




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

●Heat Pump

RY25GXV1

RY35GXV1

RYN25GXV1B

RYN35GXV1B

Table of Contents


1. Removal of Panels and Fan Motor.....	2
2. Removal of Solenoid Valve / Electrical Box	11
3. Removal of Sound Blanket.....	15
4. Removal of Compressor	16

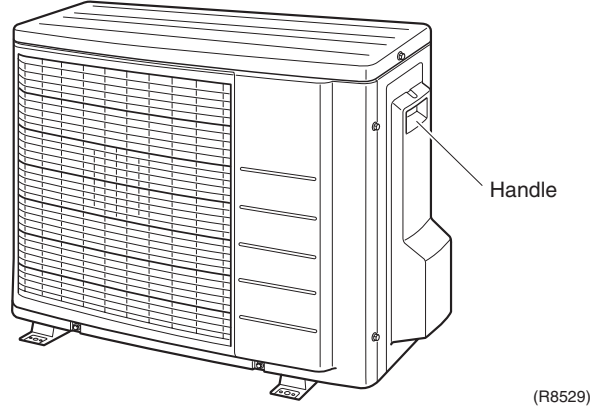
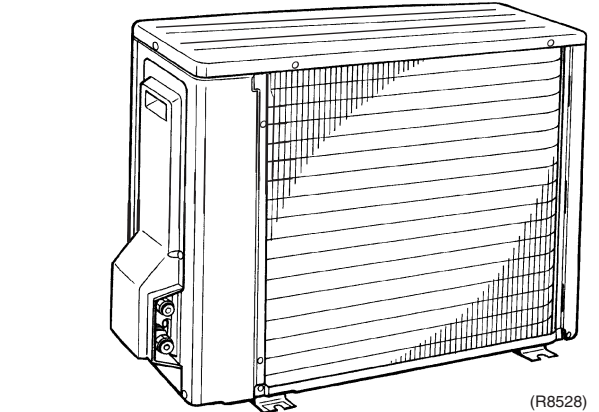
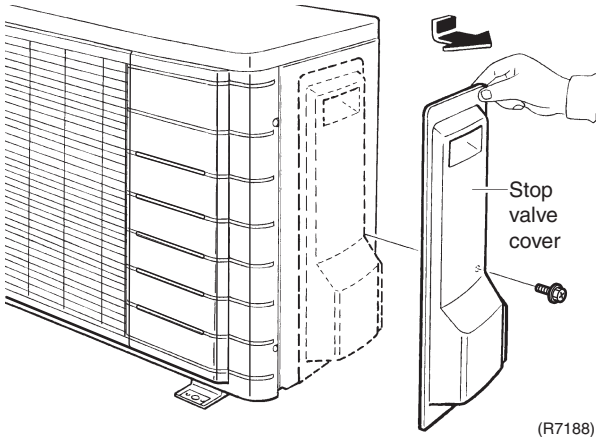
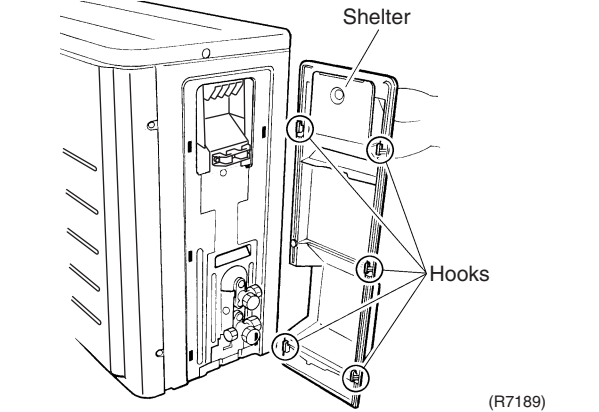


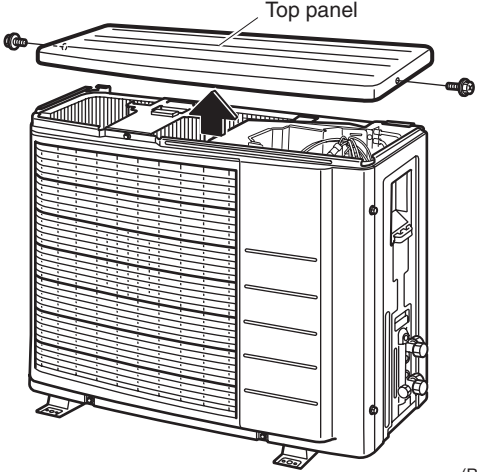
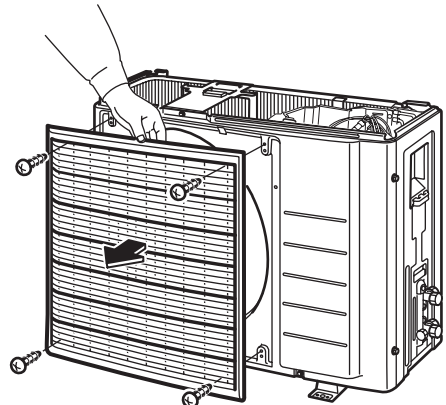
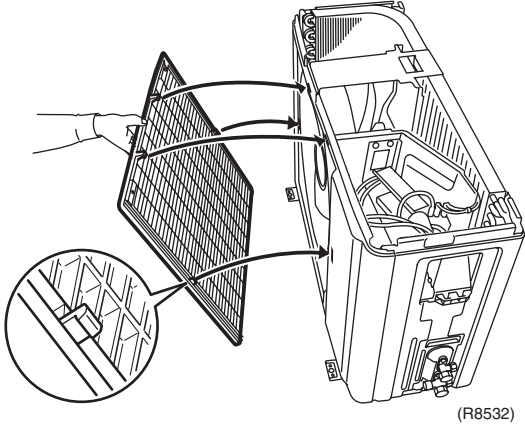
Note: ♦ The illustrations may be slightly different depending on the model.

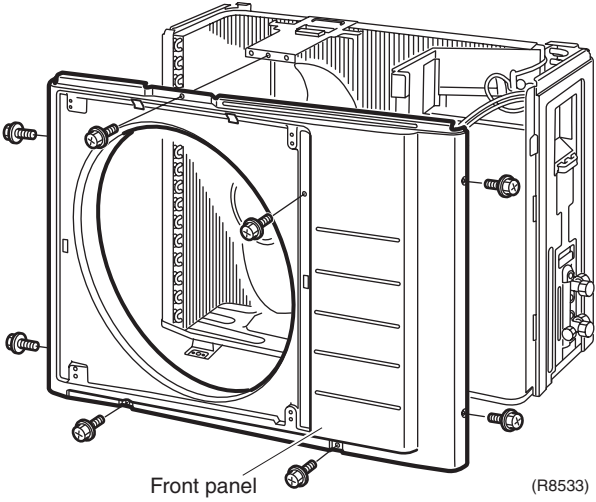
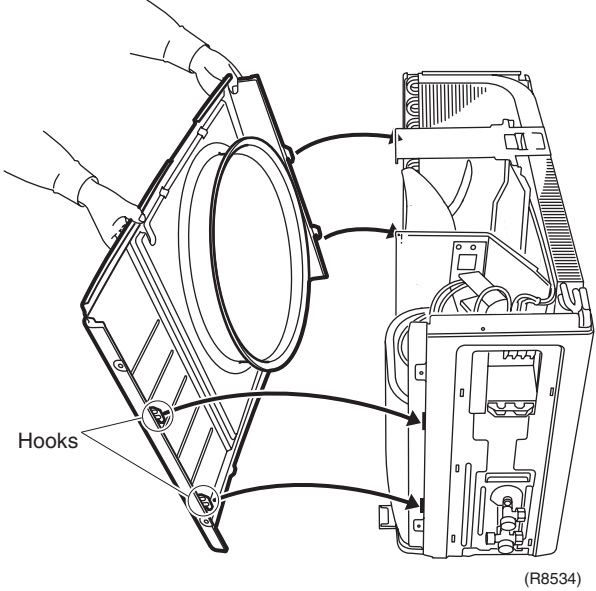
1. Removal of Panels and Fan Motor

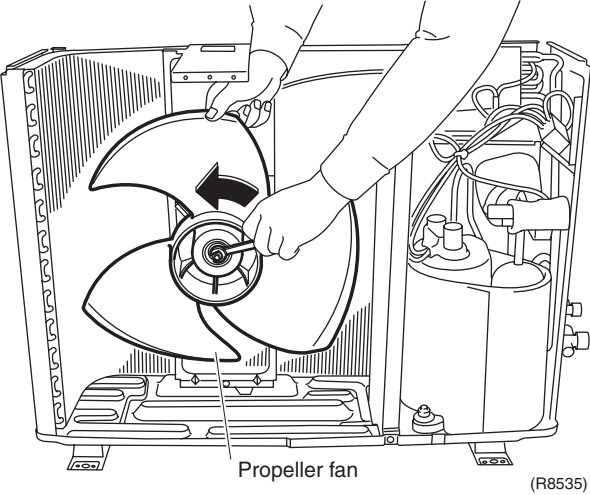
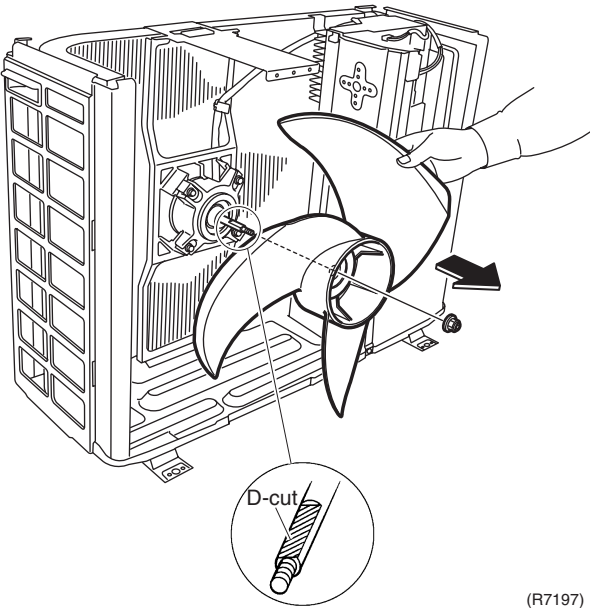
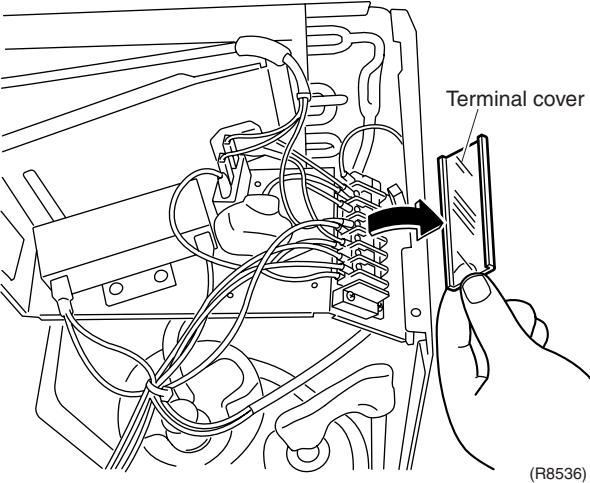
Procedure

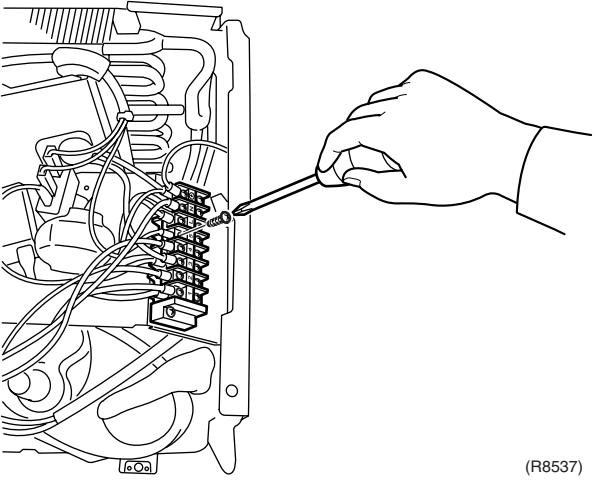
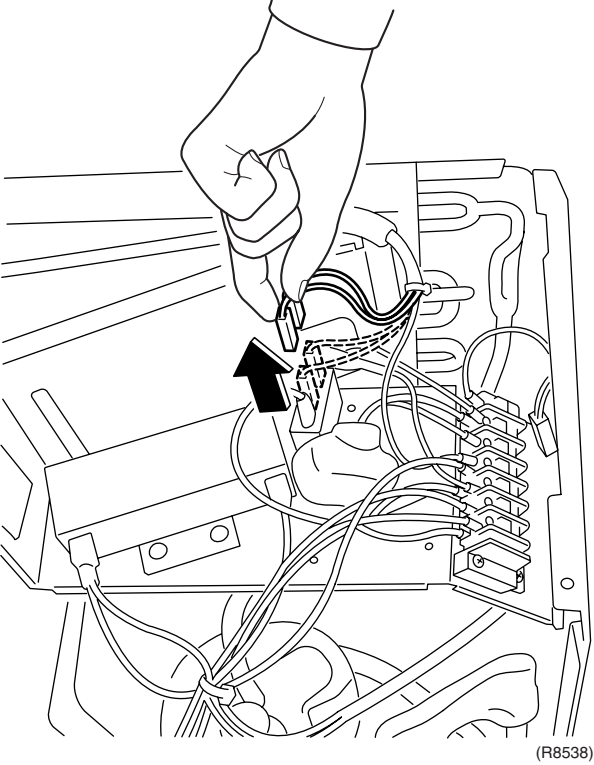
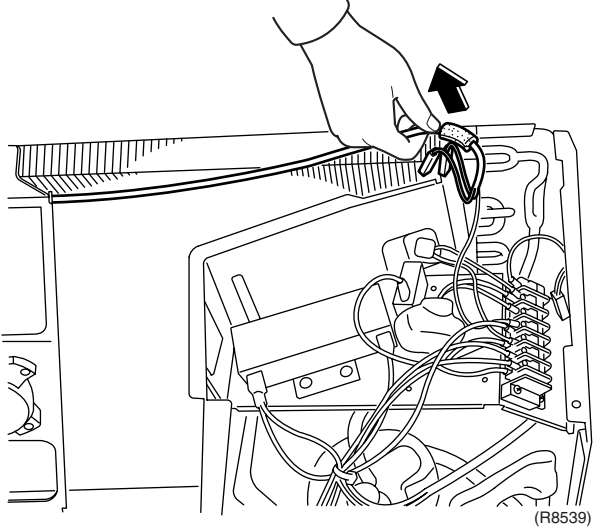
 **Warning** Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

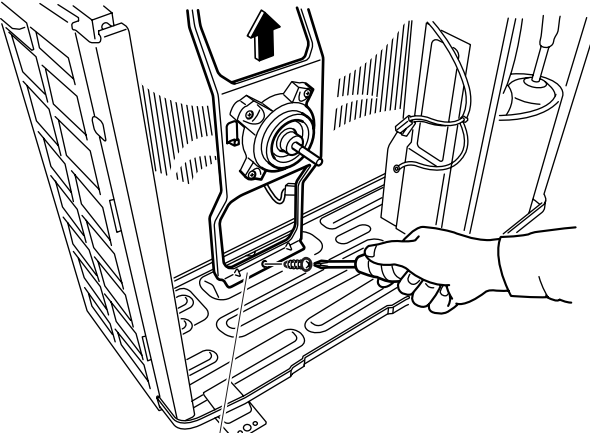
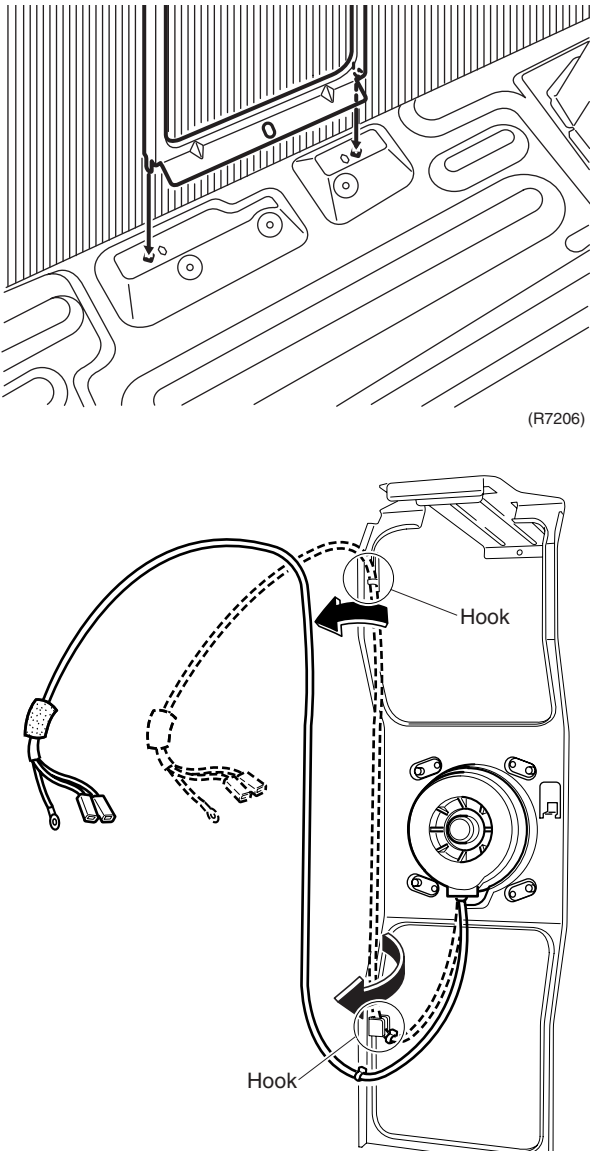
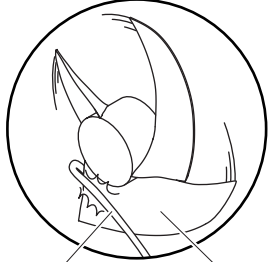
Step	Procedure	Points
1. Features	 <p>(R8529)</p>  <p>(R8528)</p>  <p>(R7188)</p>  <p>(R7189)</p>	<ul style="list-style-type: none"> ■ Take care not to cut your finger by the fins of the heat exchanger. ■ The stop valve cover is united with the shelter. ■ When reassembling, make sure to fit the 5 hooks.

Step	Procedure	Points
<p>2. Remove the panels.</p>	<p>1 Loosen the 2 screws (right, left) and lift the top panel.</p>  <p>(R8530)</p> <p>2 Loosen the 4 screws of the discharge grille.</p>  <p>(R8531)</p>  <p>(R8532)</p>	<p>■ The discharge grille has 4 hooks.</p>

Step	Procedure	Points
3	Loosen the 8 screws of the front panel.	
	 <p>Front panel (R8533)</p>	
4	Lift the panel to undo the hooks. Pull and remove the front panel.	<ul style="list-style-type: none"> ■ The front panel has 4 hooks.
	 <p>Hooks (R8534)</p>	

Step	Procedure	Points
3.	Remove the fan motor.	
1	<p>Unscrew the washer-fitted nut (M10) of the propeller fan with a wrench.</p>  <p style="text-align: center;">Propeller fan (R8535)</p>	
2	<p>Remove the propeller fan.</p>  <p style="text-align: center;">D-cut (R7197)</p>	<p>■ Align the ▼ mark of the propeller fan with the D-cut section of the motor shaft when reassembling.</p>
3	<p>Remove the terminal cover.</p>  <p style="text-align: center;">Terminal cover (R8536)</p>	

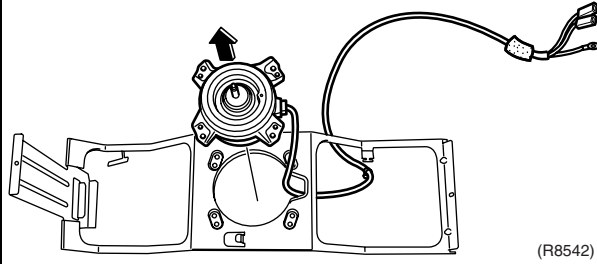
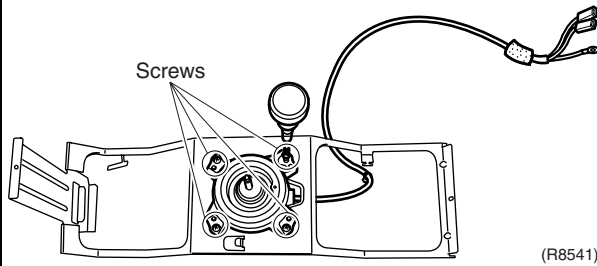
Step	Procedure	Points
4	Loosen the screw No.5.	
	 <p>(R8537)</p>	
5	Disconnect the connectors.	
	 <p>(R8538)</p>	
6	Detach the fan motor lead wire.	
	 <p>(R8539)</p>	

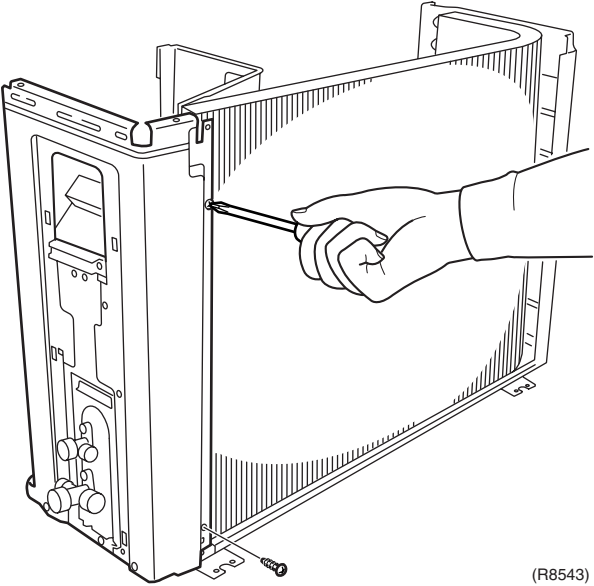
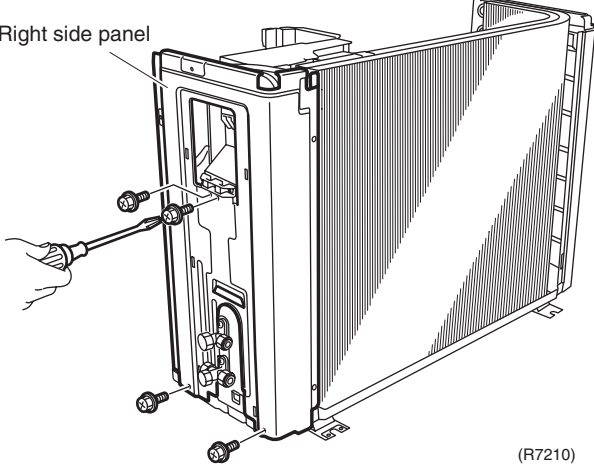
Step	Procedure	Points
7	Loosen the screw to remove the fan motor fixing frame.	 <p data-bbox="608 701 823 723">Fan motor fixing frame</p> <p data-bbox="1015 712 1078 734">(R8565)</p>
8	Loosen the 2 fixing hooks and release the lead wire.	 <p data-bbox="1015 1189 1078 1211">(R7206)</p> <p data-bbox="1015 1957 1078 1980">(R8540)</p> <div data-bbox="1129 1406 1398 1666">  <p data-bbox="1134 1686 1230 1709">Lead wire</p> <p data-bbox="1294 1686 1417 1709">Propeller fan</p> <p data-bbox="1358 1720 1417 1742">(R3249)</p> </div>

■ When reassembling, fit the lower hook into the bottom frame.

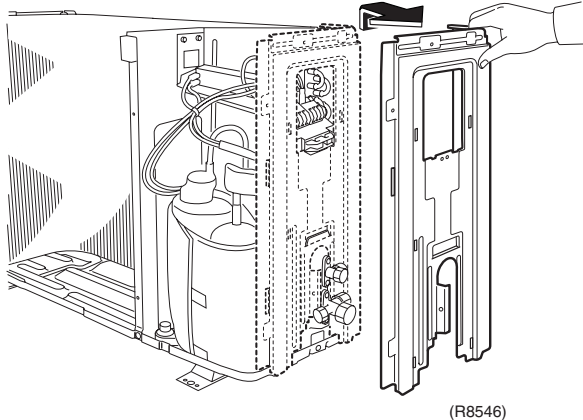
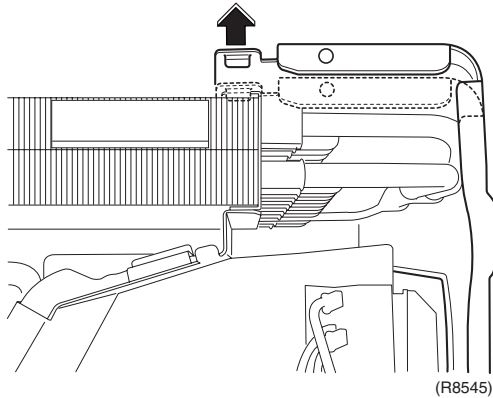
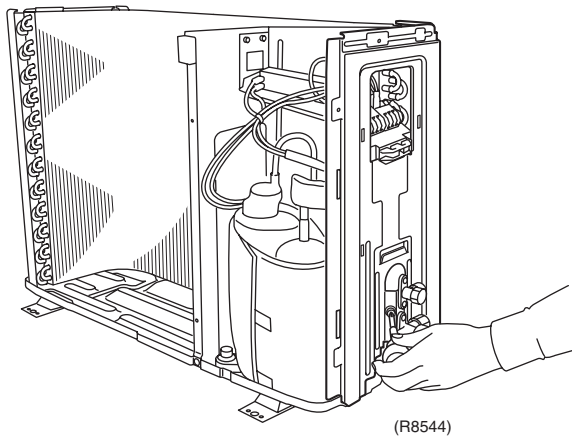
■ Put the lead wire through the back of the motor when reassembling. (so as not to be entangled with the propeller fan)

Step	Procedure	Points
9	Loosen the 4 screws to remove the fan motor.	■ AC fan motor
10	Remove the fan motor.	



Step	Procedure	Points
4. Remove the right side panel.	<p data-bbox="199 280 475 347">1 Loosen the 2 screws on the rear side.</p>  <p data-bbox="1018 801 1082 824">(R8543)</p> <p data-bbox="199 846 475 913">2 Loosen the 4 screws on the right side.</p>  <p data-bbox="1018 1317 1082 1339">(R7210)</p>	

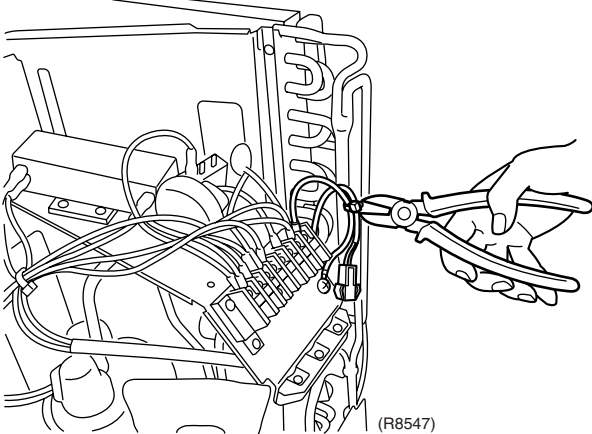
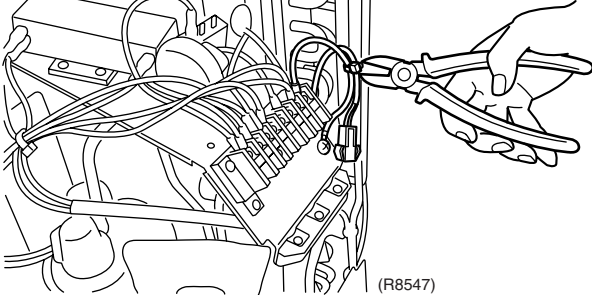
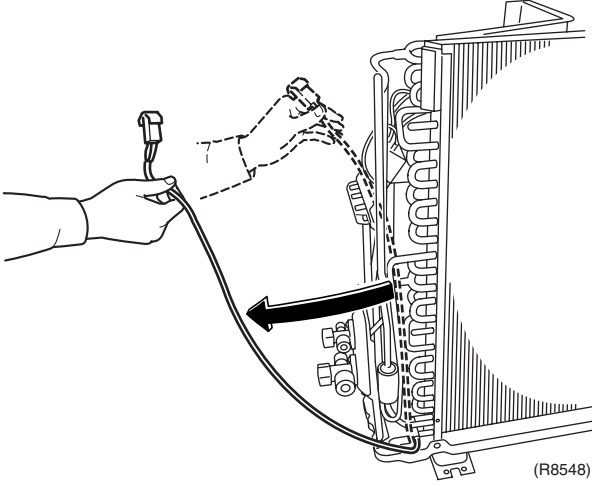
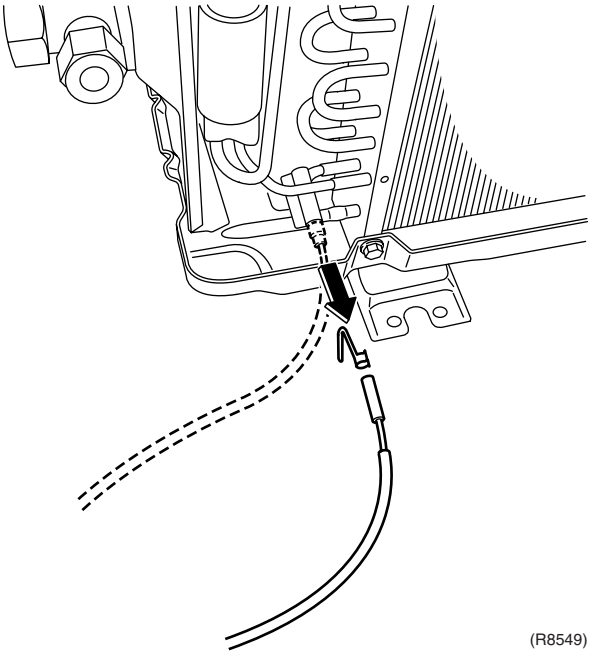
Step	Procedure	Points
3	Loosen the screw and lift the connection port to remove.	<ul style="list-style-type: none"> ■ When reassembling, make sure to fit the hook.
4	Lift up the right side panel to remove.	

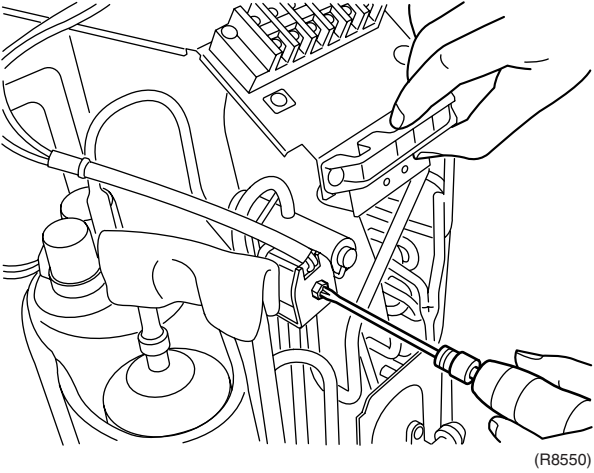
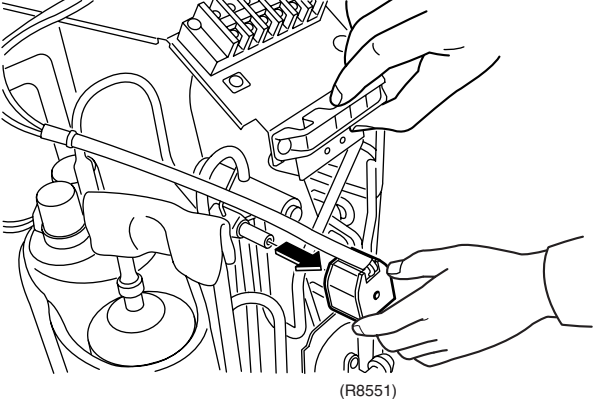
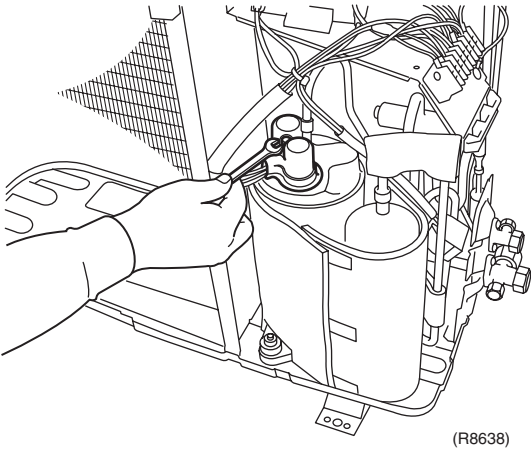
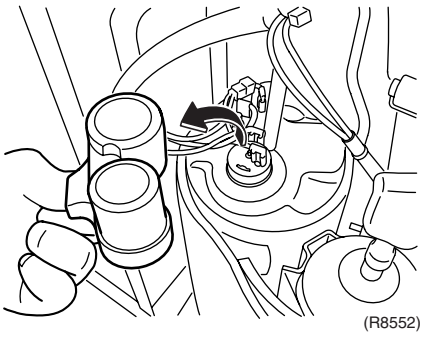


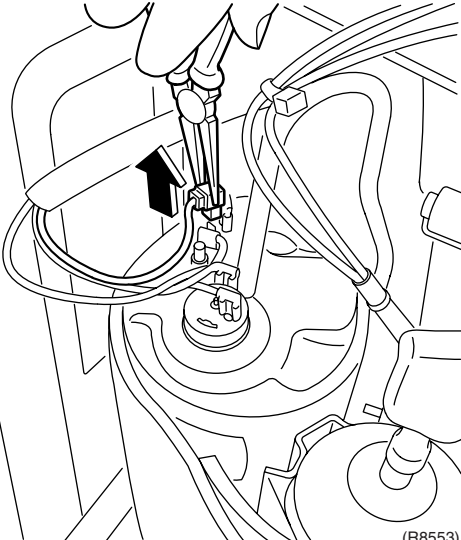
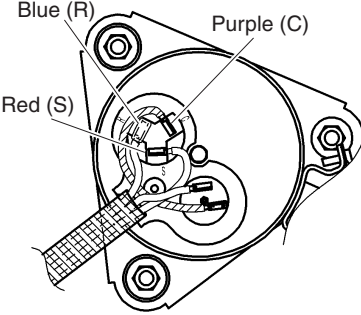
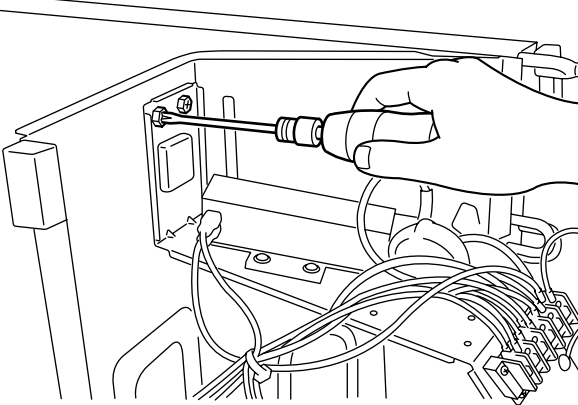
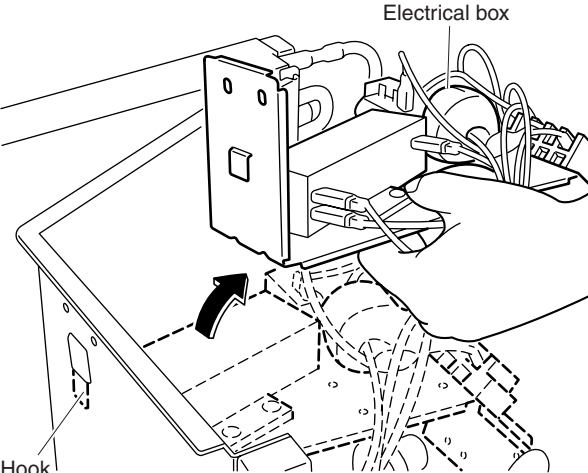
2. Removal of Solenoid Valve / Electrical Box

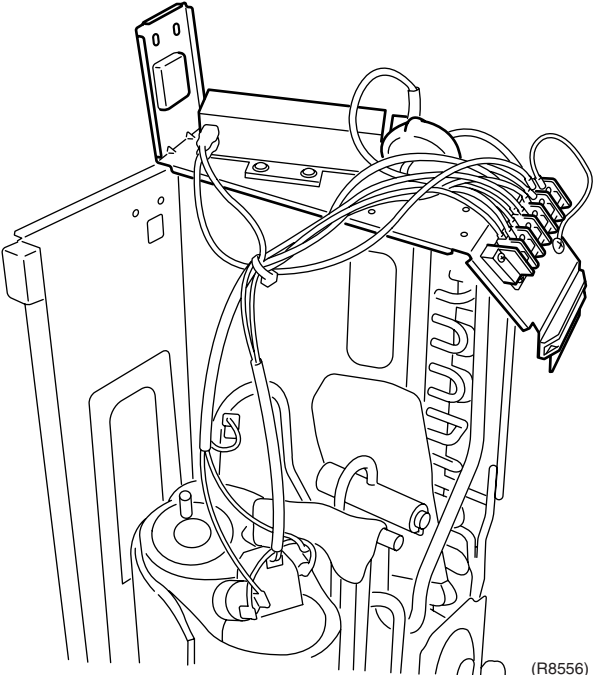
Procedure

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

Step	Procedure	Points
<ul style="list-style-type: none"> ■ Remove the top panel. ■ Disconnect the connector for fan motor. 	 <p style="text-align: right;">(R8547)</p>	
<p>1. Remove the electrical box.</p>		
<p>1 Cut the clamp.</p>	 <p style="text-align: right;">(R8547)</p>	
<p>2 Release the thermistor wire.</p>	 <p style="text-align: right;">(R8548)</p>	
<p>3 Pull and remove the thermistor.</p>	 <p style="text-align: right;">(R8549)</p>	

Step	Procedure	Points
4	Loosen the screw of the solenoid valve.	
	 <p>(R8550)</p>	
5	Remove the valve.	
	 <p>(R8551)</p>	
6	Loosen the nut (M8) to remove the terminal cover.	
	 <p>(R8638)</p>	
	 <p>(R8552)</p>	

Step	Procedure	Procedure	Points
7	Disconnect the connector.	 <p>(R8553)</p>	 <p>Blue (R) Purple (C) Red (S)</p>
8	Loosen the two screws.	 <p>(R8554)</p>	
9	Undo the hook and lift the electrical box.	 <p>Electrical box</p> <p>Hook</p> <p>(R8555)</p>	

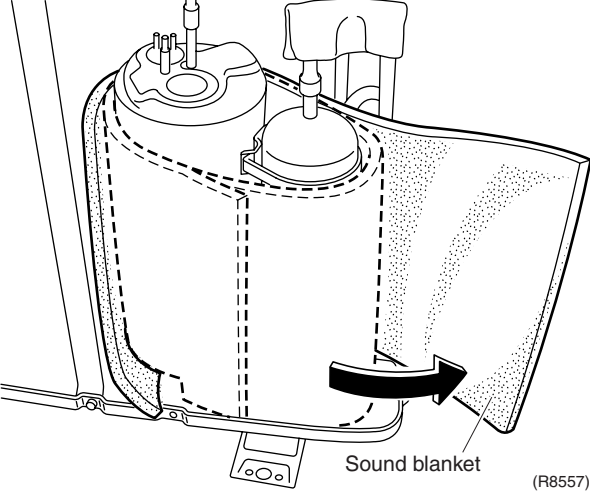
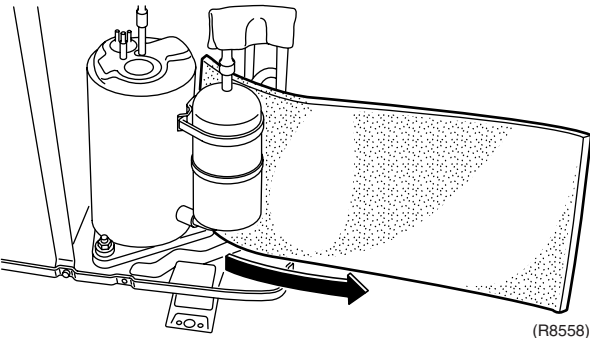
Step	Procedure	Points
10	<p data-bbox="201 217 448 277">Remove the electrical box.</p>  <p data-bbox="1018 898 1082 920">(R8556)</p>	

3. Removal of Sound Blanket

Procedure



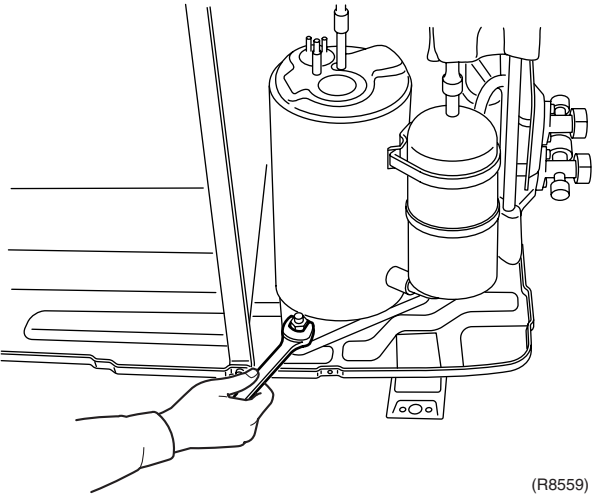
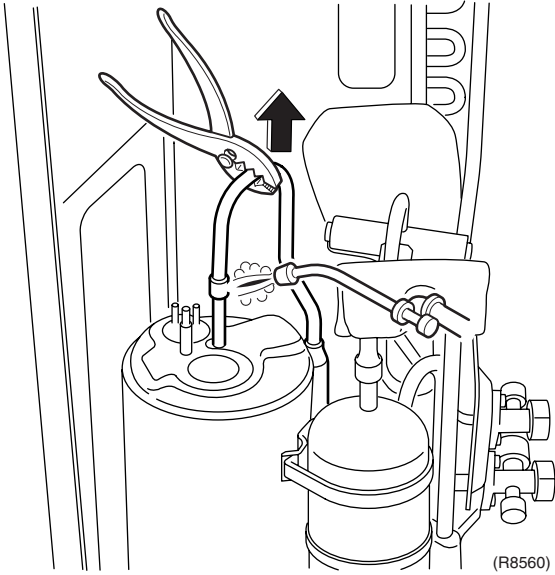
Warning Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
<ul style="list-style-type: none"> ■ Remove the outer panels. ■ Remove the electrical box. 		
1.	Remove the sound blanket.	
1	Untie the strings and open the sound blanket.	
2	Lift and remove the sound blanket (body) as it is opened.	 <ul style="list-style-type: none"> ■ Since the piping ports on the sound blanket are torn easily, remove the blanket carefully.

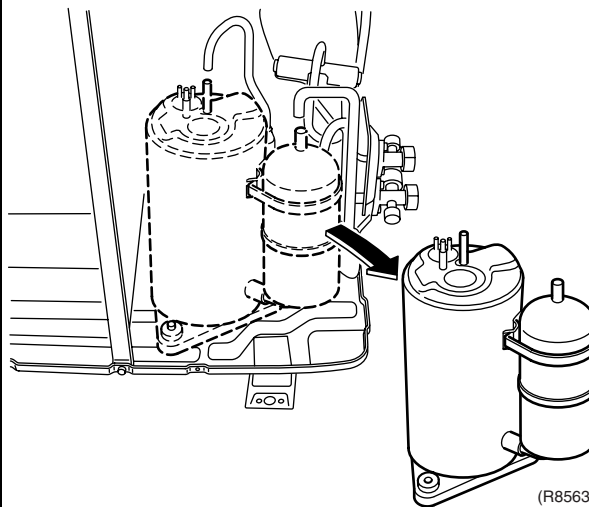
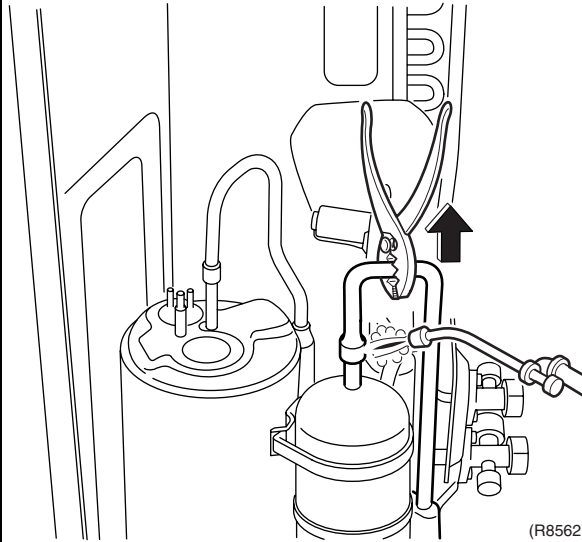
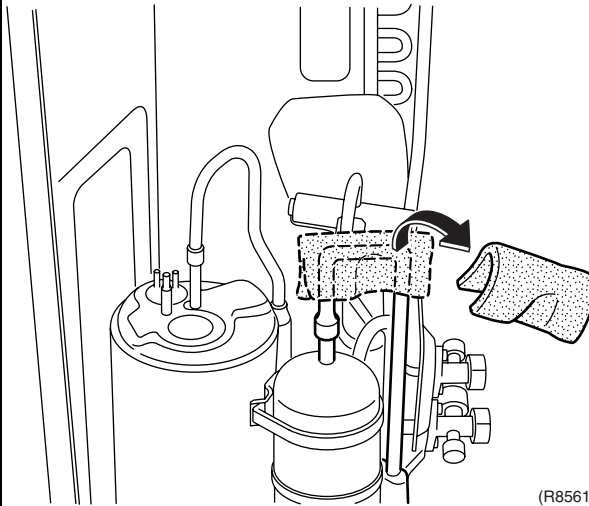
4. Removal of Compressor

Procedure

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

Step	Procedure	Points
<p>1. Remove the compressor.</p> <p>1 Unscrew the nut (M13) of the compressor.</p> <ul style="list-style-type: none"> ■ Before working, make sure that the refrigerant is empty in the circuit. ■ Be sure to apply nitrogen replacement when heating up the brazed part. <p>2 Heat up the brazed part of the discharge side and disconnect.</p>	 <p>(R8559)</p>  <p>(R8560)</p>	<p>Warning Ventilate when refrigerant leaks during the work. (If refrigerant contacts fire, it will cause to arise toxic gas.)</p> <ul style="list-style-type: none"> ■ 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 or the name plate. ■ Be careful so as not to burn the heat exchanger fin. <p>Warning Since it may happen that refrigeration oil in the compressor will catch fire, prepare wet cloth so as to extinguish fire immediately.</p> <p>In case of the 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 by a miniature copper tube cutter in order to make it easy to disconnect.

Step	Procedure	Points
3	Remove the putty.	<p>Cautions for restoration</p> <ol style="list-style-type: none"> 1. Restore the piping by non-oxidation brazing. 2. It is required to prevent the carbonization of the oil inside the four way valve and the deterioration of the gaskets affected by heat. For the sake of this, wrap the four way valve with wet cloth and provide water so that the cloth will not be dried and avoid excessive heating. (Keep below 120°C)
4	Heat up the brazed part of the suction side and disconnect.	<p>i Note: Do not use a metal saw for cutting pipes by all means because the sawdust come into the circuit.</p>
5	Lift the compressor up and remove it.	



Revision History

Month / Year	Version	Revised contents
06 / 2013	Si01-884	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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