




REMOVAL PROCEDURE



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

2.5/3.5 kW Class

-  Indoor Unit
-  Non-Inverter
-  Wall Mounted Type



Service Manual Removal Procedure

Indoor Unit

●Heat Pump

**FTY25GXV1
FTY35GXV1**

**FTYN25GXV1B
FTYN35GXV1B**

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Note:

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

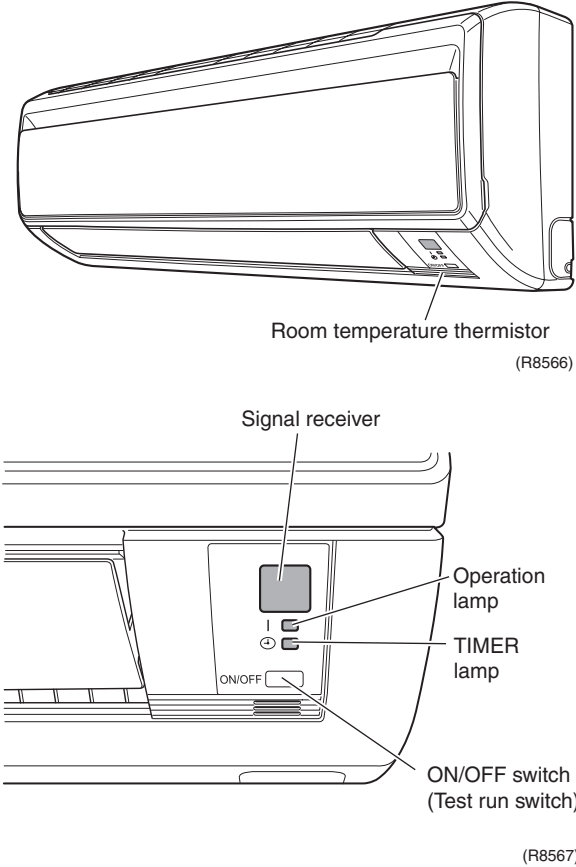
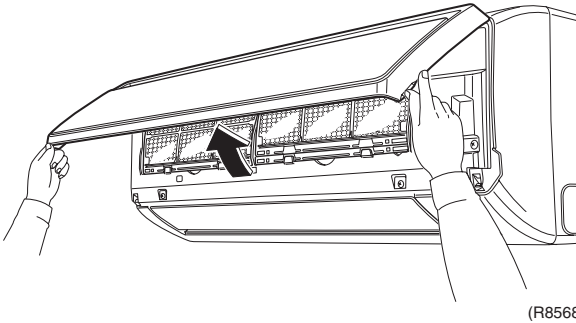
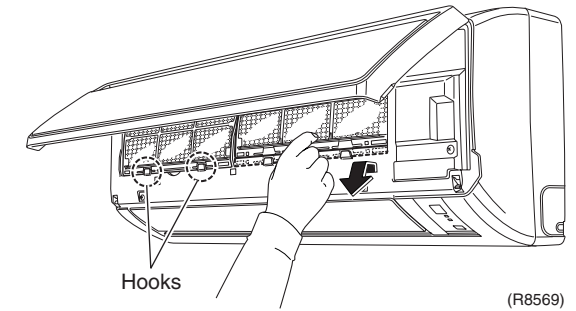
1. Removal of Air Filter

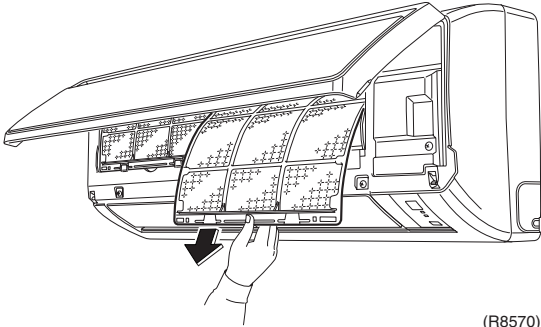
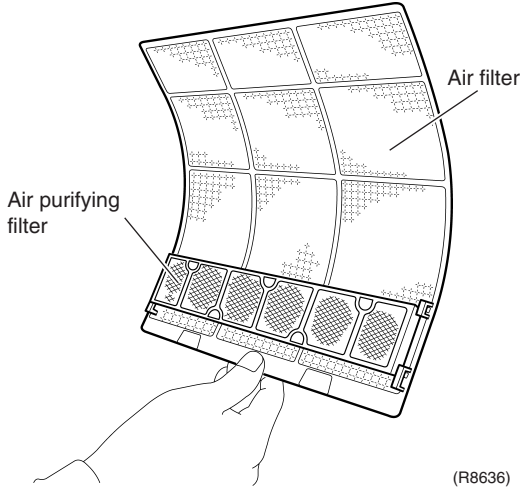
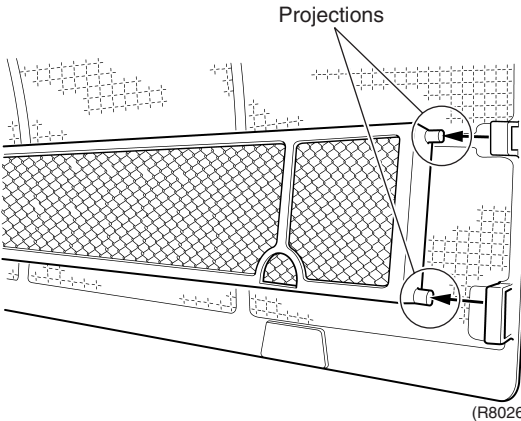
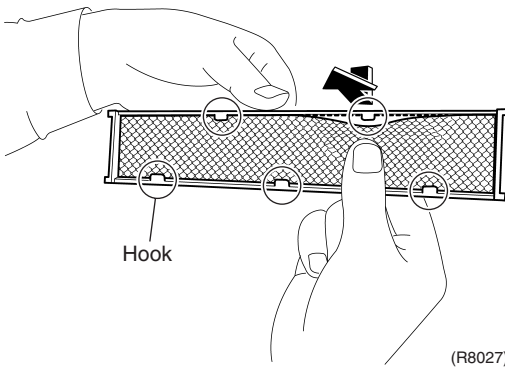
Procedure



Warning

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

Step	Procedure	Points
1. Appearance feature		<p>Warning Dangerous: High voltage A high voltage is applied to all the electric circuits of this product including thermistors.</p> <ul style="list-style-type: none"> When a signal from the remote controller is received, the receiving tone sounds and the operation lamp flickers immediately to confirm the signal reception.
2. Removing the air filter	<p>1 Put your fingers on the right and left projections of the front panel, and open the panel to the position where it will stop.</p>  <p>2 Slightly push up the knob at the center of the air filter.</p> 	<ul style="list-style-type: none"> The air filter is not marked for difference between the right and left sides. The air filter can be set easily by inserting it along the guides. Insert the air filter with the "FRONT"-marked face up. Be sure to insert the hooks (at 2 lower positions) when mounting the air filter.

Step	Procedure	Points
3	<p>Pull out the air filter downwards and remove it.</p>  <p>(R8570)</p>	
3. Removing the air purifying filter	<p>1 The air purifying filter is attached to the back of the air filter.</p>  <p>(R8636)</p> <p>2 Remove the air purifying filter frame by bending the air filter and unfastening the projections from the air filter frame.</p>  <p>(R8026)</p> <p>3 Remove the air purifying filter from its frame (at 5 positions) by bending it.</p>  <p>(R8027)</p>	<ul style="list-style-type: none"> ■ To prevent the damage, do not remove the flame when cleaning the filter. ■ The shape of filter varies depending on the model. ■ The air-purifying filter is not marked for difference between the right and left sides.

2. Removal of Front Panel

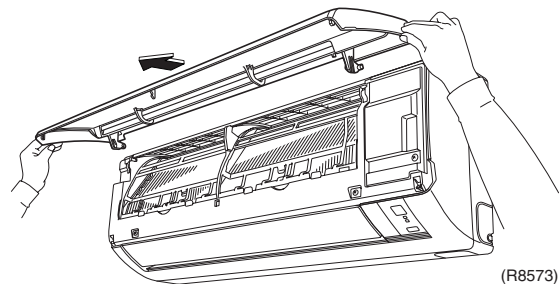
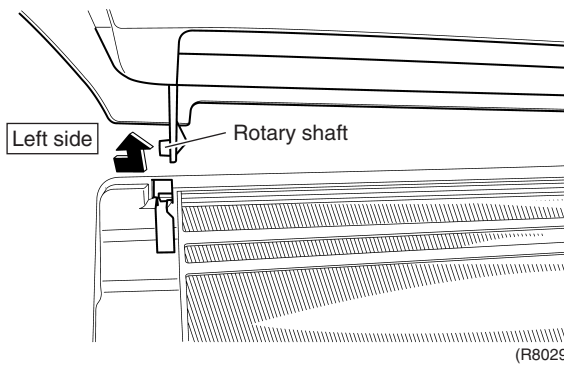
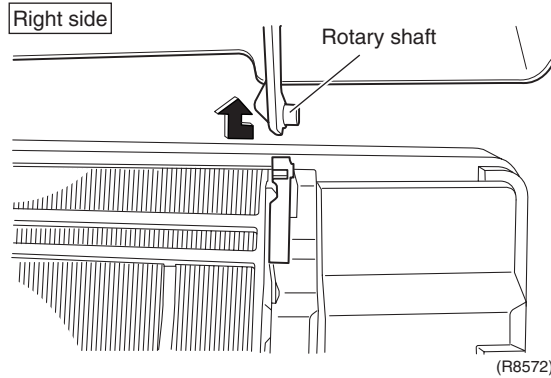
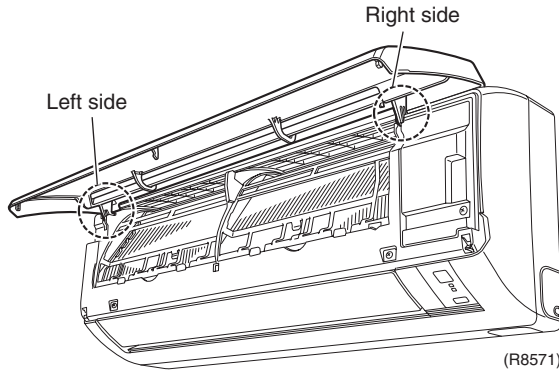
Procedure



Warning

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Step	Procedure	Points
1	Open the front panel over the position where it will stop.	<p>Preparation</p> <ul style="list-style-type: none"> Remove the air filter according to the "Removal of Air Filter".
2	Slide the right rotary shaft to the left and release it.	<ul style="list-style-type: none"> The rotary shaft on the each side can be removed easily by sliding each shaft inwards.
3	Slide the left rotary shaft to the right and release it.	
4	Remove the front panel.	<p>Caution on Mounting</p> <ul style="list-style-type: none"> When mounting the front panel, fit the right and left rotary shafts one by one into the grooves and fully push them in position.



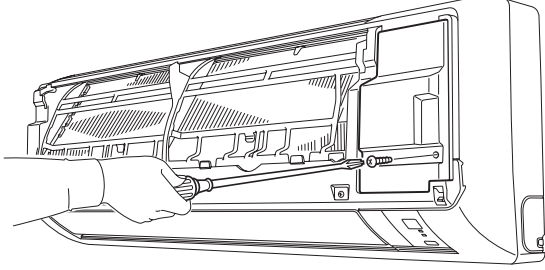
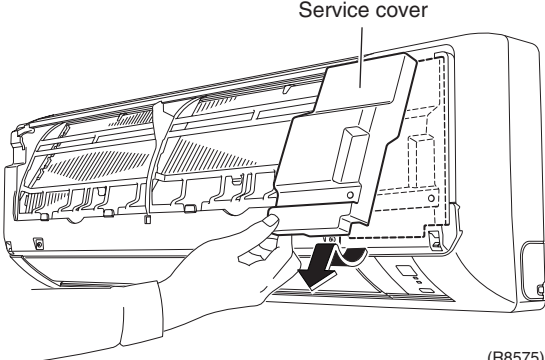
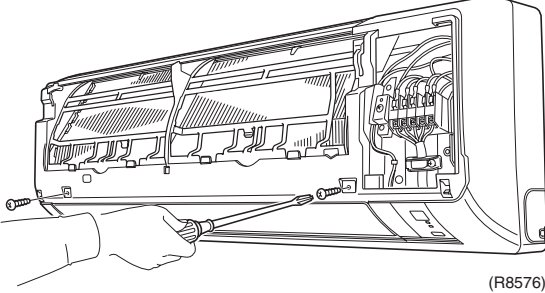
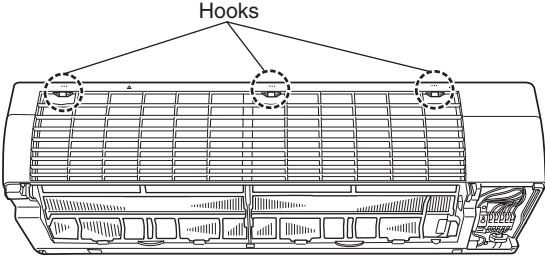
3. Removal of Front Grille

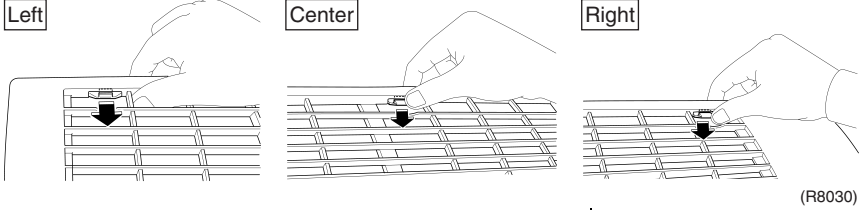
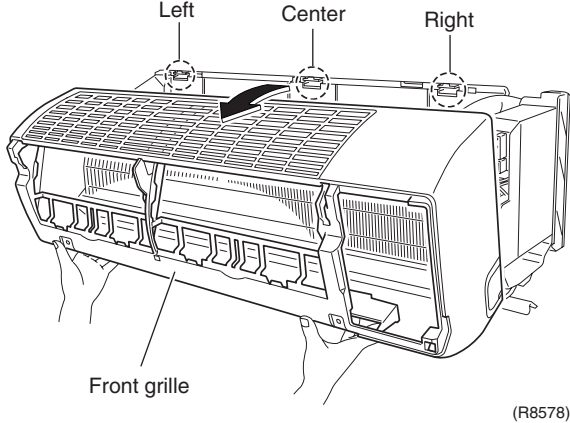
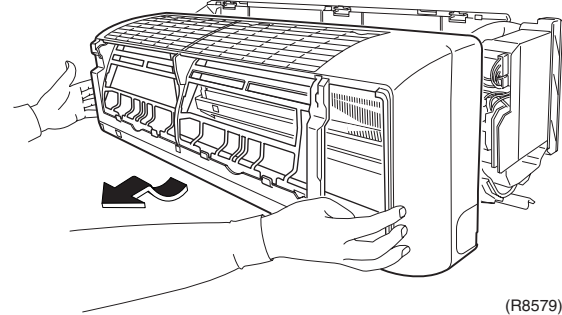
Procedure



Warning

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

Step	Procedure	Points
1. Removing the service cover	 <p style="text-align: right;">(R8574)</p>  <p style="text-align: center;">Service cover</p> <p style="text-align: right;">(R8575)</p>	<p>Preparation</p> <ul style="list-style-type: none"> ■ Remove the front panel according to the “Removal of Front Panel”. ■ No field setting switch is inside it. ■ You can remove the front grille without detaching the service cover.
2. Removing the front grille	 <p style="text-align: right;">(R8576)</p>  <p style="text-align: center;">Hooks</p> <p style="text-align: right;">(R8577)</p>	<ul style="list-style-type: none"> ■ Refer to the removal procedure in a reverse way when reassembling.

Step	Procedure	Points
3	<p>Press each hook, and also lift the grille up to unfasten the hooks.</p> 	
4	<p>Pull the upper part of the front grille towards yourself.</p> 	
5	<p>Lift the lower part up, and then remove the front grille.</p> 	<p>Caution on Mounting</p> <ul style="list-style-type: none"> When mounting the front grille, make sure that the hooks are fastened as they were.

4. Removal of Horizontal / Vertical Blades and Safety Net

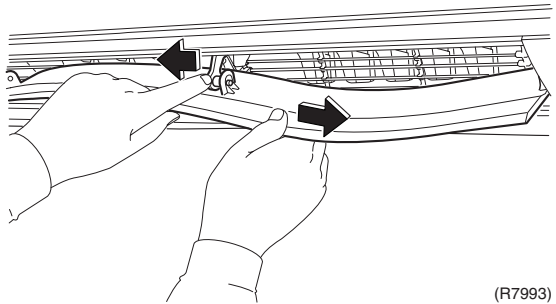
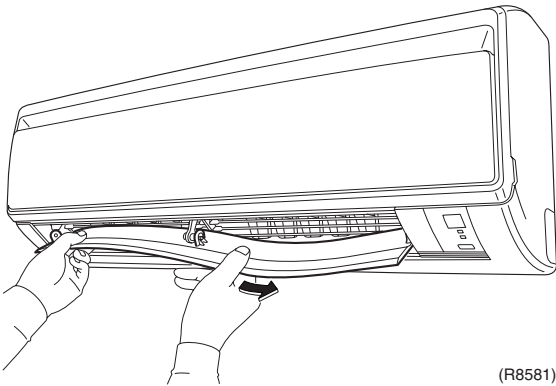
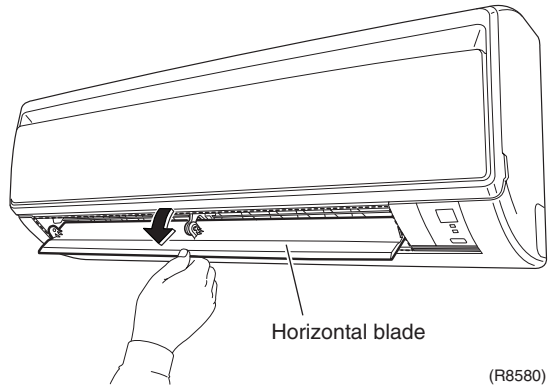
Procedure



Warning

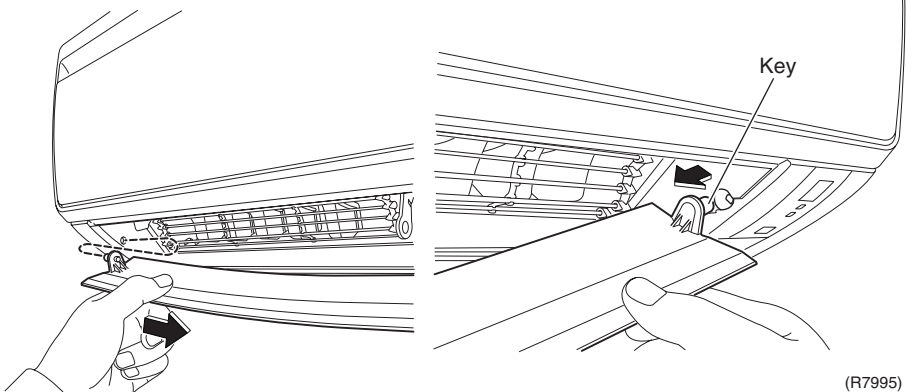
Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

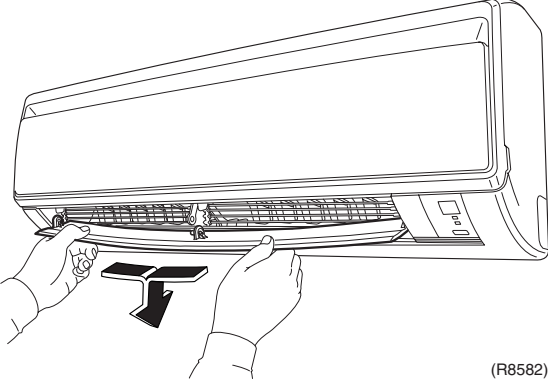
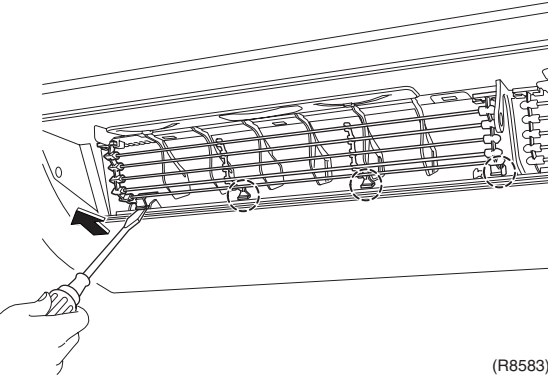
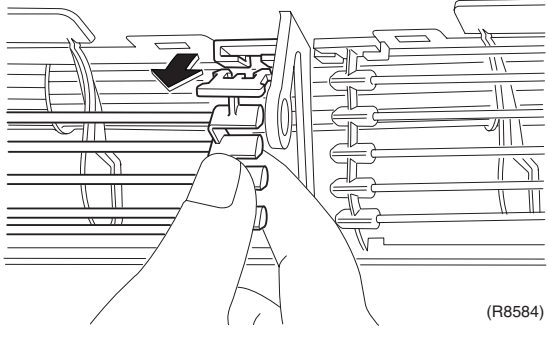
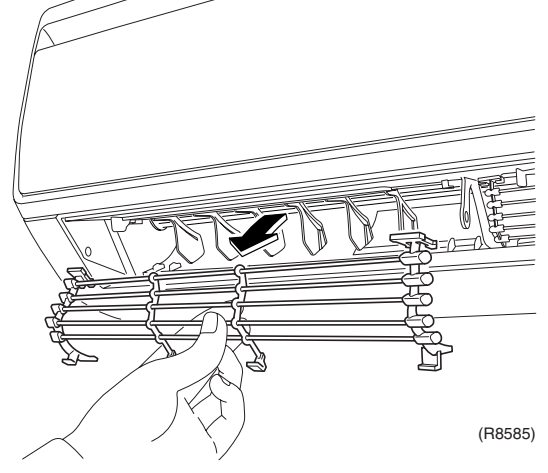
Step	Procedure	Points
1. Removing the horizontal blade (large)		
1	Open the horizontal blade.	
2	Unfasten the center fixing shaft while bending the horizontal blade slightly.	<p>Cautions on Mounting</p> <ul style="list-style-type: none"> ■ The center fixing shaft can be removed easily by bending the blade.
3	Unfasten the left fixing shaft of the horizontal blade.	<p>Cautions on Mounting</p> <ol style="list-style-type: none"> 1. Since key pattern hook is provided, rotate the blades and fit it to the right pivot first. 2. Fit the blades to the center and left pivots.
4	Unfasten the right fixing shaft of the horizontal blade.	

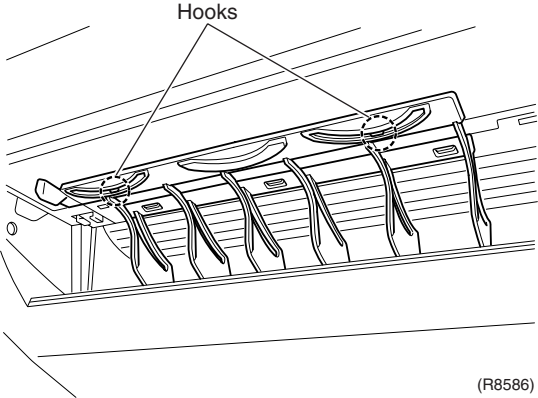
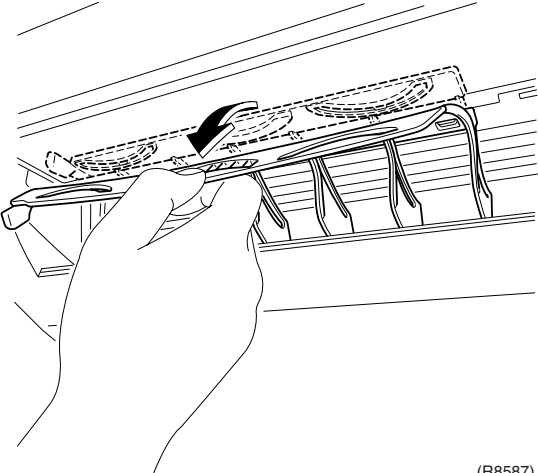
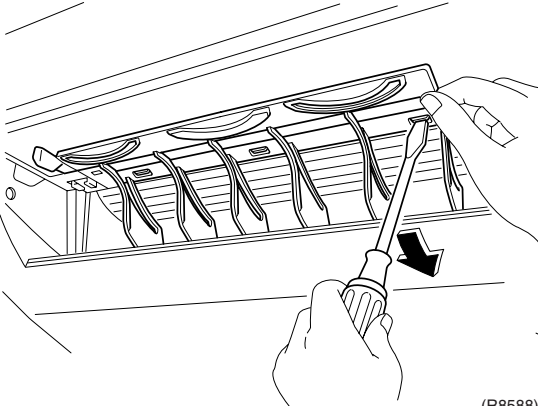
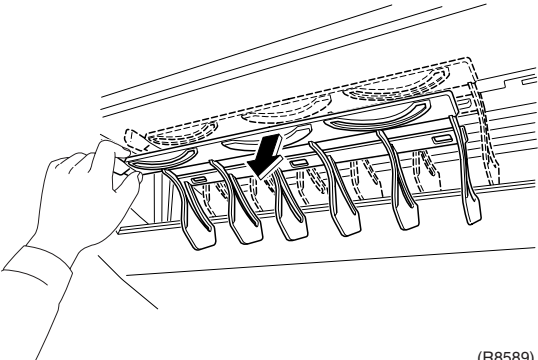


Left

Right



Step	Procedure	Points
5	<p>Remove the horizontal blade.</p>  <p>(R8582)</p>	
2. Removing the safety net		
1	<p>Unfasten the hooks at the lower part with a flat screwdriver.</p>  <p>(R8583)</p>	
2	<p>Unfasten the hooks at the upper 2 positions.</p>  <p>(R8584)</p>	
3	<p>Remove the safety net toward yourself.</p>  <p>(R8585)</p>	<p>■ Repeat the same procedure to remove the safety net on the other side.</p>

Step	Procedure	Points
3. Removing the vertical blade		
1	<p data-bbox="204 286 454 347">Unfasten the hooks at the upper 2 positions.</p>  	<ul style="list-style-type: none"> ■ Six vertical blades are united as a set. (It is impossible to replace only one blade.) ■ The set of blades is not marked for difference between right and left.
2	<p data-bbox="204 1234 470 1355">Unfasten the 3 hooks at the shaft mounting part by pressing them with a flat screwdriver.</p> 	
3	<p data-bbox="204 1713 454 1774">Remove the vertical blade toward yourself.</p> 	<ul style="list-style-type: none"> ■ Repeat the same procedure to remove the vertical blade on the other side.

5. Removal of Electrical Box

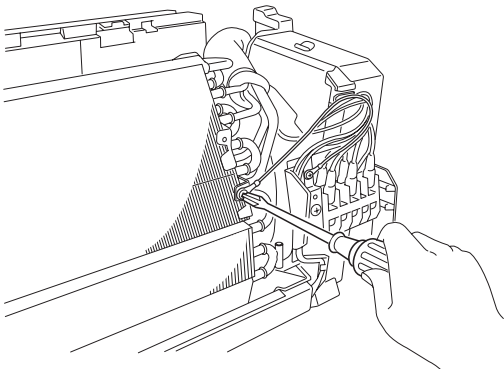
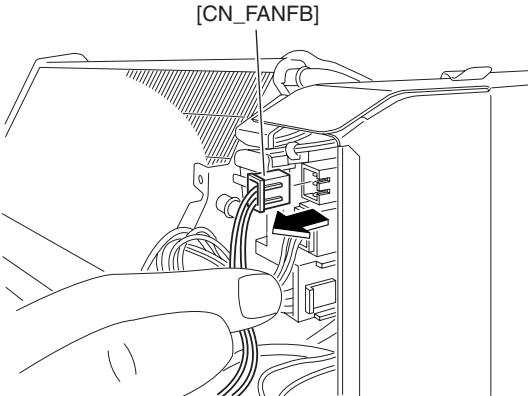
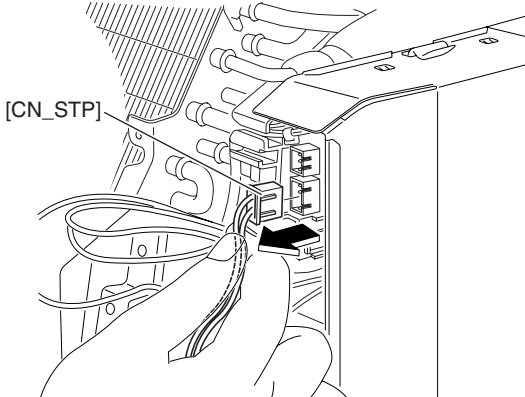
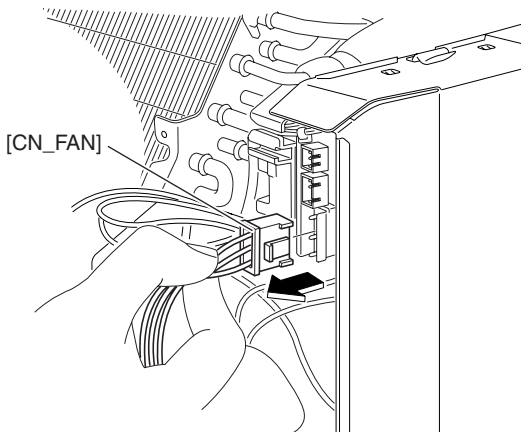
Procedure

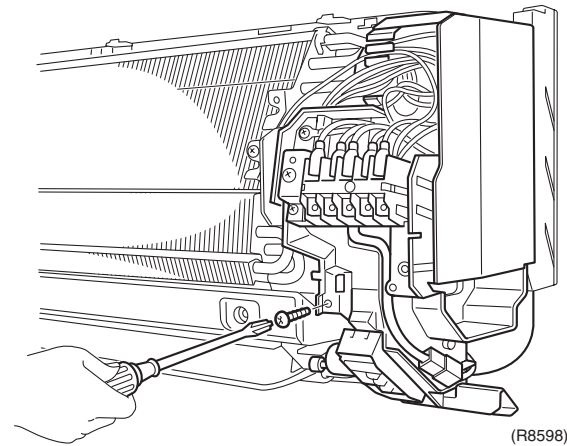
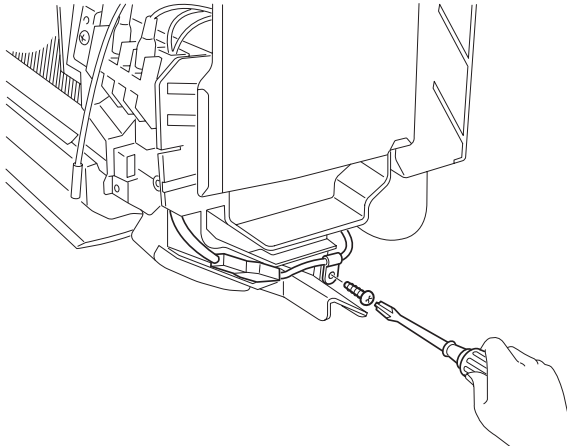
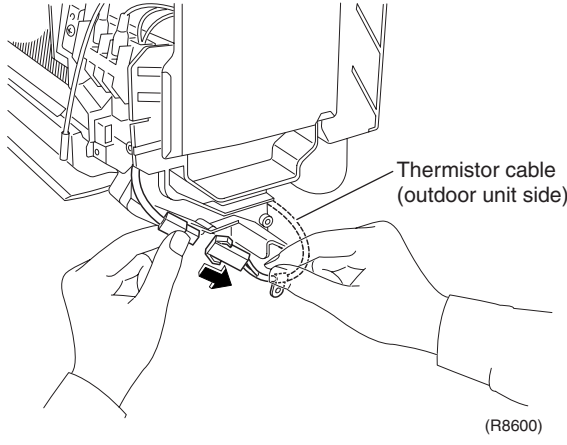


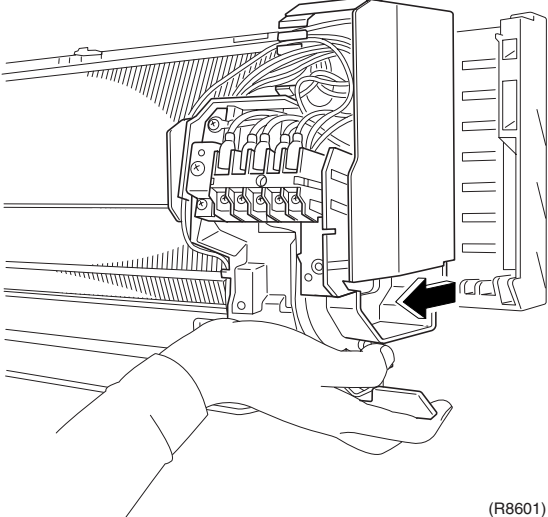
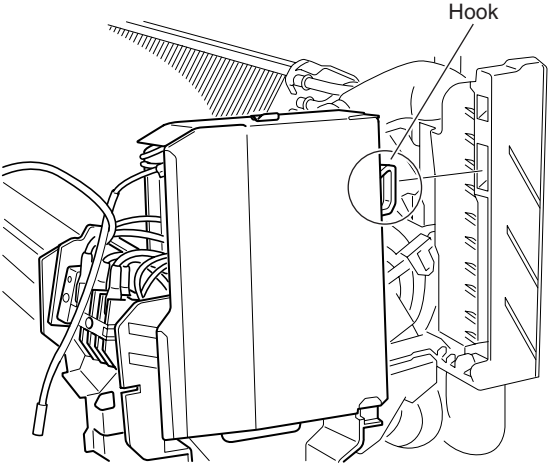
Warning

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Step	Procedure	Points
1. Disconnect the connecting wires		<p>Preparation</p> <ul style="list-style-type: none"> Remove the front grille according to the "Removal of Front Grille".
1 The figure shows the connections of wire harnesses.	<p>Electric wire retaining plate</p> <p>(R8590)</p>	<ul style="list-style-type: none"> The thermal fuse is a part of the terminal board.
2 Remove the screw of the electric wire retaining plate.	<p>(R8591)</p>	
3 Loosen the screws of the terminal board and disconnect the connecting wires.	<p>(R8592)</p>	
4 Pull out the heat exchanger thermistor.	<p>(R8593)</p>	

Step	Procedure	Points
2. Remove the electrical box.		
1	Disconnect the earth wire by removing the screw.	
	 <p style="text-align: right;">(R8594)</p>	
2	Disconnect the connector of the fan motor [CN_FANFB].	
	 <p style="text-align: right;">(R8595)</p>	
3	Disconnect the connector of the swing motor [CN_STP].	
	 <p style="text-align: right;">(R8596)</p>	
4	Disconnect the connector of the fan motor [CN_FAN].	
	 <p style="text-align: right;">(R8597)</p>	

Step	Procedure	Points
5	Remove the fixing screw of the electrical box.	
	 <p>(R8598)</p>	
6	Remove the screw of cable fixture for thermistor cable.	
	 <p>(R8599)</p>	
7	Disconnect the connecting wire for thermistor cable.	
	 <p>Thermistor cable (outdoor unit side)</p> <p>(R8600)</p>	

Step	Procedure	Points
8	<p>Pull the electrical box towards yourself.</p>  <p>(R8601)</p>	
9	<p>When mounting, fit the position of the hook and the groove.</p>  <p>(R8602)</p>	<ul style="list-style-type: none"> ■ There are a groove and a hook on the rear side.

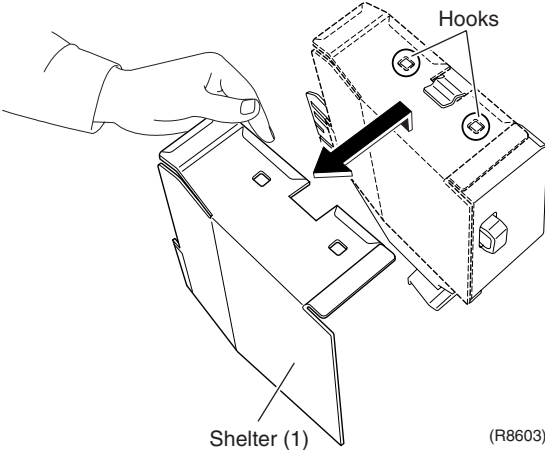
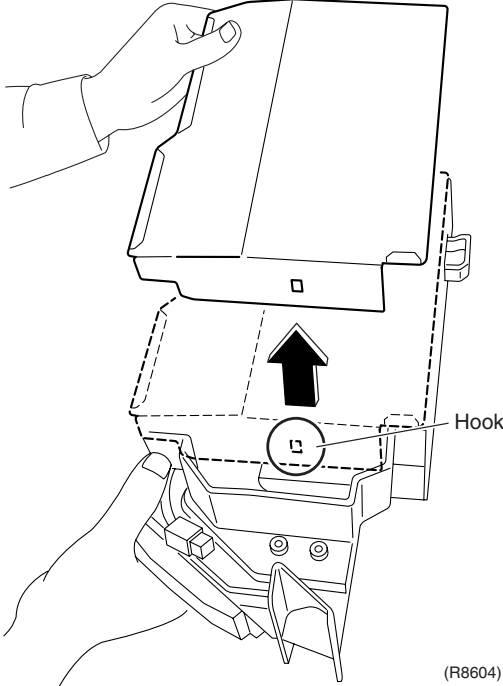
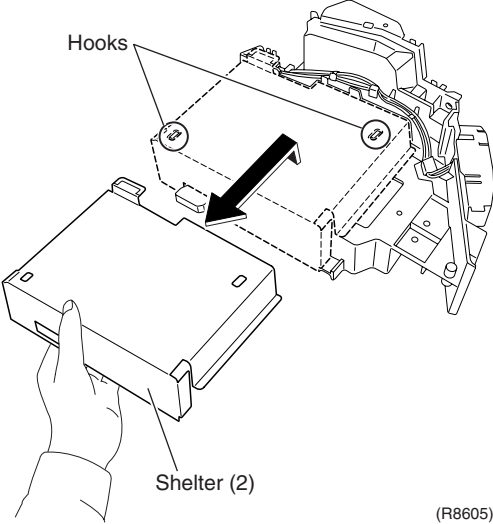
6. Removal of PCB / Swing Motor

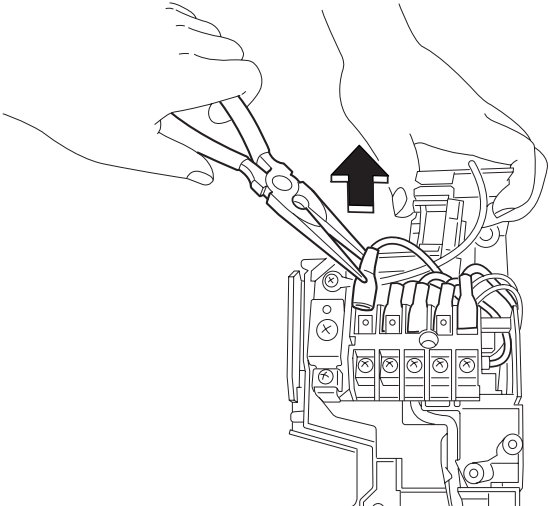
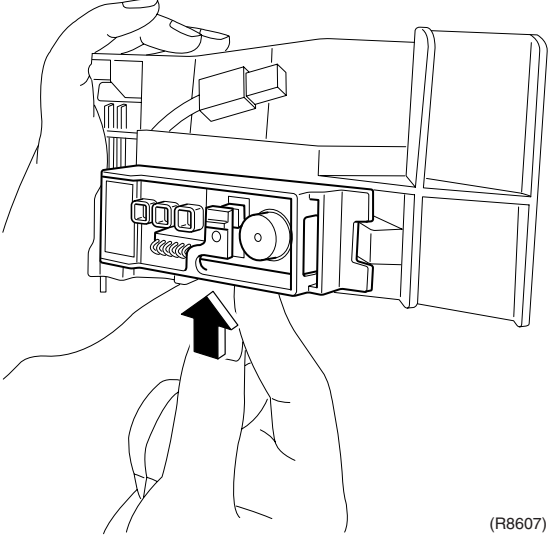
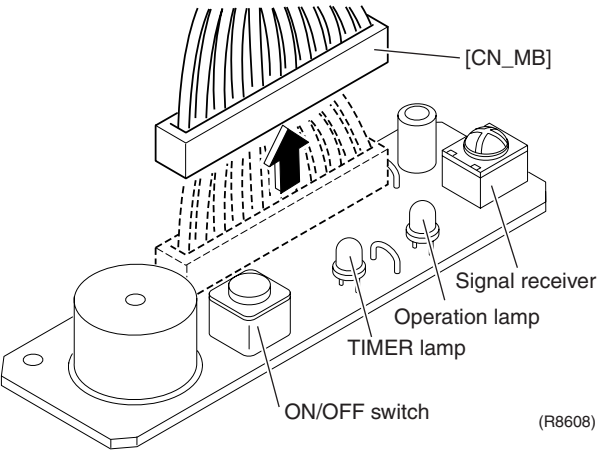
Procedure

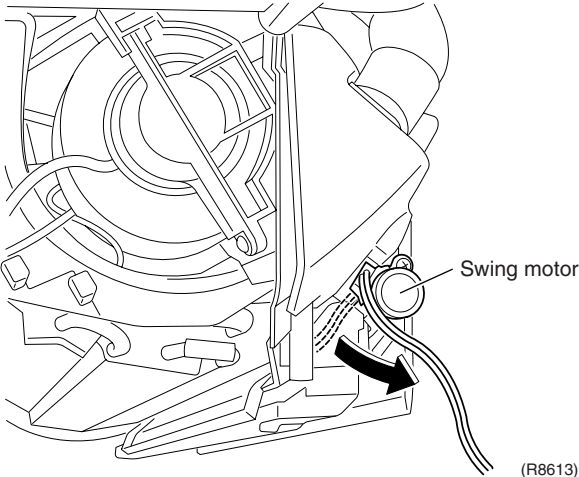
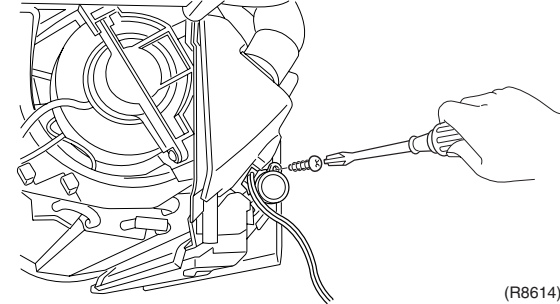
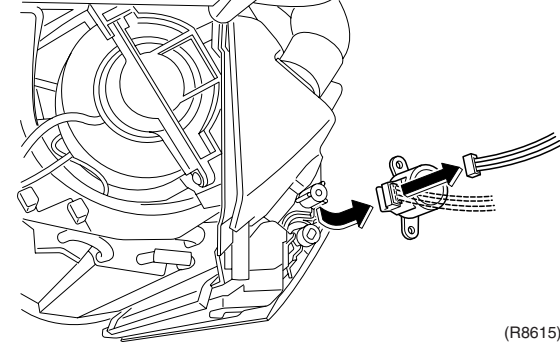


Warning

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Step	Procedure	Points
1. Removing the shelter	<p data-bbox="156 414 469 539">1 To remove the shelter (1), unfasten the hooks at the upper 2 positions of the shelter.</p>  <p data-bbox="719 831 820 853">Shelter (1)</p> <p data-bbox="999 831 1059 853">(R8603)</p> <p data-bbox="156 869 469 965">2 Unfasten the hook at the lower position, and remove the shelter (1).</p>  <p data-bbox="983 1547 1038 1570">(R8604)</p> <p data-bbox="156 1585 469 1648">3 Lift the shelter (2) and unfasten the 2 hooks.</p> <p data-bbox="156 1686 469 1749">4 Slide the shelter (2), and remove.</p>  <p data-bbox="692 2063 793 2085">Shelter (2)</p> <p data-bbox="975 2096 1034 2119">(R8605)</p>	<p data-bbox="1098 376 1241 405">Preparation</p> <ul data-bbox="1098 409 1437 506" style="list-style-type: none"> Remove the electrical box according to the "Removal of Electrical Box".

Step	Procedure	Points
5	<p>Disconnect the wire harnesses with pliers.</p>  <p>(R8606)</p>	
2.	<p>Removing the display PCB</p>	<p>Preparation</p> <ul style="list-style-type: none"> Remove the electrical box according to the "Removal of Electrical Box".
1	<p>Lift the lower part of the display PCB to remove.</p>  <p>(R8607)</p> <p>2 Disconnect the connector [CN_MB] from the display PCB.</p> <p>3 The figure shows the names of the display PCB component parts.</p>  <p>(R8608)</p>	

Step	Procedure	Points
3. Removing the swing motor		
1	Remove the screw of the swing motor.  (R8613)	
2	Disconnect the connector.  (R8614)  (R8615)	

7. Removal of Heat Exchanger

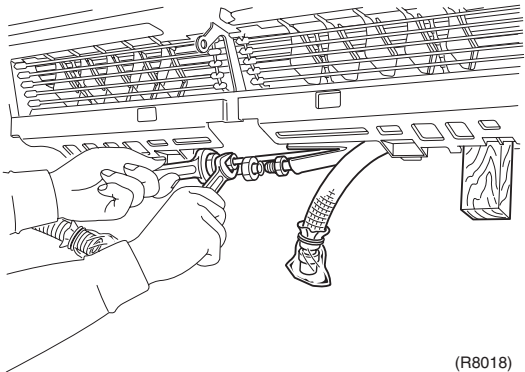
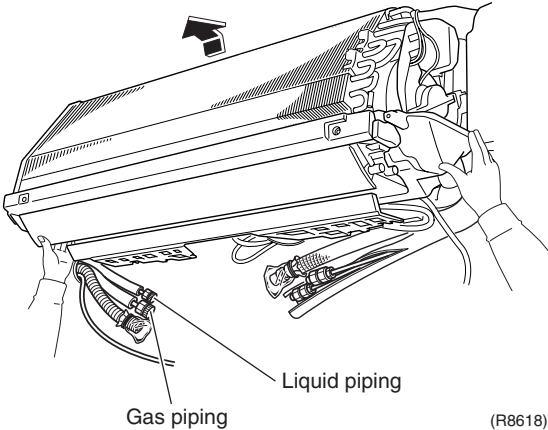
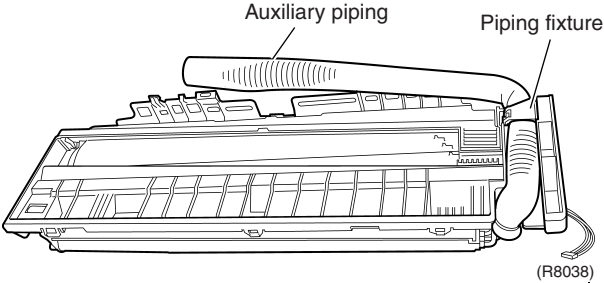
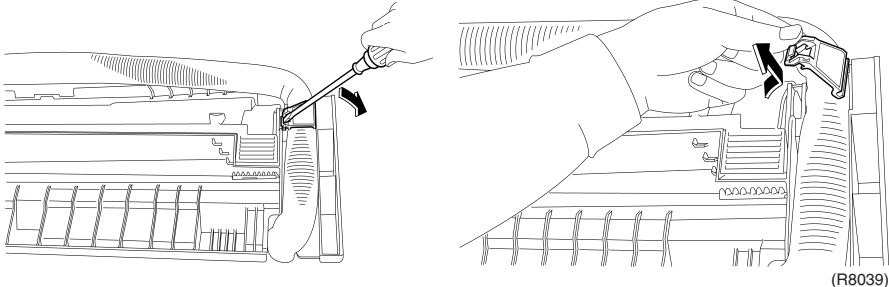
Procedure



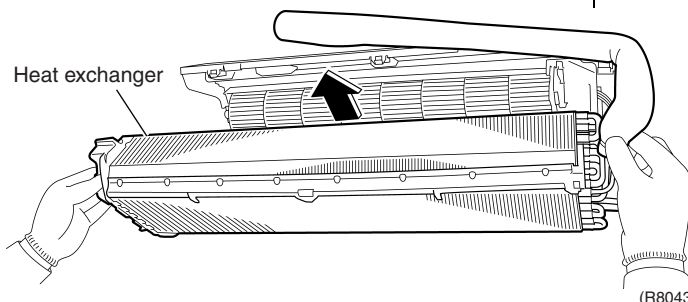
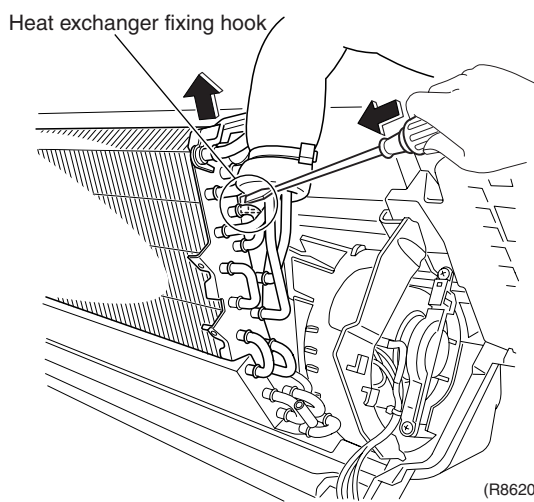
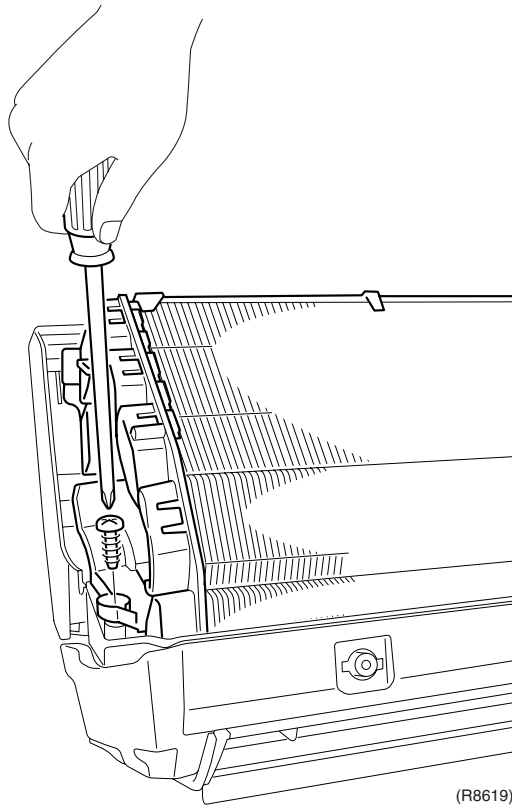
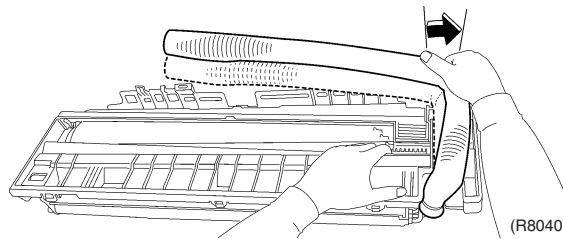
Warning

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

Step	Procedure	Points
1. Disconnecting the refrigerant pipe		<p>Preparation</p> <ul style="list-style-type: none"> Remove the electrical box according to the "Removal of Electrical Box".
1 Remove the screws which fix the heat exchanger to the installation plate.		<p>Caution</p> <p>In pump-down work, be sure to stop the compressor before disconnecting the refrigerant pipe. If the refrigerant pipe is disconnected with the compressor being operated and the stop valve being open, air may be sucked in to generate an over-pressure in refrigeration cycle, thus resulting in pipe rupture or accidental injury.</p>
2 Lift the indoor unit by a wooden base.		<ul style="list-style-type: none"> If the drain hose is embedded in the wall, disconnect the drain hose beforehand.
3 Place a plastic sheet under the drain pan to prevent from wetting the floor with remaining drain.		
4 Unscrew the flare nut for gas piping by 2 wrenches.		<p>Caution</p> <p>From the point of view of environmental protection, be sure to use a vacuum pump for air purging.</p>

Step	Procedure	Points
5	<p>Unscrew the flare nut for liquid piping by 2 wrenches.</p>  <p>(R8018)</p>	
2. Removing the indoor unit	<p>1 Remove the indoor unit from the installation plate.</p>  <p>(R8618)</p> <p>2 Release the hook of the piping fixture on the back of the unit.</p>  <p>(R8038)</p>  <p>(R8039)</p>	<p>■ When the pipes are disconnected, protect the both openings of pipe side and unit side from entering of moisture.</p>

Step	Procedure	Points
3	Slightly widen the auxiliary piping.	
4	Unscrew the fixing screw on the left side.	<p>⚠ Caution When dismantling or mounting the heat exchanger, be sure to wear gloves or wrap it with cloth before proceeding to the work. (You may be injured by the fins.)</p>
5	Push and undo the heat exchanger fixing hook on the right side and lift up the heat exchanger.	
6	Pull the heat exchanger to the front side and undo the hooks completely, and then lift it.	



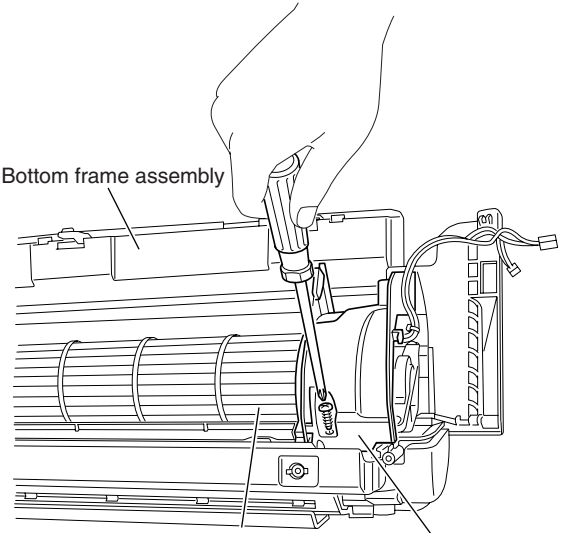
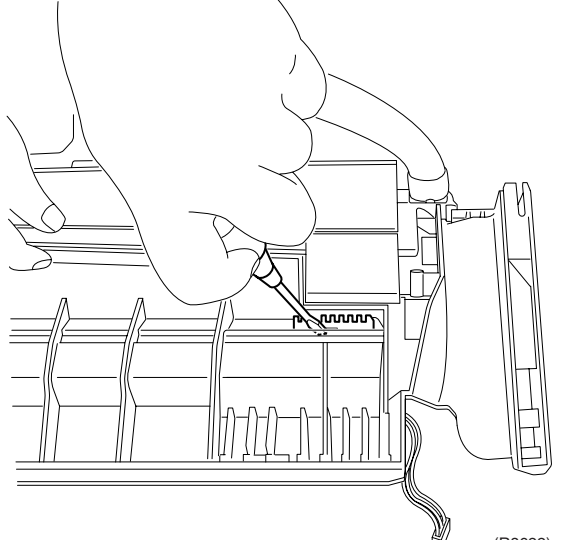
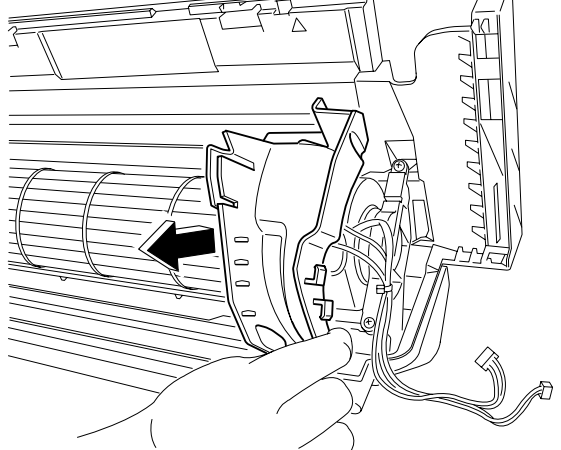
8. Removal of Fan Rotor

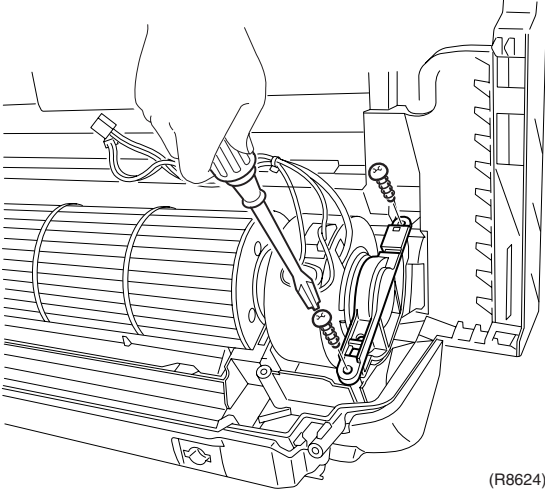
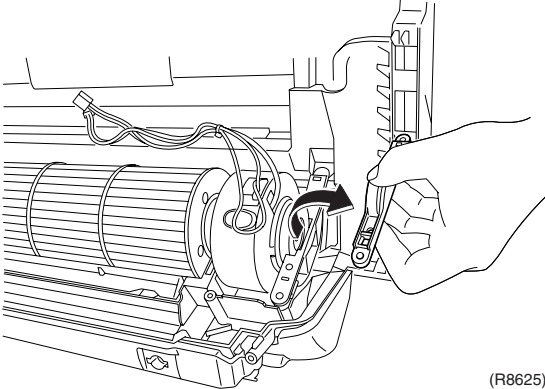
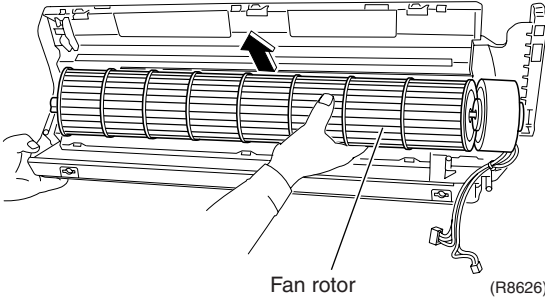
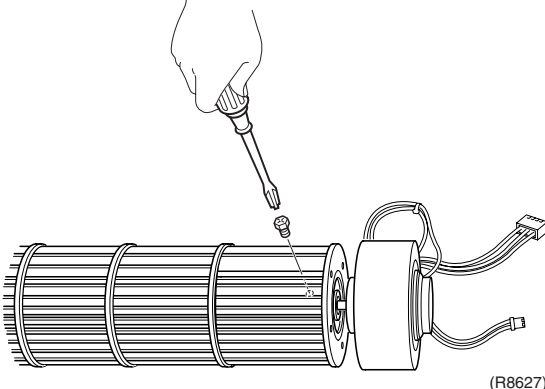
Procedure

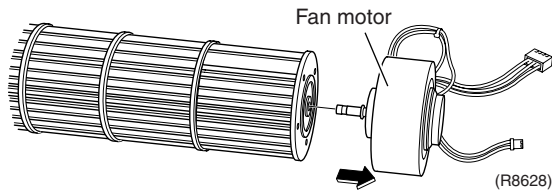
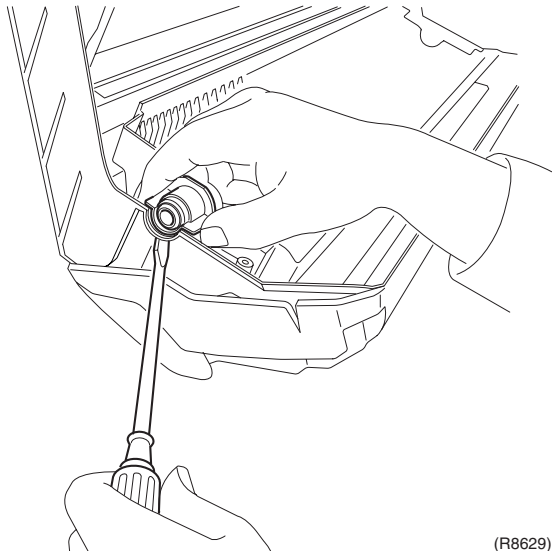
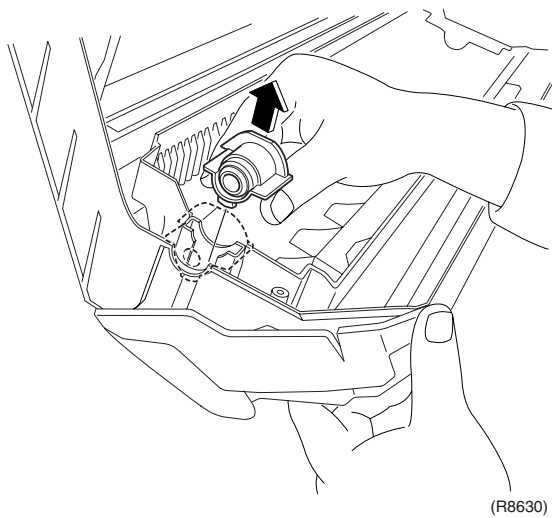


Warning

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

Step	Procedure	Points
1. Remove the right side panel	 <p>(R8621)</p>	Preparation ■ Remove the heat exchanger according to the "Removal of Heat Exchanger".
1 Loosen the screw of the side panel (right).	 <p>(R8622)</p>	
2 Undo the hook of the side panel by a flat driver (back).	 <p>(R8623)</p>	
3 Remove the side panel (right).		

Step	Procedure	Points
2.	Remove the fan rotor and fan motor	
1	Remove the screw of the fan motor (right). 	
2	Unfasten the hook of the motor fixture to remove. 	
3	Lift up the right side and slide, then remove the fan rotor. 	
4	Remove the screw of the fan rotor. 	

Step	Procedure	Points
5	Remove the fan motor. 	
6	Unfasten the hook of the bearing by a flat driver. 	
7	Remove the bearing. 	

9. Exchange of Drain Hose

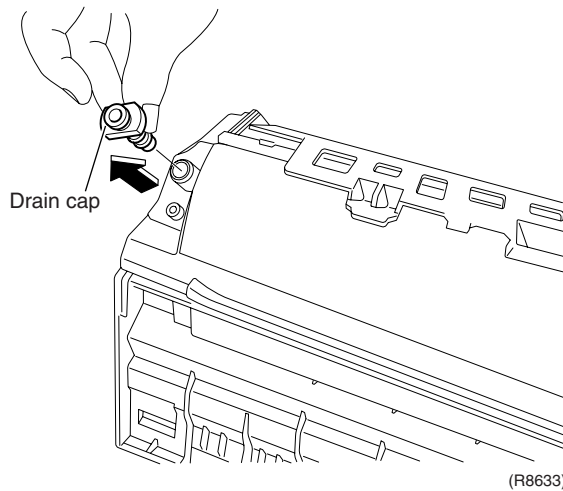
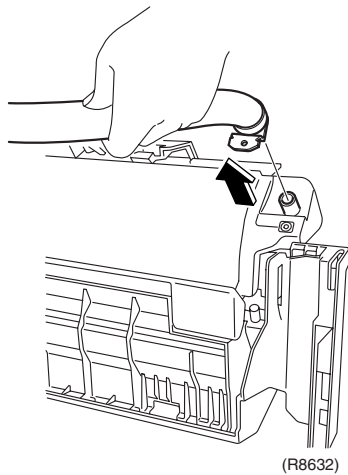
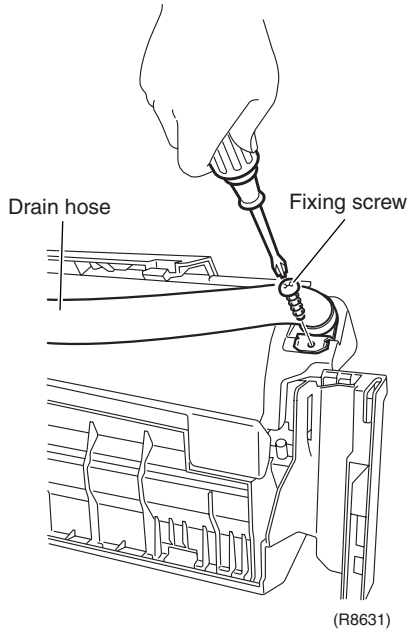
Procedure

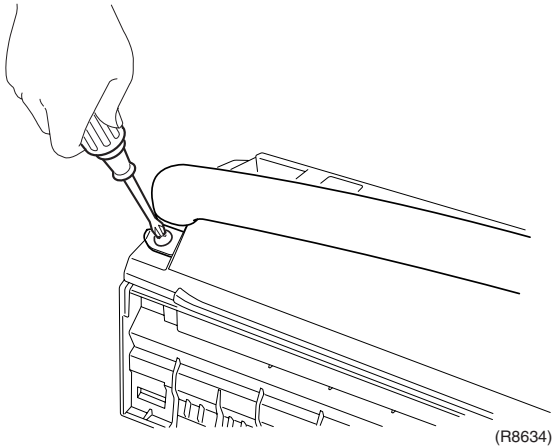



Warning

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Step	Procedure	Points
1	Remove the fixing screw on the right side and remove the drain hose.	<ul style="list-style-type: none"> ■ To prevent water leakage, make sure to mount the fixing screw as it was.
2	Remove the drain cap located at the left side.	<ul style="list-style-type: none"> ■ Use a 4mm Allen wrench.



Step	Procedure	Points
3	<p data-bbox="201 215 472 342">Insert the drain hose to the left side, and tighten with the heat insulate fixing screw.</p>  <p data-bbox="1002 685 1062 703">(R8634)</p>	<p data-bbox="1114 226 1174 277"> Caution</p> <p data-bbox="1098 277 1437 443">Do not thrust in the drain plug with a sharp-pointed tool like a screwdriver. (The drain plug may be broken, resulting in water leakage.)</p>

Revision History

Month / Year	Version	Revised contents
06 / 2013	Si04-859	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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