




REMOVAL PROCEDURE



SERVICE
MANUAL

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

3/4/5/6 HP Class

-  Outdoor Unit
-  Non-Inverter
-  Pair Type



Service Manual Removal Procedure

Outdoor Unit

Applicable Models

●Cooling Only

**R71LUY1
R100LUY1
R125LUY1
R140LUY1**

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1. Procedure to Remove Outside Panels

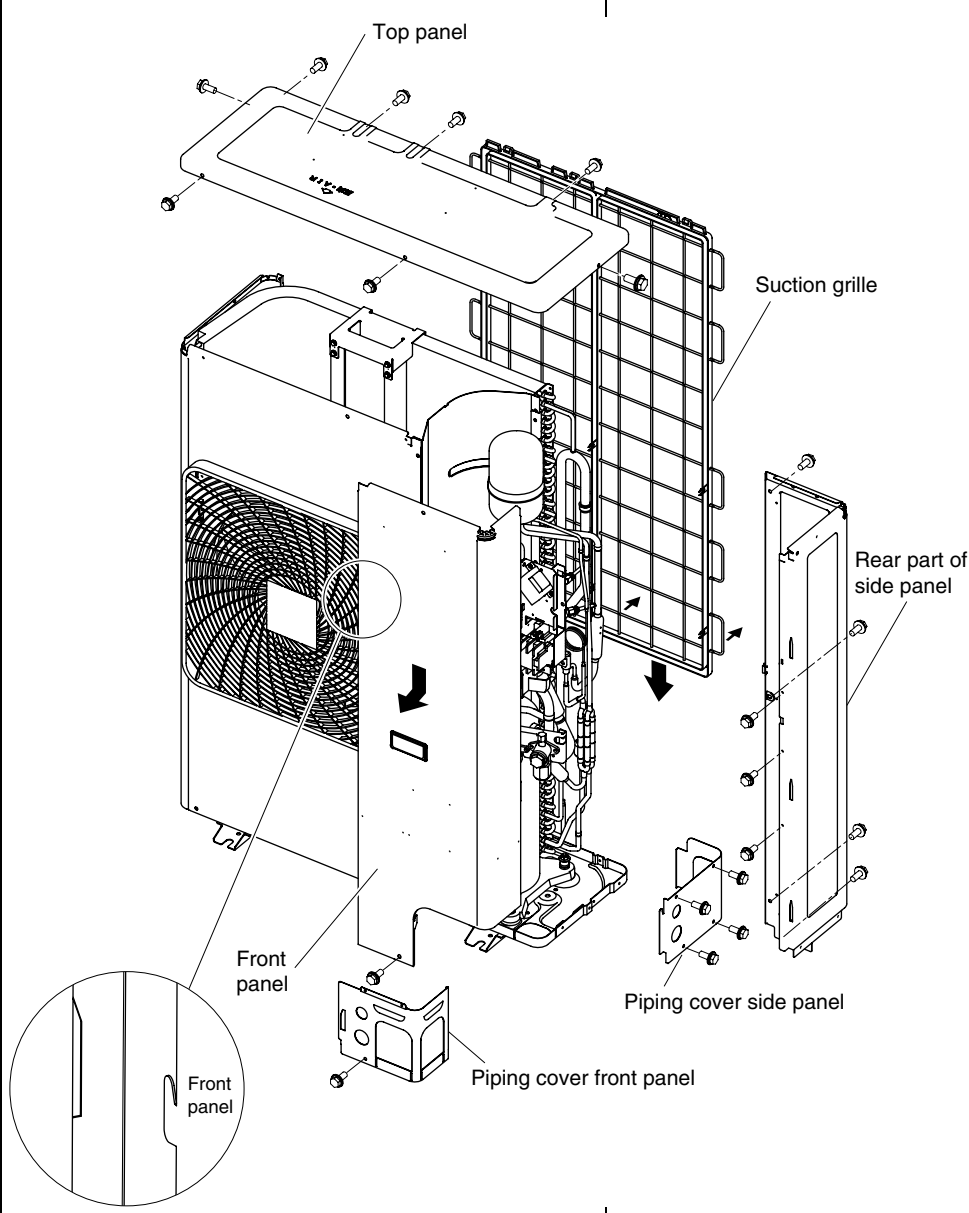
Procedure



Warning

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

Step	Procedure	Points
1	Pull the lower part (7 positions) of suction grille to your side and disengage 3 hooks in its upper side, then pull down the entire grille to remove it.	
2	To remove the front panel (front part of the side panel), dismount 1 screw, and pull down the panel.	
3	To remove the top panel, dismount 8 screws.	
4	Dismount 1 screw to remove the front panel of piping cover.	
5	Dismount 4 screws to remove the side panel of piping cover.	
6	Dismount 7 screws to remove the rear part of the side panel.	



2. Procedure to Remove Switch Box

Procedure



Warning

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

Step	Procedure	Points
<p>■ Removing top panel and front panel according to the "Procedure to Remove Outside Panels".</p>		
<p>1 Spread the lower parts of hooks (3 locations) to remove the resin cover.</p>		
<p>2 Remove following connectors, fastening terminal from compressor terminals and thermistors according to "Removal of Thermistor". X14A, X15A, X11A, X12A, X22A, X10A, X25A</p>		
<p>3 Dismount 2 screws (*) fixing the switch box.</p>		
<p>4 To remove the switch box, pull the box frontward before slide the left side upward.</p>		

3. Procedure to Remove Propeller Fan and Fan Motor

Procedure



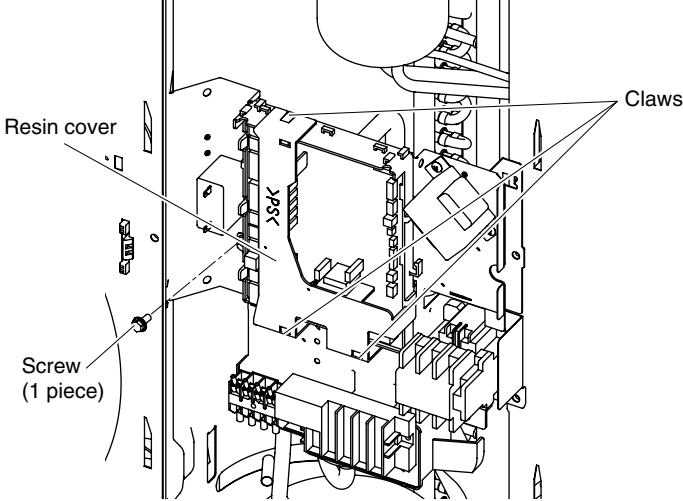
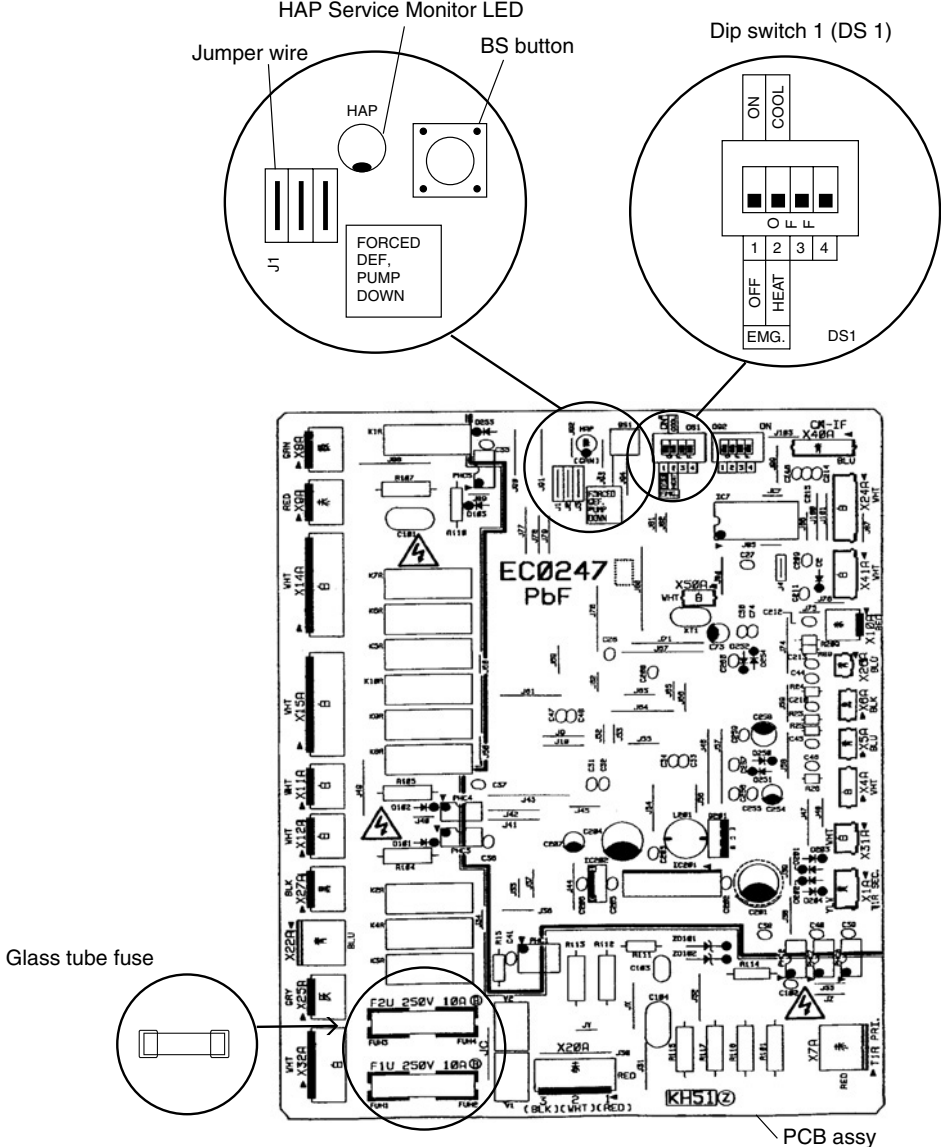
Warning

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

Step	Procedure	Points
<p>■ Removing front panel and top panel according to the "Procedure to Remove Outside Panels".</p>		
<p>1. Removing propeller fan</p> <p>1 Dismount four screws fixing discharge grille and disengage 4 hooks located at upper and lower sides of the grille to remove the grille.</p> <p>2 Remove fan stopper and washer faced nut fixing propeller fan.</p>		
<p>2. Removing the fan motor</p> <p>1 Disconnect the connector (*) for fan motor from the PCB. (*)Connector number R71, 100LU: X11A, X15A R125~140LU: X11A, X12A, X14A, X15A</p> <p>2 Pull out the fastening terminal from capacitor (C1R).</p> <p>3 The lead wires are clamped at 3 locations. (1 with tie wrap and two with hooks of partition plate)</p> <p>4 Dismount 3 screws for the front panel, and pull the lead wires to separate from other parts.</p> <p>5 Fan motor can be removed by removing 4 fixing bolts.</p>		<p>■ Do not pull the lead wire but hold the connector and press the hook section when disconnect the connector.</p> <p>Lead wire Propeller fan</p> <p>■ Precautions for installing motor Be sure to fix the motor lead wire with clampers, or the lead wire could be caught with fan resulting damage of parts.</p>

4. Procedure to Remove PCB Assy

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

Step	Procedure	Points
<p>■ Removing top panel, front panel and side panel according to the "Procedure to Remove Outside Panels".</p>		
<p>1 Spread the lower parts of hooks (3 locations) to remove the resin cover.</p>		
<p>2 Disconnect all connectors on the PCB.</p>		
<p>3 Disconnect 1 screw to remove the PCB assy.</p>		

5. Procedure to Remove Thermistor

Procedure



Warning

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

Step	Procedure	Points
<p>■ Removing top panel, front panel and side panel according to the "Procedure to Remove Outside Panels".</p>		<p>Outdoor air thermistor</p> <p>Heat exchanger thermistor</p> <p>Discharge pipe thermistor (Inside of muffler) (For R71,100LU and RY125~140LU)</p> <p>Discharge pipe thermistor (Side of discharge pipe) (For RY71,100LU and R125~140LU)</p>
<p>1 Pick up and pull out the mounting spring to remove the discharge pipe thermistor.</p>		
<p>2 To remove the heat exchanger thermistor, pull the locking piece frontward.</p>		
<p>3 To remove the outdoor air thermistor, draw out frontward and slide it rightward.</p>		

6. Procedure to Remove Electronic Expansion Valve and Low Pressure Sensor

Procedure



Warning

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

Step	Procedure	Points	
<ul style="list-style-type: none"> ■ Removing the parts of outside panel and the switch box according to the "Procedure to Remove Outside Panels". 		<ul style="list-style-type: none"> ■ Check that the refrigerant is completely discharged before starting the disassembling work. 	
1. Removing electronic expansion valve			
1 Pull up the electronic expansion valve coil. 2 To remove the electronic expansion valve, disconnect 2 brazed joints for each valve.			
2. Removing the low pressure switch			
1 Disconnect 1 brazed joint to remove the low pressure switch.		<ul style="list-style-type: none"> ■ Cover the other piping with sheet for welding work or steel sheet to prevent the piping from influence of torch flame. ■ Caution When installing, use torch flame while cool the valve body with wet cloths or the like to keep it below 120°C. 	

7. Procedure to Remove Compressor

Procedure



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

Step	Procedure	Points
<p>■ Removing the parts of outside panel and the switch box according to the “Procedure to Remove Outside Panels”.</p>		<p>■ Check that the refrigerant is completely discharged before starting the disassembling work.</p>
<p>1 Dismount 5 screws to remove the stop valve mounting plate.</p> <p>2 Disconnect the gas piping and the liquid piping.</p> <p>3 To remove the terminal cover, press the protruded section on both right and left sides.</p> <p>4 Disconnect the lead wires from the terminals.</p> <p>5 Remove the sound insulation (1) and (2).</p>		<p>■ Color of terminal end</p> <p>■ R71~100LU</p> <p>T1 (Red)</p> <p>T2 (White)</p> <p>T3 (Blue)</p>
<p>6 Dismount the 4 (*) nuts fixing the compressor. * 3 nuts in the case of R125~140LU</p>	<p>■ Compressor for R71~100</p>	<p>■ R125~140LU</p>
<p>7 Disconnect 2 (*) brazed joints. * In the case of R125-140LU; Cut the suction and discharge pipe with pipe cutter before disconnect the brazed joints (See “■Caution” in this page.)</p>	<p>■ Compressor for R125~140</p>	<p>■ 1 of compressor fixing nuts is outside of the partition plate.</p>
<p>8 Lift and take out the compressor.</p>		<p>■ Caution For R125~140LU; It may cause catching fire on oil to use torch flame for disconnecting the brazed joint before cut the pipes with pipe cutter.</p>

Revision History

Month / Year	Version	Revised contents
01/2013	Si241312	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.



JMI-0107

Organization:
DAIKIN INDUSTRIES, LTD.
AIR CONDITIONING MANUFACTURING DIVISION

Scope of Registration:
THE DESIGN/DEVELOPMENT AND MANUFACTURE OF COMMERCIAL AIR CONDITIONING, HEATING, COOLING, REFRIGERATING EQUIPMENT, HEATING EQUIPMENT, RESIDENTIAL AIR CONDITIONING EQUIPMENT, HEAT RECLAIM VENTILATION, AIR CLEANING EQUIPMENT, COMPRESSORS AND VALVES.



JQA-1452

Organization:
DAIKIN INDUSTRIES
(THAILAND) LTD.

Scope of Registration:
THE DESIGN/DEVELOPMENT AND MANUFACTURE OF AIR CONDITIONERS AND THE COMPONENTS INCLUDING COMPRESSORS USED FOR THEM



EC99J2044

All of the Daikin Group's business facilities and subsidiaries in Japan are certified under the ISO 14001 international standard for environment management.

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