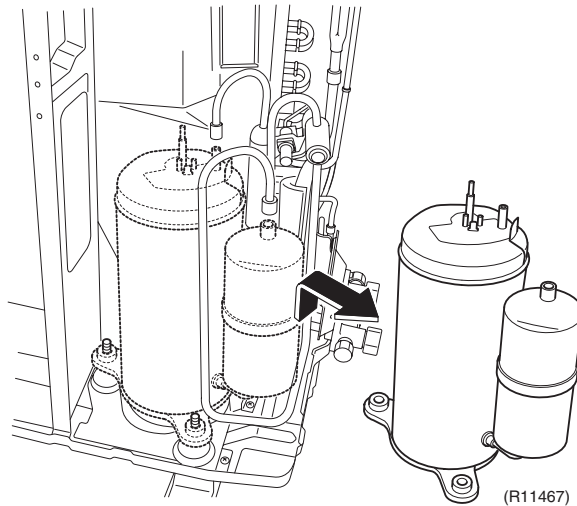
4. Removal of Compressor ASSY

Procedure

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

Step	Procedure	Points
<p>1 Remove the 3 nuts of the compressor ASSY.</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 style="text-align: right;">(R15502)</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>2 Heat up the brazed part of the discharge side and disconnect.</p>	 <p style="text-align: right;">(R11465)</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>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>3 Heat up the brazed part of the suction side and disconnect.</p>	 <p style="text-align: right;">(R11466)</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.

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



Revision History

Month / Year	Version	Revised contents
08/2012	Si011187	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

http://www.daikin.com/global_ac/

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