

REMOVAL PROCEDURE



SERVICE
MANUAL

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

3/4/5/6 HP Class

-  Indoor Unit
-  Inverter
-  Pair Type



Service Manual Removal Procedure

Outdoor Unit

Applicable Models

●Heat Pump

**FBQ71DVET
FBQ100DVET
FBQ125DVET
FBQ140DVET**

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1. Arrangement of Main Parts

Procedure



Warning

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

Step	Procedure	Points
<p>■ The arrangement of main parts is shown below.</p>		

2. Procedure to Remove Switch Box (Lid)

Procedure



Warning

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

Step	Procedure	Points
1.	Dismount the switch box (lid).	
1	<p>Remove the 3 screws of the switch box (lid).</p> <p><Inside of switch box></p>	

3. Procedure to Remove PCB

Procedure



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

Step	Procedure	Points
<p>■ Dismount the switch box lid according to the removal procedure for the EL. compo. box lid.</p>		
<p>1. Remove the connectors from all the PCBs, respectively.</p>		
<p>1 Remove the connectors from the PCB (A1P). 2 Remove the connectors from the PCB (A2P). 3 Remove the connectors from the PCB (A3P).</p>		
<p>2. Remove each PCB.</p>		
<p>1 Remove the 3 claws and extract the PCB (A1P). 2 Remove the following parts of the PCB (A2P). ■ Mounting screw×4 3 Remove the 4 locking cards of the PCB (A3P) (except FHMP50AB).</p>		<p>■ Cross section of mounted PCB (A1P)</p>

4. Procedure to Remove Drain Pan

Procedure



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

Step	Procedure	Points
<p>1. Inspect the drain pan.</p> <p>1 Remove the 5 screws and dismount the service lid (1).</p> <p>2 Inspect the drain pan (where water is gathered).</p>		<ul style="list-style-type: none"> ■ Drain pan inspection through the service port <ul style="list-style-type: none"> ■ Precautions for the removal and attachment of the service lid (1) <p><Removal></p> <ul style="list-style-type: none"> • Check that the wires are not twisted or get tangled. <p><Attachment></p> <ol style="list-style-type: none"> 1. Attach the lid (1) after checking that the wires are not twisted or tangled. 2. Check that the wires are not caught between the lid (1) and side plate. 3. Open the inspection port after attachment work, and check that the wires are not in contact with or caught by the float and that the float operates normally. (Otherwise, repeat inspection steps 1 through 3.)
<p>2. Dismount the drain pan.</p> <p>1 Remove the rubber plug of the water drain and discharge water from the drain pan. (Securely connect the rubber plug with an appropriate tool, such as a screwdriver, after water is discharged.)</p> <p>2 Remove the 2 screws and dismount the drain socket cover (2).</p> <p>3 Remove the following (implanted) screws and dismount the backside panel.</p> <ul style="list-style-type: none"> ■ FBQ71: 11 screws ■ FBQ100 to 140: 14 screws <p>4 Remove the following (implanted) screws and dismount the backside panel.</p> <ul style="list-style-type: none"> ■ FBQ71: 7 screws ■ FBQ100 to 140: 9 screws <p>5 Dismount the drain pan right under.</p>		<ul style="list-style-type: none"> ■ The antibacterial agent can be removed with a single screw loosened. <ul style="list-style-type: none"> ■ Precautions for the attachment of the drain pan <ul style="list-style-type: none"> • Return the removed screws to the original positions. • Mount the drain pan horizontally. (Check that no sealing material is peeled off.)

5. Procedure to Remove Fan Motor

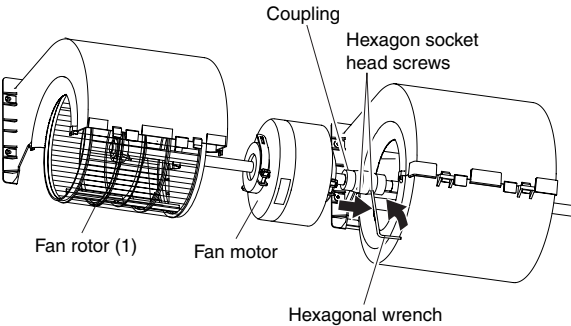
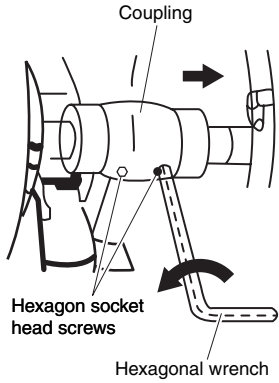
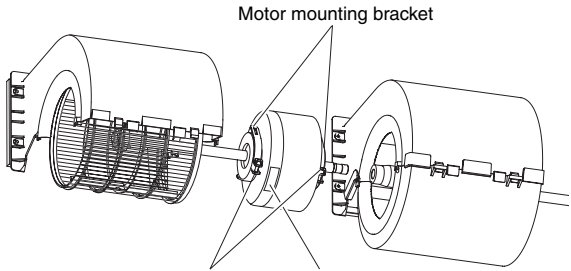
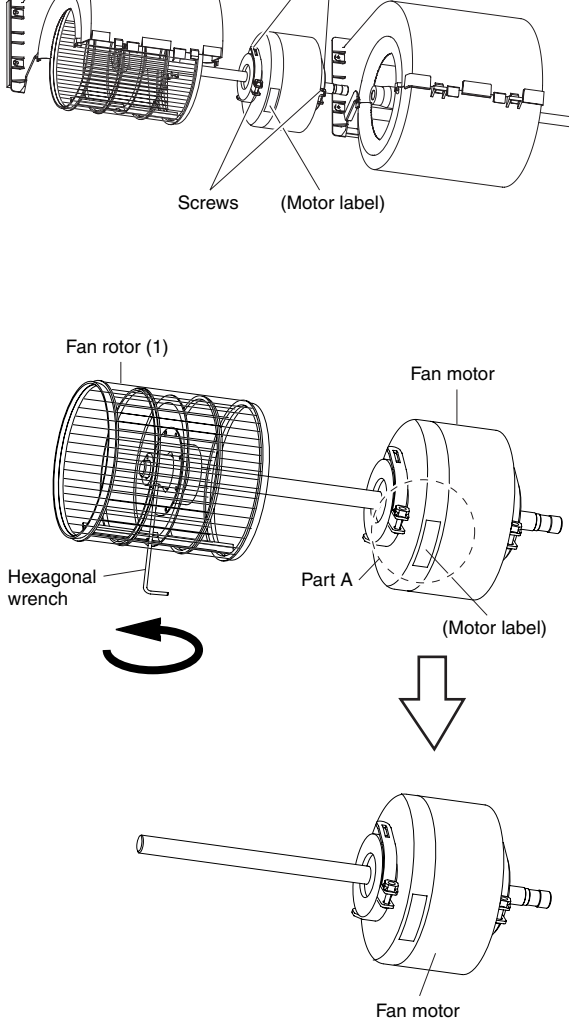
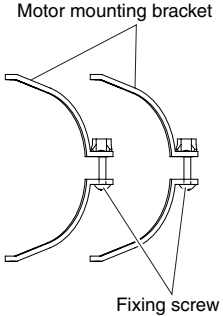
Procedure



Warning

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

Step	Procedure	Points
<ul style="list-style-type: none"> ■ Dismount the backside plate and bottom plate according to the removal procedure for the drain pan. ■ Dismount the switch box lid according to the removal procedure for it. 		
<p>1. Removal of motor connectors</p>	<ol style="list-style-type: none"> 1 Remove the fan motor connectors. 2 Cut the 3 clamps. 	
<p>2. Removal of fan housing</p> <p>FBQ71</p> <ul style="list-style-type: none"> ■ Dismount fan housings (1) and (2) only. <p>FBQ100 to 140</p> <ul style="list-style-type: none"> ■ Fan housings (1), (2), and (3) 		
<ol style="list-style-type: none"> 1 Press the protruding part of the fan housing. 2 Open the fan housing downward while pressing the protruding part. 3 Lift and dismount the fan housing upward. 		

Step	Procedure	Points
3. Sliding the coupling (FBQ100 to 140 only)		<ul style="list-style-type: none"> ■ Sliding the coupling 
4. Removal of motor		<ul style="list-style-type: none"> ■ Tightening torque of hexagon socket head screws at the time of fan assembly work: $4.5 \pm 0.4 \text{ N}\cdot\text{m}$
5. Removal of fan motor		<ul style="list-style-type: none"> ■ Motor mounting bracket  ■ Precautions for fan motor mounting <ul style="list-style-type: none"> • Mount the motor so that the motor label will be located next to the fixing screws of the motor mounting bracket (see part A). • Clamp the motor lead wires securely as they were. (Make sure that the lead wires will not come in contact with any rotating parts.) (Make sure that the lead wires will not come in contact with any high-temperature parts.) • Check that the fan rotor rotates free of eccentricity.

6. Procedure to Remove Drain Pump and Float Switch

Procedure



Warning

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

Step	Procedure	Points
<p>1. Removal of service lid (1) assembly</p> <p>1 Remove the 5 screws to dismount the service lid (1) assembly.</p>		<p>■ Precautions for the removal and attachment of the service lid (1)</p> <p><Removal></p> <ul style="list-style-type: none"> • Check that the wires are not twisted or get tangled. <p><Attachment></p> <ol style="list-style-type: none"> 1. Attach the lid after checking that the wires are not twisted or tangled. 2. Check that the wires are not caught between the lid (1) and side plate. 3. Open the inspection port after attachment work, and check that the wires are not in contact with or caught by the float and that the float operates normally. (Otherwise, repeat inspection steps 1 through 3.)
<p>2. Removal of drain pump</p> <p>1 Cut the cable tie and pull out the drain hose.</p> <p>2 Remove the 2 screws with washers to dismount the drain pump.</p>		
<p>3. Removal of float switch</p> <p>1 Remove the single screw and slide the float switch.</p>		

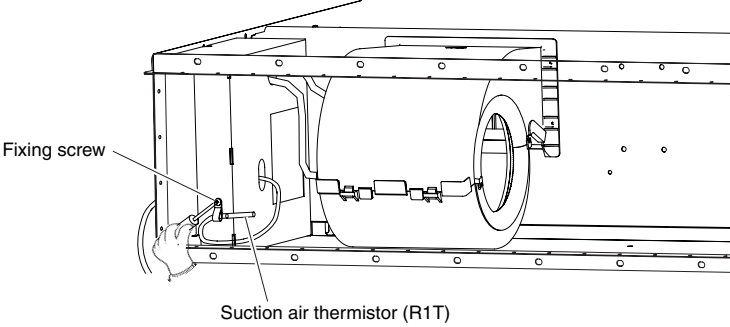
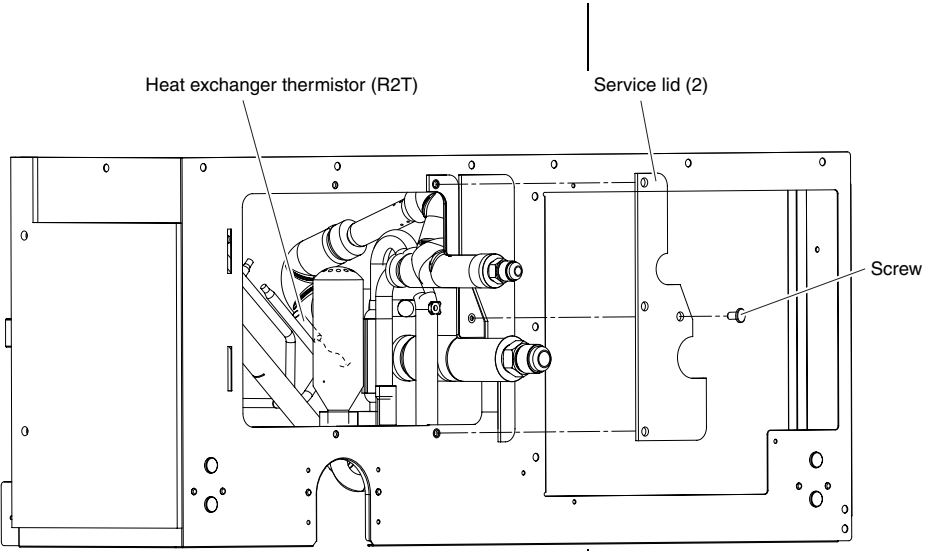
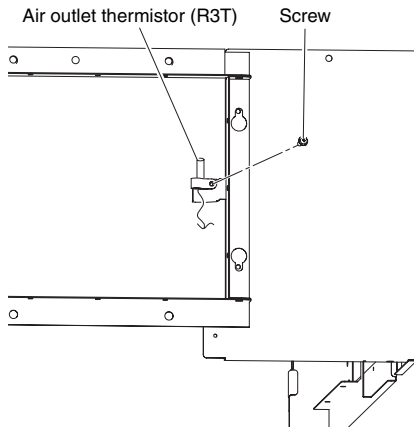
7. Procedure to Remove Thermistors

Procedure



Warning

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

Step	Procedure	Points
1. Removal of suction air thermistor	<ul style="list-style-type: none"> ■ Dismount the backside plate according to the removal procedure for the drain pan. 	
1	Remove the single setscrew of the suction air thermistor (R1T).	
2. Removal of heat exchanger thermistor	<ul style="list-style-type: none"> ■ Dismount the service lid according to the removal procedure for the drain pan. 	
1	Remove the single setscrew to dismount service lid (2).	
2	Press the support spring to pull out the heat exchanger thermistor (R2T).	
3. Removal of air outlet thermistor	<ul style="list-style-type: none"> ■ Dismount the backside plate and bottom plate according to the removal procedure for the drain pan. 	
1	Remove the single screw of the suction air thermistor (R3T).	

Revision History

Month / Year	Version	Revised contents
06 / 2013	Si281313E	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.

Dealer

DAIKIN INDUSTRIES, LTD.

Head Office:
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,
Kita-ku, Osaka, 530-8323 Japan

Tokyo Office:
JR Shinagawa East Bldg., 2-18-1, Konan,
Minato-ku, Tokyo, 108-0075 Japan

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

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