

# REMOVAL PROCEDURE



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

### 3.5 kW Class

-  Outdoor Unit
-  Inverter
-  Pair Type



# **Service Manual Removal Procedure**

## **Outdoor Unit**

●Heat Pump  
RXR35HV2C

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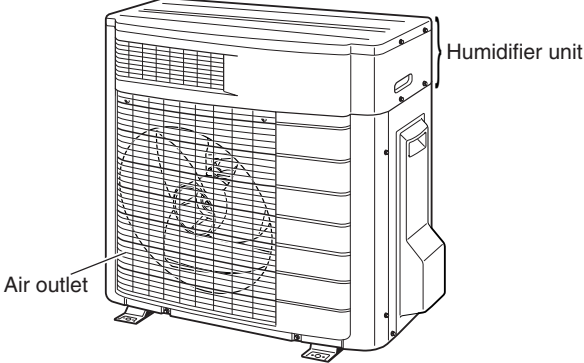
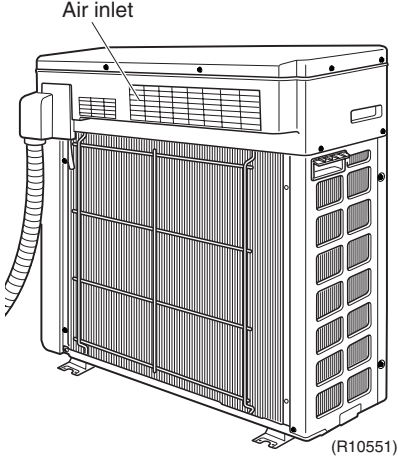
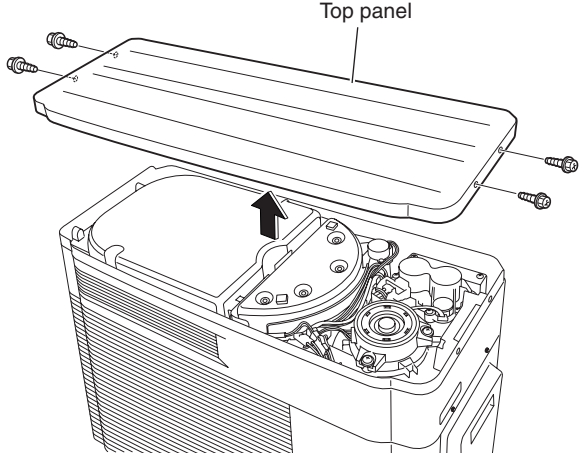
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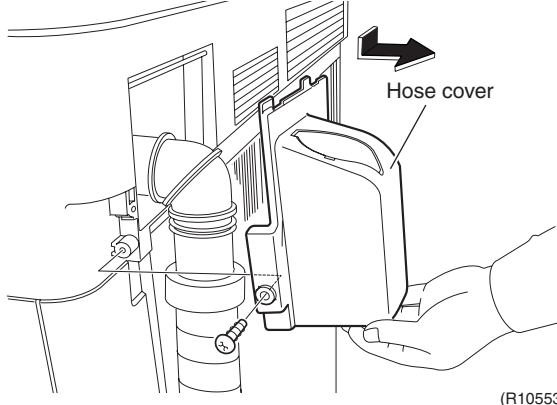
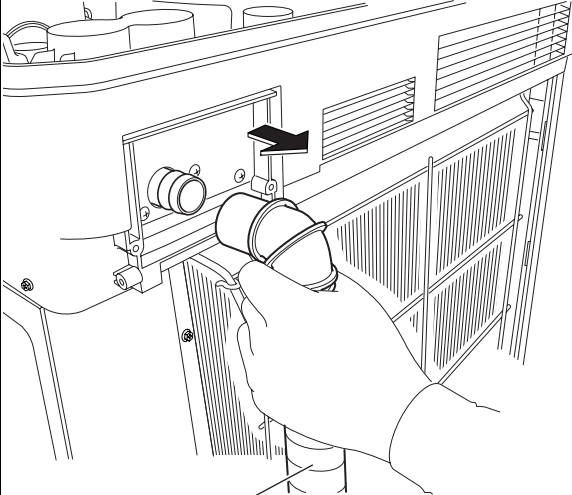
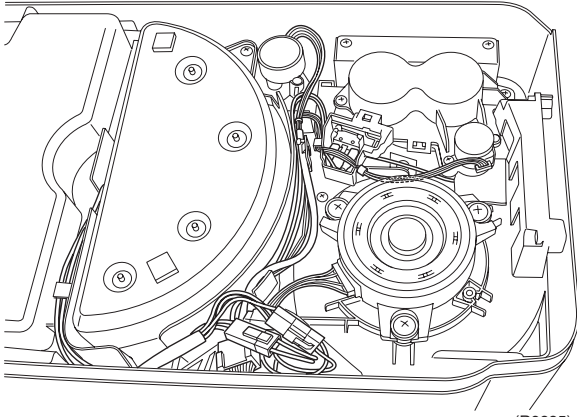
# 1. Removal of Humidifier Unit

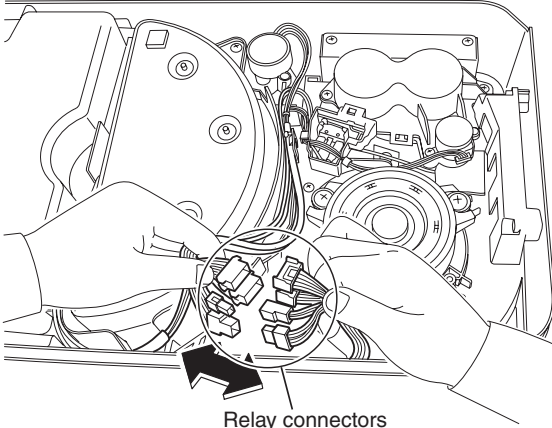
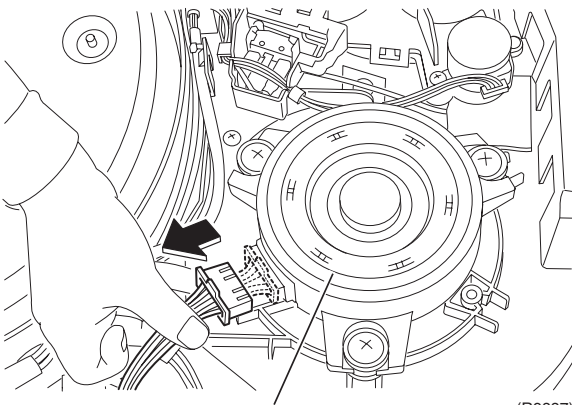
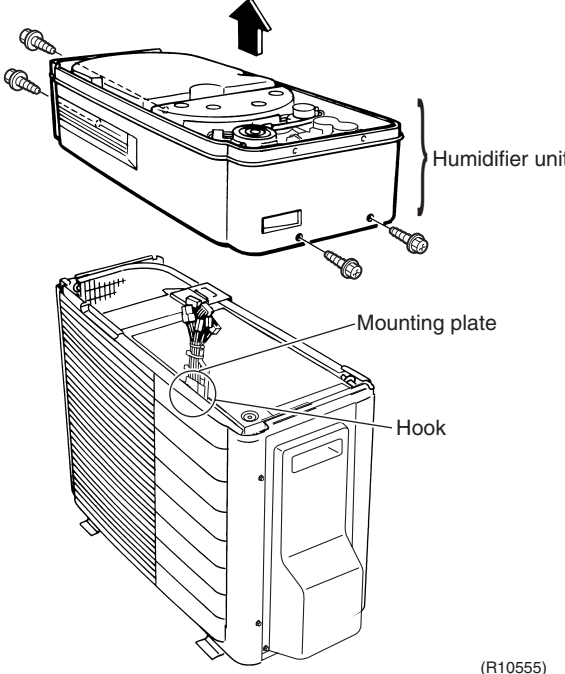
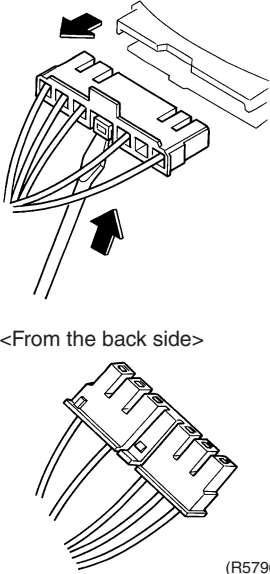
**Procedure**



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

Step	Procedure	Points
<p>1. External appearance</p>	 <p>(R10550)</p>  <p>(R10551)</p>	
<p>2. Removal of the humidifier unit</p> <p>1 Remove the 4 screws and lift up the top panel to remove.</p>	 <p>(R10552)</p>	

Step	Procedure	Points
2	<p>Remove the screw and the hose cover.</p>  <p style="text-align: right;">(R10553)</p>	
3	<p>Pull out the humidifying hose.</p>  <p style="text-align: right;">(R10554)</p>	
4	<p>The figure shows the arrangement of the relay harness.</p>  <p style="text-align: right;">(R9885)</p>	<ul style="list-style-type: none"> <li>■ Be sure to wait 10 minutes or more after turning off the power supply before disconnecting the connectors.</li> </ul>

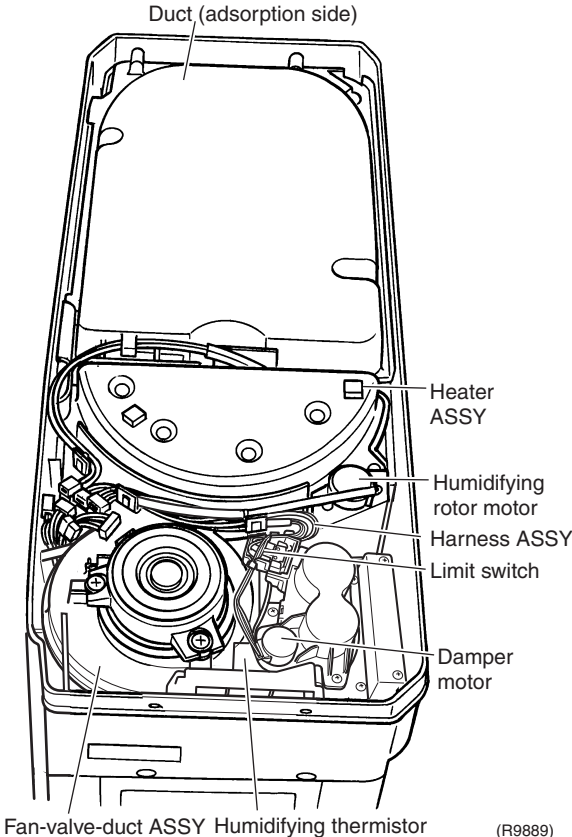
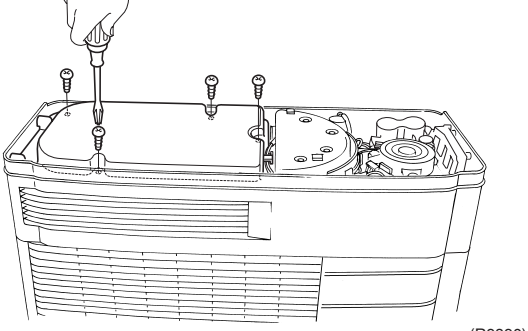
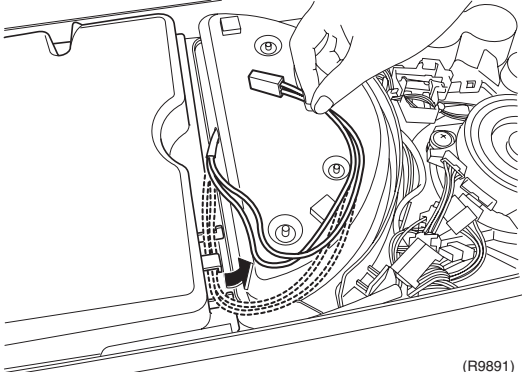
Step	Procedure	Points
5	<p>Disconnect the 4 relay connectors.</p>  <p>Relay connectors (R9886)</p>	<ul style="list-style-type: none"> <li>Do not pull the harnesses from the outdoor unit strongly so as not to loose the hook of the mounting plate. (See the illustration below on this page for the mounting plate.)</li> </ul>
6	<p>Disconnect the connector for humidifier fan motor.</p>  <p>Humidifier fan motor (R9887)</p>	<ul style="list-style-type: none"> <li>Be sure to wait for 10 minutes or more after turning off the power supply before disconnecting the connectors.</li> <li>Pull out the connector while pushing up the hook on the bottom side.</li> </ul>
7	<p>Remove the 4 screws of the humidifier unit and lift it up to remove.</p>  <p>Humidifier unit (R10555)</p> <p>Mounting plate</p> <p>Hook</p>	 <p>&lt;From the back side&gt;</p> <p>(R5796)</p> <ul style="list-style-type: none"> <li>When lifting up the humidifier unit, be careful not to pull the relay harnesses forcibly.</li> <li>When reassembling the humidifier unit, make sure the mounting plate is hooked and do not forget to connect the relay connectors.</li> </ul>

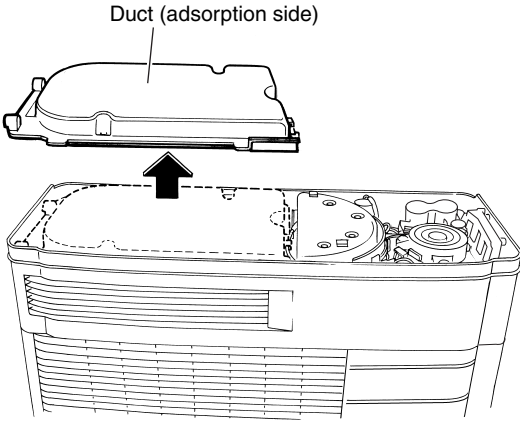
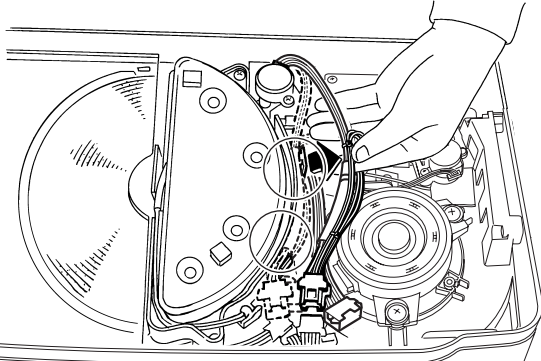
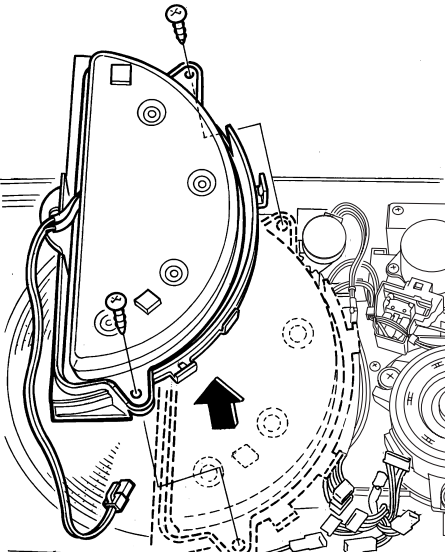
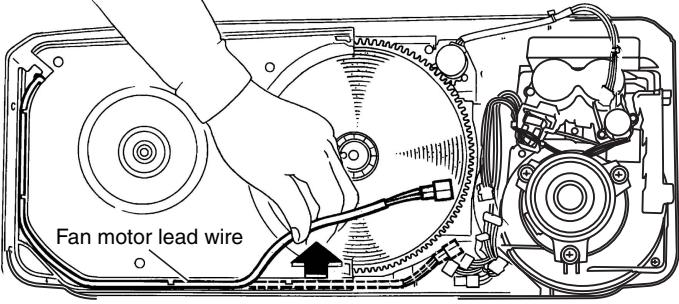
## 2. Removal of Heater ASSY / Humidifying Rotor (Moisture Adsorption Element) / Humidifying Rotor Motor

### Procedure

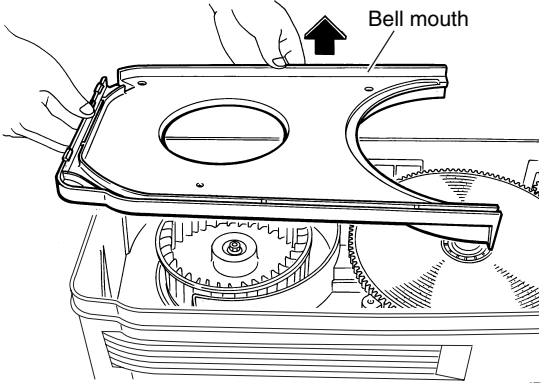
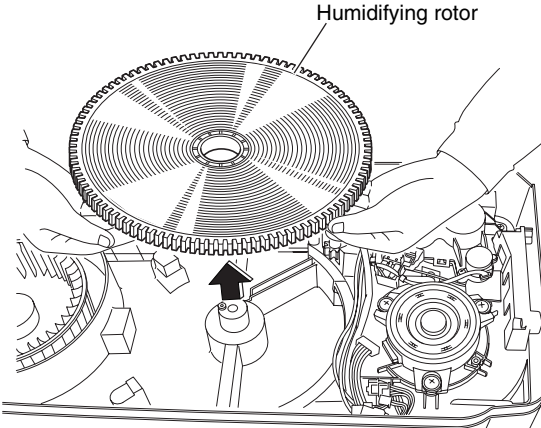
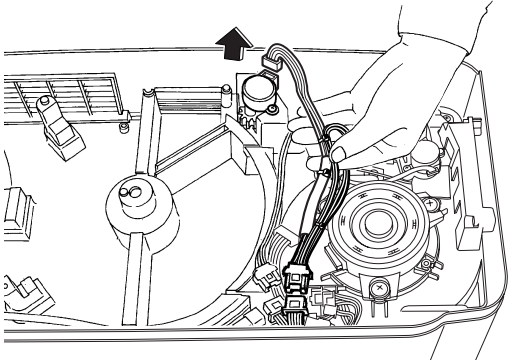
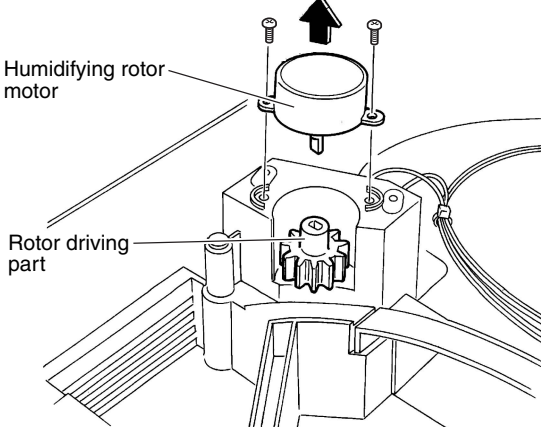


**Warning** Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
Internal structure of the humidifier unit		<p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>■ Remove the top panel according to "Removal of Humidifier Unit".</li> <li>■ The humidifying rotor is located under the heater ASSY and the duct.</li> </ul>
1. Removal of the heater ASSY		
1 Remove the 4 screws of the duct on adsorption side.		
2 Detach the harness for heater from the groove.		

Step	Procedure	Points
<p>3 Remove the duct.</p>	<p>Duct (adsorption side)</p>  <p>(R9892)</p>	
<p>4 Release the lead wire for humidifying rotor motor from the 2 hooks.</p>	 <p>(R9893)</p>	
<p>5 Remove the 2 screws to remove the heater ASSY.</p>	 <p>(R9894)</p>	<p>■ Do not disassemble the heater ASSY into small parts.</p>
<p>2. Removal of the humidifying rotor.</p>		
<p>1 Detach the lead wire for fan motor from the groove.</p>	 <p>Fan motor lead wire</p> <p>(R9898)</p>	



Step	Procedure	Points
2	Remove the bell mouth on adsorption side.  <p style="text-align: right;">(R9899)</p>	<ul style="list-style-type: none"> <li>■ A heat catalyst (black) is applied on the upper side.</li> </ul>
3	Lift the humidifying rotor up to remove.  <p style="text-align: right;">(R9900)</p>	
3. Removal of the humidifying rotor motor	<p>1 Disconnect the connector for the humidifying rotor motor.</p>  <p style="text-align: right;">(R9901)</p> <p>2 Remove the 2 screws of the humidifying rotor motor.</p>  <p style="text-align: right;">(R9902)</p>	

### 3. Removal of Damper Motor

**Procedure**



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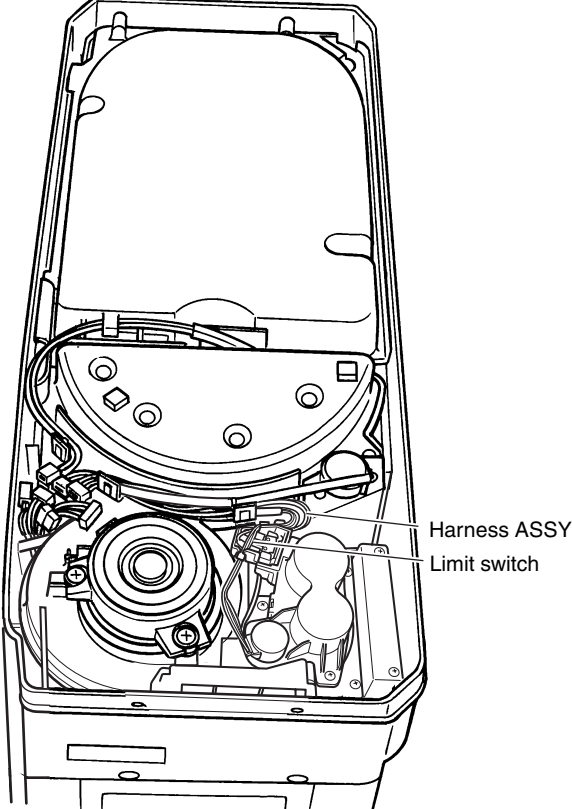
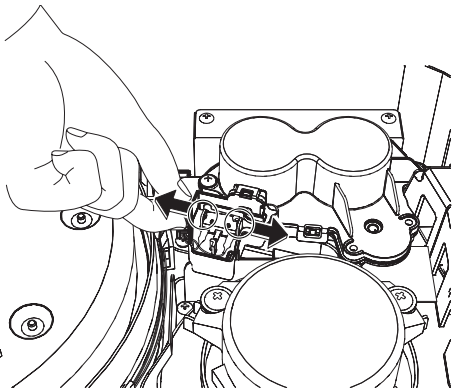
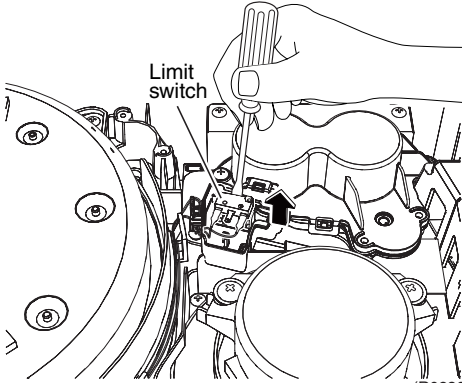
Step	Procedure	Points
<p>1. Removal of the damper motor</p>	<p style="text-align: right;">Harness ASSY Damper motor Humidifying thermistor (R10348)</p>	<ul style="list-style-type: none"> <li>■ Disconnect the connector for the humidifying rotor motor.</li> </ul>
<p>1 Disconnect the connector for the damper motor.</p>	<p style="text-align: right;">(R0232)</p>	
<p>2 Remove the 2 screws and remove the damper motor.</p>	<p style="text-align: right;">(R0233)</p>	

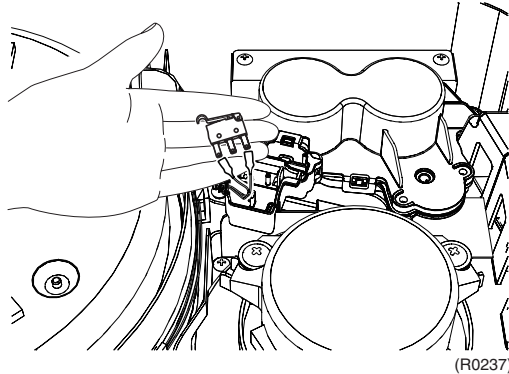
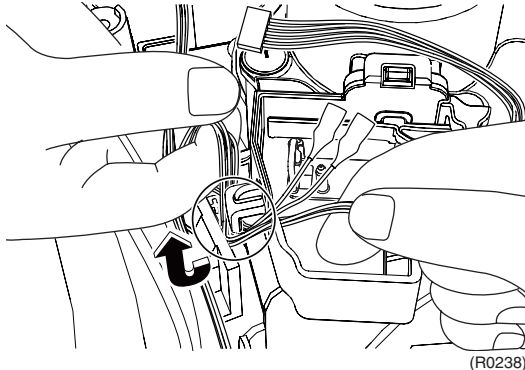
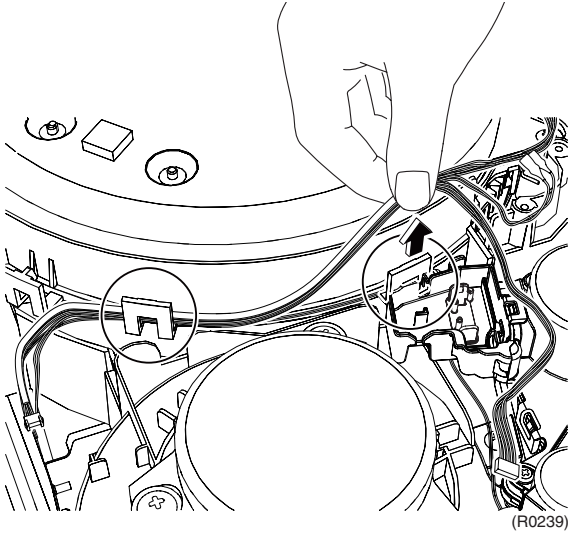
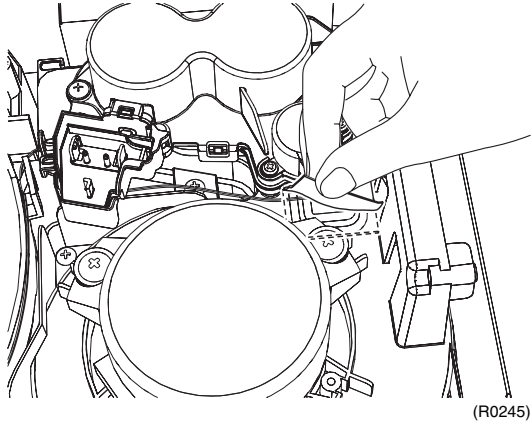
# 4. Removal of Limit Switch / Humidifying Thermistor

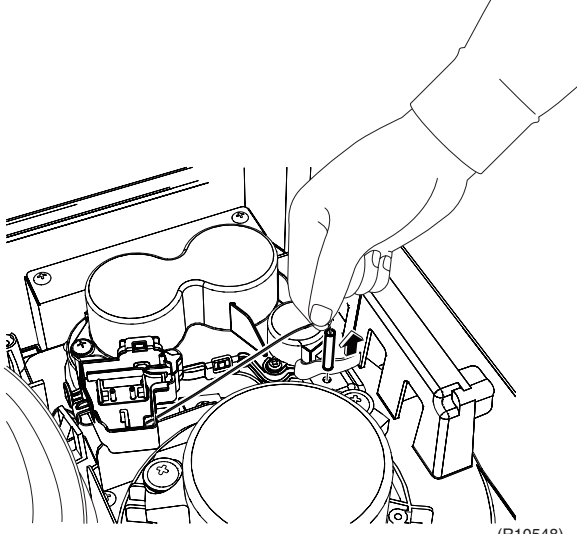
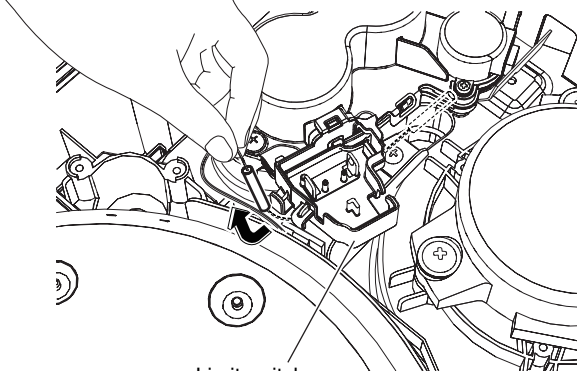
**Procedure**



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Step	Procedure	Points
<p>1. Removal of the limit switch</p>	 <p>(R10820)</p> <p>1 Open the hooks.</p>  <p>(R0235)</p> <p>2 Push up the limit switch with a flat screwdriver.</p>  <p>(R0236)</p>	

Step	Procedure	Points
<p>3 Disconnect the terminals.</p> <p>4 Release the harness from the hooks and remove the harness ASSY.</p>	 <p>(R0237)</p>  <p>(R0238)</p>  <p>(R0239)</p>	
<p>2. Removal of the humidifying thermistor</p>	<p>1 Peel off the seal material.</p>  <p>(R0245)</p>	<ul style="list-style-type: none"> <li>■ When replacing the humidifying thermistor, order a seal material together.</li> </ul>

Step	Procedure	Points
2	<p data-bbox="212 219 475 277">Pull out the humidifying thermistor.</p>  <p data-bbox="994 788 1062 808">(R10548)</p>  <p data-bbox="692 1258 863 1279">Limit switch cover</p> <p data-bbox="1007 1279 1075 1299">(R10547)</p>	<ul style="list-style-type: none"><li data-bbox="1102 815 1455 909">■ When reassembling, put the harness through under the limit switch cover.</li></ul>

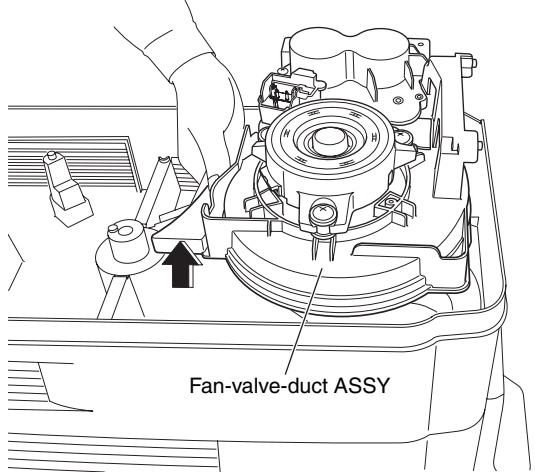
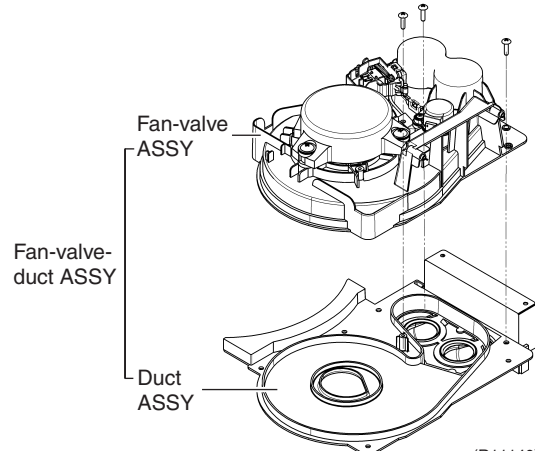
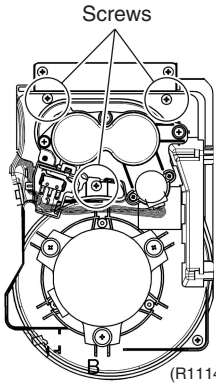
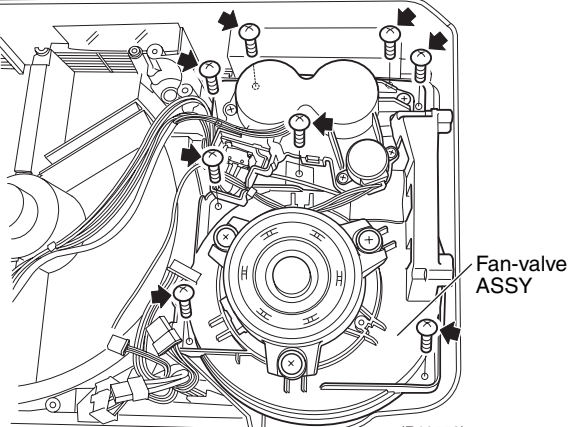
# 5. Removal of Fan-valve-duct ASSY / Fan-valve ASSY / Duct ASSY

**Procedure**



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

Step	Procedure	Points
	<div style="text-align: center;"> <p>(R10349)</p> </div>	<p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>■ Remove the heater ASSY and the humidifying rotor.</li> <li>■ The humidifying rotor is located under the heater ASSY and the duct.</li> </ul>
<p>1</p>	<p>Remove the 7 screws of the fan-valve-duct ASSY.</p>	
<p>2</p>	<div style="text-align: center;"> <p>(R0242)</p> <p>Fan-valve-duct ASSY</p> </div> <div style="text-align: center;"> <p>(R0243)</p> </div>	<ul style="list-style-type: none"> <li>■ Release the hooks while bending the right side panel.</li> </ul>

Step	Procedure	Procedure	Points
3	Lift up the fan-valve-duct ASSY to remove.	 <p style="text-align: center;">Fan-valve-duct ASSY</p> <p style="text-align: right;">(R0244)</p>	
4	Remove the 3 screws to separate the fan-valve ASSY from the duct ASSY.	 <p style="text-align: right;">(R11140)</p>	 <p style="text-align: right;">(R11141)</p>
5	To remove the fan-valve ASSY, you do not have to remove the duct ASSY from the humidifier unit. Remove the 8 screws at the beginning.	 <p style="text-align: right;">(R10558)</p>	<ul style="list-style-type: none"> <li>■ Do not disassemble the fan-valve ASSY or the duct ASSY. Replace them as units.</li> </ul>

# 6. Removal of Hygroscopic Fan Rotor / Hygroscopic Fan Motor

**Procedure**



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Step	Procedure	Points
1. Removal of the hygroscopic fan rotor ASSY	<p>(R9928)</p>	<p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>Remove the humidifying rotor according to "Removal of Humidifying Rotor".</li> </ul>
<p>1 Disconnect the connector for fan motor and remove the bell mouth on adsorption side.</p> <p>2 Unscrew the fan fixing nut (M6) of the hygroscopic fan rotor ASSY (sirocco fan rotor ASSY) and remove.</p>	<p>Fan fixing nut</p> <p>Hygroscopic fan rotor ASSY</p> <p>(R5821)</p>	<ul style="list-style-type: none"> <li>When reassembling, align the ▼ mark and D cut of the motor shaft.</li> <li>Wrench size: 10 mm</li> </ul>
2. Removal of the hygroscopic fan motor	<p>(R5822)</p>	<ul style="list-style-type: none"> <li>Lift the motor cover first and pull out.</li> </ul>
<p>1 Remove the 3 screws of the motor cover.</p> <p>2 Remove the hygroscopic fan motor.</p>	<p>Hygroscopic fan motor</p> <p>Motor cover</p> <p>(R5823)</p>	<p>(R5824)</p>



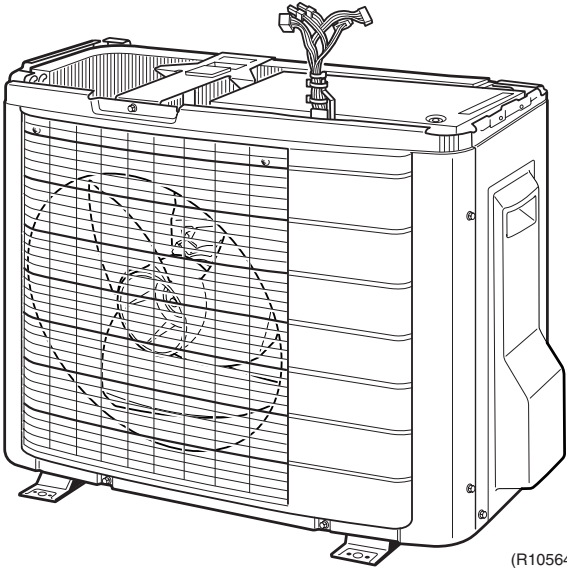
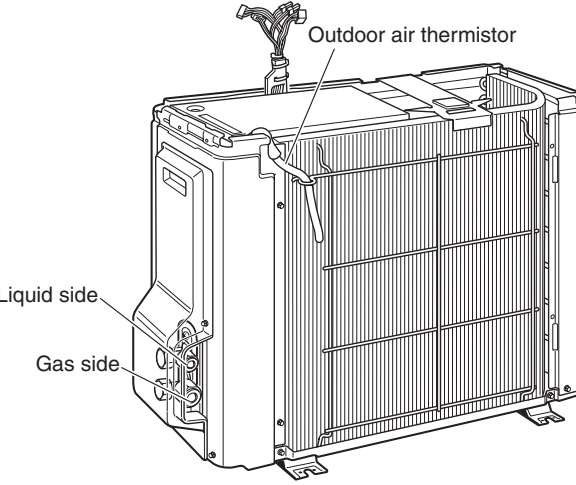
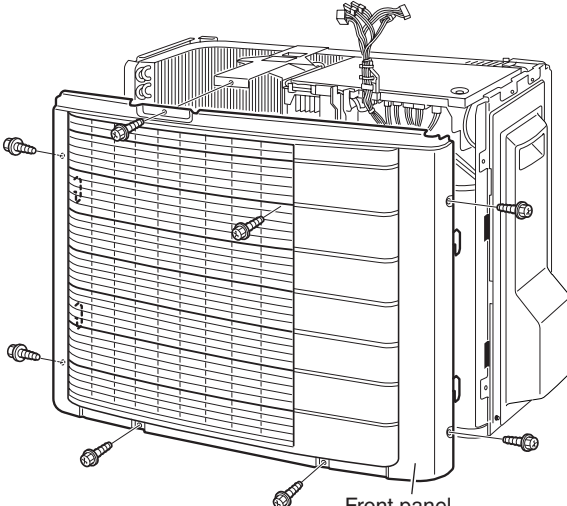
## 7. Removal of Panels and Plates

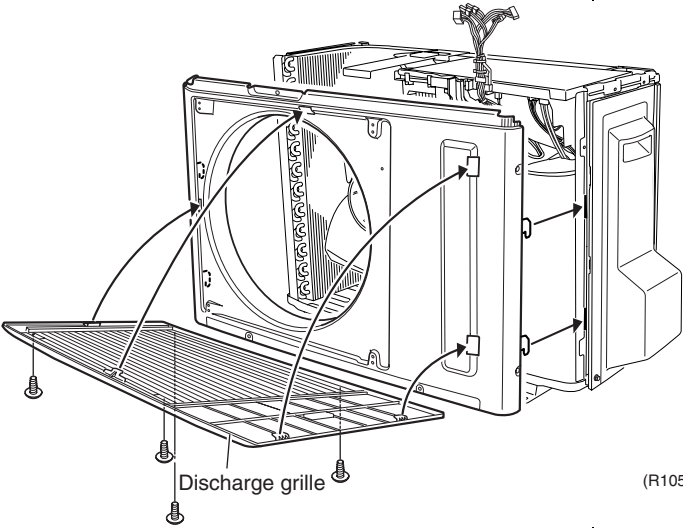
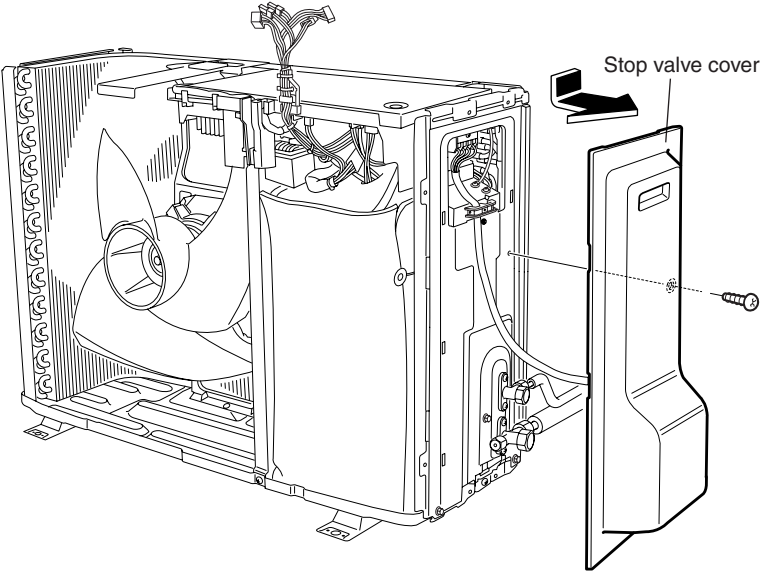
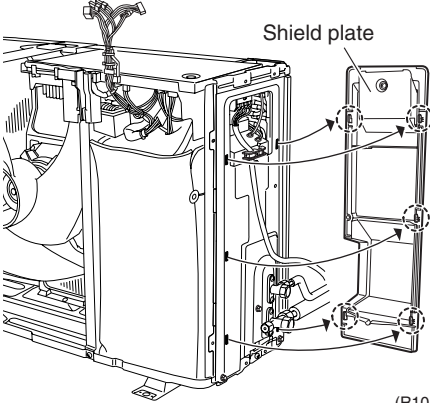
### Procedure



### Warning

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Step	Procedure	Procedure	Points
1	External appearance.	 <p>(R10564)</p>  <p>(R10565)</p>	<ul style="list-style-type: none"> <li>■ Remove the humidifying unit.</li> <li>■ Do not release the mounting plate at this point.</li> </ul>
2	Remove the 8 screws to remove the front panel.	 <p>(R10566)</p>	<ul style="list-style-type: none"> <li>■ The front panel has 4 hooks.</li> <li>■ The bell mouth cannot be removed.</li> </ul>

Step	Procedure	Points
3	<p>Remove the 4 screws and release the 4 hooks to remove the discharge grille.</p>  <p style="text-align: center;">Discharge grille</p> <p style="text-align: right;">(R10567)</p>	<ul style="list-style-type: none"> <li>■ When reassembling, make sure to fit the 4 hooks.</li> </ul>
4	<p>Remove the screw of the stop valve cover and remove it.</p>  <p style="text-align: right;">Stop valve cover</p> <p style="text-align: right;">(R10568)</p>	<ul style="list-style-type: none"> <li>■ The stop valve cover is united with the shield plate.</li> <li>■ When assembling the stop valve cover, make sure to fit the 5 hooks.</li> </ul>
	 <p style="text-align: center;">Shield plate</p> <p style="text-align: right;">(R10569)</p>	<ul style="list-style-type: none"> <li>■ The stop valve cover is united with the shield plate.</li> <li>■ When assembling the stop valve cover, make sure to fit the 5 hooks.</li> </ul>

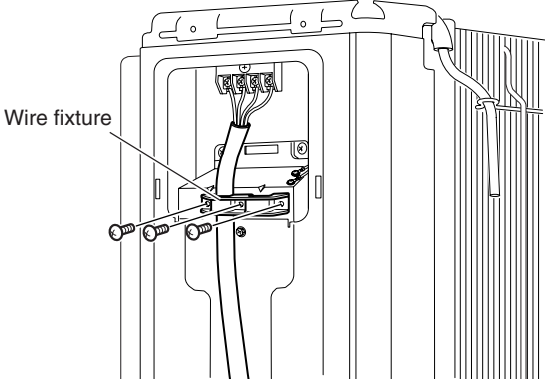
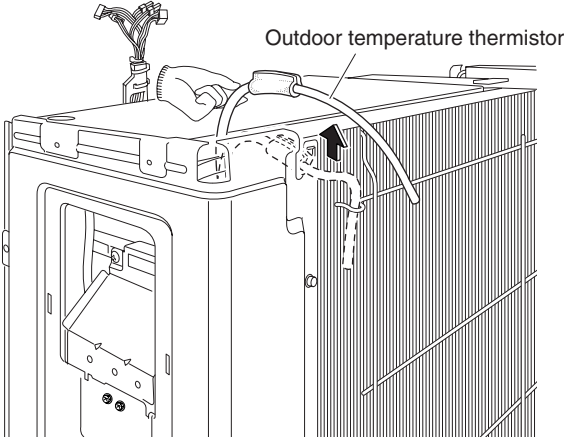
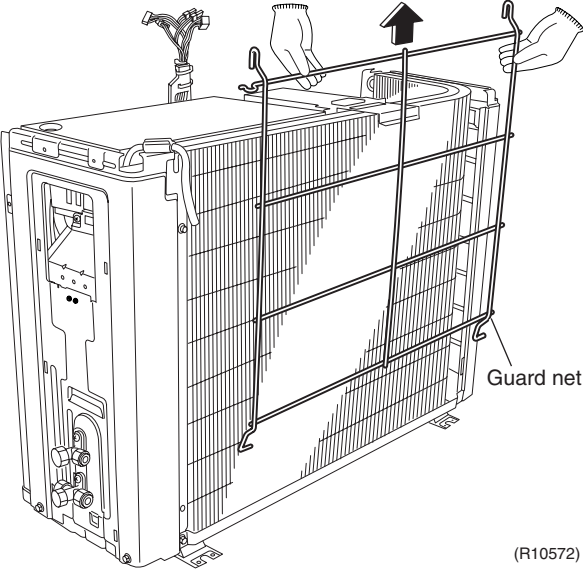
# 8. Removal of Electrical Box

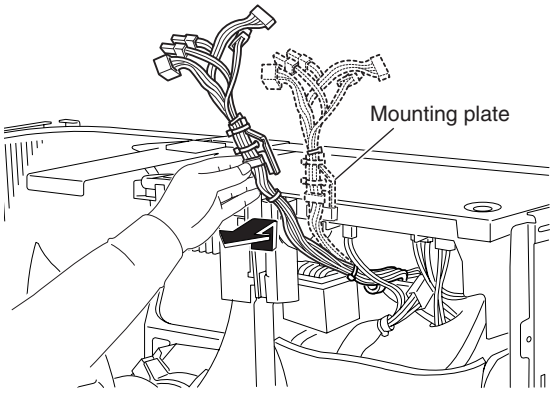
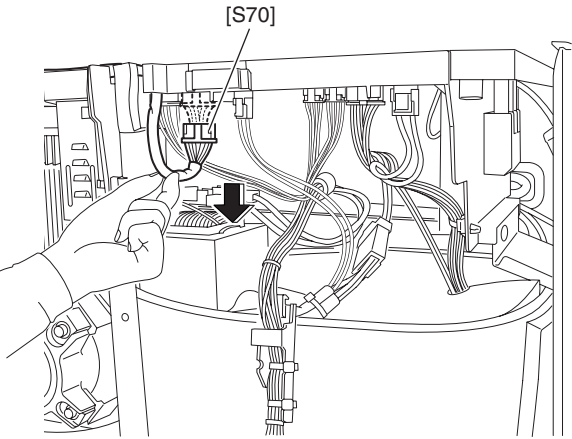
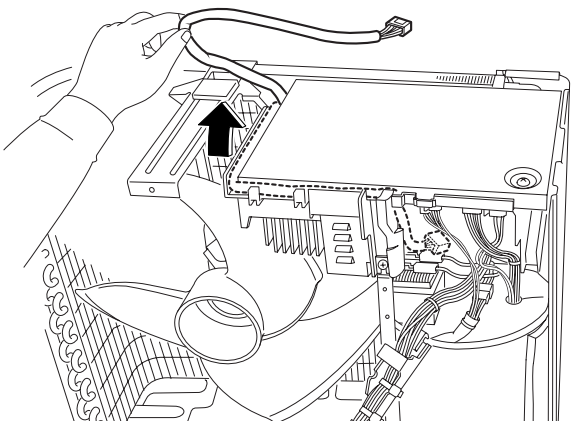
## Procedure



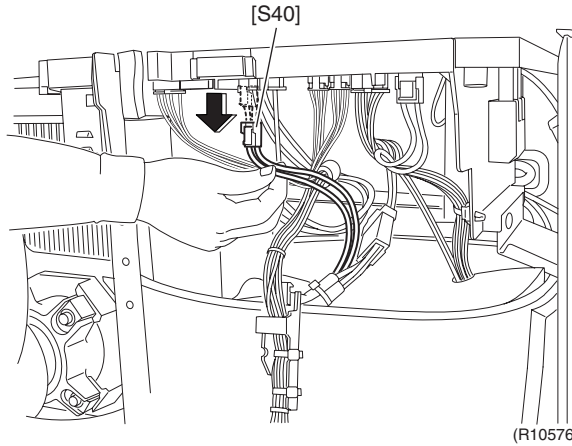
### Warning

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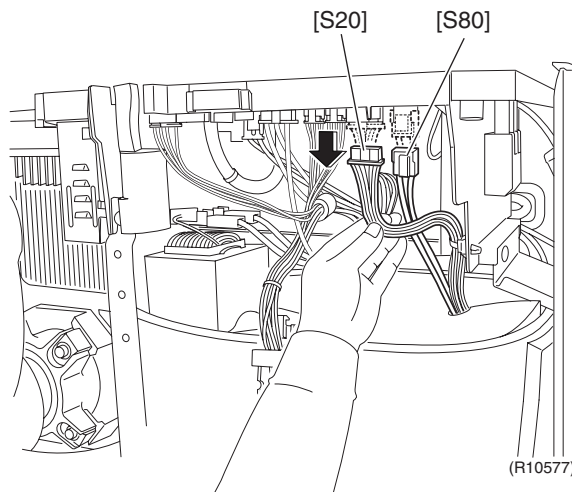
Step	Procedure	Points
<p>1. Disconnect the connecting wires</p> <p>1 Remove the 3 screws to remove the wiring fixture. Then, remove the all screws to disconnect the power supply cable and the connecting wires.</p>	 <p>(R18542)</p>	<ul style="list-style-type: none"><li>■ When reassembling, fasten the wires with screws on the terminal board.</li><li>■ The terminal board is united resin formation.</li></ul>
<p>2. Removal of the electrical box</p> <p>1 Release the outdoor temperature thermistor from the holder.</p> <p>2 Lift up the guard net to remove.</p>	 <p>(R10571)</p>  <p>(R10572)</p>	

Step	Procedure	Procedure	Points
3	Release the mounting plate from the hook.	 <p>(R10573)</p>	<ul style="list-style-type: none"> <li>■ When reassembling, make sure to hook the mounting plate.</li> </ul>
4	Disconnect the connector for the fan motor [S70].	 <p>(R10574)</p>	
5	Release the lead wire for the fan motor from the hooks.	 <p>(R10575)</p>	

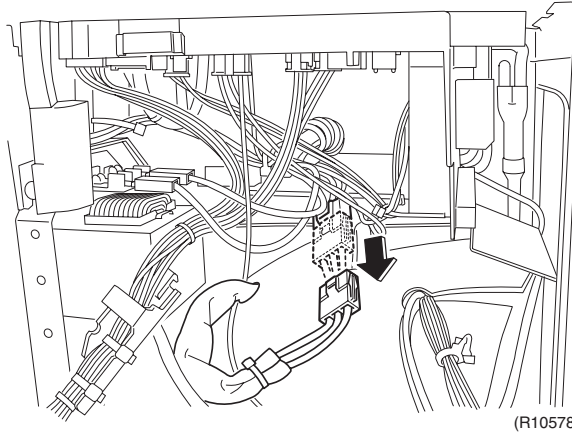
Step	Procedure	Points
6	Disconnect the connector for the overload protector [S40].	[S40] : Overload protector
7	Disconnect the connectors [S20] and [S80].	[S20] : Electronic expansion valve coil [S80] : Four way valve coil
8	Disconnect the connector for the relay harness of compressor.	
9	Disconnect the 2 connectors for the reactor.	



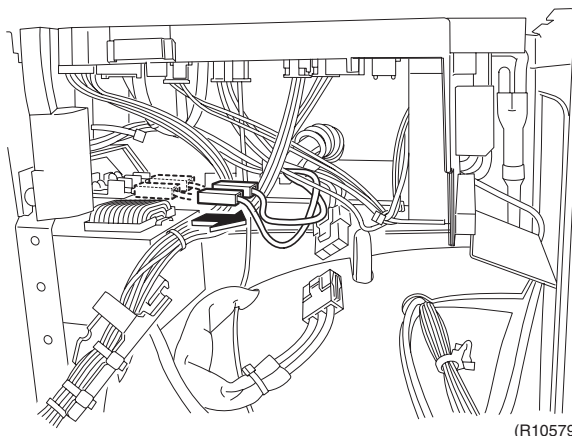
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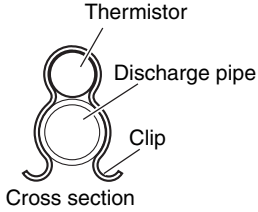
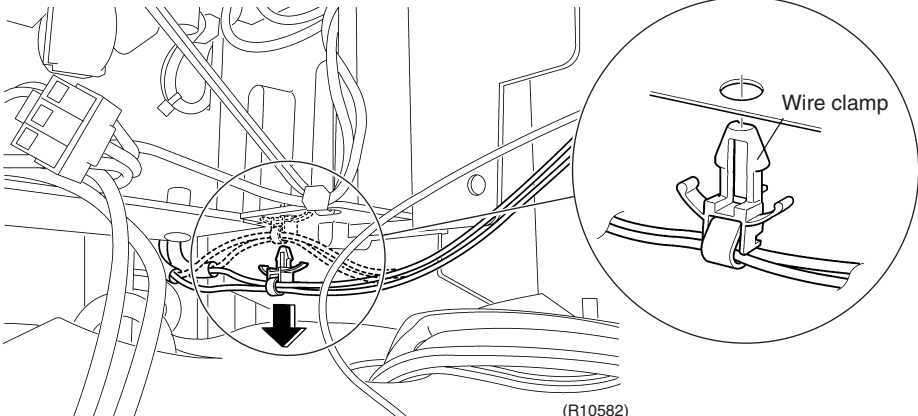
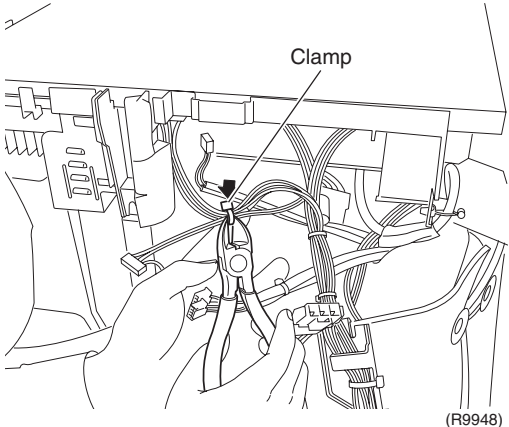
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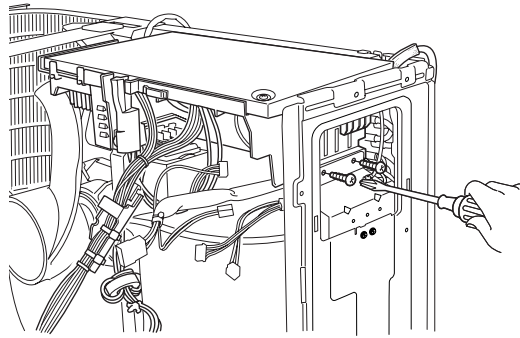
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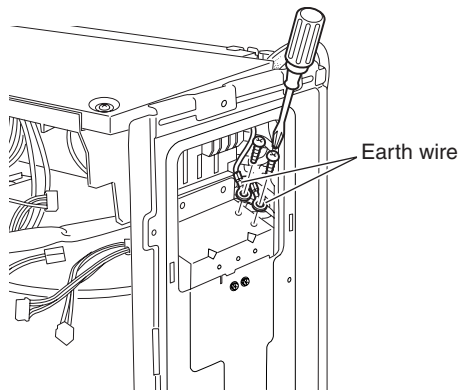
(R10579)

Step	Procedure	Points
10	Detach the discharge pipe thermistor.	<ul style="list-style-type: none"> <li>■ Meet the edge of the thermistor and the clip.</li> <li>■ Be careful not to lose the clip for the discharge pipe thermistor.</li> </ul> <div style="text-align: center;">  <p>Thermistor Discharge pipe Clip Cross section</p> </div>
11	Disconnect the connector for the thermistor ASSY [S90].	<p>[S90] : Thermistor ASSY (Outdoor air, Heat exchanger, Discharge pipe)</p>
12	Undo the wire clamp for the thermistor ASSY under the electrical box.	 <p>Wire clamp</p>
13	Cut the clamp.	 <p>Clamp</p>

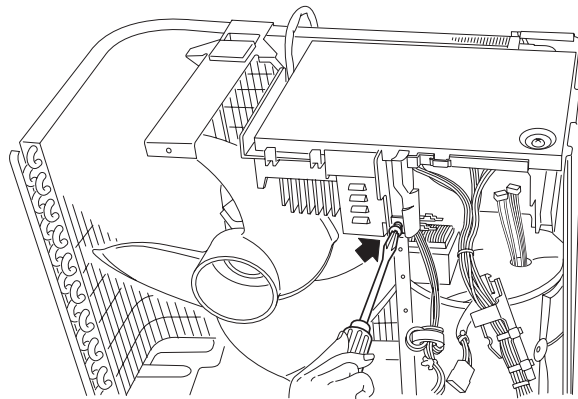
Step	Procedure	Points
14	Remove the 2 screws on the right side of the electrical box.	
15	Remove the grounding screws of earth wires.	
16	Remove the screw in front of the electrical box.	
17	Lift up the electrical box to remove.	



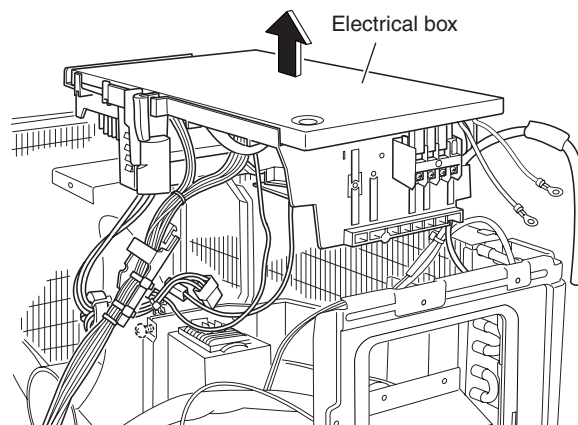
(R10584)



(R10585)



(R10586)



(R10587)

# 9. Removal of PCB

**Procedure**

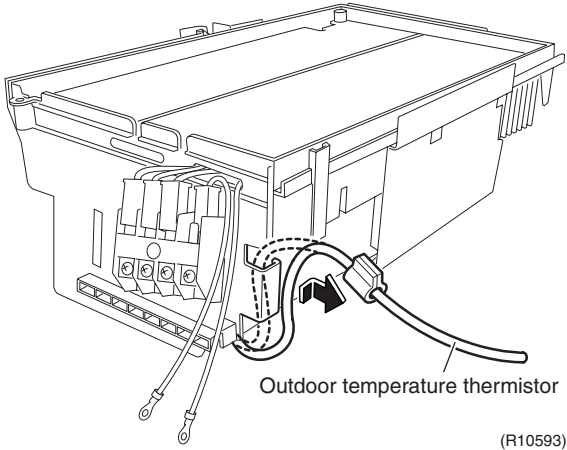
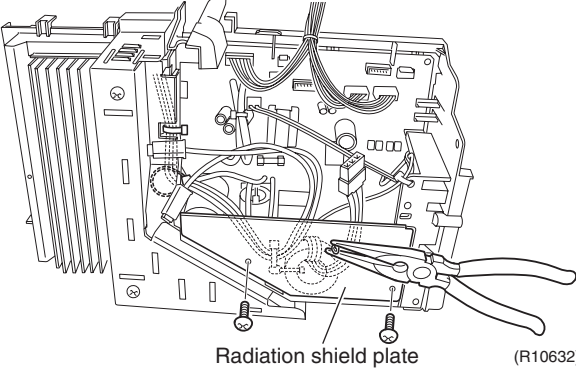
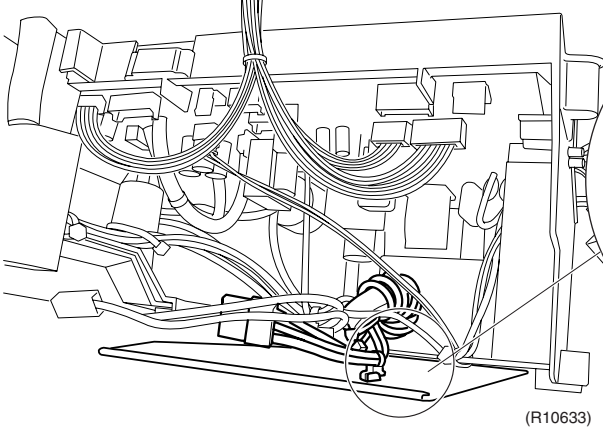
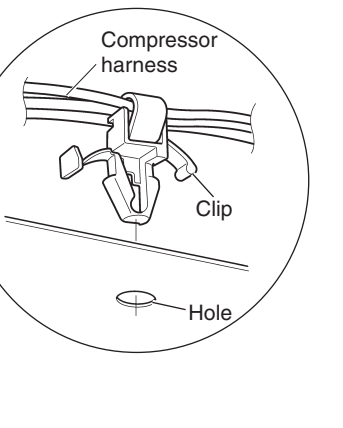
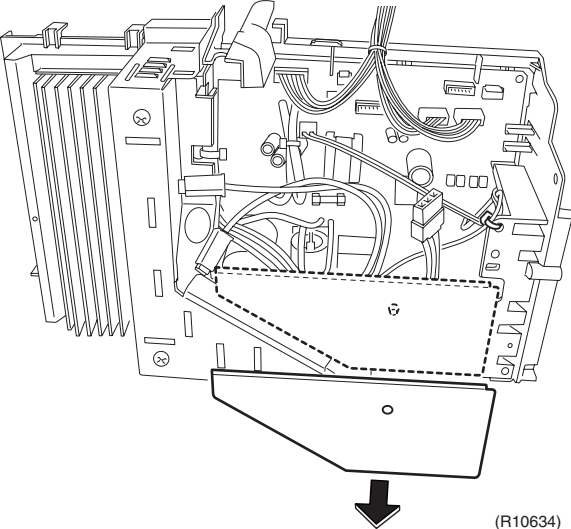


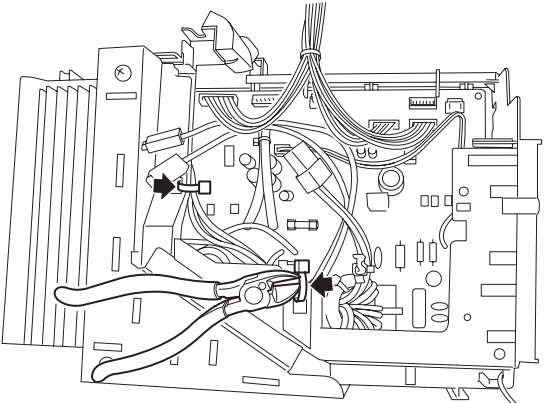
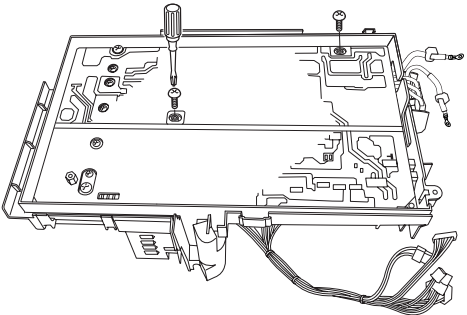
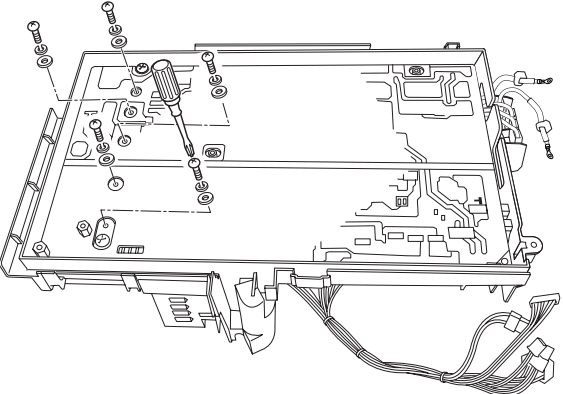
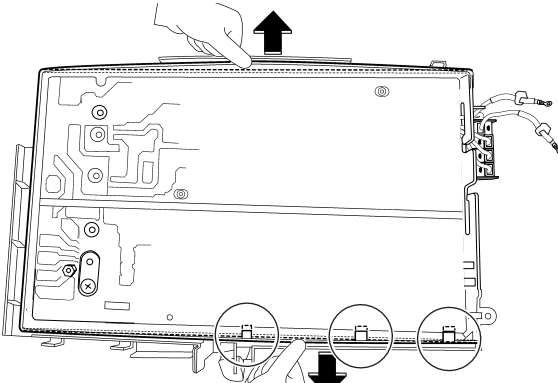
**Warning**

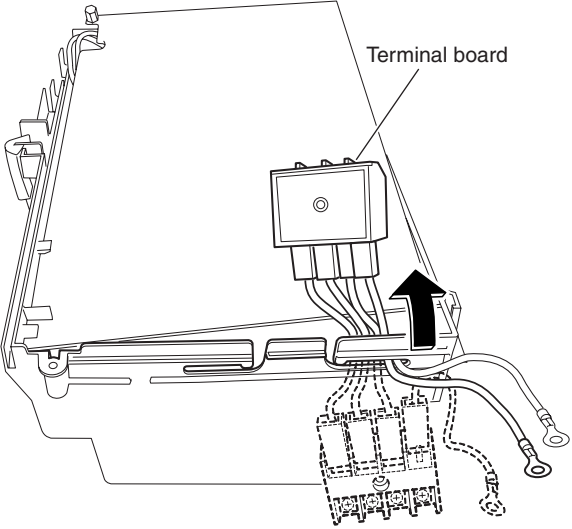
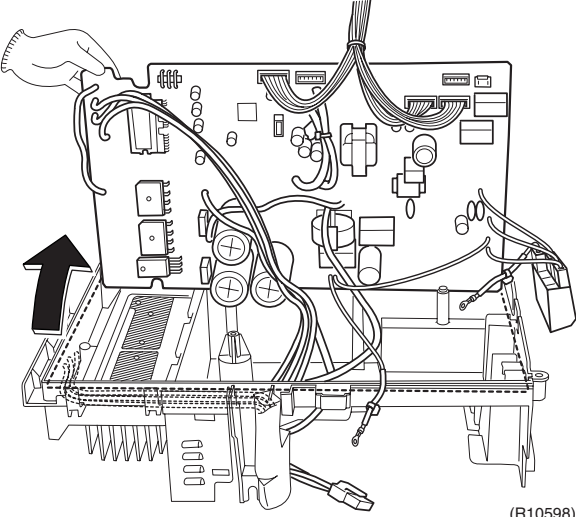
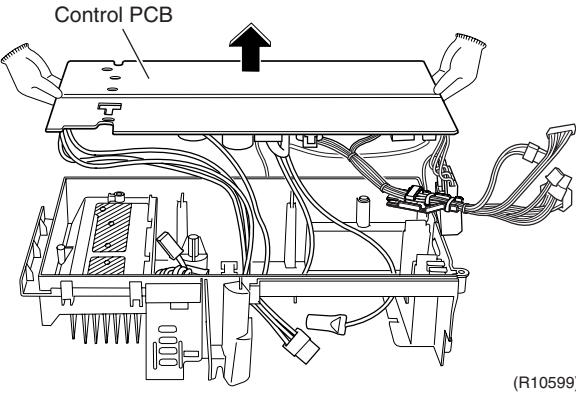
Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.

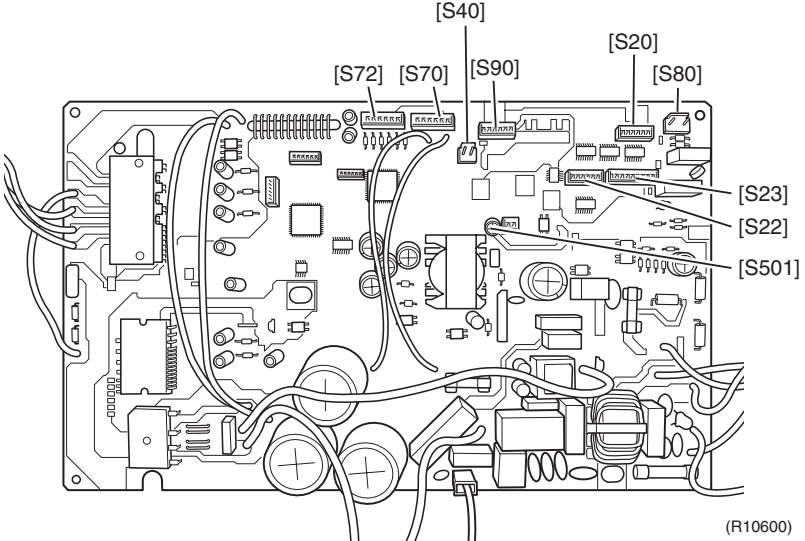
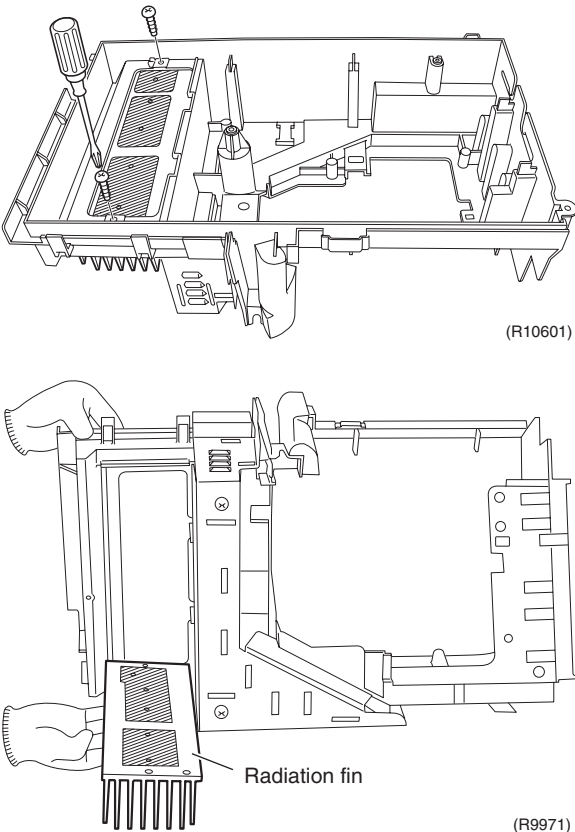
Step	Procedure	Points
<p>1. Removal of the control PCB</p> <p>1 Remove the screw of the electrical box cover.</p> <p>2 Detach the insulation sheet.</p> <p>3 Remove the screw of the terminal board.</p>	<p>Electrical box (cover)</p> <p>(R10589)</p> <p>(R10590)</p> <p>Insulation sheet</p> <p>Earth terminal</p> <p>(R10591)</p> <p>Terminal board</p> <p>(R10592)</p>	<p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>■ Remove the panels, plates, and electrical box according to the removal procedure.</li> <li>■ The control PCB is adopted upside-down.</li> <li>■ The lead-free solder (PbF) is used on PCB. When exchange, use exclusive solder and soldering gun.</li> </ul> <p>■ The trimmed part goes front.</p>



Step	Procedure	Points
4	Release the outdoor temperature thermistor wire from the hook.	
	 <p style="text-align: center;">Outdoor temperature thermistor</p> <p style="text-align: right;">(R10593)</p>	
5	Remove the 2 screws and detach the 1 clip to remove the radiation shield plate.	
	 <p style="text-align: center;">Radiation shield plate</p> <p style="text-align: right;">(R10632)</p>	
	 <p style="text-align: right;">(R10633)</p>	 <p style="text-align: center;">Compressor harness</p> <p style="text-align: center;">Clip</p> <p style="text-align: center;">Hole</p>
	 <p style="text-align: right;">(R10634)</p>	<p>■ The clip is push mount type.</p>

Step	Procedure	Points
6	Cut off the clamps at 2 locations and disconnect the wire harnesses.	
	 <p>(R10583)</p>	
7	Remove the 7 screws in total.	
	 <p>(R10594)</p>	
	 <p>(R10595)</p>	
8	Lift up the back side slightly and release the hooks of the front.	<ul style="list-style-type: none"> <li>■ When reassembling, make sure that the hooks of the electrical box are placed on the PCB.</li> </ul>
	 <p>(R10596)</p>	

Step	Procedure	Points
<p>9</p> <p>Release the lead wires from the hook and remove the terminal board.</p>	 <p style="text-align: right;">(R10597)</p>  <p style="text-align: right;">(R10598)</p>	
<p>10</p> <p>Lift up the control PCB to remove.</p>	 <p style="text-align: right;">(R10599)</p>	

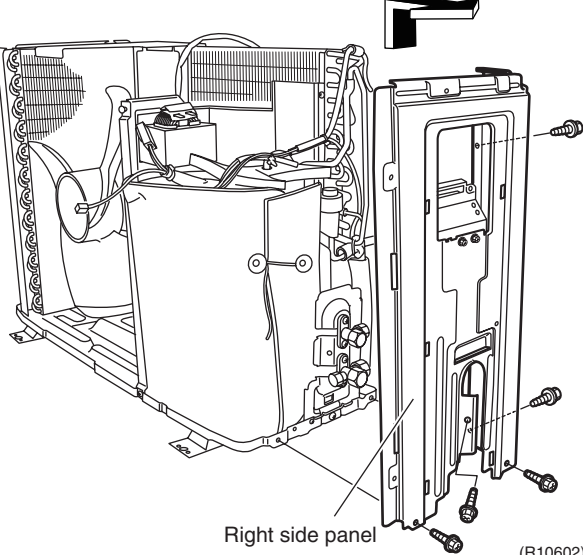
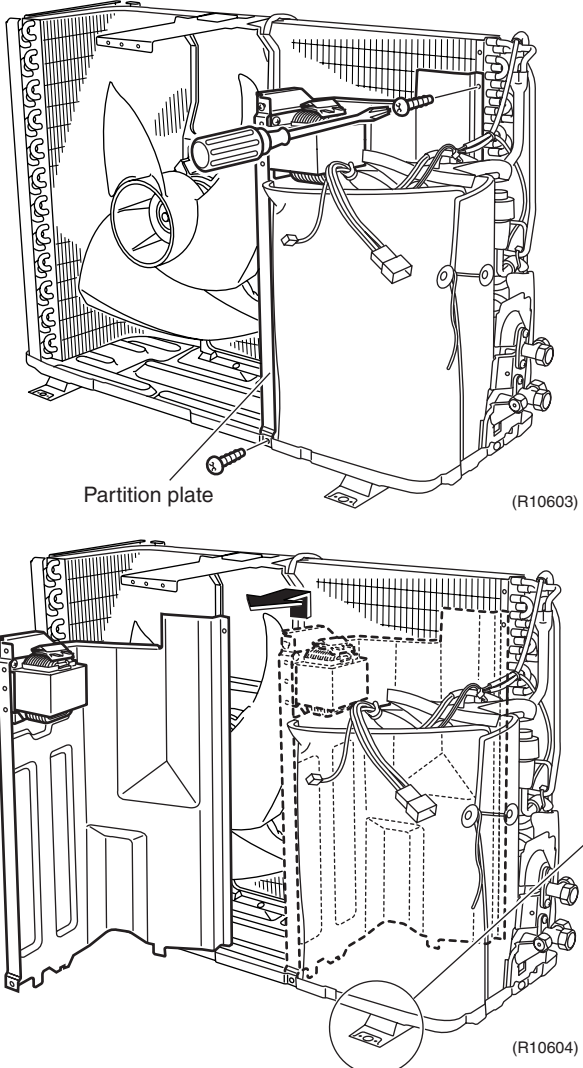
Step	Procedure	Points
11	Control PCB.	 <p>(R10600)</p> <p>[S20] : Electronic expansion valve coil  [S22] : Damper motor  [S23] : Rotor motor  [S40] : Overload protector  [S70] : DC Fan motor  [S72] : Humidifying fan motor  [S80] : Four way valve coil  [S90] : Discharge pipe / Heat exchanger / Outdoor air thermistor  [S501] : Limit switch</p>
12	Remove the 2 screws of the radiation fin.	 <p>(R10601)</p> <p>(R9971)</p> <p>Radiation fin</p> <p>■ When reassembling, be sure to apply silicon grease for encouraging the heat radiation.</p>

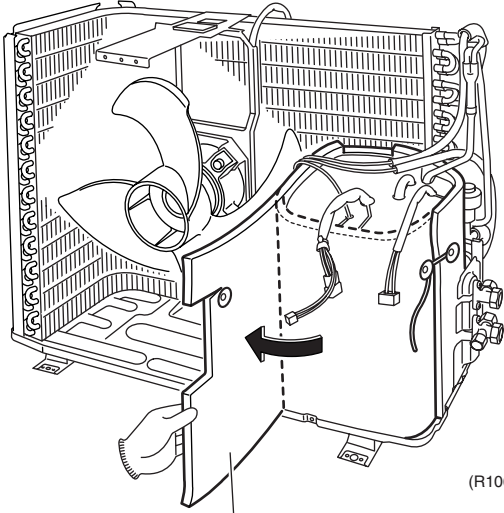
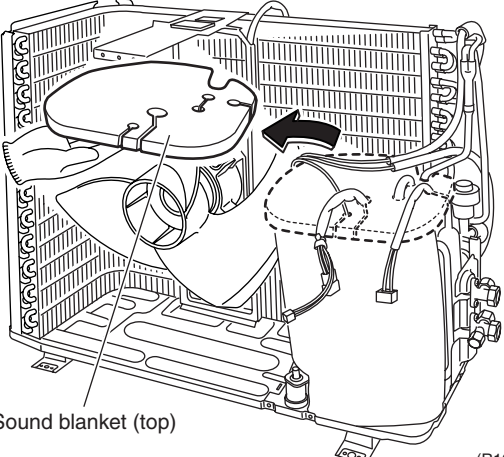
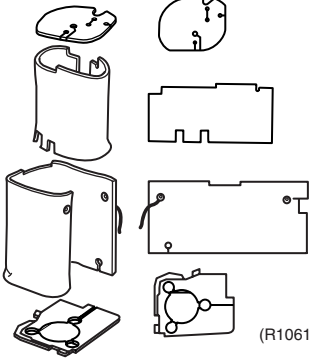
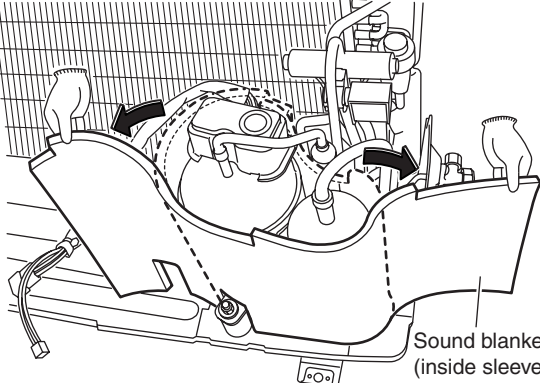
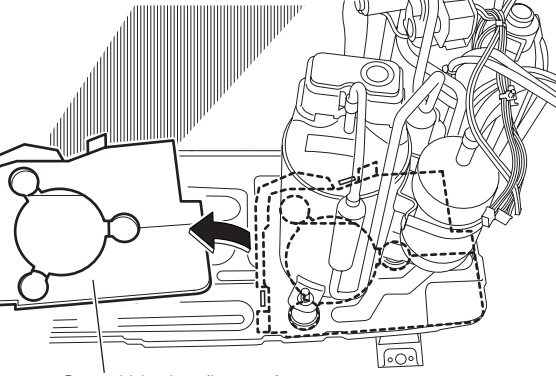
# 10. Removal of Sound Blankets

## Procedure



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

Step	Procedure	Points
<p>1. Removal of the right side panel</p> <p>1 Remove the 5 screws to remove the right side panel.</p>	 <p>Right side panel (R10602)</p>	<p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>Remove the electrical box beforehand.</li> </ul>
<p>2. Removal of the partition plate</p> <p>1 Remove the 2 screws to remove the partition plate.</p> <p>2 Since there are hooks on the partition plate, lift up once and pull out toward yourself to remove it.</p>	 <p>Partition plate (R10603)</p> <p>(R10604)</p>	<ul style="list-style-type: none"> <li>When assembling, make sure to catch the lower hook of the partition plate.</li> <li>Remove the screw of the reactor, and then remove the reactor.</li> </ul>

Step	Procedure	Points
3. Removal of the sound blanket		
1	<p>Release the fixing string, open the sound blanket (outside sleeve) and pull it out.</p>  <p style="text-align: right;">(R10605)</p> <p style="text-align: center;">Sound blanket (outside sleeve)</p>	
2	<p>Lift up the sound blanket (top) to remove.</p>  <p style="text-align: right;">(R10606)</p> <p style="text-align: center;">Sound blanket (top)</p>	<p>■ Since the piping ports are torn easily, remove the blanket carefully.</p>  <p style="text-align: right;">(R10610)</p>
3	<p>Open the sound blanket (inside sleeve) and pull it out.</p>  <p style="text-align: right;">(R7832)</p> <p style="text-align: center;">Sound blanket (inside sleeve)</p>	
4	<p>Pull out the sound blanket (bottom).</p>  <p style="text-align: right;">(R10607)</p> <p style="text-align: center;">Sound blanket (bottom)</p>	

# 11. Removal of Outdoor Fan / Fan Motor

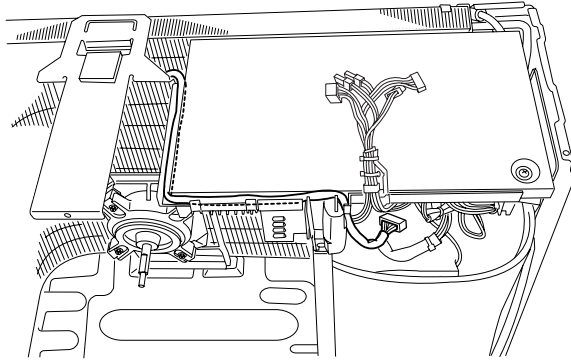
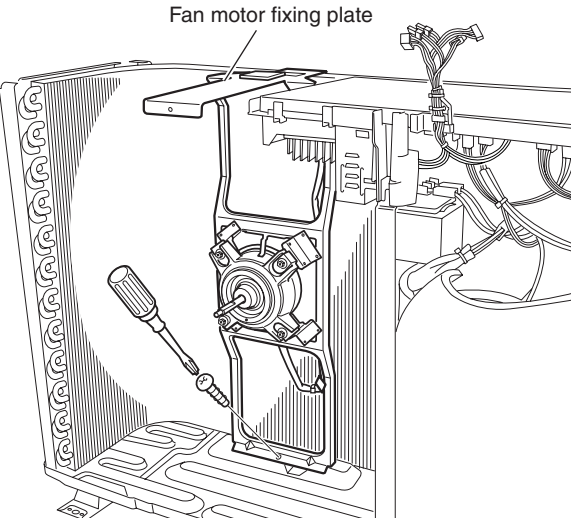
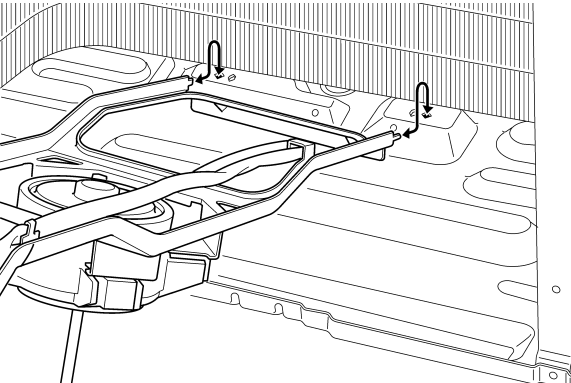
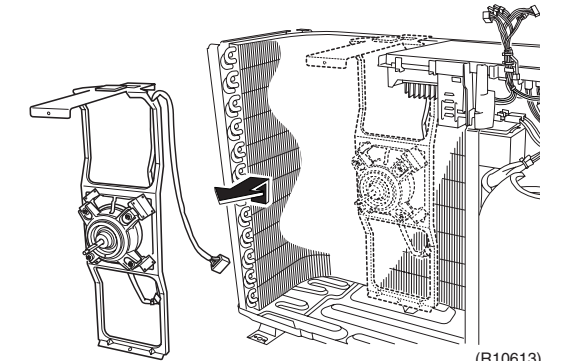
## Procedure



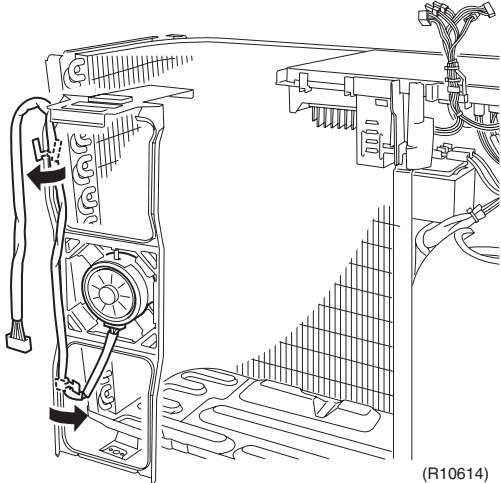
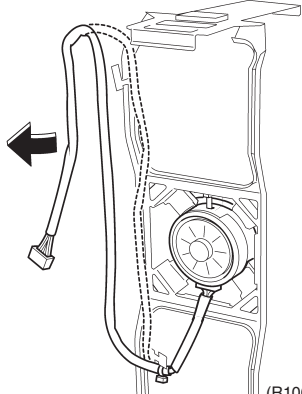

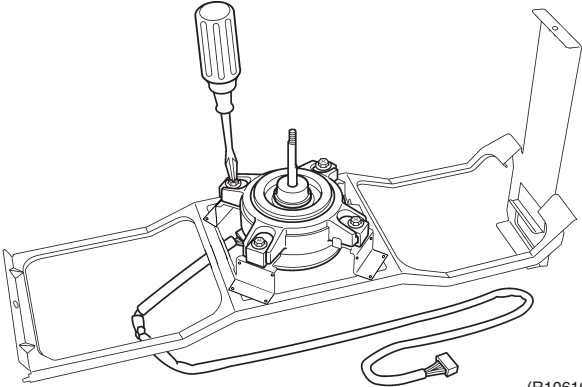
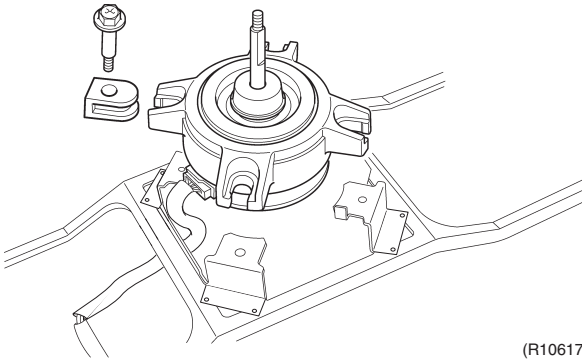
### Warning

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

Step	Procedure	Points	
1. Removal of the outdoor fan	<p>Outdoor fan</p> <p>(R10608)</p>	<ul style="list-style-type: none"> <li>■ Wrench size : 10mm</li> </ul>	
1	<p>Unscrew the washer fitted nut (M6) to remove the outdoor fan.</p>	<p>(R10609)</p>	<ul style="list-style-type: none"> <li>■ When reassembling, align the ▼ mark of the outdoor fan with the D-cut section of the motor shaft.</li> </ul>
2. Removal of the fan motor	<p>(R7620)</p>		
1	<p>Disconnect the connector [S70] for the fan motor from the PCB.</p>	<p>[S70]</p> <p>(R10574)</p>	

Step	Procedure	Points
2	The figure shows the arrangement of the fan motor lead wire.	
3	Remove the screw to remove the fan motor fixing plate.	<ul style="list-style-type: none"> <li>■ When reassembling, make sure the ● mark of the fan motor goes down.</li> </ul>
	 <p>(R10611)</p>	
	 <p>Fan motor fixing plate</p> <p>(R10612)</p>	<ul style="list-style-type: none"> <li>■ When reassembling, fit the 2 lower hooks into the bottom frame.</li> </ul>
	 <p>(R7624)</p>	
4	Remove the fan motor fixing plate.	
	 <p>(R10613)</p>	



Step	Procedure	Procedure	Points
5	Turn the fan motor fixing plate backward and undo the 2 fixing hooks of the lead wire.	 <p>(R10614)</p>	
6	Release the fan motor lead wire.	 <p>(R10615)</p>	<p>■ When reassembling, put the lead wire through the back of the motor (so as not to be entangled with the outdoor fan).</p>  <p>Lead wire      Outdoor fan (R3249)</p>
7	Remove the 4 screws and 4 rubber vibration isolators to remove the fan motor.	 <p>(R10616)</p>  <p>(R10617)</p>	

# 12. Removal of Thermistors

**Procedure**



**Warning**

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

Step	Procedure	Points
Removal of the assembly of thermistor		
1	Undo the clip and remove the discharge pipe thermistor.	<ul style="list-style-type: none"> <li>■ Be careful not to lose the clip for the discharge pipe thermistor.</li> </ul>
<p style="text-align: right;">(R7843)</p>		<p style="text-align: right;">(R7702)</p>
2	Cut off the clamp to pull out the outdoor heat exchanger thermistor.	<ul style="list-style-type: none"> <li>■ The clamp is always reserved.</li> <li>■ Be careful not to lose the clips for each thermistor.</li> </ul>
<p style="text-align: right;">(R18543)</p>		
3	The outdoor temperature / discharge pipe / outdoor heat exchanger thermistors are united as one assembly.	
4	The figure shows the arrangement of the assembly of thermistor [S90].	
<p style="text-align: right;">(R7845)</p>		

# 13. Removal of Compressor

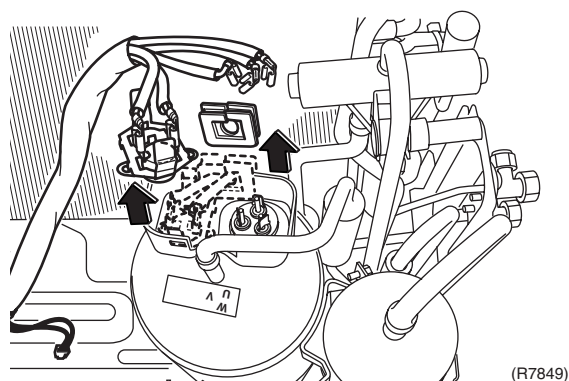
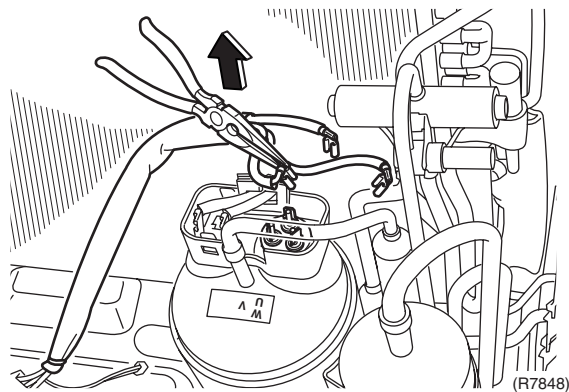
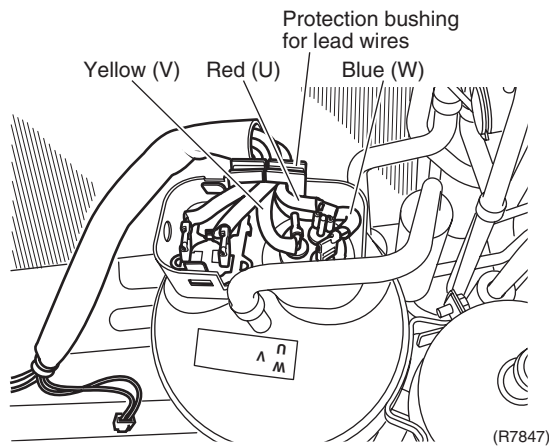
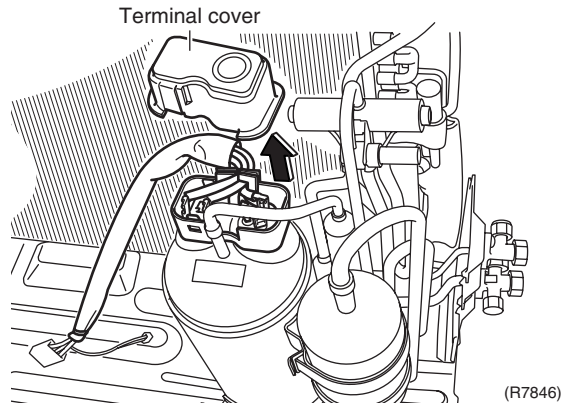
## Procedure

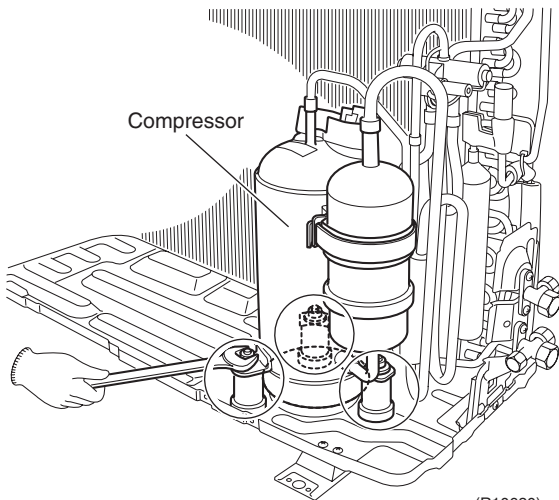
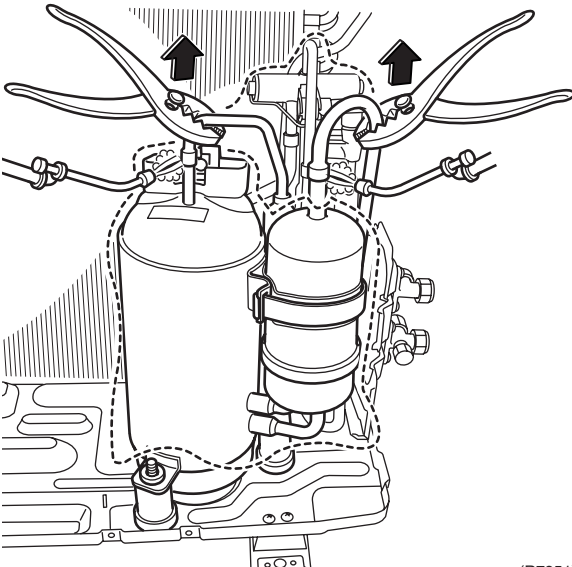
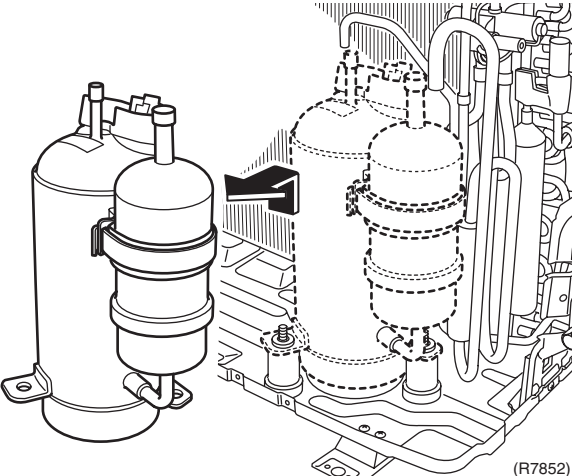


### Warning

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

Step	Procedure	Points
1	Remove the terminal cover.	<ul style="list-style-type: none"> <li>Be careful so as not to burn the compressor terminals or the name plate.</li> </ul>
2	Disconnect the flag-shaped terminals.	
3	Detach the terminals by long nose pliers. Undo the hooks by a flat screwdriver to remove the overload protector.	
4	Detach the overload protector.	



Step	Procedure	Procedure	Points
5	<p>There are 3 nuts fixing the compressor. Remove them with an open-end spanner.</p>	 <p>(R10630)</p>	<p><b>Warning</b> Since it may happen that refrigerant oil in the compressor catches fire, prepare wet cloth so as to extinguish fire immediately.</p> <p><b>Warning</b> Ventilate when refrigerant leaks during the work. (If refrigerant contacts fire, it causes to arise toxic gas.)</p> <p><b>Warning</b> Be careful about the four way valve, pipes and so on, which were heated up by a gas brazing machine, so as not to get burnt your hands.</p>
<ul style="list-style-type: none"> <li>■ Before working, make sure that the refrigerant is empty in the circuit.</li> <li>■ Be sure to apply nitrogen replacement when heating up the brazed part.</li> </ul>		 <p>(R7851)</p>	<p><b>Caution</b> From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to recover the refrigerant gas with the recovery system.</p>
6	Heat up the brazed part of the discharge side and disconnect.		
7	Heat up the brazed part of the suction side and disconnect.		
8	Lift the compressor up to remove.	 <p>(R7852)</p>	

# 14. Removal of Four Way Valve / Electronic Expansion Valve




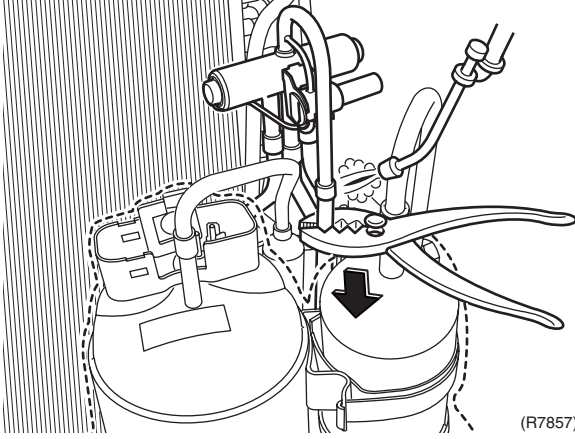
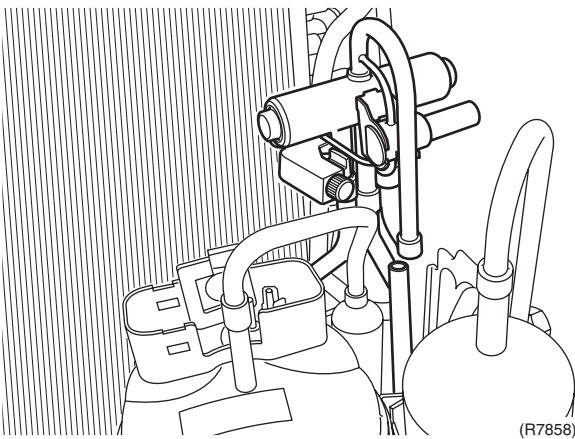
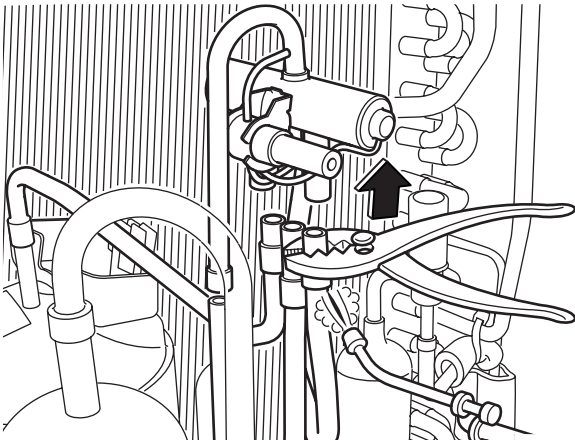
## Procedure



### Warning

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

Step	Procedure	Points
1. Removal of the peripheries	<p>Four way valve coil</p> <p>(R7853)</p>	<p>■ Remove the sound blanket beforehand.</p>
<p>Remove:</p> <ul style="list-style-type: none"> <li>Terminal cover of compressor</li> <li>Four way valve coil</li> <li>Electronic expansion valve coil not to burn them by a gas brazing machine.</li> </ul>	<p>1 Lift up the electronic expansion valve coil to remove it.</p> <p>Electronic expansion valve coil</p> <p>(R7854)</p>	<p><b>Warning</b></p> <p>Be careful about the four way valve, pipes and so on, which were heated up by a gas brazing machine, so as not to get burnt your hands.</p> <p><b>Caution</b></p> <p>From the viewpoint of global environment protection, do not discharge the refrigerant gas in the atmosphere. Make sure to recover the refrigerant gas with the recovery system.</p>
2	<p>Remove the putty.</p> <p>(R7855)</p>	
3	<p>Heat up the 2 brazed parts of the electronic expansion valve and remove it.</p> <p>(R7856)</p>	

Step	Procedure	Points
<ul style="list-style-type: none"> <li>■ Before working, make sure that the refrigerant is empty in the circuit.</li> <li>■ Be sure to apply nitrogen replacement when heating up the brazed part.</li> </ul>		<p><b>Reassembling precautions</b></p> <ol style="list-style-type: none"> <li>1. Use non-oxidizing brazing method. If nitrogen gas is not available, braze the parts speedily.</li> <li>2. Avoid deterioration of the gaskets due to carbonization of oil inside the four way valve or thermal influence. For this purpose, wrap the four way valve with wet cloth. Splash water over the cloth against becoming too hot (keep it below 120°C).</li> </ol> <ul style="list-style-type: none"> <li>■ In pulling the pipes, be careful not to over-tighten them with pliers. The pipes may get deformed.</li> </ul>
<p>4 Provide a protective sheet or a steel plate so that the brazing flame cannot influence peripheries around the four way valve.</p> <p> <b>Warning</b> Since it may happen that refrigerant oil in the compressor catches fire, prepare wet cloth so as to extinguish fire immediately.</p> <p> <b>Warning</b> Ventilate when refrigerant leaks during the work. (If refrigerant contacts fire, it causes to arise toxic gas.)</p> <p> <b>Warning</b> Be careful about the four way valve, pipes and so on, which were heated up by a gas brazing machine, so as not to get burnt your hands.</p>	 <p style="text-align: right;">(R7857)</p>  <p style="text-align: right;">(R7858)</p>	<p><b>In case of the difficulty with a gas brazing machine</b></p> <ol style="list-style-type: none"> <li>1. Disconnect the brazed part where is easy to disconnect and restore.</li> <li>2. Cut pipes on the main unit by a miniature copper tube cutter in order to make it easy to disconnect.</li> </ol> <p><b>Note:</b> Do not use a metal saw for cutting pipes by all means because the sawdust come into the circuit.</p> <ul style="list-style-type: none"> <li>■ The brazed parts are heated after being disconnected. To avoid a burn, make sure that the compressor is cooled down before removing.</li> </ul>
<p>5 Cut off the brazed part with pliers and disconnect.</p>	 <p style="text-align: right;">(R7859)</p>	

# Revision History

Month / Year	Version	Revised contents
02 / 2013	Si00-973	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.

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