DAIKIN

SiBE201001

Service Manual

Self Cleaning Decoration Panel



[Applied Model]

- BYCQ140CGW1

Self Cleaning Decoration Panel

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1. Introduction

1.1 Safety Cautions

Cautions and Warnings

- Be sure to read the following safety cautions before conducting repair work.
- The caution items are classified into "⚠ **Warning**" and "⚠ **Caution**". The "⚠ **Warning**" items are especially important since they can lead to death or serious injury if they are not followed closely. The "⚠ **Caution**" items can also lead to serious accidents under some conditions if they are not followed. Therefore, be sure to observe all the safety caution items described below.
- About the pictograms

△ This symbol indicates the item for which caution must be exercised.
The pictogram shows the item to which attention must be paid.

◯ This symbol indicates the prohibited action.
The prohibited item or action is shown in the illustration or near the symbol.

● This symbol indicates the action that must be taken, or the instruction.
The instruction is shown in the illustration or near the symbol.

- After the repair work is complete, be sure to conduct a test operation to ensure that the equipment operates normally, and explain the cautions for operating the product to the customer.

1.1.1 Cautions Regarding Safety of Workers

⚠ Warning	
Be sure to disconnect the power cable plug from the plug socket before disassembling the equipment for repair. Working on the equipment that is connected to the power supply may cause an electrical shock. If it is necessary to supply power to the equipment to conduct the repair or inspecting the circuits, do not touch any electrically charged sections of the equipment.	
If the refrigerant gas is discharged during the repair work, do not touch the discharged refrigerant gas. The refrigerant gas may cause frostbite.	
When disconnecting the suction or discharge pipe of the compressor at the welded section, evacuate the refrigerant gas completely at a well-ventilated place first. If there is a gas remaining inside the compressor, the refrigerant gas or refrigerating machine oil discharges when the pipe is disconnected, and it may cause injury.	
If the refrigerant gas leaks during the repair work, ventilate the area. The refrigerant gas may generate toxic gases when it contacts flames.	
The step-up capacitor supplies high-voltage electricity to the electrical components of the outdoor unit. Be sure to discharge the capacitor completely before conducting repair work. A charged capacitor may cause an electrical shock.	
Do not start or stop the air conditioner operation by plugging or unplugging the power cable plug. Plugging or unplugging the power cable plug to operate the equipment may cause an electrical shock or fire.	

Warning	
Be sure to wear a safety helmet, gloves, and a safety belt when working at a high place (more than 2 m). Insufficient safety measures may cause a fall accident.	
In case of R-410A refrigerant models, be sure to use pipes, flare nuts and tools for the exclusive use of the R-410A refrigerant. The use of materials for R-22 refrigerant models may cause a serious accident such as a damage of refrigerant cycle as well as an equipment failure.	

Caution	
Do not repair the electrical components with wet hands. Working on the equipment with wet hands may cause an electrical shock.	
Do not clean the air conditioner by splashing water. Washing the unit with water may cause an electrical shock.	
Be sure to provide the grounding when repairing the equipment in a humid or wet place, to avoid electrical shocks.	
Be sure to turn off the power switch and unplug the power cable when cleaning the equipment. The internal fan rotates at a high speed, and cause injury.	
Be sure to conduct repair work with appropriate tools. The use of inappropriate tools may cause injury.	
Be sure to check that the refrigerating cycle section has cooled down enough before conducting repair work. Working on the unit when the refrigerating cycle section is hot may cause burns.	
Use the welder in a well-ventilated place. Using the welder in an enclosed room may cause oxygen deficiency.	

1.1.2 Cautions Regarding Safety of Users

Warning	
Be sure to use parts listed in the service parts list of the applicable model and appropriate tools to conduct repair work. Never attempt to modify the equipment. The use of inappropriate parts or tools may cause an electrical shock, excessive heat generation or fire.	
If the power cable and lead wires have scratches or deteriorated, be sure to replace them. Damaged cable and wires may cause an electrical shock, excessive heat generation or fire.	
Do not use a joined power cable or extension cable, or share the same power outlet with other electrical appliances, since it may cause an electrical shock, excessive heat generation or fire.	
Be sure to use an exclusive power circuit for the equipment, and follow the local technical standards related to the electrical equipment, the internal wiring regulations, and the instruction manual for installation when conducting electrical work. Insufficient power circuit capacity and improper electrical work may cause an electrical shock or fire.	
Be sure to use the specified cable for wiring between the indoor and outdoor units. Make the connections securely and route the cable properly so that there is no force pulling the cable at the connection terminals. Improper connections may cause excessive heat generation or fire.	
When wiring between the indoor and outdoor units, make sure that the terminal cover does not lift off or dismount because of the cable. If the cover is not mounted properly, the terminal connection section may cause an electrical shock, excessive heat generation or fire.	
Do not damage or modify the power cable. Damaged or modified power cable may cause an electrical shock or fire. Placing heavy items on the power cable, and heating or pulling the power cable may damage the cable.	
Do not mix air or gas other than the specified refrigerant (R-410A / R-22) in the refrigerant system. If air enters the refrigerating system, an excessively high pressure results, causing equipment damage and injury.	
If the refrigerant gas leaks, be sure to locate the leaking point and repair it before charging the refrigerant. After charging refrigerant, make sure that there is no refrigerant leak. If the leaking point cannot be located and the repair work must be stopped, be sure to perform pump-down and close the service valve, to prevent the refrigerant gas from leaking into the room. The refrigerant gas itself is harmless, but it may generate toxic gases when it contacts flames, such as fan and other heaters, stoves and ranges.	
When relocating the equipment, make sure that the new installation site has sufficient strength to withstand the weight of the equipment. If the installation site does not have sufficient strength and if the installation work is not conducted securely, the equipment may fall and cause injury.	

Warning	
Check to make sure that the power cable plug is not dirty or loose, then insert the plug into a power outlet securely. If the plug has dust or loose connection, it may cause an electrical shock or fire.	
Be sure to install the product correctly by using the provided standard installation frame. Incorrect use of the installation frame and improper installation may cause the equipment to fall, resulting in injury.	For unitary type only 
Be sure to install the product securely in the installation frame mounted on the window frame. If the unit is not securely mounted, it may fall and cause injury.	For unitary type only 
When replacing the coin battery in the remote controller, be sure to disposed of the old battery to prevent children from swallowing it. If a child swallows the coin battery, see a doctor immediately.	

Caution	
Installation of a leakage breaker is necessary in some cases depending on the conditions of the installation site, to prevent electrical shocks.	
Do not install the equipment in a place where there is a possibility of combustible gas leaks. If the combustible gas leaks and remains around the unit, it may cause a fire.	
Check to see if the parts and wires are mounted and connected properly, and if the connections at the soldered or crimped terminals are secure. Improper installation and connections may cause excessive heat generation, fire or an electrical shock.	
If the installation platform or frame has corroded, replace it. Corroded installation platform or frame may cause the unit to fall, resulting in injury.	
Check the grounding, and repair it if the equipment is not properly grounded. Improper grounding may cause an electrical shock.	

Caution	
Be sure to measure the insulation resistance after the repair, and make sure that the resistance is 1 MΩ or higher. Faulty insulation may cause an electrical shock.	
Be sure to check the drainage of the indoor unit after the repair. Faulty drainage may cause the water to enter the room and wet the furniture and floor.	
Do not tilt the unit when removing it. The water inside the unit may spill and wet the furniture and floor.	
Be sure to install the packing and seal on the installation frame properly. If the packing and seal are not installed properly, water may enter the room and wet the furniture and floor.	For unitary type only 

1.2 Used Icons

Icons are used to attract the attention of the reader to specific information. The meaning of each icon is described in the table below:

Icon	Type of Information	Description
Note:	Note	A “note” provides information that is not indispensable, but may nevertheless be valuable to the reader, such as tips and tricks.
Caution	Caution	A “caution” is used when there is danger that the reader, through incorrect manipulation, may damage equipment, loose data, get an unexpected result or has to restart (part of) a procedure.
Warning	Warning	A “warning” is used when there is danger of personal injury.
	Reference	A “reference” guides the reader to other places in this binder or in this manual, where he/she will find additional information on a specific topic.

Part 1
Specifications

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1. Specification

1.1 Main Specification

Model	BYCQ140CGW1
Outside dimensions	125∗1×950×950
Cleaning frequency	Once a day∗2
Dust collecting frequency	Once a year∗3
Dust collecting method	Sucking with vacuum cleaner
Applicable vacuum cleaner	Cleaner tube dia ϕ32 to 42 Except special shape Suction force 300W or more

Note:

∗1 Height in ceiling 85mm

∗2 Operation by integrated operating hours or designated time is selectable

∗3 General offices: Annual operating hours 2500≒8 hours / day x 25 days / month: approx. 1 year

Shops: Annual operating hours 5000≒15 hours / day x 28 days / month: approx. 1/2 year

Limited conditions:

- Prohibited to use in restaurants and bars
- Prohibited to use in smoking rooms
- Prohibited to use where oil splash / fume hangs in a factory
- Prohibited to use where sticky substances are generated like barber shops

1.2 Applicable Unit

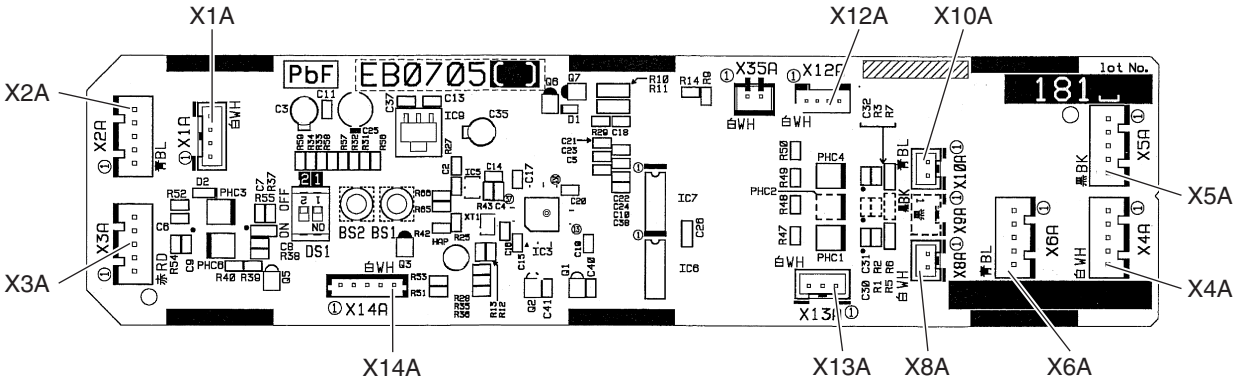
		Type
Indoor unit		New Round Flow Cassette Series
Outdoor unit	Split	Inverter
	SkyAir	GQI, GQI-HH, GQI-Low, GQL-II
	VRV	VRV outdoor (except mini VRV series)
Controller		BRC1E51

Part 2 Printed Circuit Board Connector & Wiring Diagram

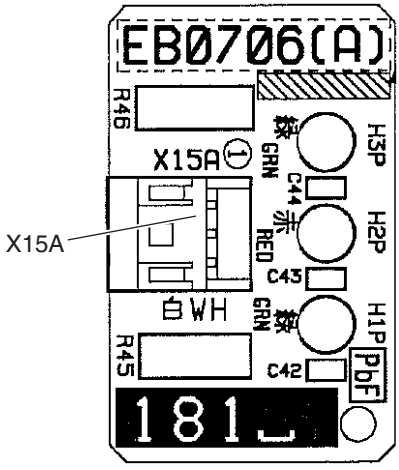
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1. Printed Circuit Board Connector & Wiring Diagram

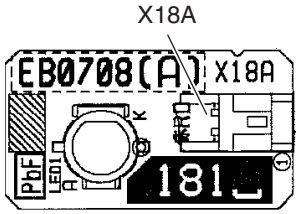
1.1 PCB Connector for BYCQ140CGW1



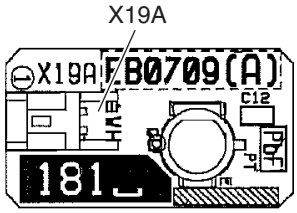
[A1P]



[A2P]

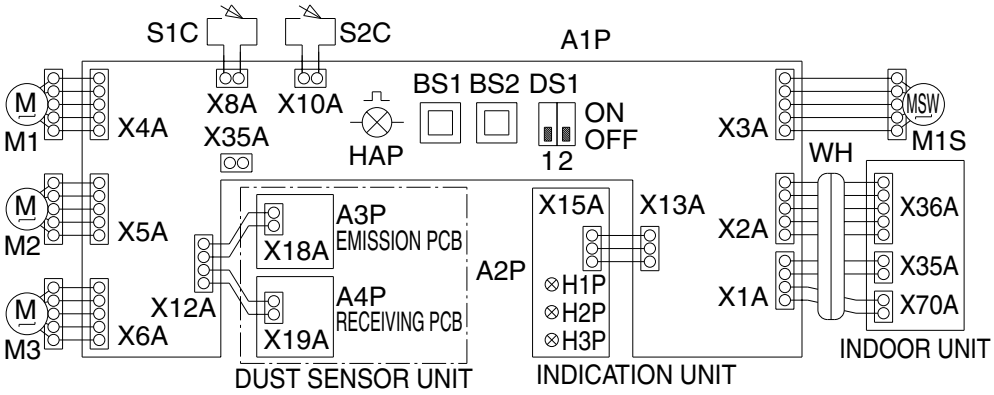


[A3P]



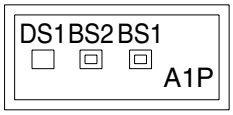
[A4P]

1.2 Wiring Diagram for BYCQ140CGW1



BS1	PUSH BUTTON (FILTER AUTO CLEANING TEST)			HAP	LIGHT EMITTING DIODE (SERVICE MONITOR GREEN)
BS2	PUSH BUTTON (RESET OF ABNORMALITY INDICATION)			S1C	LIMIT SWITCH (FILTER)
DS1	1	DIP SWITCH (ON: FILTER CLEANING PROHIBITION MODE)		S2C	LIMIT SWITCH (DAMPER)
	2	DIP SWITCH (ON: INCREASING LIGHT QUANTITY OF DUST SENSOR)		M1S	MOTOR (SWING FLAP)
H1P H3P	INDICATOR LAMP (GREEN)		AC RUNNING: LIGHTING	M1	MOTOR (FILTER)
			FILTER CLEANING RUNNING: FLASHING	M2	MOTOR (BRUSH)
H2P	INDICATOR LAMP (RED)		DUST DETECTING: LONG CYCLE FLASHING	M3	MOTOR (DAMPER)
			ABNORMAL: SHORT CYCLE FLASHING	X35A	CONNECTER (GROUP CONTROL ADAPTOR)

NOTE) 1. ⊙⊙ , ⊣⊢ THESE SYMBOLS SHOW CONNECTORS.
2. WHEN DS1-1, -2 ARE TURNED ON, THEY WILL BE SET TO FILTER CLEANING. PROHIBITION MODE AND INCREASE OF DUST DETECTION SENSOR LIGHT QUANTITY.
3. H1P AND H3P ARE NOT SET TO LIGHT WHEN SHIPPED FROM THE FACTORY.
4. POWER SUPPLY TO THE ADAPTER WILL BE CONNECTED TO THE CONNECTOR (X35A) OF A1P.



CONTROL BOX (PANEL)

3D065583

Part 3
Function and Control

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1. Filter Auto Cleaning Function

This function becomes effective when the unit is connected to the self cleaning decoration panel. The filter is automatically cleaned once a day when the unit is stopped or when the unit is forcibly stopped during operation.

1.1 Operation Modes

Filter auto cleaning operation can be set to the following modes.

Operation mode	Description	Settings	
		Clock setting (∗1)	Specified time to start filter auto cleaning (∗2)
Scheduled timer operation (∗3)	Performs filter auto cleaning during the specified period selected from 8 periods.	Set	Set
0:00 to 3:00 operation (∗3)	During the period not selected from 8 periods, performs filter auto cleaning during the factory setting period of time (from 0:00 to 3:00).	Set	Not set
Auto control operation	Performs filter auto cleaning according to satisfy the condition of self cleaning by judgement of product.	Not set	—

Note:

∗1 When the clock setting on the remote controller is used to set the current time, filter auto cleaning performed as per the specified time operation mode or the 0:00 and 3:00 operation mode.

∗2 If no specified time is set, filter auto cleaning is performed at the factory setting (between 0:00 and 3:00).

∗3 If the clock setting is reset due to a prolonged power failure, the auto control operation mode is selected until the clock is set again.

1.2 Timing When Filter Auto Cleaning Starts

The following table shows the timing when filter auto cleaning starts.
(○: Filter auto cleaning operation is allowed.)

Operation mode	Auto control operation (∗1)	22 to 24 hours pass after the previous filter auto cleaning operation →	24 to 26 hours pass after the previous filter auto cleaning operation →	More than 26 hours pass after the previous filter auto cleaning operation (∗2)
	Specified time operation (∗1)	0 to 1 hour from the top of the specified time	1 to 2 hours from the top of the specified time	More than 2 hours from the top of the specified time
Operation condition of air conditioner	Stop (Comp._OFF)	○	○	○ (∗3)
	Thermostat OFF (Comp._OFF)	×	○	○ (∗3)
	Thermostat ON (Comp._OFF)	×	○ (∗3) (Including temperature condition)	○ (∗3) (Not including temperature condition)

Note:

∗1 If the cumulated time of fan operation has been less than 2 hours, the filter auto cleaning operation does not start.

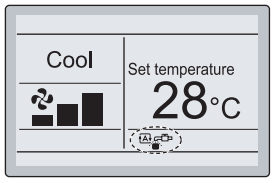
∗2 When the cumulated time of fan operation after the end of previous filter auto cleaning operation has been more than 15 hours, the filter auto cleaning operation starts.

∗3 Filter auto cleaning starts after compressor off.

∗4 If the difference between the set temperature and actual room temperature is large (heavy load is applied to the unit), the filter auto cleaning operation does not start.

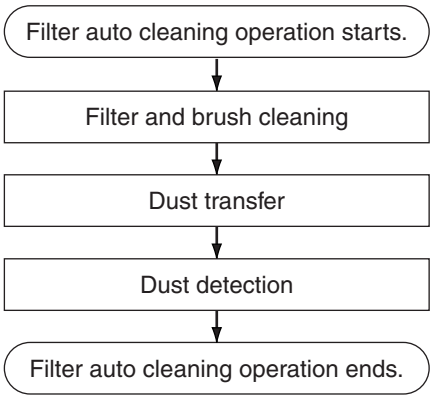
∗5 The timing when the filter auto cleaning operation starts may not meet the conditions above exactly due to the control or operation condition of the unit.

∗6 "Filter auto cleaning" is displayed on the screen of the remote controller during the filter auto cleaning operation.



1.3 Basic Operations of the Filter Auto Cleaning Operation

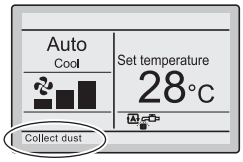
The filter auto cleaning operation consists mainly of three processes: "filter and brush cleaning", "dust transfer" and "dust detection". Meanwhile, the fan forcibly rotates at an airflow rate specified by the controller and the swing flap is locked horizontally. The operations and time of the filter auto cleaning operation vary according to the field setting of the "Dust amount setting: Standard and Heavy [(14(24)-9]". The basic operations and standard operating time are shown below.



Process of filter auto cleaning operation	Dust amount setting [Field setting: 14(24)-9]		Fan speed	
	"Standard" (Setting position "01")	"Heavy" (Setting position "02")	L	Exclusive for H
Start of filter auto cleaning operation	Locking flap horizontally / Fan operation ↓ Setting brush	Locking flap horizontally / Fan operation ↓ Setting brush		
↓	↓	↓		
Filter and brush cleaning	Rotating filter 40° ↓ Brush cleaning ↓ Rotating filter 9 times until it rotates 360°	Rotating filter 20° ↓ Brush cleaning ↓ Rotating filter 18 times until it rotates 360°		
↓	↓	↓		
Dust transfer	Opening damper ↓ Dust transfer	Opening damper ↓ Dust transfer		
↓	↓	↓		
Dust detection	Dust detection (Dust detection sensor activates)	Dust detection (Dust detection sensor activates)		
↓	↓	↓		
End of filter auto cleaning operation	Closing damper ↓ Locking flap horizontally / Releasing fan operation	Closing damper ↓ Locking flap horizontally / Releasing fan operation		
Required time	Approx. 10 minutes	Approx. 18 minutes	—	

1.4 Dust Collection Sign Display

Time for collecting dust from the dust box will appear on the remote controller display when the time comes.



The display and operation of the dust collection sign are switched in stages according to the conditions below.

Place of display \ Collection sign		Collection sign 1 (∗1)	Collection sign 2 (∗2, ∗4) →	Collection sign 3 (∗3, ∗4) →	Collection sign 4 (∗3, ∗4)
Remote controller	LCD screen (Sign display)	The messages “Collect Dust.” and “Press Menu Button.” will be alternately displayed.			Error code “AH (-05)” will be displayed.
	Operation lamp	Normal display		Blinking	
Decoration corner cover indicator (Red)		No display	Blinking at long intervals	Blinking at short intervals	
Air conditioning operation when the sign is displayed		Operation is allowed.		Operation is not allowed until the sign is reset.	
Filter auto cleaning operation when the sign is displayed		Operation is allowed.		Operation is not allowed until the sign is reset.	Operation is not allowed.

Note:

∗1 Collection sign 1 is displayed when the cumulated time of fan operation reaches a certain period of time. (The factory setting is 2,500 hours.)
The collection sign 1 corrects the schedule using the learning function based on the time when the dust is detected by the dust detection sensor, forecasts when the dust box will be filled with dusts and appears at that time. The "dust collection sign interval" in the field setting is the upper limit of the display interval.

∗2 Collection sign 2 is displayed when dust is detected by the dust detection sensor.

∗3 The collection sign is changed to 3 or 4 when dust is continuously detected after collection sign 2 or 3 is displayed and the cumulated time of fan operation exceeds 210 hours. (The collection sign will not change from 1 to 2.)

∗4 When the dust in the dust box is vacuumed up and "Yes" is selected on the sign display, the display of the dust collection sign goes out.
If the dust in the dust box is not vacuumed up and "Yes" is selected on the sign display, the sign display goes out once but the same sign display reappears after a certain time of period.

1.5 Test Operation of Filter Auto Cleaning

The test operation can be done with the remote controller or the push button switch on the control PCB of the self cleaning decoration panel.

Test Operation Instruction	Method of Test Operation Instruction	Applicable Indoor Units	Display during Test Operation		Interruption of Test Operation
			Remote Controller Display	Panel Indicator	
Instruction from remote controller (∗1, ∗2, ∗3)	Select “Filter auto cleaning test operation” from the field setting menu of remote controller. (See Fig. 1)	All indoor units in the same remote controller system	“Filter auto cleaning” is displayed.	Green lamp blinks.	Not allowed. (The operation cannot be stopped until it ends completely.)
Instruction from control PCB of the self cleaning decoration panel (∗1, ∗3, ∗4)	Press and hold the push button switch (BS1) on the control PCB of self cleaning decoration panel for 1 second. (See Fig. 2)	Only the indoor unit of which the push button switch (BS1) was pressed.	No displayed.	Green lamp blinks.	Allowed. (∗5)

Note:

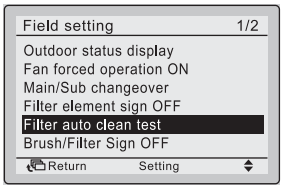
∗1 Compressor is set OFF during the filter auto cleaning test operation.

∗2 The filter auto cleaning test operation cannot be done while the air conditioner is running. (A message explaining that the filter auto cleaning test operation cannot be done is displayed on the remote controller.)

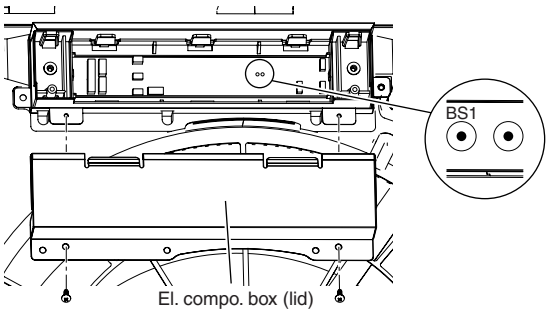
∗3 If the air conditioner operation is instructed during the filter auto cleaning test operation, the air conditioner operation is kept on standby until the filter auto cleaning test operation is completed.

∗4 When the test operation is instructed during the air conditioner operation, compressor is forcibly set OFF and the filter auto cleaning test operation starts.

∗5 You can interrupt the test operation by repressing the push button switch (BS1) on the control PCB of the self cleaning decoration panel.
(When interrupting operation, it may take a few tens of seconds to stop the operation completely after you press the push button switch.)



(Fig. 1)



(Fig. 2)

Part 4
Field Setting

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1. Field Setting

1.1 Description of Setting

Make setting according to the installation and usage of the air conditioner.

Mode No.	First Code No.	Description of the setting
14 (24)	2	Dust collection sign interval display
	3	Interval of the filter replacement sign display
	4	The panel indicator (green) ON/OFF
	8	Selection of the automatic control operation lock mode
	9	Dust amount setting: standard/heavy

1.2 Setting Contents and Code No. for Indoor Units

: Factory setting

Description of the setting	Mode No.	First Code No.	Second Code No.			
			01	02	03	04
Dust collection sign interval display	14(24)	2	Approx. 1,250 hrs.	Approx. 2,500 hrs.	Approx. 5,000 hrs.	—
Interval of the filter replacement sign display		3	Not displayed	Approx. 32,000 hrs.	Approx. 48,000 hrs.	Approx. 72,000 hrs.
The panel indicator (green) ON/OFF		4	The indicator lights up during both air conditioning operation and filter auto cleaning.	The indicator can light up only during filter auto cleaning.	The indicator does not light up during both air conditioning operation and filter auto cleaning.	—
Selection of the automatic control operation lock mode		8	ON	OFF	—	—
Dust amount setting		9	Standard dust amount	Heavy dust amount	—	—

1.3 Detailed Explanation of Setting Modes

1.3.1 Dust Collection Sign Interval Display

This setting is used to change the display interval (upper limit) of the dust collection sign when the self cleaning decoration panel is connected.
The interval is based on the cumulated operation hours and set according to the installation environment.
The factory setting is the second code No. "02".

Mode No.	First Code No.	Second Code No.		
		01	02	03
14(24)	2	Approx. 1,250 hrs. (Heavy dust amount)	Approx. 2,500 hrs. (Standard dust amount)	Approx. 5,000 hrs. (Light dust amount)

Change the field setting "Dust amount setting: Standard and Heavy [(14(24)-9]" according to the installation environment.
The dust collection sign intervals will be corrected each time by the learning function.
The values set here will be controlled as an upper limit for the display interval.

1.3.2 Interval of Filter Replacement Sign Display

This function is used to change the sign display interval for replacing the filter when the self cleaning decoration panel is connected.
Set the interval according to the installation environment based on the cumulated fan operating time.
The factory setting is second code No. "01".

Mode No.	First Code No.	Second Code No.			
		01	02	03	04
14(24)	3	Not displayed	Approx. 32,000 hrs.	Approx. 48,000 hrs.	Approx. 72,000 hrs.

If you select a setting other than "Not displayed" and the operation hours reach the set time, a message that requests you to check the filter condition is displayed on the remote controller.

1.3.3 Panel Indicator (Green) ON/OFF

This function is used to change the panel indicator display condition when the self cleaning decoration panel is connected.
The panel indicator is turned on during the following operations.

Indicator (Green) Status	Operation Status
Lights up	Operation of air conditioner
Blinks	Filter auto cleaning operation

Change the setting according to the installation environment.
The factory setting is second code No. "01".

Mode No.	First Code No.	Second Code No.		
		01	02	03
14(24)	4	The indicator lights ON during both air conditioning operation or filter auto cleaning.	The indicator can light up only during filter auto cleaning.	The indicator does not light up during both air conditioning operation or filter auto cleaning.

The indicator (red) that indicates the dust collection time cannot be set to OFF.

1.3.4 Selection of the Auto Control Operation Lock Mode

This function is used to change the filter auto cleaning operation mode from the specified time operation to auto control operation when the self cleaning decoration panel is connected.
The filter automatic cleaning operation modes are shown below.

Operation Mode	Description
Specified time operation	Performs filter auto cleaning during the designed period selected from 8 periods.
Auto control operation	Performs filter auto cleaning according to satisfy the condition of self cleaning by judgement of product.

Select the setting according to usage.
The factory setting is second code No. "02".

Mode No.	First Code No.	Second Code No.	
		01	02
14(24)	8	ON	OFF

If "ON" is selected, "Auto" is displayed on the remote controller "Main Menu"→ "Setting Status List"→ "Filter Auto Cleaning" screen.

* If the clock on the remote controller is not set or the clock is reset after the unit is installed, the auto operation mode is automatically selected, but if the clock is running, the operation is controlled by the specified time operation.

1.3.5 Dust Amount Setting

This function is used to change the setting according to the amount of the dust in the room when the self cleaning decoration panel is connected.
The filter is thoroughly cleaned by setting the dust amount to Heavy.
Change the setting according to the installation environment.
The factory setting is second code No. "01".

Mode No.	First Code No.	Second Code No.	
		01	02
14(24)	9	Dust amount: Standard	Dust amount: Heavy

Dust amount…Standard: For business offices
Dust amount…Heavy: For shops handling textiles, etc.

Change also the "Dust collection sign display interval [14(24)-2]" according to the installation environment.
Changing the setting to "Dust amount: Heavy" may cause an increase in operating time (about double of the standard setting) and a shorter control parts life, so watch the situation if you change the setting.

Part 5
Installation Manual

1. BYCQ140CGW1 17

1. BYCQ140CGW1

DAIKIN

BYCQ140CGW1 Self Cleaning decoration panel Installation manual

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1. SAFETY PRECAUTIONS

Please read these “SAFETY PRECAUTIONS” carefully before installing air conditioning equipment and be sure to install it correctly. After completing installation, conduct a trial operation to check for faults and explain to the customer how to operate the air conditioner and take care of it with the aid of the operation manual. Ask the customer to store the installation manual along with the operation manual for future reference.
This air conditioner comes under the term “appliances not accessible to the general public”.

Meaning of WARNING and CAUTION notices.

⚠ **WARNING.....** Failure to follow these instructions properly may result in personal injury or loss of life.

⚠ **CAUTION.....** Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

⚠ WARNING

- Ask your dealer or qualified personnel to carry out installation work.
  Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.
- Perform installation work in accordance with the instructions in this installation manual. Do not modify the product.
  Improper installation may result in water leakage, electric shocks, or fire.
- Be sure to use only the specified accessories and parts for installation work.
  Failure to use the specified parts may result in the unit falling, water leakage, electric shocks or fire.
- Make sure that specified wires are used and that there is no strain on the terminal connections or wires.
  Improper connections or securing of wires may result in abnormal heat radiation or fire.
- Be sure to switch off the unit before touching any electrical parts.
- Arrange the lead wires of the provided harness so that the EL. COMPO. BOX lid of the indoor unit will not rise, and attach the lid securely.
  Heat radiation, electric shocks, or fire may result if the EL. COMPO. BOX lid is not attached properly.
- Tear up and dispose of the plastic bag.
  Children playing with the plastic bag may be suffocated.

⚠ CAUTION

- Install the indoor and outdoor units, power cord, remote controller wiring, and transmission wiring at least 1m away from TV or radio sets. This is for the prevention of TV and radio interference. (Depending on the incoming signal strength, a distance of 1 meter may not be sufficient to eliminate noise.)
- Pay the utmost attention to the transportation of the product. Hold the handles on the package to carry the product.
  Do not carry the package with the polypropylene band on the package held, which will be dangerous because the polypropylene band may be deformed.
- Do not touch the fin of the heat exchanger.
  Touching the fin improperly may result in injury.
- Do not turn the product power off immediately after the operation of the product comes to a stop.
  Always wait for at least 5 minutes before turning the product power off.
  Otherwise, water leakage and malfunctions may result.
- Do not install the air conditioner in the following locations:
  1. Where there is a high concentration of mineral oil spray or vapour (e.g. a kitchen).
     Plastic parts will deteriorate, parts may fall off and water leakage could result.
  2. Where corrosive gas, such as sulphurous acid gas, is produced.
     Corroding of copper pipes or soldered parts may result in refrigerant leakage.
  3. Near machinery emitting electromagnetic radiation.
     Electromagnetic radiation may disturb the operation of the control system and result in a malfunction of the unit.
  4. Where flammable gas may leak, where there is carbon fibre or ignitable dust suspensions in the air, or where volatile flammables such as paint thinner or gasoline are handled.
     Operating the unit in such conditions may result in fire.

[Instructions peculiar to this product]
Do not install the product in the following places.
Oil, cigarette tar, and steam will result in sticky dust on the filter, which may not be cleaned properly. Furthermore, sticky dust may cause malfunctions.
Places with oily smoke: Restaurants, factories, etc.
Places with excessive cigarette smoke: Smoking room, etc.
Places with excessive moisture or steam: Restaurants, factories, etc.

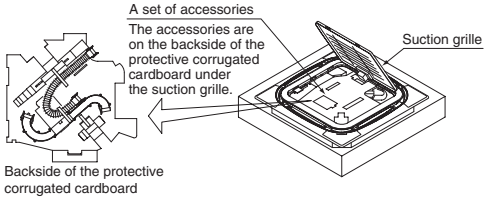
- The air conditioner is not intended for use in a potentially explosive atmosphere.

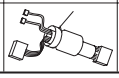
Note

- Have the customer actually operate the air conditioner while referring to the operation manual and explain the right operation of the air conditioner with useful tips given.
- Refer to the operation manual along with the installation manual provided with the indoor unit.
- Use the BRC1E51A7 remote controller.

2. ACCESSORY

Check that the following accessories provided with the air conditioner are correct in number. See the following illustration, which shows where the accessories are kept.



Name	Spacer (1)	Flexible hose (2)	S-shaped pipe (3)	Harness (4)	Clamp (5)
Quantity	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.
Shape					

Name	Connecting pipe (6)	Attachment (7)	Seal (8)	Others
Quantity	1 pc.	1 pc.	1 pc.	
Shape				• Operation manual • Installation manual

Pay the utmost attention to the following items when conducting installation work, and recheck the items on completion of the work.

a. Test items on completion of work

Test items	In case of failure	Result
Is the air conditioner free of wiring and connection mistakes or omissions?	Operation failure and wire burnout	
Are you sure that there is no space between the ceiling and ceiling material?	Water leakage	
Are the fixing knobs (in two points) of the dust box secured tightly?	Vibration, noise, and dust collection failure	
Are the fixed knobs (in five points) of the air filter secured tightly?	Vibration, noise, and dust collection failure	
Is the fall prevention cord for the dust box and grille hooked to the mounting bracket?	Fall	
Did you attach the EL. COMPO. BOX lid, dust box, flexible hose, S-shaped pipe, suction grille, and decoration corner covers?	Noise and dust collection failure	

* Be sure to recheck the items provided in the section “SAFETY PRECAUTIONS”.

b. Test items before delivery

Test items	Result
Was the test operation of the air conditioner finished?	
Did you explain the operation method of the air conditioner to the customer while showing the customer the operation manual? *	
Did you make mode settings for filter auto cleaning (automatic control operation settings or timer operation settings with an operation time zone specified) and provide information on the set mode operation of the air conditioner to the customer?	
Did you deliver the operation manual to the customer? (Be sure to hand the customer the operation manual as well as the installation manual.)	
Did you hand the customer the connecting pipe and attachment and ask the customer to keep them?	

* **Point of operation explanation**
In addition to the general usage of the air conditioner, it is necessary to explain the descriptions of the ⚠ WARNING and ⚠ CAUTION marked items in the operation manual and have the customer read the descriptions carefully, because these items indicate information that, if not heeded, is likely to result in loss of life, serious injury, or property damage.

3. INSTALLATION SITE

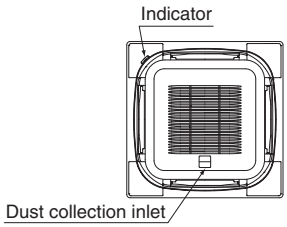
This product offers selectable air outlet directions. A closure kit (an optional accessory) is required to achieve three-way flow patterns. Two-way flow patterns are not available to this product.

3-1 Select the installation site that meets the following conditions with the consent of the customer.

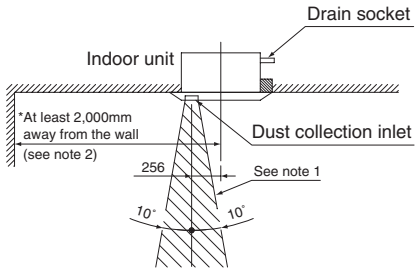
- The surface of the ceiling is not remarkably inclined.
- Installation and service workspace is secured (see the following illustrations).
- The panel indicators are seen with ease.
- The indoor and outdoor units, power cord, transmission wiring, and remote controller wiring are at least 1m away from TV or radio sets.
  (The above is for the prevention of TV and radio interference. Depending on the incoming signal strength, a distance of 1 meter may not be sufficient to eliminate noise.)

3-2 Required installation space.

Install the indoor unit according to the installation manual and the following illustrations.



Front side of panel

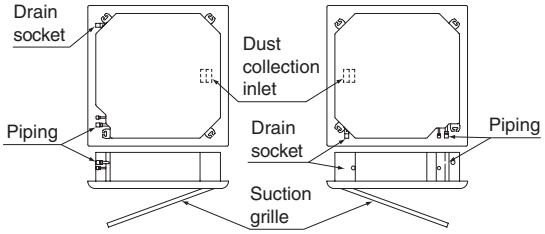


Note

1. A space is required for dust collection with a vacuum cleaner used.
2. The asterisk-marked space will be at least 700mm with the air outlet closed.

3-3 Mounting directions of suction grille.

Select one of the following mounting directions of the suction grille on the panel.



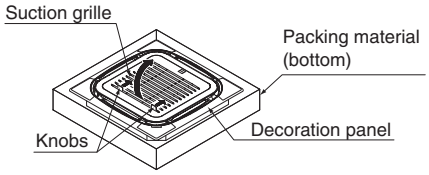
4. PREPARATIONS FOR PANEL

Note

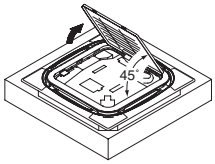
- Perform all the required work in **"4. PREPARATIONS FOR PANEL"** with the panel kept in the packing material (on the bottom side).
- Do not put the panel downward or upright or leave the panel on protruding parts.
  Otherwise, scratch damage to the surface of the panel may result.

4-1 Removal of suction grille from panel, protective corrugated cardboard, and set of accessories.

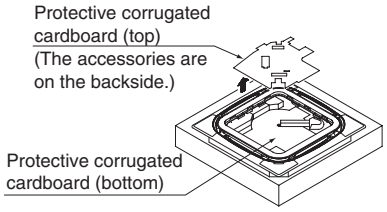
(1) Press the knobs of the suction grille and lift up the knobs.



(2) Open the suction grille to an angle of approximately 45˚ and remove the suction grille from the panel.

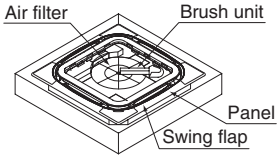


(3) Take out the protective corrugated cardboard.
Take out the protective corrugated cardboard (on top of the panel) together with the accessories attached to the backside of the protective corrugated cardboard.

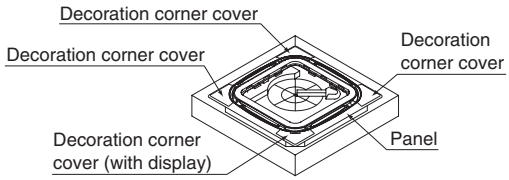


Note

Do not impose force on the swing flap, brush unit, or air filter when handling the panel.



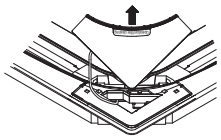
4-2 Removal of decoration corner covers.



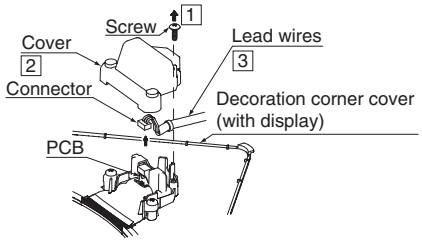
(1) Raise and remove the decoration corner cover (with the display) in the direction of the arrow.

Note

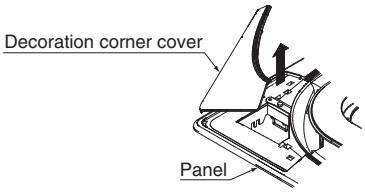
Do not impose force on the lead wires.



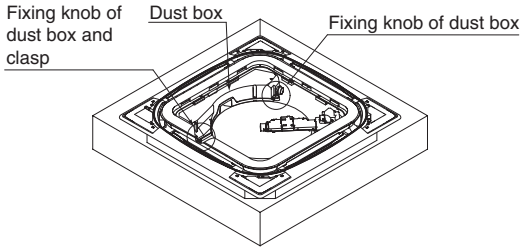
(2) Remove the screws on the backside of the decoration corner cover (with the display), open the cover, and remove the connector attached to the front end of the lead wires from the PCB.



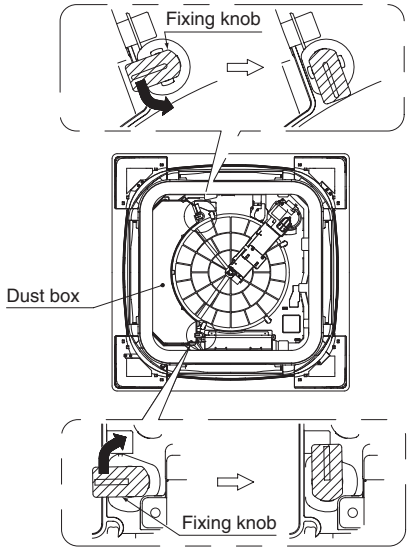
(3) Remove each of the remaining decoration corner covers (i.e., three covers) in the direction of the arrow.



4-3 Removal of dust box.

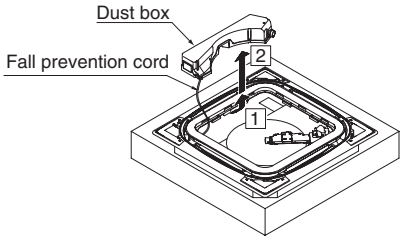


(1) Turn the two fixing knobs of the dust box.

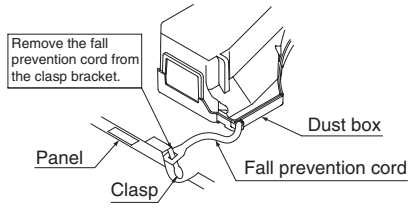


(The front side of the panel is shown for ease of explanation.)

(2) Remove the dust box from the panel while paying attention not to cut the fall prevention cord.



(3) Remove the fall prevention cord for the dust box from the clasp bracket of the panel.



5. PREPARATIONS FOR INDOOR UNIT

⚠ WARNING

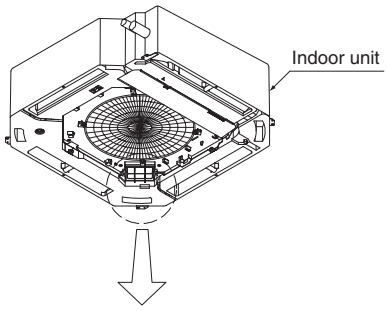
Check that the indoor and outdoor units are turned power off before conducting wiring work.

Otherwise, an electric shock may be received.

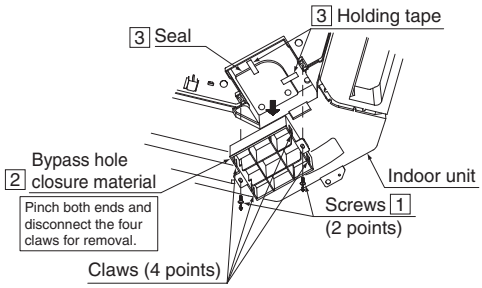
⚠ CAUTION

- Conduct the following work after installing the indoor unit.
- Install the indoor unit according to the installation manual provided with the indoor unit.

5-1 Attaching spacer (accessory (1)).

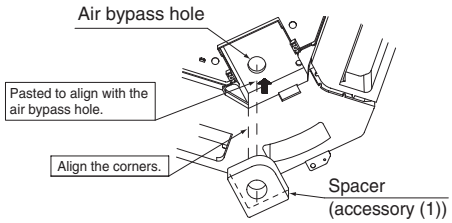


(1) Remove the bypass hole closure material, and peel off the seal and holding tape.



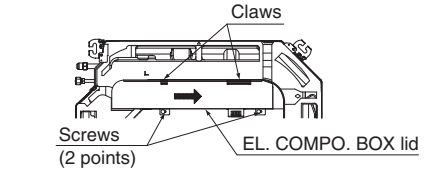
(2) Peel off the release paper of the double-stick tape on the backside of the spacer (accessory (1)).

(3) Attach the spacer (accessory (1)) on the air bypass hole. Check that the air bypass hole is not blocked after the spacer is attached.

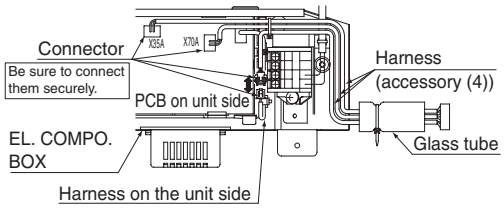


5-2 Attaching harness (accessory (4)).

(1) Remove the EL. COMPO. BOX lid from the indoor unit.



(2) Connect the harness (accessory (4)) to the connectors (X35A and X70A) and the three points of the harness on the unit side.



Note

Make sure that the connectors are securely connected, or otherwise the swing flap, brush unit, or air filter will not work.

5-3 Attaching EL. COMPO. BOX lid.

Attach the EL. COMPO. BOX lid in the order opposite to the procedure in **5-2** (1).

Note

Make sure that the wires or glass tube will not be caught by the EL. COMPO. BOX lid.

WARNING

Arrange the electric wires neatly and attach the EL. COMPO. BOX lid securely.

The electric wires being caught or the rising of the EL. COMPO. BOX lid may result in an electric shock or fire.

6. ATTACHING PANEL TO INDOOR UNIT

Install the indoor unit by referring to the installation manual provided with the indoor unit.

Note

Do not impose force on the swing flap, brush unit, or air filter when taking out the panel from the packing material (on the bottom side).

6-1 Checks before attaching panel.

- Check the directions of the indoor unit and the engraved marks on the panel as shown below.
  The piping block to the PIPING SIDE and the drain socket to the DRAIN SIDE.
- Stand the temporary latching bracket upright.
- Draw out the lead wires (on the panel side) from the opening.

6-2 Attaching panel.

(1) Tentatively put the two temporary latching brackets of the suction port of the panel (on the internal circumference side) to the hooks of the indoor unit.

Note

Leave your hands after confirming through the check window that the temporary latching brackets are engaged with the hooks.

(2) Draw out from the opening the harness attached in "**5. PREPARATIONS FOR INDOOR UNIT**". Furthermore, pull out the lead wires disconnected from the corner decoration cover (with the display) in "**4. PREPARATIONS FOR PANEL**" from the corner hole carefully so that the lead wires will not be caught by the mounting bracket.

(3) Put the mounting brackets (in four points) on the corners of the panel to the hooks of the circumference of the indoor unit. (Hook the mounting bracket engraved with the PIPING SIDE first, followed by the mounting bracket on the opposite angle side.)
At that time, pay attention that the harness and lead wires (on the panel side) will not be caught between the panel and indoor unit.

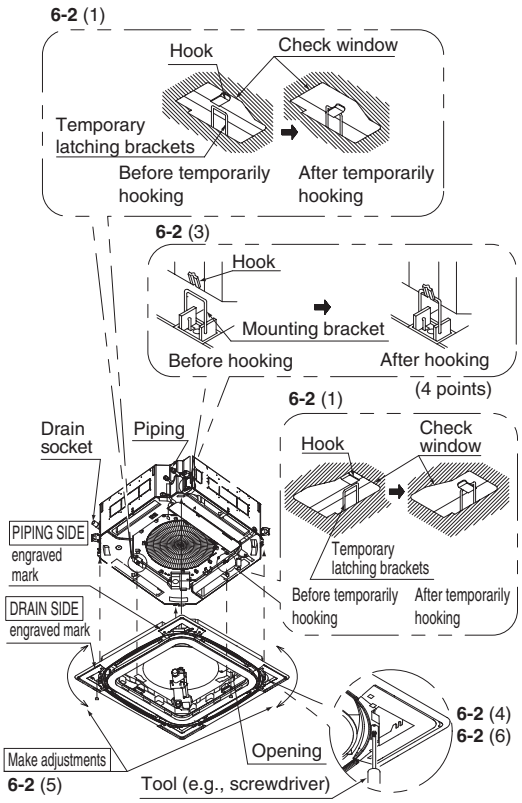
Note

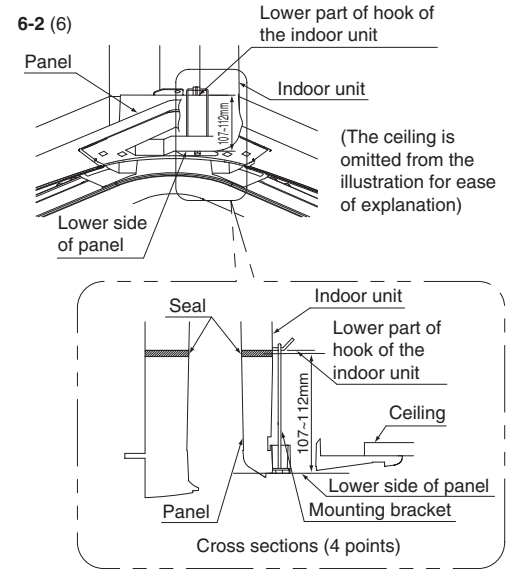
Leave your hands after confirming that the mounting brackets are engaged with the hooks.

(4) Tighten the four hexagon head screws right under the mounting bracket for approximately 5mm. (The panel will move upward.)

(5) Turn the panel in the directions of the arrows so that the opening on the ceiling will be perfectly covered by the panel.

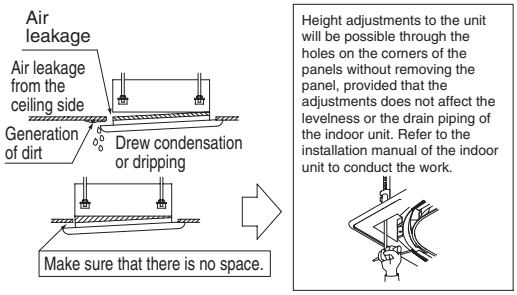
(6) Furthermore, tighten the screw (4) until the distance from the lower part of the hook of the indoor unit to the lower part of the panel becomes 107 to 112mm.





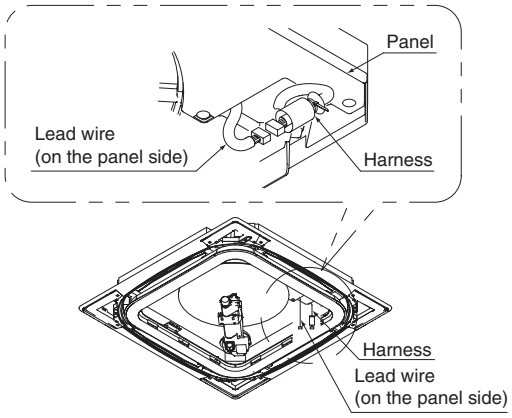
Note

- Tighten the screws securely, or otherwise a defect as shown below may result.
- Readjust the height of the indoor unit if there is a space between the ceiling and panel with the screws tightened securely.

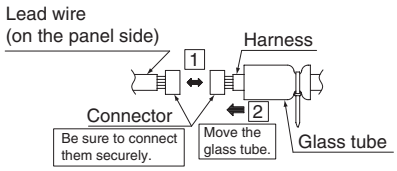


6-3 Checking panel.

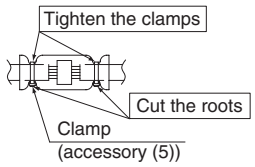
(1) Draw the harness and lead wires (on the panel side).



(2) Connect the connector of the lead wires and move the glass tube to cover the connector part.



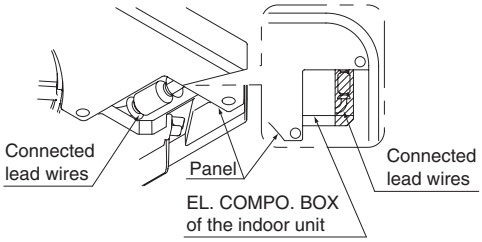
(3) Tighten and secure both ends of the glass tube with the clamps on the glass tube together with provided clamps (accessories (5)). Cut the redundant portions of the clamps from their roots after the both ends are secured.



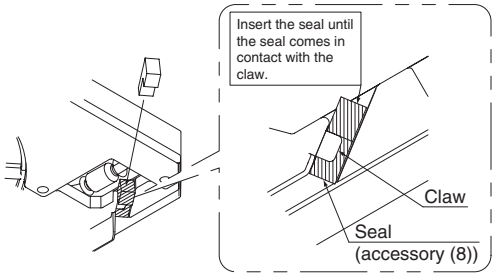
(4) Return the connected lead wires to the space between the indoor unit and panel.
(Accommodate the lead wires in the shaded part shown in the illustration.)

Note

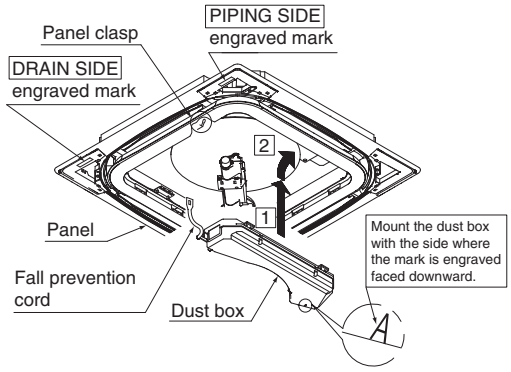
Accommodate the lead wires carefully so that the lead wires will not come in contact with the air filter.



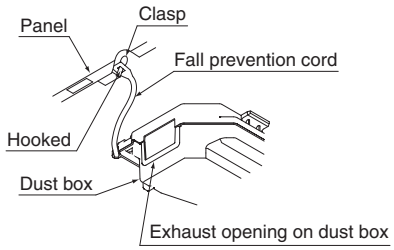
(5) Insert the seal (accessory (8)).



6-4 Attaching dust box.



(1) Hook the fall prevention cord for the dust box to the panel clasp as shown in the illustration.

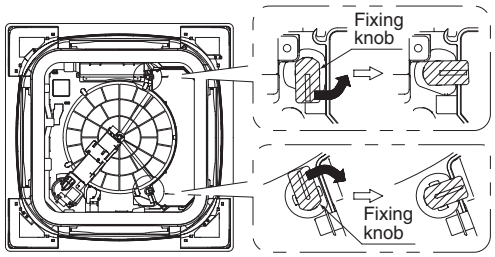


(2) Attach the dust box in the order opposite to the procedure in **4-3** under **"4. PREPARATIONS FOR PANEL"**.

Note

Make sure that the fall prevention cord is not caught by the exhaust opening on the dust box when attaching the dust box. Otherwise, the dust box may not function normally.

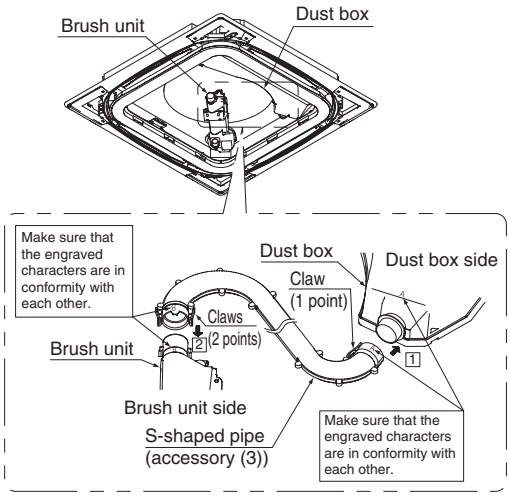
(3) Turn the fixing knobs (in two points) of the dust box and secure the dust box.



(The front side of the panel is shown for ease of explanation.)

6-5 Mounting S-shaped pipe (accessory (3)).

Mount the dust box side (engraved with A) before mounting the brush side (engraved with B).
(Mount them so that the engraved characters will be in conformity.)



Note

Check that the claws are engaged securely. Otherwise, a dust collection failure may result.

7. ATTACHING SUCTION GRILLE AND DECORATION CORNER COVERS

The suction grill can be rotated and attached in two directions, either one of which is selectable.
If a number of units are installed, adjust the directions of the suction grilles if necessary. Make directional changes as well at the request of the customer.

7-1 Attaching suction grille.

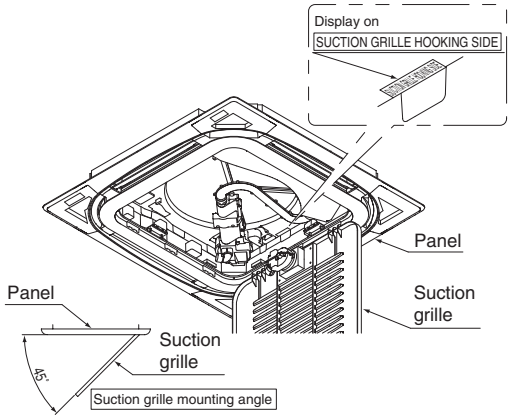
* Select either the hook (A) or (B), and hook the claws of the suction grille.

Note

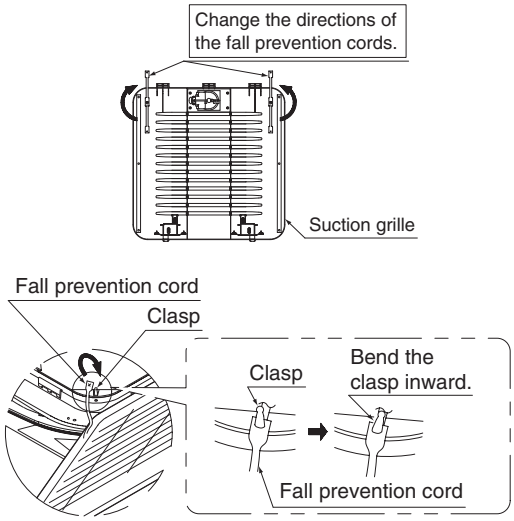
The suction grille may be damaged if the wrong hooking side is selected.

7-2 Hook (A).

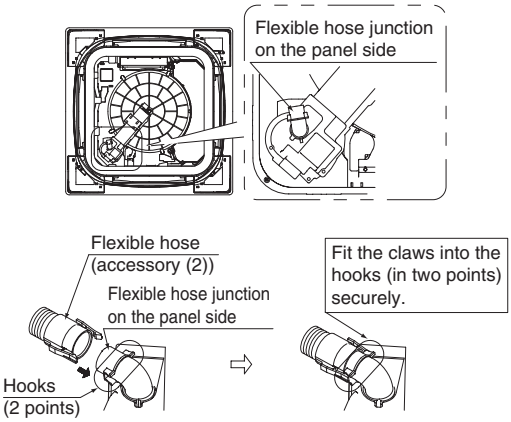
(1) Set the suction grille to an angle of approximately 45˚ and put the hooks (in three points) onto the panel.



(2) As shown in the illustration, hook the fall prevention cords for the suction grille to the corner clasps (on two corners).



(3) Connect the flexible hose (accessory (2)) onto the panel side.
(The flexible hose (accessory (2)) has no directionality constraint.)



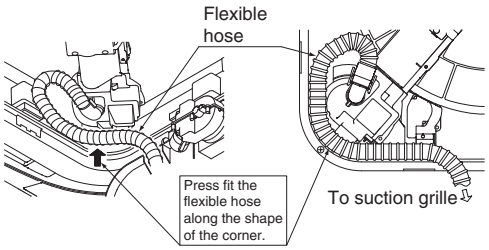
Note

Check that the claws are engaged securely. Otherwise, a dust collection failure may result.

(4) Press fit the flexible hose connected in (3) into the panel. (Pay attention so that the hose will not be caught by the suction grille closed.)

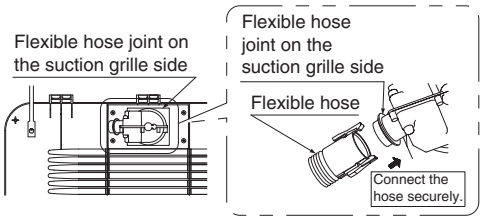
Note

Be sure not to break the flexible hose when press fitting the flexible hose.



(5) Connect the opposite end of the flexible hose connected in (3) onto the suction grille side.

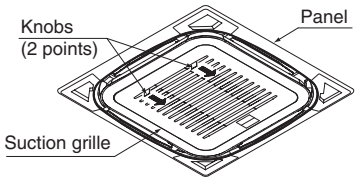
* Rotate the flexible hose joint on the suction grille side according to the mounting direction of the suction grille as shown in the illustration.



Note

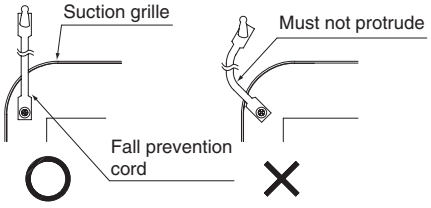
Check that the claws are engaged securely. Otherwise, a dust collection failure may result.

(6) Push up the suction grille slowly first, and while pressing the two knobs, finally fit the grille into the panel securely.



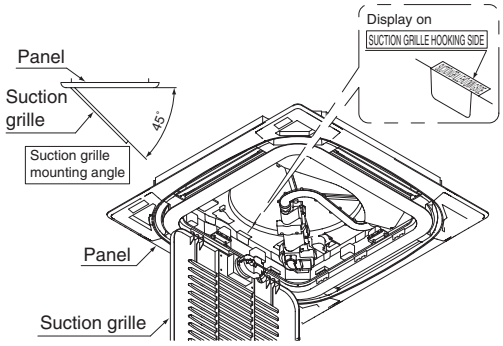
Note

The suction grille can catch the fall prevention cords while the suction grill is closed.
Check that the fall prevention cords do not protrude from the suction grille before closing the suction grille.

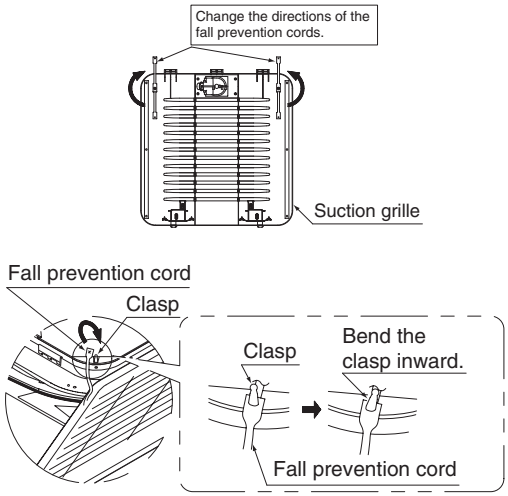


7-3 Hook (B).

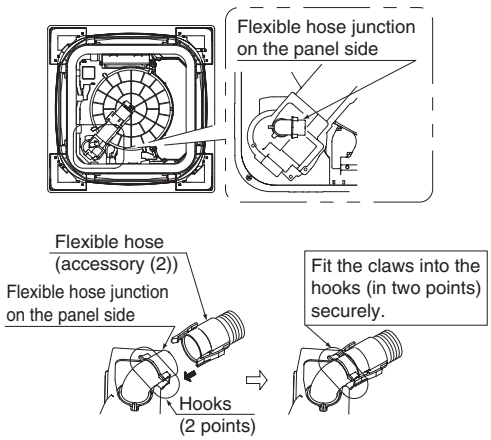
(1) Set the suction grille to an angle of approximately 45˚ and put the hooks (in three points) onto the panel.



(2) As shown in the illustration, hook the fall prevention cords for the suction grille to the corner clasps (on two corners).



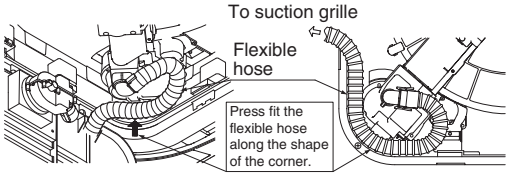
(3) Connect the flexible hose (accessory (2)) onto the panel side. (The flexible hose (accessory (2)) has no directionality constraint.)



Note

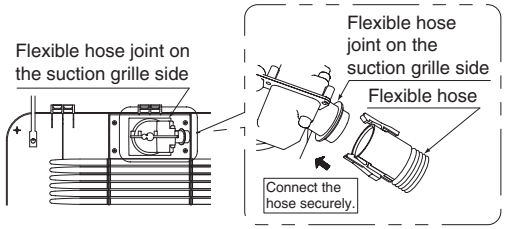
Check that the claws are engaged securely. Otherwise, a dust collection failure may result.

(4) Press fit the flexible hose connected in (3) into the panel. Pay attention so that the hose will not be caught by the suction grille closed.



(5) Connect the opposite end of the flexible hose connected in (3) onto the suction grille side.

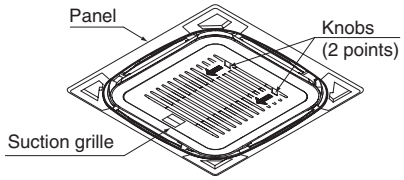
* Rotate the flexible hose joint on the suction grille side according to the mounting direction of the suction grille as shown in the illustration.



Note

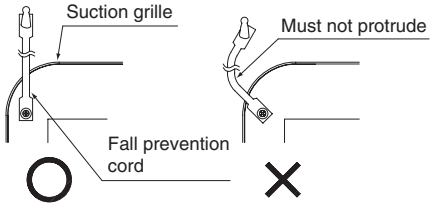
Check that the claws are engaged securely. Otherwise, a dust collection failure may result.

(6) Push up the suction grille slowly first, and while pressing the two knobs, finally fit the grille into the panel securely.



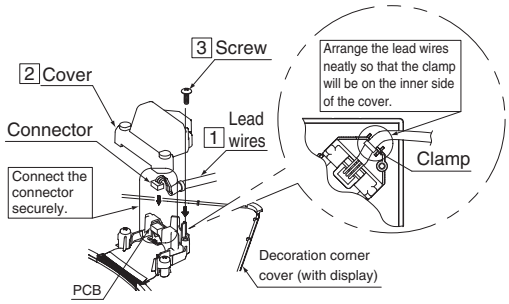
Note

The suction grille can catch the fall prevention cords while the suction grill is closed.
Check that the fall prevention cords do not protrude from the suction grille before closing the suction grille.

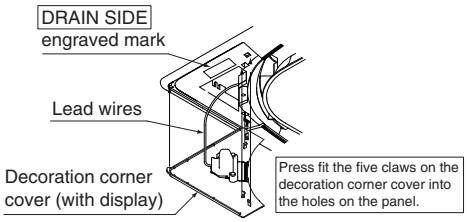


7-4 Attaching decoration corner covers.

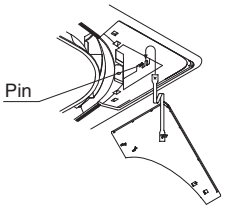
(1) Connect the decoration corner cover (with the display) securely to the PCB in the order opposite to the procedure in **"4. PREPARATIONS FOR PANEL"**.



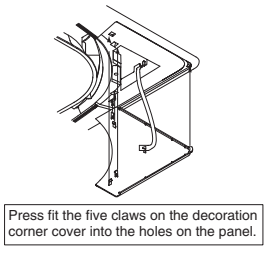
(2) Attach the decoration corner cover (with the display) to the corner with the DRAIN SIDE engraved mark. Push the connected lead wires through the corner hole onto the backside of the ceiling.



(3) Hook each of the cords of the remaining decoration corner covers (i.e., three covers) onto the corresponding pin on the panel.



(4) Attach the decoration corner covers (i.e., the three covers) to the panel.



8. OPERATION MODE SETTINGS

Any one of the following operation modes can be selected for the filter auto cleaning of the self-clean panel.

Operation mode	Description
(1) Scheduled timer operation	Performs filter auto cleaning during the designated period selected from eight periods.
(2) 00:00-to-03:00 operation	Performs filter auto cleaning during the factory-set period of time (00:00 to 03:00).
(3) Auto control operation	Performs filter auto cleaning according to the control reference.

In consultation with the customer, set the desired operation mode by referring to the instructions on Filter Auto cleaning and Filter Auto clean setting in the operation manual for the Self Cleaning decoration panel.
At the time of delivery, refer to the contents of descriptions (1) through (3) in the above table and explain the customer when filter auto cleaning will start.

9. FIELD SETTINGS

Make settings in consultation with the customer according to the installation and usage conditions of the air conditioner. The following three settings are possible.

9-1 Dust quantity settings.

Make settings according to the quantity of dust in the room.
- Standard quantity of dust (General offices)
- Large quantity of dust (Stores dealing in clothing)

9-2 Panel indicator (green) On/Off.

The panel indicator (green) can display the following operating conditions. Make indicator settings according to the request of the customer.

Indicator		Operating conditions	Remarks
Green	Lit	Air-conditioning operation	The indicator is turned off before shipping.
	Flashing	Filter auto cleaning	

The red lamp to inform the customer of the time of dust collection will not be turned off.

Make field settings according to the installation manual of the remote controller. (Settings in bold cells are made before shipping.)

Setting item	Mode No	FIRST CODE NO	SECOND CODE NO.			
			01	02	03	04
Display Dust Collection sign 1	10 (20)	(3)	**Display**	No display	–	–
Dust quantity settings	14 (24)	(9)	**Standard quantity of dust**	Large quantity of dust	–	–
Panel indicator (green) on/off	14 (24)	(4)	**On while in air-conditioning operation and filter cleaning operation.**	Possible to turn on while in filter cleaning operation only.	**Off while in air-conditioning operation and filter cleaning operation. * Factory settings**	–

10. TEST OPERATION

Perform the test operation of the Self Cleaning decoration panel after the test operation of the indoor unit is finished.
The test operation of the Self Cleaning decoration panel is not possible while the indoor unit is in operation.

Note

Perform the test operation of the product after referring to “a. Test items on completion of work”.

10-1 Check that the EL. COMPO. BOX lids of the indoor unit, outdoor unit, and self-clean panel, respectively, are closed.

10-2 Turn the indoor unit power on.

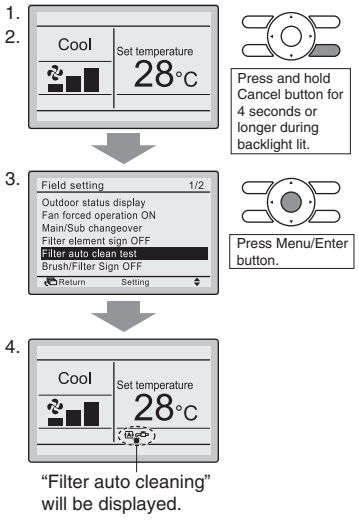
The panel will go into initialization operation after the power is turned on.

10-3 Conduct the test operation of the panel two minutes after the power is turned on.

Confirm the cleaning operation of the filter with the remote controller.

Test operation method with remote controller

1. Stop the operation of the panel if the panel is in air-conditioning operation.
2. Continue pressing the Cancel button at least 4 seconds while the backlight is lit. The local setting menu will appear.
3. Select Filter auto clean test from the local setting menu, and press the Menu/Enter button.
4. “” will appear on the basic screen.
   The display will disappear when the test operation is finished.
   The required test operation time is approximately 10 minutes (in the case of setting the standard quantity of dust).



Backlight for LCD

Press any button and the backlight will be lit for approximately 30 seconds.
Perform the operation of buttons while the backlight is lit (except the On/Off button).

Test items on test operation

Test items	Remedy	Check result
Is the filter rotating?	Check the connector connections.	
Are the flaps fixed horizontally?		
Is “” displayed on the screen of the remote controller?		

* The remote controller will display “AH” if the self-clean panel has an error.

Note

After the test operation of the product is finished, refer to “b. Test items before delivery” in the installation manual.

Part 6
Operation Manual

1. BYCQ140CGW1 28

1. BYCQ140CGW1

Safety Precautions

To gain full advantage of the air conditioner's functions and to avoid malfunction due to mishandling, we recommend that you read this instruction manual carefully before use.
This air conditioner is classified under "appliances not accessible to the general public".

- **The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.**

⚠ **WARNING**..... Failure to follow these instructions properly may result in personal injury or loss of life.

⚠ **CAUTION**..... Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

- **After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the equipment is transferred to a new user, be sure also to hand over the manual.**

⚠ WARNING

Be aware that prolonged, direct exposure to cool or warm air from the air conditioner, or to air that is too cool or too warm can be harmful to your physical condition and health.

When the air conditioner is malfunctioning (giving off a burning odour, etc.) turn off power to the unit and contact your local dealer.
Continued operation under such circumstances may result in a failure, electric shocks or fire hazards.

Consult your local dealer about installation work.
Doing the work yourself may result in water leakage, electric shocks or fire hazards.

Consult your local dealer regarding modification, repair and maintenance of the air conditioner.
Improper workmanship may result in water leakage, electric shocks or fire hazards.

Do not place objects, including rods, your fingers, etc., in the air inlet or outlet.
Injury may result due to contact with the air conditioner's highspeed fan blades.

Beware of fire in case of refrigerant leakage.
If the air conditioner is not operating correctly, i.e. not generating cool or warm air, refrigerant leakage could be the cause. Consult your dealer for assistance. The refrigerant within the air conditioner is safe and normally does not leak. However, in the event of a leakage, contact with a naked burner, heater or cooker may result in generation of noxious gas. Do not longer use the air conditioner until a qualified service person confirms that the leakage has been repaired.

Consult your local dealer regarding what to do in case of refrigerant leakage.
When the air conditioner is to be installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant does not exceed the concentration limit in the event of a leakage. Otherwise, this may lead to an accident due to oxygen depletion.

Contact professional personnel about attachment of accessories and be sure to use only accessories specified by the manufacturer.
If a defect results from your own workmanship, it may result in water leaks, electric shock or fire.

Consult your local dealer regarding relocation and reinstallation of the air conditioner.
Improper installation work may result in leakage, electric shocks or fire hazards.

Be sure to use fuses with the correct ampere reading.
Do not use improper fuses, copper or other wires as a substitute, as this may result in electric shock, fire, injury or damage to the unit.

Be sure to earth the unit.
Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks or fire.
A high surge current from lightning or other sources may cause damage to the air conditioner.

Be sure to install an earth leakage breaker.
Failure to install an earth leakage breaker may result in electric shocks or fire.

Consult the dealer if the air conditioner submerges owing to a natural disaster, such as a flood or typhoon.
Do not operate the air conditioner in that case, or otherwise a malfunction, electric shock, or fire may result.

Do not start or stop operating the air conditioner with the power supply breaker turned ON or OFF.
Otherwise, fire or water leakage may result. Furthermore, the fan will rotate abruptly if power failure compensation is enabled, which may result in injury.

Do not use the product in the atmosphere contaminated with oil vapor, such as cooking oil or machine oil vapor.
Oil vapor may cause crack damage, electric shocks, or fire.

Safety Precautions

Do not use the product in places with excessive oily smoke, such as cooking rooms, or in places with flammable gas, corrosive gas, or metal dust.
Using the product in such places may cause fire or product failures.

Do not use flammable materials (e.g., hairspray or insecticide) near the product.
Do not clean the product with organic solvents such as paint thinner.
The use of organic solvents may cause crack damage to the product, electric shocks, or fire.

Be sure to use a dedicated power supply for the air conditioner.
The use of any other power supply may cause heat generation, fire, or product failures.

⚠ CAUTION

Do not use the air conditioner for purposes other than those for which it is intended.
Do not use the air conditioner for cooling precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the object concerned.

Do not remove the outdoor unit's fan guard.
The guard protects against the unit's high speed fan, which may cause injury.

Do not place objects that are susceptible to moisture directly beneath the indoor or outdoor units.
Under certain conditions, condensation on the main unit or refrigerant pipes, air filter dirt or drain blockage may cause dripping, resulting in fouling or failure of the object concerned.

To avoid oxygen depletion, ensure that the room is adequately ventilated if equipment such as a burner is used together with the air conditioner.

After prolonged use, check the unit stand and its mounts for damage.
If left in a damaged condition, the unit may fall and cause injury.

Do not place flammable sprays or operate spray containers near the unit as this may result in fire.

Before cleaning, be sure to stop unit operation, turn the breaker off or remove the power cord.
Otherwise, an electric shock and injury may result.

To avoid electric shocks, do not operate with wet hands.

Do not place appliances that produce naked flames in places exposed to the air flow from the unit as this may impair combustion of the burner.

Do not place heaters directly below the unit, as resulting heat can cause deformation.

Be sure that children, plants or animals are not exposed directly to airflow from the unit, as adverse effects may ensue.

Do not wash the air conditioner or the remote controller with water, as this may result in electric shocks or fire.

Do not place water containers (flower vases, etc.) on the unit, as this may result in electric shocks or fire.

Do not install the air conditioner at any place where there is a danger of flammable gas leakage.
In the event of a gas leakage, build-up of gas near the air conditioner may result in fire hazards.

Do not put flammable containers, such as spray cans, within 1 m from the blow-off mouth.
The containers may explode because the warm air output of the indoor or outdoor unit will affect them.

Arrange the drain to ensure complete drainage.
If proper drainage from the outdoor drain pipe does not occur during air conditioner operation, there could be a blockage due to dirt and debris build-up in the pipe.
This may result in a water leakage from the indoor unit. Under these circumstances, stop air conditioner operation and consult your dealer for assistance.

Do not allow a child to mount on the outdoor unit or avoid placing any object on it.
Falling or tumbling may result in injury.

Do not block air inlets nor outlets.
Impaired air flow may result in insufficient performance or trouble.

The appliance is not intended for use by unattended young children or infirm persons.
Impairment of bodily functions and harm to health may result.

Children should be supervised to ensure that they do not play with the unit or its remote controller.
Accidental operation by a child may result in impairment of bodily functions and harm health.

Do not let children play on or around the outdoor unit.
If they touch the unit carelessly, injury may be caused.

Consult your dealer regarding cleaning the inside of the air conditioner.
Improper cleaning may cause breakage of plastic parts, water leakage and other damage as well as electric shocks.

To avoid injury, do not touch the air inlet or aluminum fins of the unit.

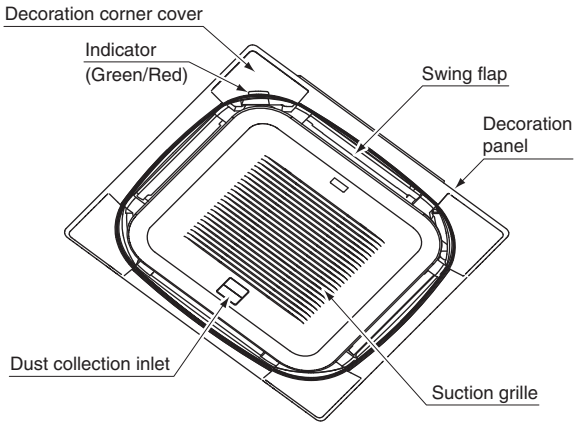
Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit.
Leaves are a hotbed for small animals which can enter the unit. Once in the unit, such animals can cause malfunctions, smoke or fire when making contact with electrical parts.

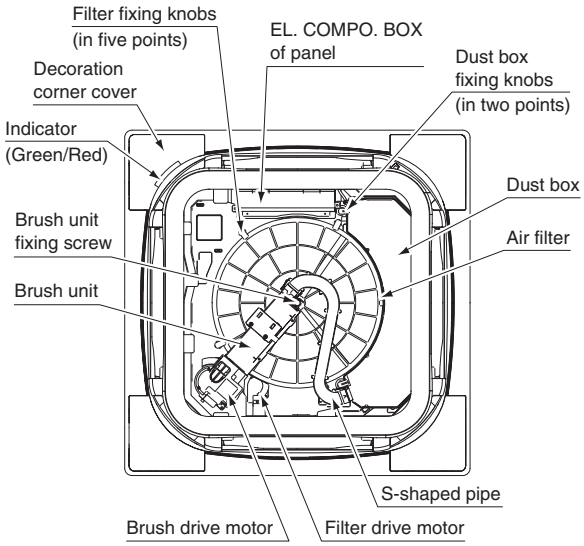
Never touch the internal parts of the controller.
Do not remove the front panel. Touching certain internal parts will cause electric shocks and damage to the unit. Please consult your dealer about checking and adjustment of internal parts.

Do not leave the remote controller wherever there is a risk of wetting.
If water gets into the remote controller there is a risk of electrical leakage and damage to electronic components.

Watch your steps at the time of air filter cleaning or inspection.
High-place work is required, to which utmost attention must be paid.
If the scaffold is unstable, you may fall or topple down, thus causing injury.

Names and Functions





- The illustration shows the decoration panel provided with filter auto cleaning function on the condition that the suction grille is removed.

Indicator

The display colors and conditions of the indicator tell the following contents.

Indicator color	State	Contents	
Green	Lit	The product is in air-conditioning operation (*)	
	Flashing	The product is performing filter auto cleaning (*)	
Red	Flashing at long intervals	Time to collect the dust in the dust box (with the dust detected by the dust sensor)	See page 12.
	Flashing at short intervals	The dust box is full, and filter auto cleaning is unavailable.	
		The occurrence of malfunctioning during filter auto cleaning.	

* The product is factory set not to indicate these items.

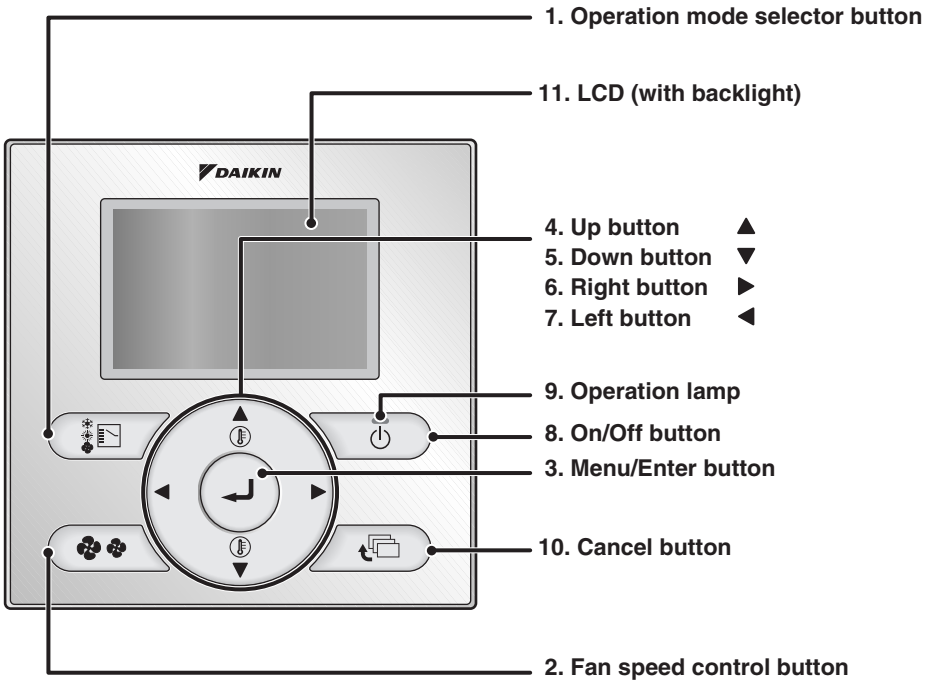
NOTE

Do not use the product in the following places.

Oil, cigarette tar, and steam will result in sticky dust on the filter, which may not be cleaned properly. Furthermore, sticky dust may cause malfunctions.

- Places with oily smoke ..... Restaurants, factories, etc.
- Places with excessive cigarette smoke ..... Smoking room, etc.
- Places with excessive moisture or steam..... Restaurants, factories, etc.

* The product may not be used under certain conditions besides the specific examples mentioned above. Contact your Daikin dealer for details.



Functions other than basic operation items (i.e., On/Off, Operation mode selector, Fan speed control, and temperature settings) are set from the menu screen.

NOTE

- **Do not install the remote controller in places exposed to direct sunlight. Otherwise, the LCD may become discolored and nothing may be displayed.**
- **Do not pull or twist the remote controller cord. Otherwise, the remote controller may error.**
- **Do not press the buttons on the remote controller with objects with sharp ends. Otherwise, the remote controller may receive damage or error.**

1. Operation mode selector button

- Press this button to select the operation mode of your preference.
  * Available modes vary with the connecting model.

2. Fan speed control button

- Press this button to select the fan speed of your preference.
  * Available fan speed vary with the connecting model.

3. Menu/Enter button

- Used to indicate the main menu.
- Used to enter the setting item selected.

4. Up button ▲ (Be sure to press the part with the symbol ▲)

- Used to raise the set temperature.
- The next items on the upper side will be highlighted.
  (The highlighted items will be scrolled continuously when the button is kept pressed.)
- Used to change the item selected.

5. Down button ▼ (Be sure to press the part with the symbol ▼)

- Used to lower the set temperature.
- The next items on the lower side will be highlighted.
  (The highlighted items will be scrolled continuously when the button is kept pressed.)
- Used to change the item selected.

Names and Functions

6. Right button ▶ (Be sure to press the part with the symbol ▶)

- Used to highlight the next items on the right-hand side.
- Each screen is scrolled in the right-hand direction.
- Home leave settings are enabled with this button kept pressed for at least four seconds.

7. Left button ◀ (Be sure to press the part with the symbol ◀)

- Used to highlight the next items on the left-hand side.
- Each screen is scrolled in the left-hand direction.
- Home leave settings are enabled with this button kept pressed for at least four seconds.

8. On/Off button

- Press this button and system will start.
- Press this button again and system will stop.

9. Operation lamp (Green)

- This lamp lights up during operation.
- This lamp blinks if a error occurs.

10. Cancel button

- Used to return to the previous screen.

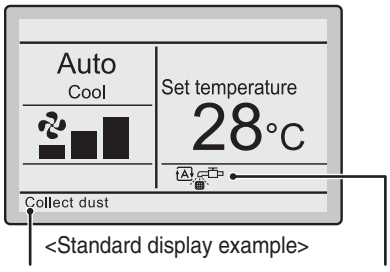
11. LCD (with backlight)

- The backlight will be light for approximately 30 seconds by pressing any operation button. Operate buttons excluding the On/Off button while the backlight is lit.
- If two remote controllers are used to control a single indoor unit, the backlight of the remote controller operated earlier than the other one will be lit. (The backlights of the two remote controllers will not be lit simultaneously.)

Liquid Crystal Display

- There are two display types, i.e., standard and detailed displays. The standard display is by default set.
- To go to the detailed display, select the detailed display in the main menu. For details, refer to the operation manual provided with the wired remote controller.
- Each of the following screens explains the state of the LCD display regarding filter auto cleaning function. For the contents of the LCD displays while the product is not in filter auto cleaning operation, refer to the operation manual provided with the wired remote controller.

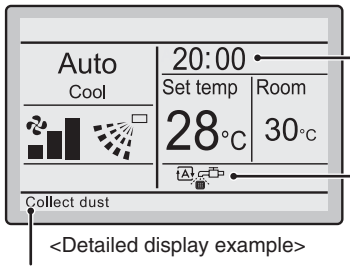
Standard display



<Standard display example>

2. Message **1. "Filter auto cleaning" display**

Detailed display



Clock (24 hours real time clock)

<Detailed display example>

2. Message **1. "Filter auto cleaning" display**

1."Filter auto cleaning" display

- Displayed while the product is performing filter auto cleaning.

2. Message

The following message will appear.
"Error: Press Menu Button."
"Warning: Press Menu Button."

- Displayed if the error or warning is detected. **(See page 16.)**

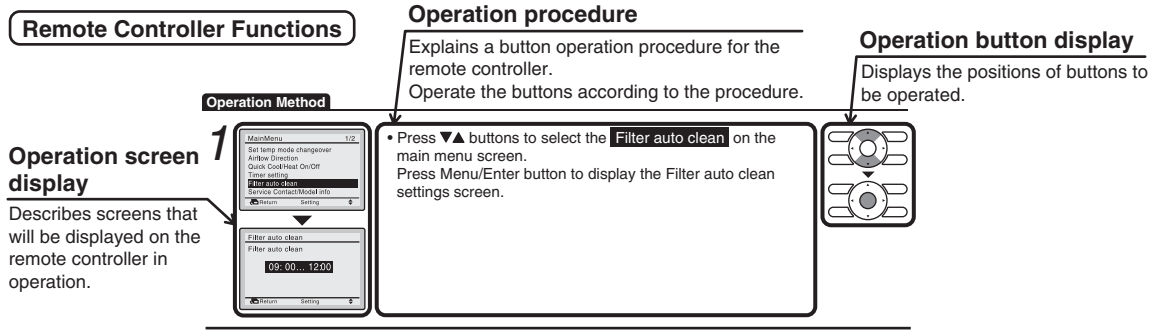
The messages "Collect dust." and "Warning: Press Menu Button." will appear alternately.

- Displayed when the time to collect the dust in the dust box has come. **(See page 12.)**

"Set clock from menu"

- Displayed to inform that the clock needs settings again. **(See page 9.)**
- The product will not start filter auto cleaning at the designated period unless settings are made again.

Filter Auto Cleaning



Filter Auto Clean Setting

This product performs filter auto cleaning once a day.
The air-conditioning operation of the product will come to a stop while the product is performing filter auto cleaning. Specify the desired period from eight periods.

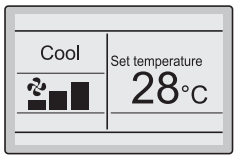
NOTE

- The correct clock settings are necessary.
- The product will perform filter auto cleaning from 00:00 to 03:00 (as factory default) if the period for filter auto cleaning is not specified.
- The product will perform filter auto cleaning at non-prescribed time if clock settings are not made.

■Method of Specifying Start Time

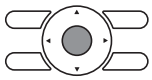
Operation Method

1

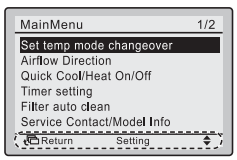


Basic screen

Press Menu/Enter button.



2

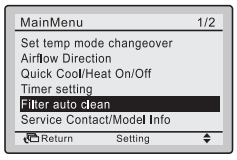


Main menu screen

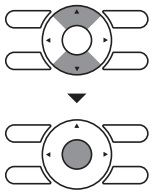
• The main menu screen will appear.

⇦ Instructions for manipulating the buttons will appear.

3

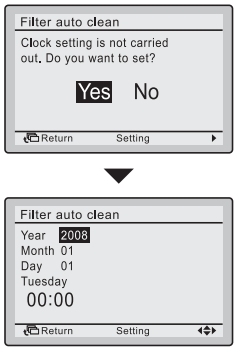


• Press ▼▲ buttons to select the Filter auto clean on the main menu screen.
Press Menu/Enter button to display the Filter auto clean settings screen.



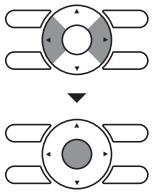
Filter Auto Cleaning

4

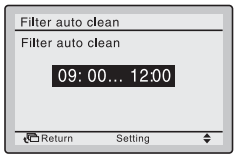


* Clock settings are required to set the start time of filter auto cleaning.

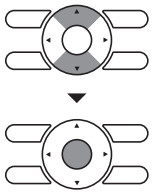
- If the clock has not been set, a screen like the one on the left will appear.
  Press ◀▶ buttons to select Yes and press Menu/Enter button.
  Set the current year, month, day, and time.
  (See clock settings on page 9.)



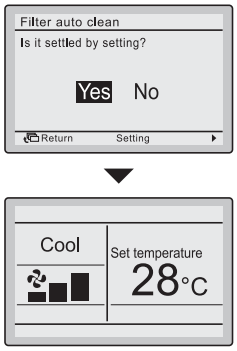
5



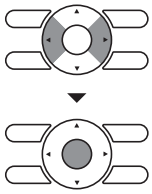
- The period will change whenever ▼▲ buttons are pressed in the Clock setting screen for filter auto cleaning.
  00: 00– 03: 00, 03: 00– 06: 00, 06: 00– 09: 00, 09: 00– 12: 00, 12: 00– 15: 00, 15: 00– 18: 00, 18: 00– 21: 00, 21: 00– 00: 00 Select the desired period from the ones displayed.
- Press Menu/Enter button.
  The settings confirmation screen will appear.



6



- Press ◀▶ button to select Yes on the settings confirmation screen.
  Press Menu/Enter button to set the filter auto clean and return to the basic screen.



Filter Auto Cleaning

The product has the following three operation modes, any one of which can be set for filter auto cleaning.

Operation mode	Description	Clock setting	Availability for designating time to start filter auto cleaning
Scheduled timer operation	Performs filter auto cleaning during the designated period selected from eight periods.	○	○
00:00-to-03:00 operation	Performs filter auto cleaning during the factoryset period of time (00:00 to 03:00).	○	×
Auto control operation	Performs filter auto cleaning according to the control reference.	×	× or ○

PREPARATION

- To designate a period for filter auto cleaning, avoid selecting the periods of time when the product is in air-conditioning operation as much as possible.
  If the period for filter auto cleaning overlaps with that for the air conditioning operation of the product, the product may stop air conditioning forcibly and start filter auto cleaning.
- If the message "**Set clock from menu**" appears, make clock settings again so that the filter auto cleaning will be performed during the designated period.
  * The product will be set to auto control operation mode unless clock settings are made again if the clock is reset for some reason (e.g., no power is supplied to the product for 48 hours or longer).

NOTE

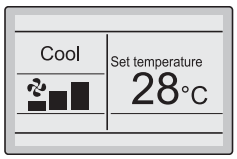
- The product may generate a little noise when the filter rotates or the dust is scraped with the brush.
- The fan rotates automatically during filter auto cleaning.

Clock Setting

■ Setting the clock

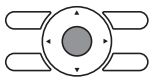
Operation Method

1

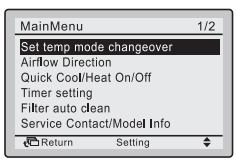


Basic screen

• Press Menu/Enter button.



2

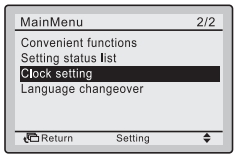


Main menu screen

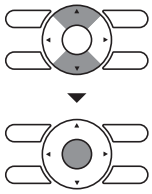
• The main menu screen will appear.

Filter Auto Cleaning

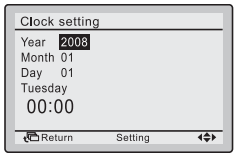
3



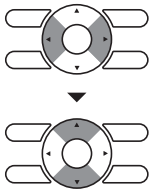
- Display the main menu screen. (See page 7.)
- Press ▼▲ buttons to select Clock setting on the main menu screen.
  Press Menu/Enter button to display the clock settings screen.



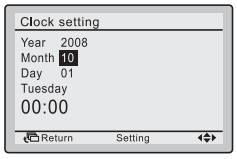
4



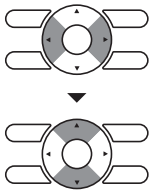
- Select “Year” with ◀▶ buttons.
  Input the year with ▼▲ buttons.
  Holding down the button causes the number to change continuously.



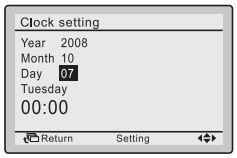
5



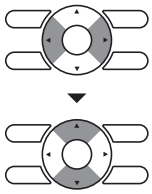
- Select “Month” with ◀▶ buttons.
  Input the month with ▼▲ buttons.
  Holding down the button causes the number to change continuously.



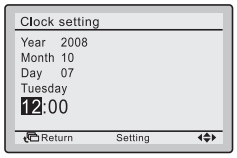
6



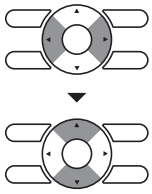
- Select “Day” with ◀▶ buttons.
  Input the day with ▼▲ buttons.
  Holding down the button causes the number to change continuously.
  Days of the week change automatically.



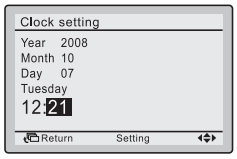
7



- Select “Hour” with ◀▶ buttons.
  Input the hour with ▼▲ buttons.
  Holding down the button causes the number to change continuously.



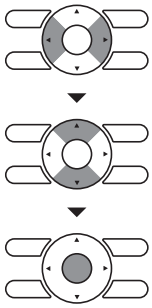
8



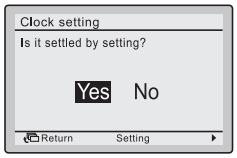
- Select “Minute” with ◀▶ buttons.
  Input the minute with ▼▲ buttons.
  Holding down the button causes the number to change continuously.
- Press Menu/Enter button.
  The settings confirmation screen will appear.

Note:

The date can be set between January 1, 2008 and December 31, 2099.

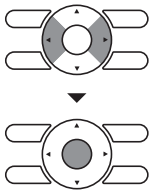


9



- Press ◀▶ button to select **Yes** on the settings confirmation screen.
  Press Menu/Enter button to set the clock and return to the basic screen.

* While making filter auto cleaning settings, the display will return to the screen for designating a period for filter auto clean. (See page 8.)

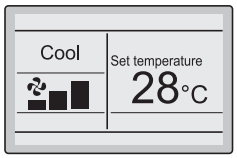


Setting Status List

■ Manipulating the setting status list

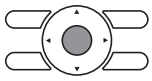
Operation Method

1

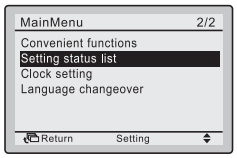


Basic screen

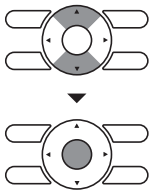
- Press Menu/Enter button.



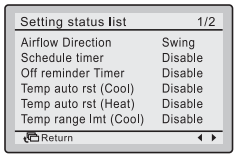
2



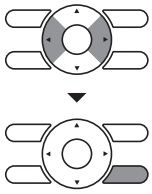
- Display the main menu screeng. (See page 7.)
- Press ▼▲ buttons to select **Setting status list** on the main menu screen and press Menu/Enter button.



3



- A list showing the current setting status will appear.
  Press ◀▶ buttons to go to the next item.
- Pressing Cancel button takes you back to the main menu screen.



Display items

Airflow direction	Temp range lmt (Cool)
Schedule timer	Quick Cool/Heat
Off reminder timer	Display changeover
Temp auto rst (Cool)	Desired disp select
Temp auto rst (Heat)	Filter auto clean

* Display items may differ depending on the model.
Only the items that can be set are displayed.
Refer to the displayed “Filter auto clean” settings for the present set condition of filter auto cleaning.

Example: A period from 00:00 to 03:00 is set for filter auto cleaning.
Filter auto clean 00-33

Dust Collection from Dust Box

Dust Collection Sign Display

Time for collecting dust from the dust box will appear when the time comes.
Promptly collect the dust when the sign is confirmed.
* The dust collection sign will appear at intervals of approximately half a year to one year.
  The intervals may become shorter if the product is used in places with excessive dust.

The dust collection sign will appear in a stepwise manner according to the quantity of dust in the dust box.

<table>
<tr><th colspan="2">Place of display</th><th>Collection sign 1</th><th>Collection sign 2</th><th>Collection sign 3</th><th>Collection sign 4</th></tr>
<tr><td rowspan="2">Remote controller</td><td>LCD</td><td colspan="3">The messages “Collect dust.” and “Press Menu Button.” will appear alternately.</td><td>“AH” (error sign) will appear</td></tr>
<tr><td>Operation lamp</td><td colspan="2">No indication</td><td colspan="2">The operation lamp will flash.</td></tr>
<tr><td colspan="2">Decorative corner cover Indicator (red)</td><td>No indication</td><td>The indicator will flash at long intervals.</td><td colspan="2">The indicator will flash at short intervals.</td></tr>
</table>

PREPARATION

- Promptly collect the dust in the dust box on completion of confirming the dust collection sign.

NOTE

- Control to suspend the air conditioning operation of the product will work if the air conditioning operation of the product is continued without dust collection.
  Furthermore, the dust will fall and a malfunction may result. Therefore, be sure to perform dust collection with a vacuum cleaner.

Dust Collection with Vacuum Cleaner

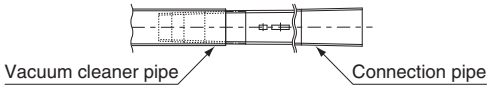
1 Vacuum the dust in the dust box on completion of confirming the dust collection sign.

NOTE

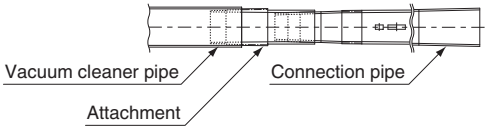
- Dust collection with a vacuum cleaner is not possible during filter auto cleaning. Make sure that “ ” is not displayed on the remote controller screen before dust collection.
  * The indicator will flash green if the indicator is set to display. (See page 4.)

2 Connect the provided connection pipe and attachment to match the vacuum cleaner pipe.
Insert the connection pipe and attachment into the vacuum cleaner pipe.

Vacuum cleaner pipe with an inner diameter of 32 to 38mm in diameter.



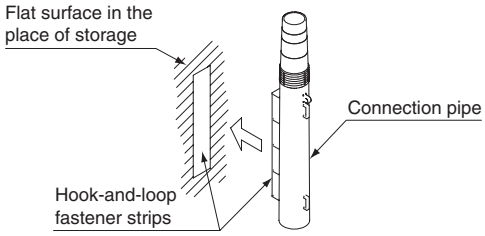
Vacuum cleaner pipe with an inner diameter of 38 to 42mm in diameter.



When storing the connection pipe, use the provided hook-and-loop fastener strip and take the following procedure.

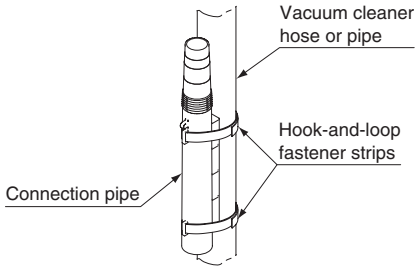
Example 1

1. Peel the release paper off the double-stick tape on the back of the fastener strip, and paste the fastener strip onto a flat surface in the place of storage.
2. Press the fastener strip of the connection pipe onto the fastener strip pasted in step 1.



Example 2

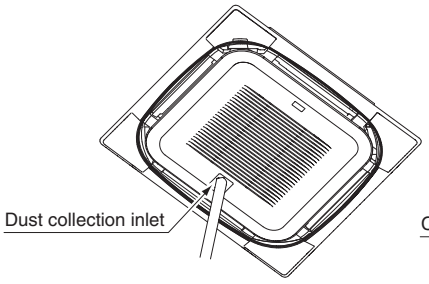
Wind the hook-and-loop fasteners on the connection pipe around a vacuum cleaner hose or pipe to store the connection pipe.

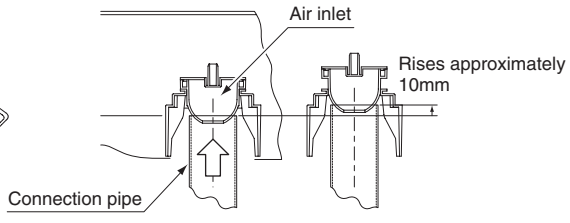


NOTE

- The attachment cannot be connected to a vacuum cleaner pipe without a round-shaped leading end (e.g., a stand-type or handheld-type vacuum cleaner) or a pipe that has a hole midway to cause air leakage. Consult your Daikin dealer if the attachment cannot be connected to your vacuum cleaner.
- Use a vacuum cleaner with a minimum sucking work rate of 300W.
- Do not use a vacuum cleaner full of dust and low in suction power.
  * The use of the above vacuum cleaner may result in a dust collection failure.

3 Insert the leading end of the connection pipe into the dust collection inlet of the suction grille from right under. Then press fit the leading end onto internal air inlet until the leading end snaps.





Internal cross section of dust collection inlet

Dust Collection from Dust Box

4 **While the leading end of the connection pipe closely come in contact, turn on the vacuum cleaner with the suction power set to maximum and vacuum the dust.**

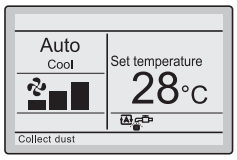
5 **If the indicator on the decorative corner cover is flashing red, the indicator will be turned off or lit green on completion of dust collection.**

* It may take a maximum of 30 seconds for the indicator flashing red to be turned off or lit green.

Resetting Dust Collection Sign

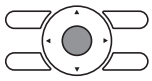
Operation Method

1

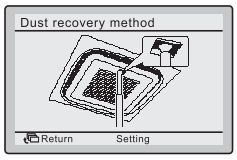


Basic screen

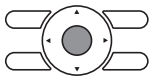
- When the time for collecting dust from the dust box comes, the dust collection messages “Collect dust.” and “Press Menu Button.” will appear alternately on the lower part of the basic screen.
- At the time of this state, press the Menu/Enter button on the basic screen.



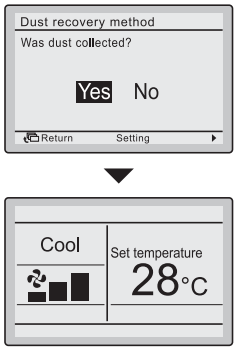
2



- An illustration of vacuuming dust from the dust collection inlet will appear. (See page 12 for dust collection with a vacuum cleaner.)
- After understanding the method of dust collection, press the Menu/Enter button at the time of this state.

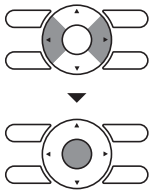


3



- After vacuuming the dust in the dust box, press ◀▶ buttons on the collection confirmation screen and select Yes.
- Press the Menu/Enter button to reset the dust collection sign.
- The messages “Collect dust.” and “Press Menu Button.” appearing alternately on the basic screen will disappear.

* If the dust in the dust box is not vacuumed at all or properly, the dust collection sign will appear soon.



Useful Information

Troubleshooting

The following symptoms are not signs of malfunctions.

Symptom		Probable cause
Slight clicking noise is generated.	The “ ” is displayed or the indicator on the panel is flashing green (*).	The driving sound of the air filter.
Scorching noise is generated.		The driving sound of the brush.
The fan automatically turns.		The product is performing filter auto cleaning and transferring dust.
The swing flap automatically moves.		The product blows out air horizontally during filter auto cleaning.
The air conditioning operation of the product stops temporarily.		The dust box is full, and filter auto cleaning is unavailable.

* The factory settings will not allow the indicator to flash green.

Check before requesting servicing.

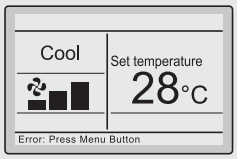
Symptom	Probable cause	Remedy
Dust sticks to the air filter (dust falls).	The room has a large quantity of dust temporarily as a result of the cleaning of the room.	Stop the operation of the air conditioner until the cleaning of the room is finished.
	The dust box is full.	Vacuum the dust. (See page 12.)
The display “AH” will appear on screen of the remote controller and the operation lamp will flash.	The dust box is full.	Vacuum the dust. (See page 12.)
The dust collection sign appears soon after the dust is vacuumed.	Is the vacuum cleaner not full with dust?	Collect the dust from the vacuum cleaner.
The product does not run according to the timer settings.	Are the settings in the remote controller wrong?	Make settings in the remote controller again.

If the product is still not in good condition after checking the above, contact your Daikin dealer. The customer must not attempt to repair the product.

Useful Information

■ Contact your Daikin dealer in the following cases

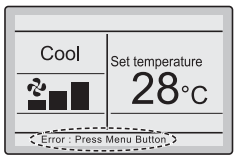
⚠ ❗	• **When the air conditioner is malfunctioning (e.g., giving off a burning odor), stop the air conditioner and turn off power.** Continued operation under such circumstances may result in failure, electric shocks, or fire. Contact your Daikin dealer.

Symptom		Measures to be taken before requesting servicing
The fuse blows out or safety devices, such as the power circuit breaker and earth leakage circuit breaker trip often.		Do not turn on the product.
The operation of the buttons on the remote controller is inaccurate.		Turn off the product.
There are other malfunctions or faults.		Stop the operation of the product.
	**Either one of the following messages flashes on the basic screen of the remote controller.** **"Error: Press Menu Button."** * The operation indicator will blink. **"Warning: Press Menu Button."** * The operation indicator will not blink.	Check the malfunction codes. (See below)

Error code Display

Operation Method

1

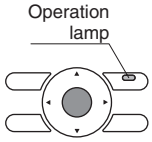


• If an error occurs, either one of the following items will blink in the basic screen.

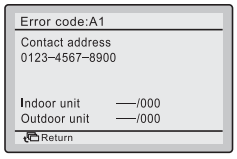
"Error: Press Menu Button."
* The operation indicator will blink.

"Warning: Press Menu Button."
* The operation indicator will not blink.

• Press Menu/Enter button.



2



• The error code blinks and the contact address and model name will appear.
• Notify your Daikin dealer of the Error code and Model name.

After-sale Service

⚠	⊘	• **Do not disassemble, modify, or repair the unit.** Doing so may result in electric shocks or fire. Contact your Daikin dealer.
	⊘	• **Do not relocate or reinstall by yourself.** Improper installation may result in electric shocks or fire. Contact your Daikin dealer.
	⊘	• **Beware of fire in case of refrigerant leakage.** If the air conditioner is not operating correctly, i.e. not generating cool or warm air, refrigerant leakage could be the cause. Contact your Daikin dealer for assistance. The refrigerant within the air conditioner is safe and normally does not leak. However, in the event of a leakage, contact with a naked burner, heater or cooker may result in generation of noxious gas. Do not longer use the air conditioner until a qualified service person confirms that the leakage has been repaired.

■ Advise the repairer of the following items

- Model name
- Date of installation
- Failure conditions: As precise as possible.
- Your address, name, and telephone number

■ Repairs after Expiration of Cost-free Guarantee Repair Period

Contact your Daikin dealer.
Daikin will conduct paid repairs if the product is repairable with its functions maintained.

■ Stock Period of Performance Spare Parts

Performance spare parts are components that are required to maintain the function of the product.
Daikin has a stock of performance spare parts for the air conditioner for nine years after the stoppage of producing the air conditioner.

■ Recommendation for Maintenance Inspection Contract

The interior of the air conditioner will become dirty with its performance degraded if the air conditioner is used for several seasons.
A specialized technique is needed for the overhauling or internal cleaning of the product apart from usual maintenance work. Therefore, Daikin recommends a paid maintenance inspection contract.

Useful Information

However, this product performs filter auto cleaning. Therefore, the customer's everyday care of the product is not necessary.
There will be an adverse influence on the product, such as the clogging of the filter, depending on the environmental and operating conditions of the product. Therefore, Daikin recommends maintenance inspections at the following inspection intervals.

■ Rough Standards for Inspection and Maintenance Frequencies

[Keep in mind that the maintenance frequencies do not indicate guaranteed operating periods of the parts.]

Table 1 applies subject to the following operating conditions.
(1) The product is under normal usage without being operated and stopped frequently at short intervals.
(The product under normal usage refers to the operating condition of the product started and stopped a maximum of six times an hour, the frequency of which varies more or less depending on the model.)
(2) The product is deemed to operate 10 hours a day and 2,500 hours a year.

• Table 1 Inspection and Maintenance Frequencies

Main part name	Inspection period	Maintenance frequency [replacement or repair]
Motor (for louver, filter, brush, and damper)	1 year	20,000 hours
Brush unit		3 year
Dust box		8 year
Flexible hose and S-shaped pipe		8 year
LED indicator		5 year
PCB		25,000 hours

Note: 1. This table shows main parts. For details, refer to the maintenance inspection contract.
2. The maintenance frequency of each part indicates a rough period required until the maintenance of the part becomes necessary. Make use of the table for appropriate maintenance designing (e.g., the budgeting of maintenance inspection cost).
Furthermore, the inspection and maintenance frequencies may be shorter than those specified in the table, depending on the content of the maintenance inspection contract.
3. The product requires regular inspection if the product is used in buildings to which the Law for Maintenance of Sanitation in Buildings applies.
4. The maintenance and replacement frequencies of each part must be shortened under tough operating conditions (e.g., longer operating hours and highly frequent ON/OF times) and operating environments (e.g., environments with high-temperature, high-humidity, excessively dusty, and oily atmospheres).

For details, contact your Daikin dealer.

■ Rough Standards for Part Replacement Frequency

[Keep in mind that the replacement frequency does not indicate the guaranteed operating period of the part.]

• Table 2. Replacement frequency

Main part name	Inspection period	Replacement frequency
Filter	1 year	5 year

Note: 1. This table shows main parts. For details, refer to the maintenance inspection contract.
2. The replacement frequency indicates a rough period required until the replacement of the part becomes necessary. Make use of the table for appropriate maintenance designing (e.g., the budgeting of part replacement cost).
3. Regular inspection is required, depending on the installation environment.

For details, contact your Daikin dealer. Furthermore, the overhauling or internal cleaning of the product conducted by repairers other than those authorized by Daikin may not be within the scope of Daikin's product guarantee term.

■ Relocation

Contact your Daikin dealer because the same requires a specialized technique in the case of relocating and reinstalling the air conditioner for some reason, e.g., the movement of the site.

■ Inquiry

Contact your Daikin dealer for after-sale services.

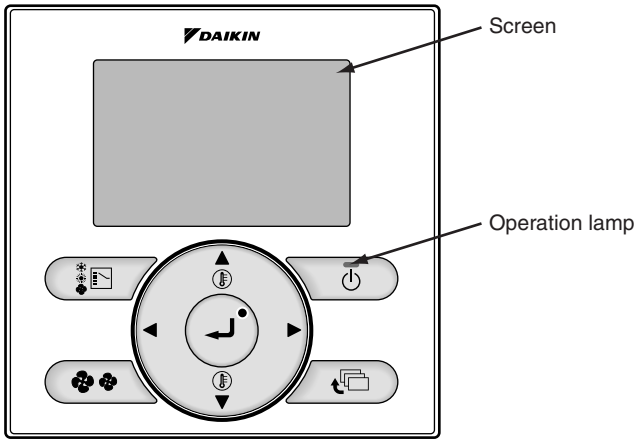
Part 7
Service Diagnosis

1. Error Code....48
1.1 Checking Error Codes....48
1.2 AH Troubleshooting....49

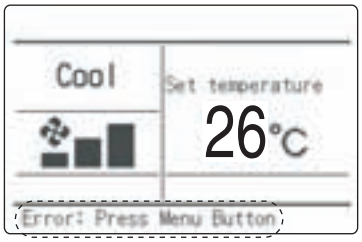
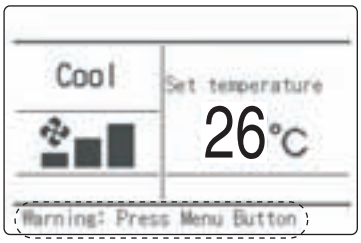
1. Error Code

1.1 Checking Error Codes

The following will be displayed on the screen when a error (or a warning) occurs during operation.
Check the error code and take the corrective action specified for the particular model.



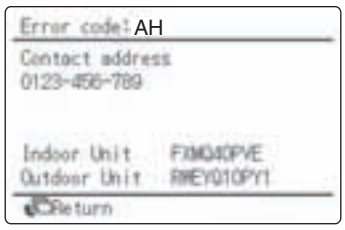
(1) Checking a error or warning

	Operation Status	Display	
Abnormal shutdown	The system stops operating.	The operation lamp (green) starts to blink. The message "Error: Press Menu button" will appear and blink at the bottom of the screen.	
Warning	The system continues its operation.	The operation lamp (green) remains on. The message "Warning: Press Menu button" will appear and blink at the bottom of the screen.	

(2) Taking corrective action

· Press the Menu/Enter button to check the error code.

· Take the corrective action specific to the model.



— Error code

├ Applicable model names

1.2 AH Troubleshooting

Remote Controller Display

AH

Applicable Models

Indoor unit
FCQ-C8VEB (SkyAir)
FXFQ-P9VEB (VRV)

Self cleaning decoration panel
BYCQ140CGW1

Method of Error Detection

Detect error with signals through the self cleaning decoration panel.

Error Decision Conditions

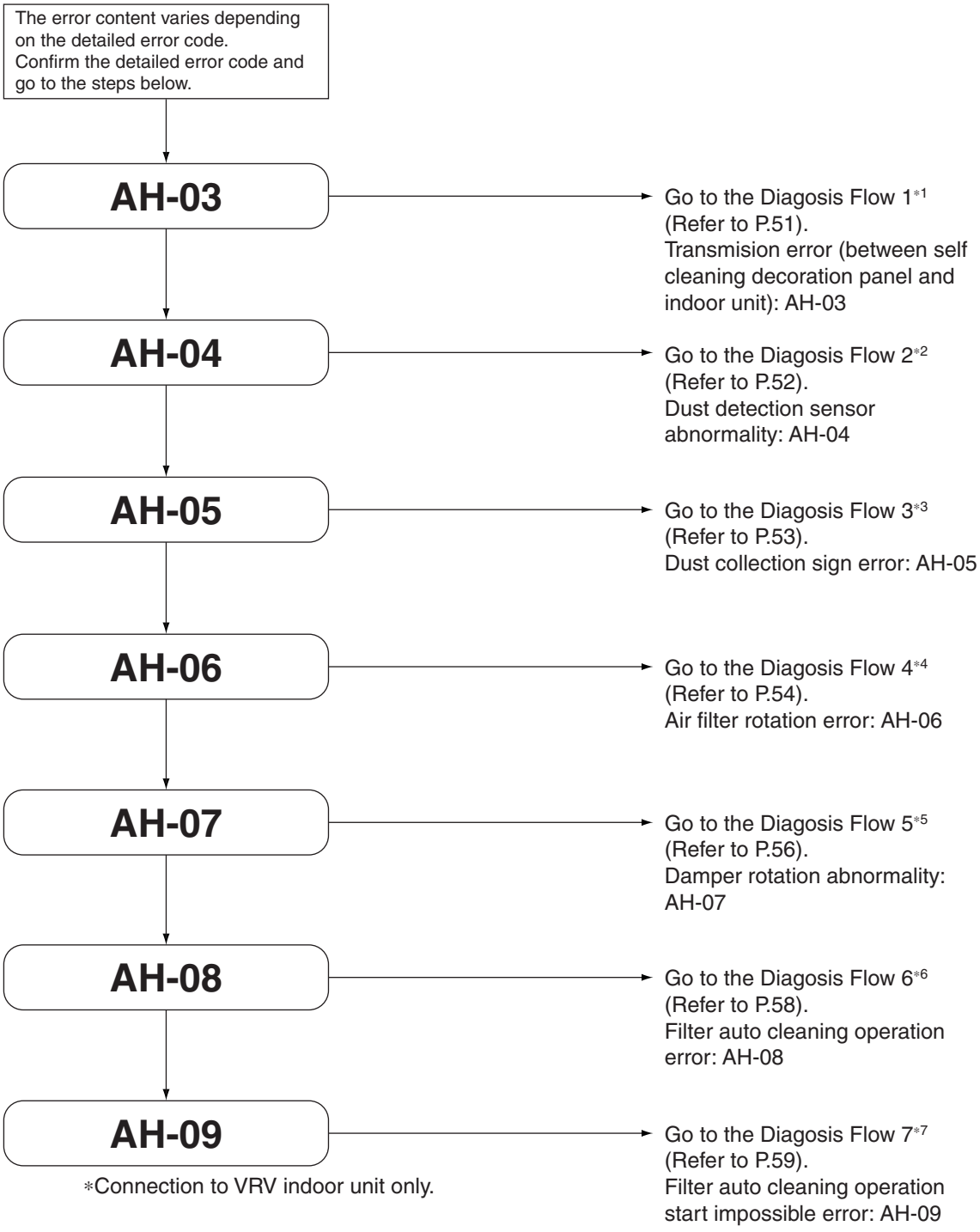
When the following condition occur during operation:
① Transmission error with self cleaning decoration panel.
② Short circuit of dust detection sensor (receiver side).
③ The cumulated time of fan operation exceeds specified times from the dust collection sign is displayed.
④ The limit switch does not detect the rotation when the air filter is rotating. The air filter does not rotate.
⑤ The limit switch does not detect open or close when the damper is opened (or closed). The damper does not function.
⑥ The filter auto cleaning operation will not complete even though the specified time has elapsed.
⑦ Filter auto cleaning operation will not start even after the specified time passed.

Supposed Causes

① Transmission error (between self cleaning decoration panel and indoor unit)
② Defective dust detection sensor
③ Dust collection sign
④ Defective air filter rotation
⑤ Defective damper rotation
⑥ Defective filter auto cleaning operation
⑦ Filter auto cleaning operation start impossible error.

Troubleshooting

Caution Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.

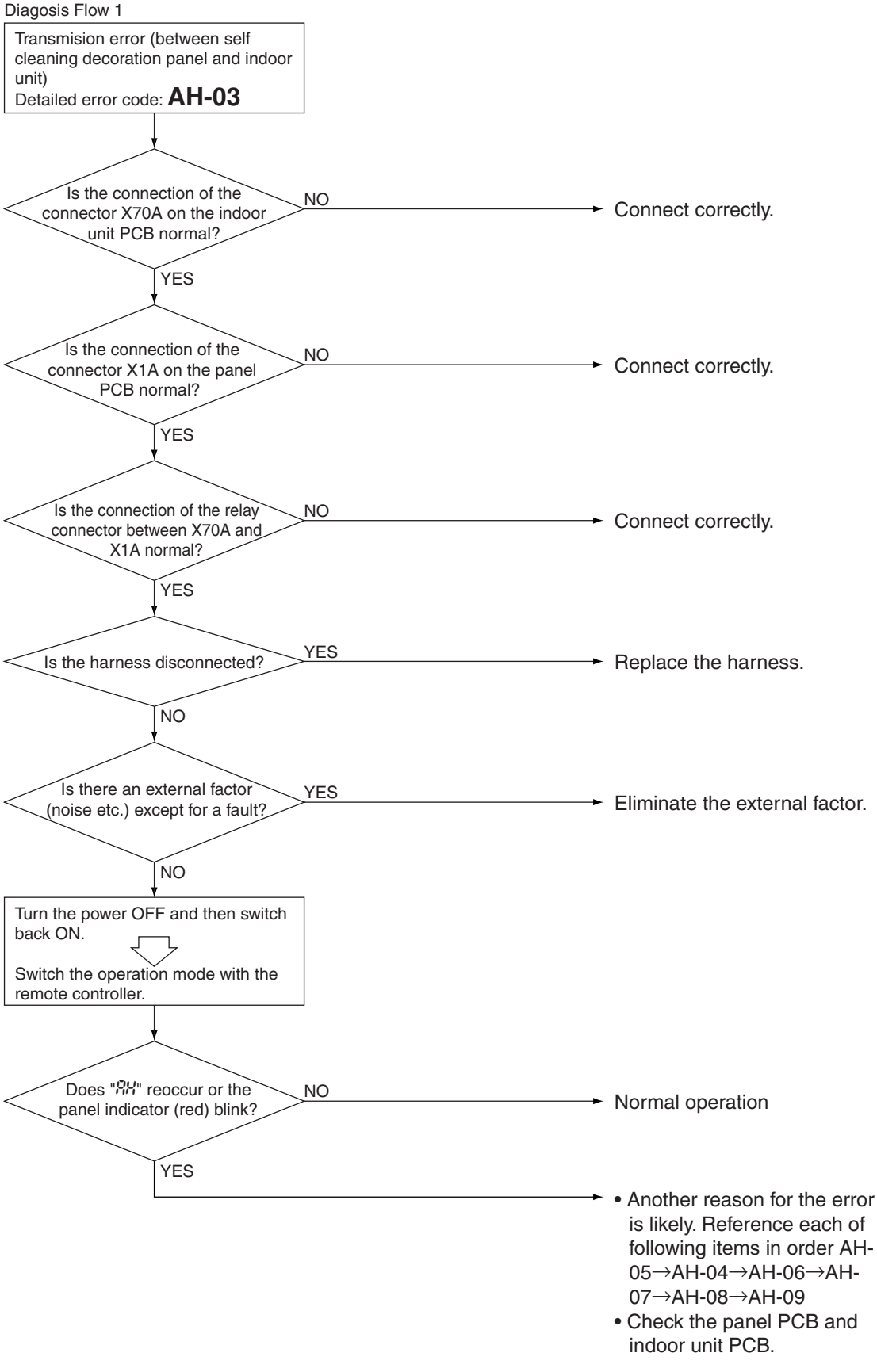


*1~*7
With the remote controller (BRC1E51), a detailed four-digit error code can be confirmed.

Troubleshooting

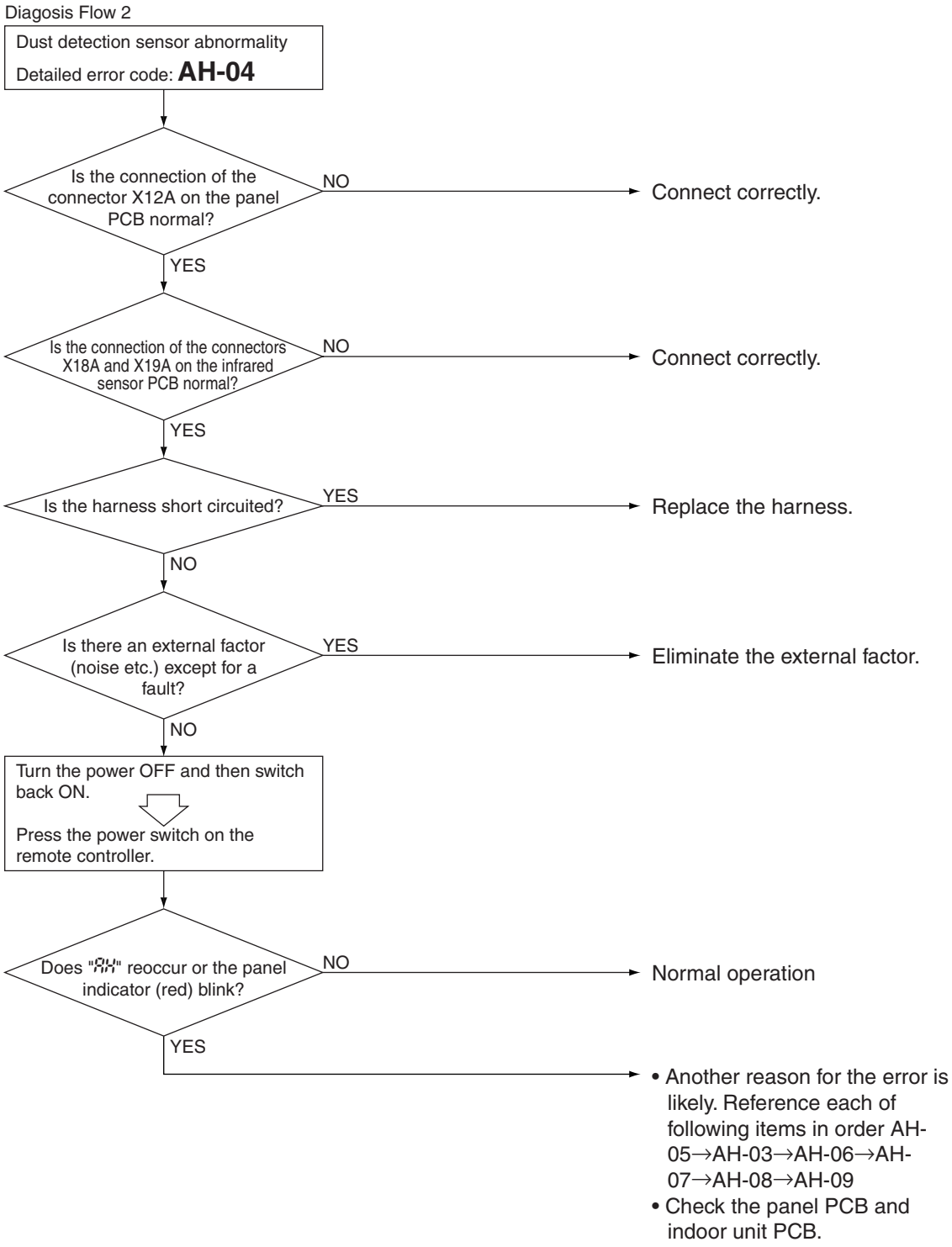
Caution Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.

Diagosis Flow 1



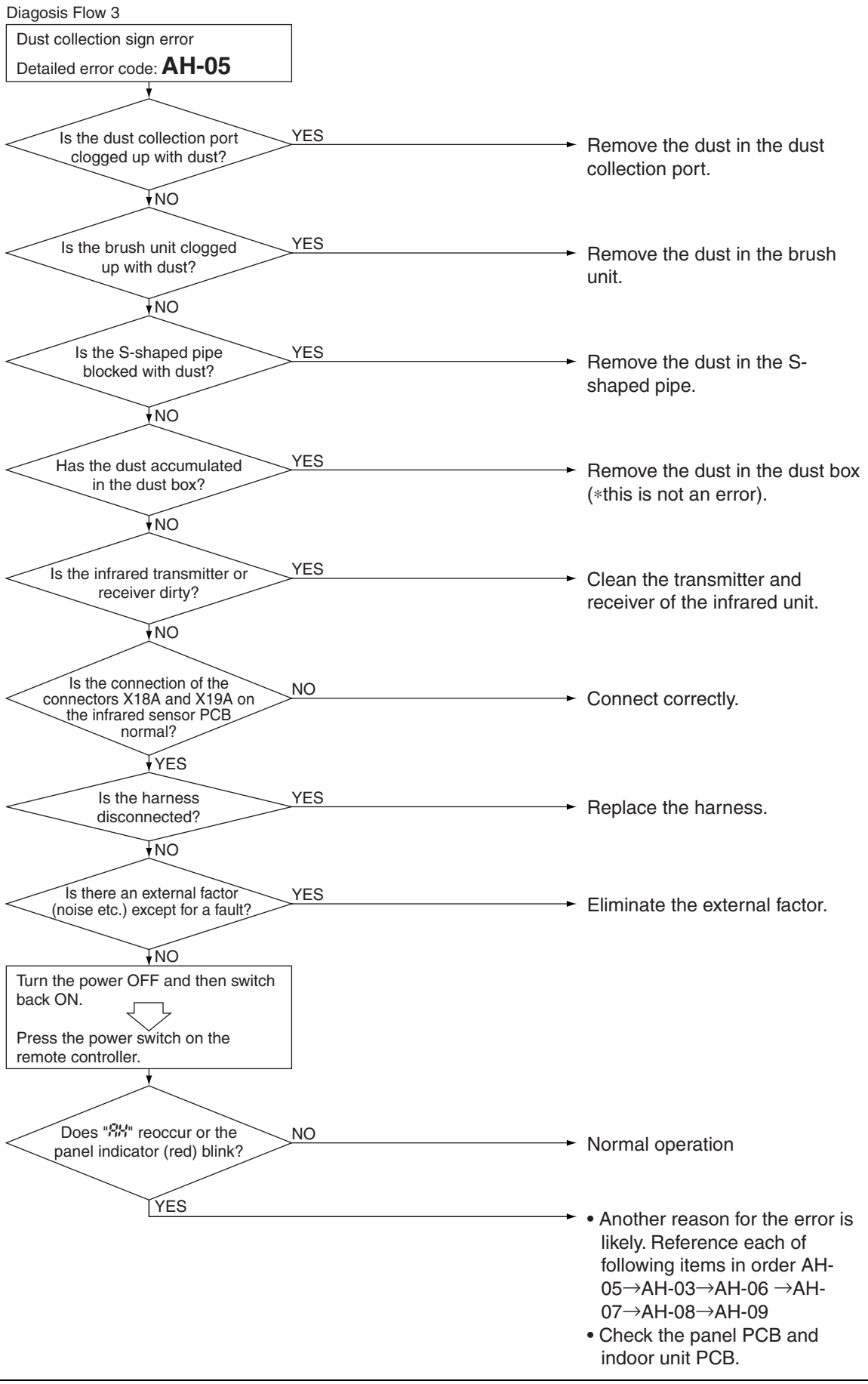
Troubleshooting

Caution Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



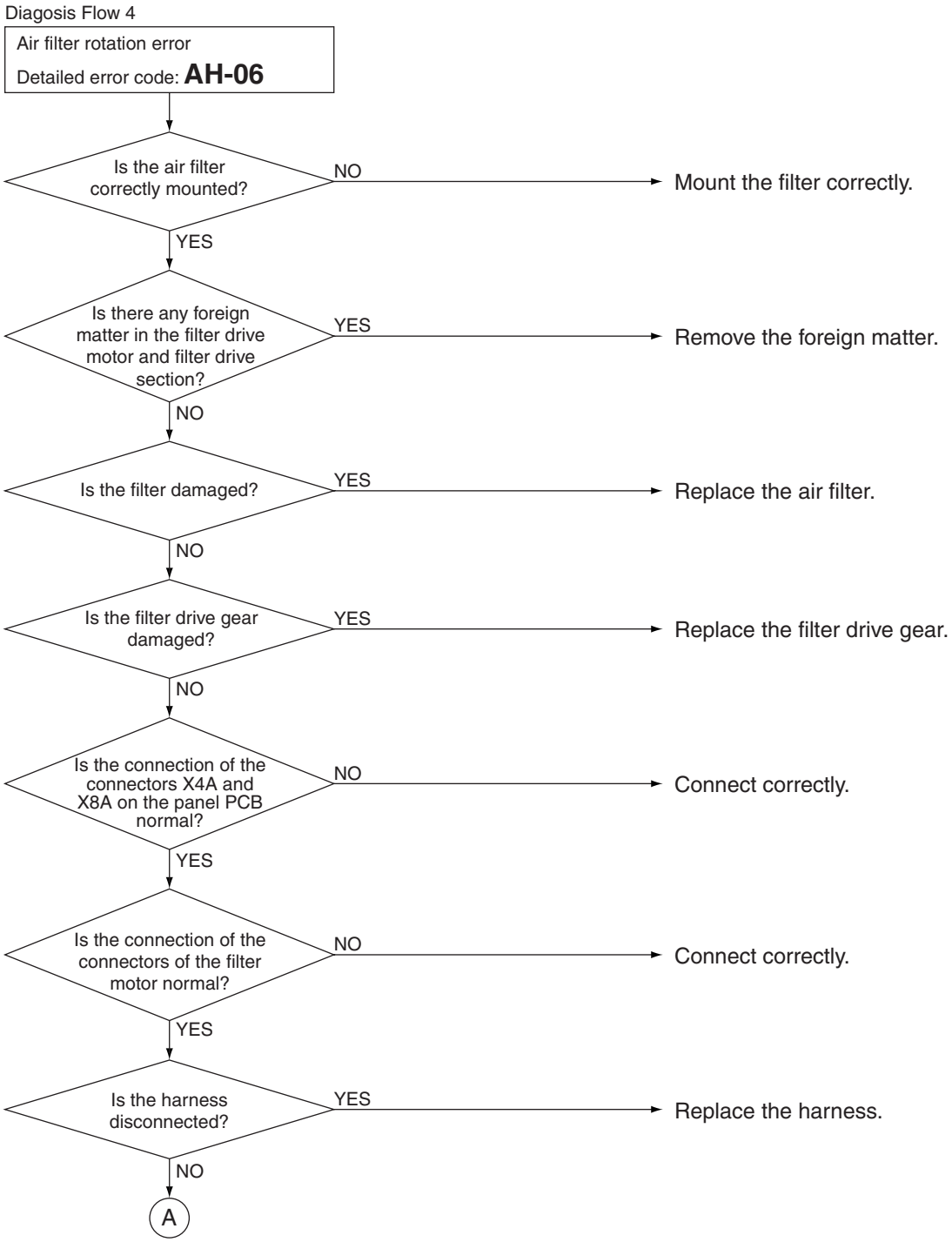
Troubleshooting

Caution Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



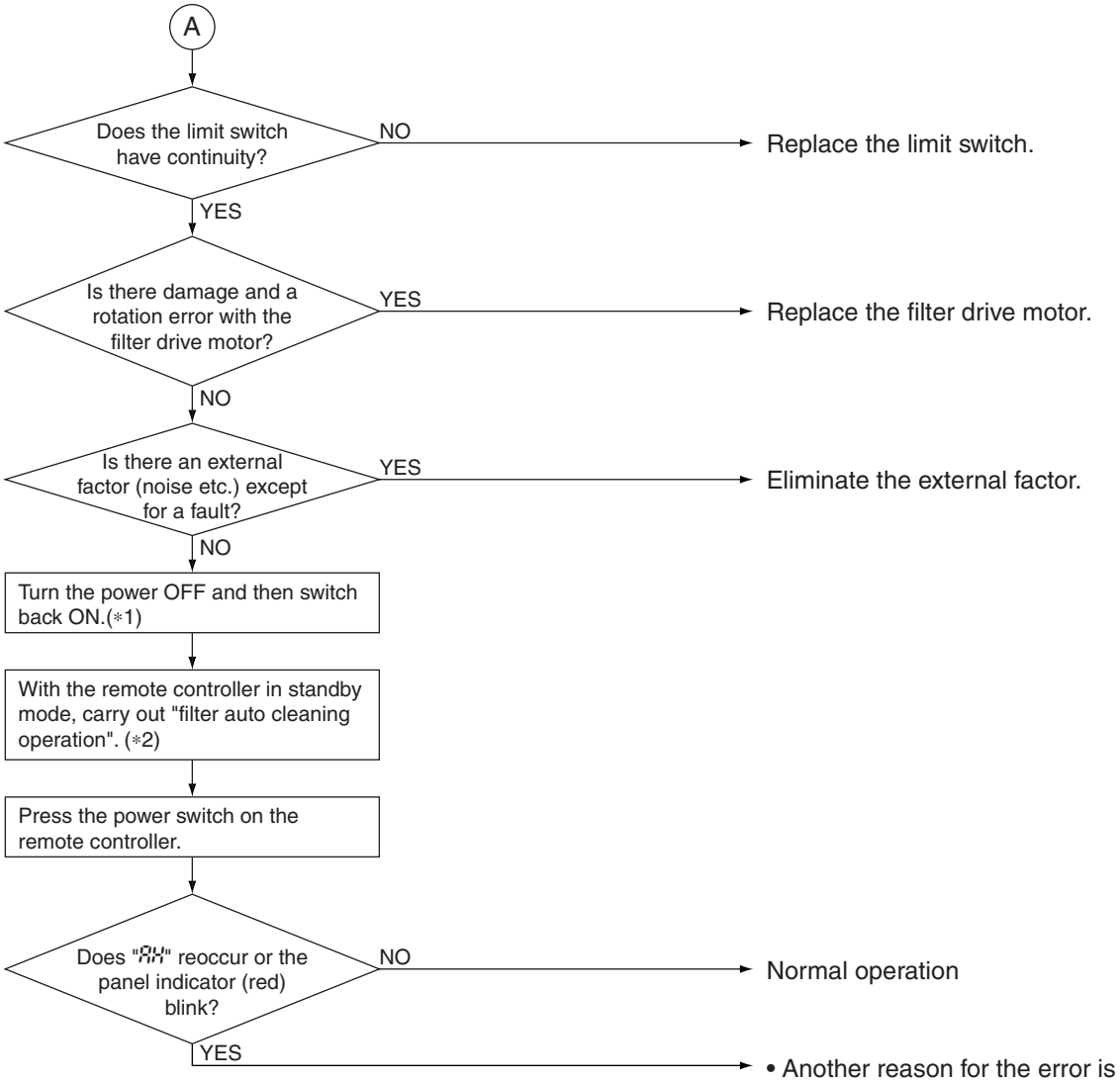
Troubleshooting

Caution Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



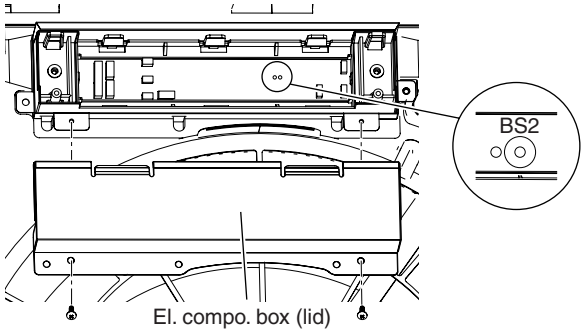
Troubleshooting

Caution Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



Note:

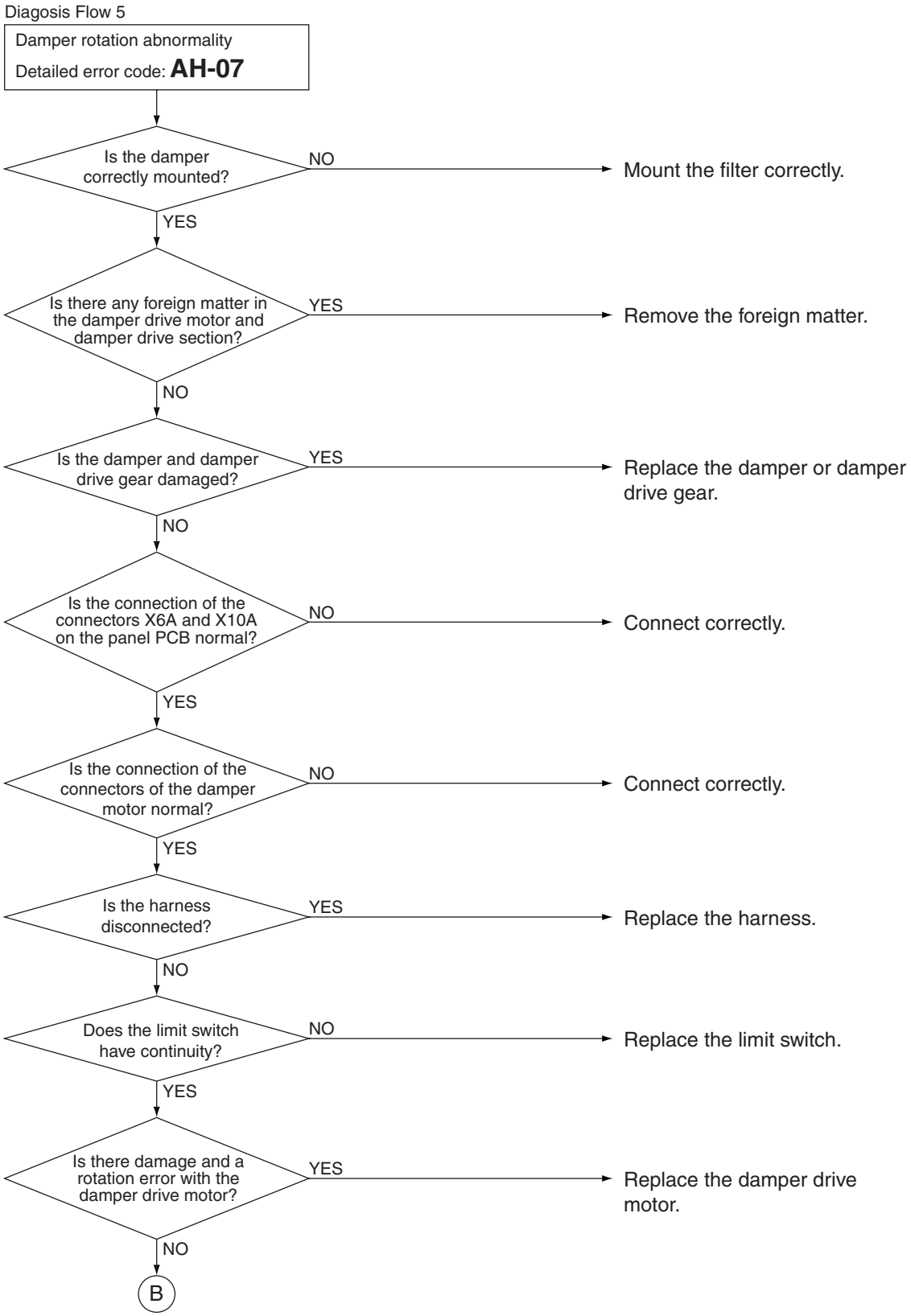
∗1 You can also carry out a temporary reset of the error code display with the push button switch (BS2) on the self cleaning decoration panel control PCB.



∗2 For direction on test operation of filter auto cleaning, refer to P.11.

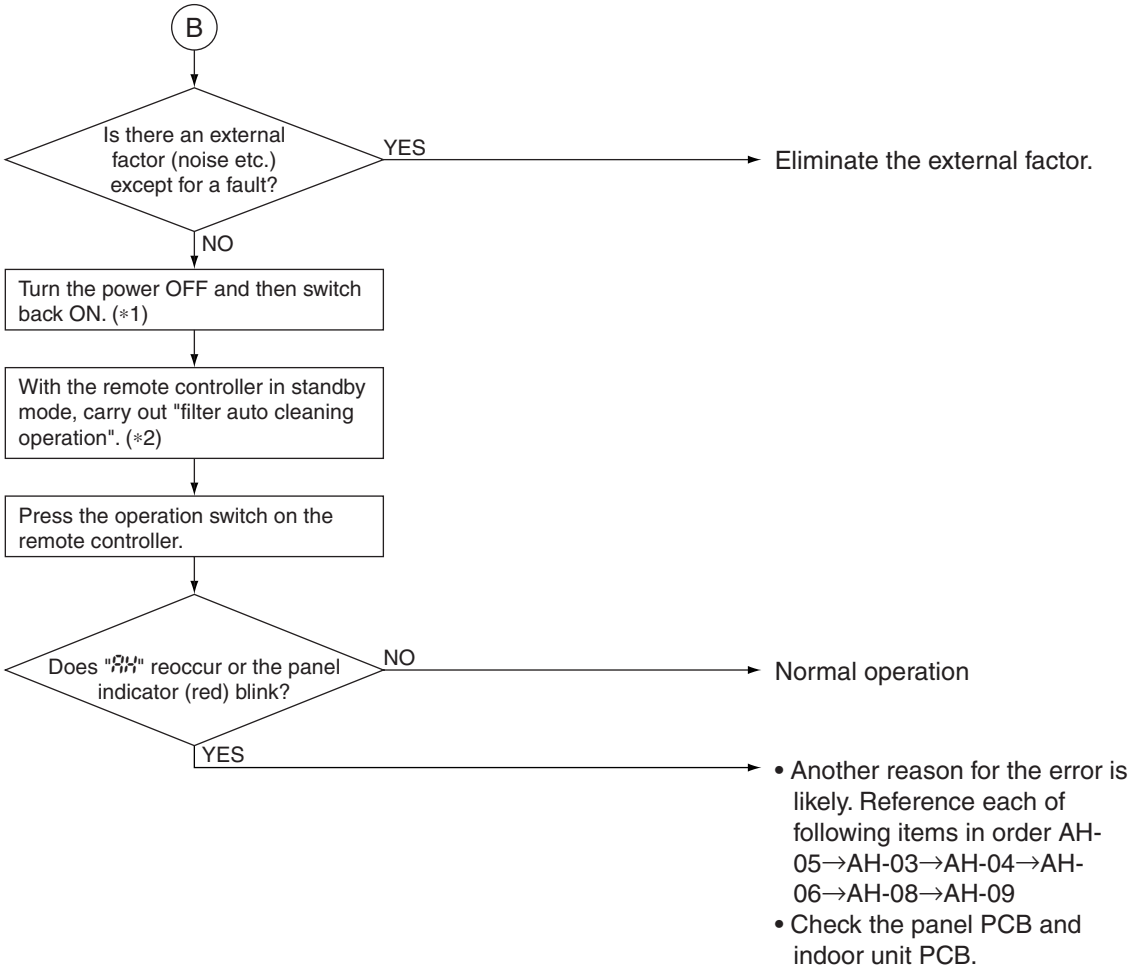
Troubleshooting

Caution Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



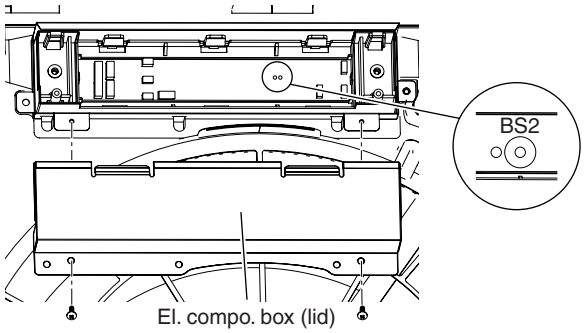
Troubleshooting

Caution Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.



Note:

∗1 You can also carry out a temporary reset of the error code display with the push button switch (BS2) on the self cleaning decoration panel control PCB.



∗2 For direction on test operation of filter auto cleaning, refer to P.11.

Troubleshooting

Caution Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.

Diagosis Flow 6

Filter auto cleaning operation error
Detailed error code: **AH-08**

Is there an external factor (noise etc.) except for a fault?
- YES → Eliminate the external factor.
- NO ↓

Turn the power OFF and then switch back ON. (∗1)

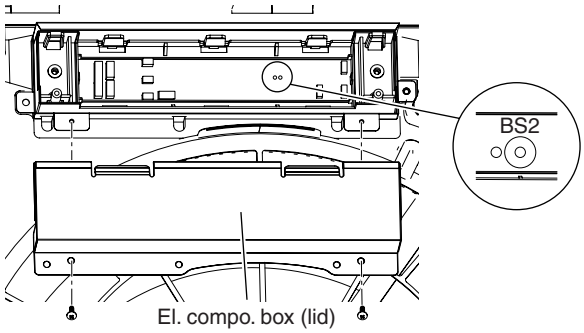
With the remote controller in stop mode, carry out "filter auto cleaning operation". (∗2)

Press the operation switch on the remote controller.

Does "88" reoccur or the panel indicator (red) blink?
- NO → Normal operation
- YES →
  - Another reason for the error is likely. Reference each of following items in order AH-05→AH-03→AH-04→AH-06→AH-07→AH-09
  - Check the panel PCB and indoor unit PCB.

Note:

∗1 You can also carry out a temporary reset of the error code display with the push button switch (BS2) on the self cleaning decoration panel control PCB.

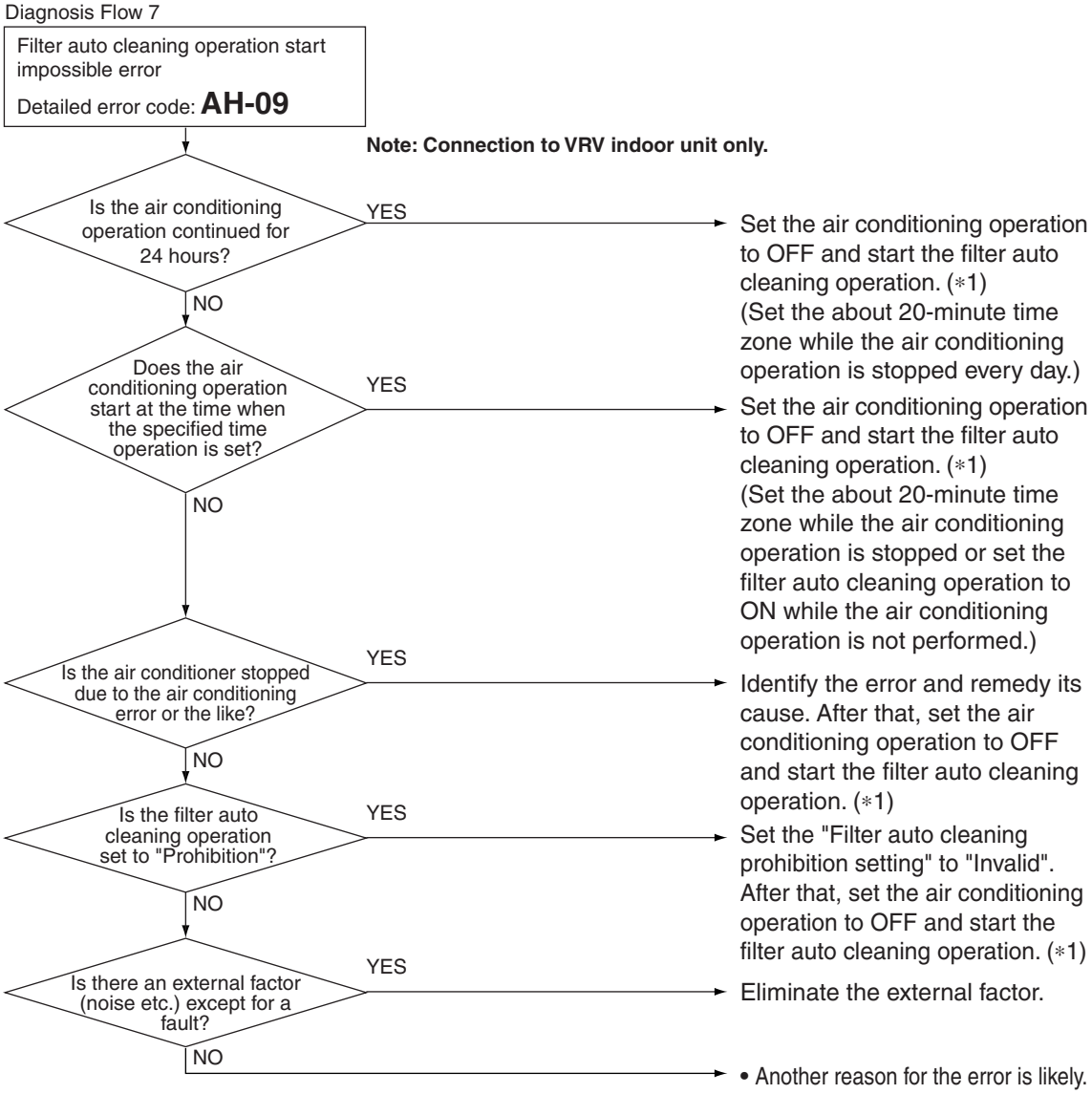


∗2 For direction on test operation of filter auto cleaning, refer to P.11.

Troubleshooting

Caution Be sure to turn off power switch before connect or disconnect connector, or parts damage may be occurred.

Diagnosis Flow 7



∗1 When the filter auto cleaning operation mode is set to "Specified time operation", start the filter auto cleaning operation according to the following procedure and clear the AH error code designation.
(If the specified time operation is not set, the filter auto cleaning operation starts automatically after the air conditioning operation stop and the operations described below are not required.)

① Select the "Main menu" ⇒ "Filter auto cleaning setting" ⇒ "Timer setting" on the remote controller and confirm the specified time. (Ex. 0:00 to 3:00)

② Select the "Main menu" ⇒ "Clock setting" on the remote controller and set the current time to 1-minute earlier than the top of the designed time confirmed in step ①.
(Ex. When the specified time is between 0:00 and 3:00, set the current time to 23:59 which is 1 minute earlier than the 0:00.)

③ The filter auto cleaning operation starts for about 1 minute later. (AH error is cleared.)

④ After making sure that the filter auto cleaning operation ends, reset the current setting that was changed in step ② to the correct time.

Part 8
Removal Procedure

1. Self Cleaning Decoration Panel — BYCQ140CGW1 61
   1.1 Removal of Suction Grille 61
   1.2 Removal of Air Filter 64
   1.3 Removal of Dust Box 65
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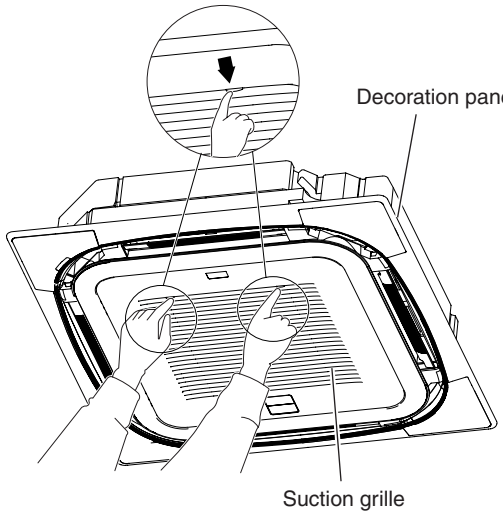
1. Self Cleaning Decoration Panel — BYCQ140CGW1

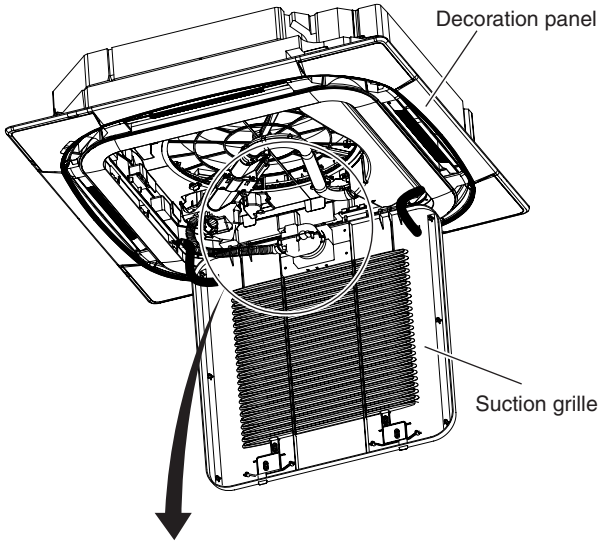
1.1 Removal of Suction Grille

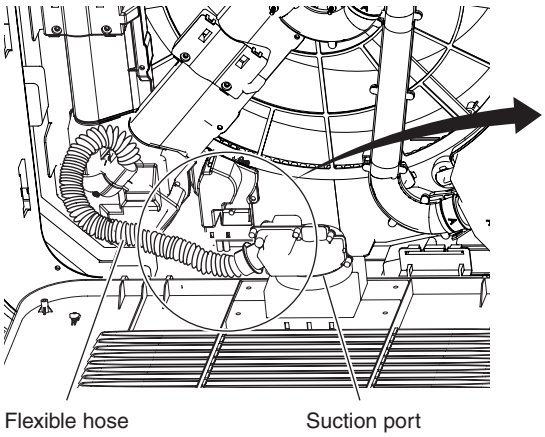
Procedure

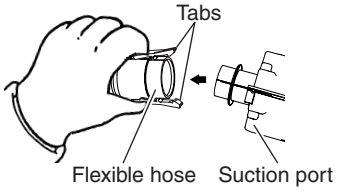
Warning **Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.**

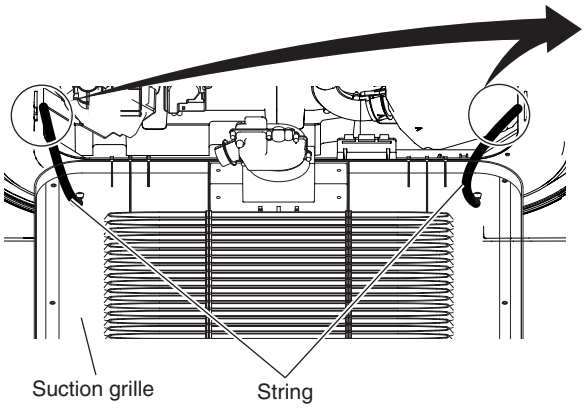
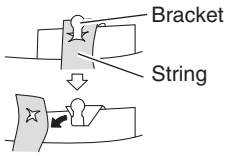
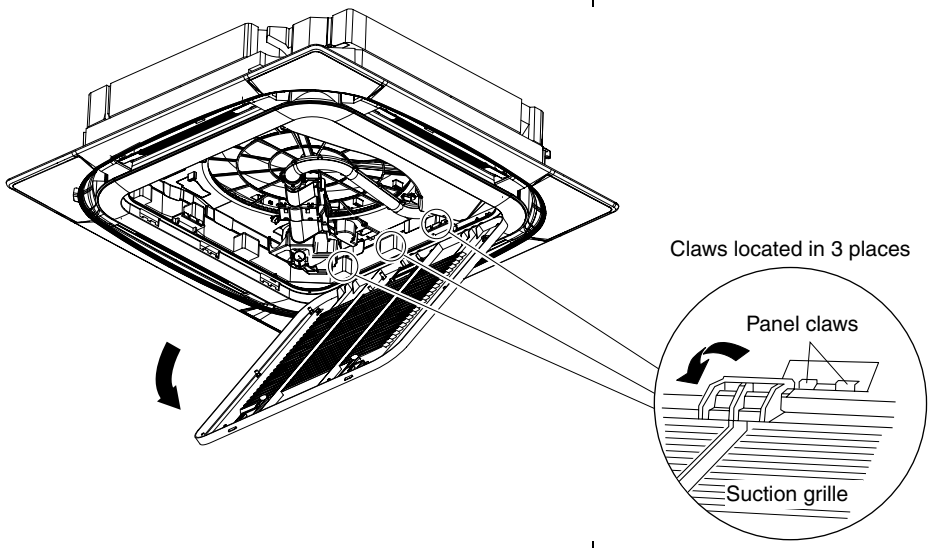
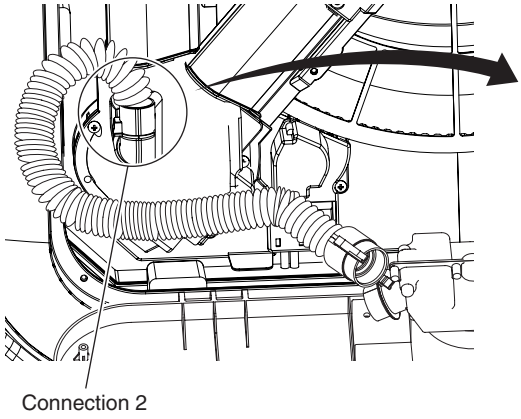
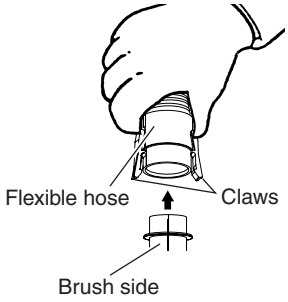
Step	Procedure	Points
1. Removing the Suction Grille.		
1	Push the two hooks simultaneously and pull down the suction grille slowly.	
2	Disconnect the flexible hose connection 1 by pressing the claws on the hose.	■ Flexible hose connection 1 **<Precautions when installing>** Check that the claws are secured in place. Be careful not to collapse the flexible hose when inserting it into the panel.

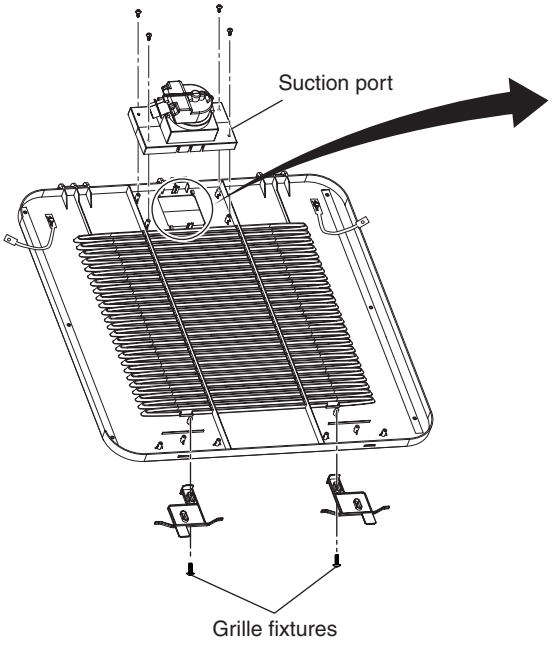
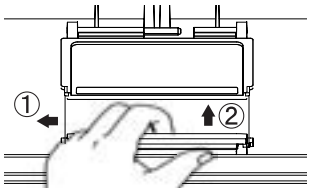
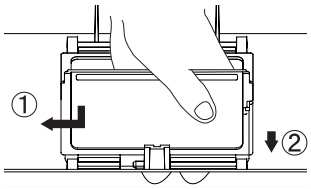
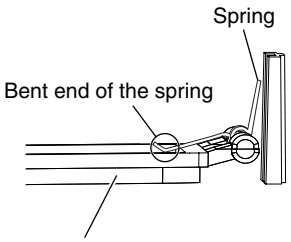








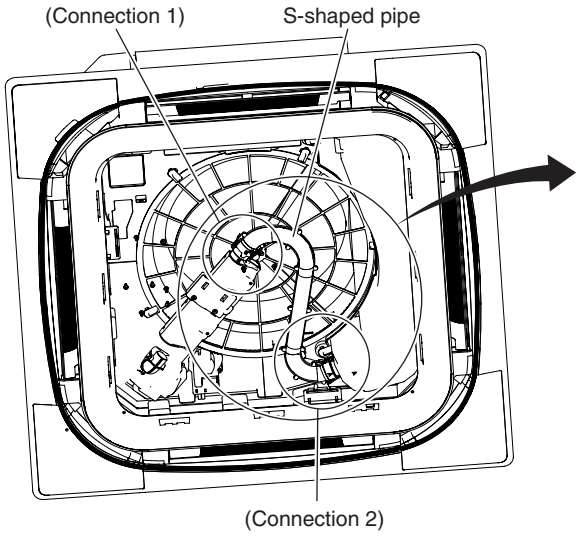
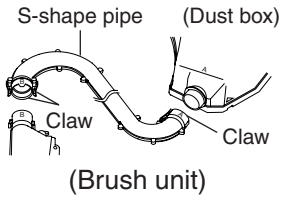
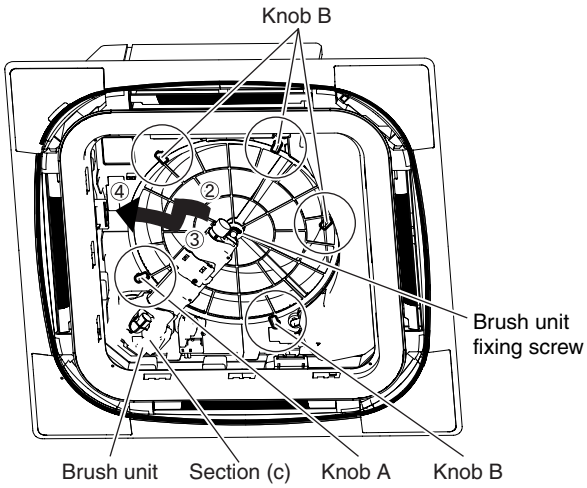
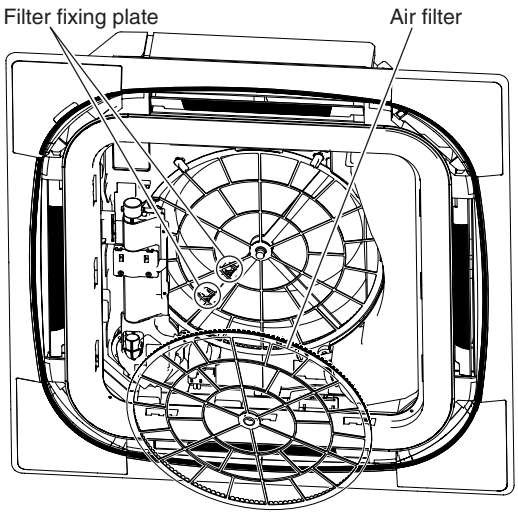
Step	Procedure		Points
3	Disengage the two strings located at the top of the suction grille from the panel.		■ Latching section  **<Precautions when installing>** The bracket should not be protruded. Otherwise it may contact the flexible hose and damage the hose.
4	Open the suction grille to an angle of 45°, and then hold it up to unlatch the claws located in three places.		■ When cleaning the suction grille, wash it with water or water with mild detergent using the brush. (Never use hot water over 50°C.) **<Precautions when installing>** The suction grille may be broken if attempted to latch on the wrong side.
5	Disconnect the flexible hose connection 2 by pressing the claws on the hose.		■ Flexible hose connection 2 

Step	Procedure	Points
2. Removing the Parts on the Suction Grille.		**<How to remove the suction port cover>** As shown below, detach the right end projection using your thumb while pressing the cover leftward.  **<How to install the suction port cover>** As shown below, attach the right end projection using your thumb while pressing the cover leftward.  **Installation detail**  Mind the direction of the spring!
1 Remove the 4 screws of the suction port.		
2 Remove the suction port cover.		
3 Remove the 2 screws (1 each) of the grille fixtures.		

1.2 Removal of Air Filter

Procedure

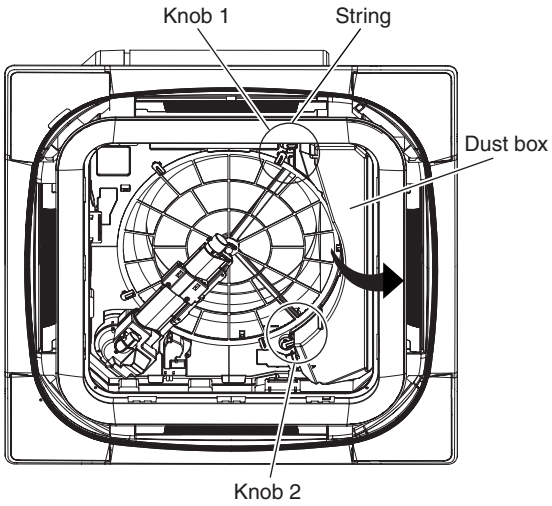
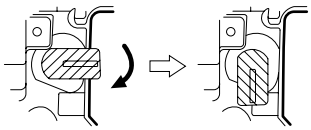
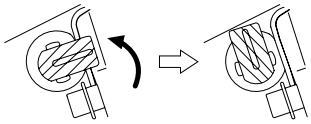
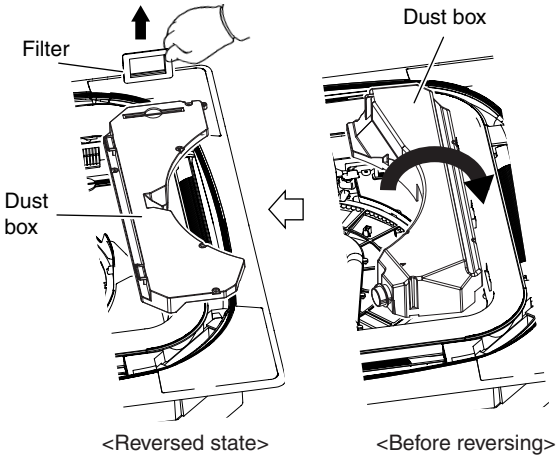
Warning **Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.**

Step	Procedure	Points
■ Removing the suction grille according to the procedure for removing the suction grille.		**<Installation detail>**  (Brush unit) **<Precautions when installing>** Check that the claws are secured in place.
1. Removing the S-shaped Pipe.		
1 Pull to disconnect the S-shaped pipe connection 1 while pressing the claws. 2 Pull to disconnect the S-shaped pipe connection 2 while pressing the claws.		
2. Removing the Air Filter.		**<Precautions when installing>** Be sure to press the (c) section of the brush unit upward (toward the filter) when turning its top end.
1 Turn the knob A near the brush unit to unlock. 2 Loosen the brush unit fixing screw in the center. While pressing the (c) section of the brush unit upward (toward the filter), turn the top end of the brush unit in the arrowed direction until it stops. 3 Pull down the brush unit lightly (toward opposite of the filter). (Approx. 20mm of clearance will be produced between the air filter and the brush unit.) 4 Turn the brush unit further in the arrowed direction. 5 Remove the remaining hook B fixing the air filter (4 locations). 6 Remove the air filter.		**<Precautions when removing and installing the air filter>** Be careful not to damage the filter by the filter fixing plate. To clean the air filter, wash it with water.

1.3 Removal of Dust Box

Procedure

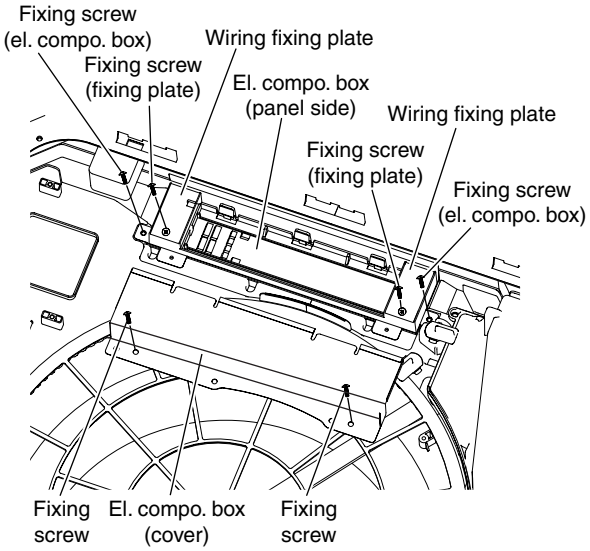
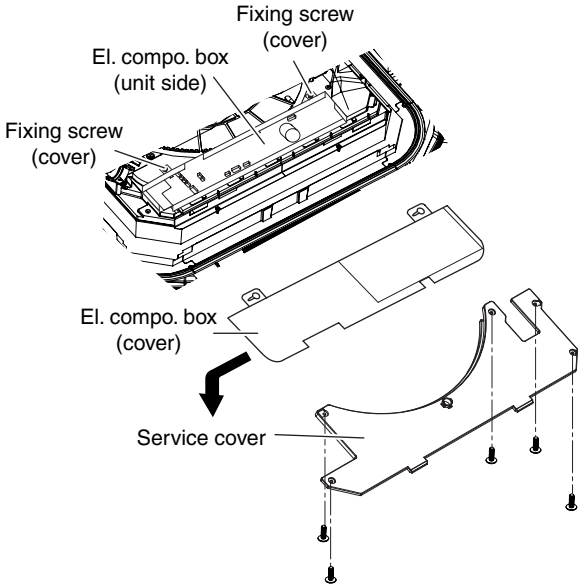
Warning **Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.**

Step	Procedure	Points
■ Removing the suction grille according to the procedure for removing the suction grille. ■ Removing the S-shaped pipe according to the procedure for removing the air filter.		
1. Removing the Dust Box.		
1 Turn the knobs 1 and 2 fixing the dust box to unlock. 2 Take out the dust box downward (toward opposite of the filter) while inclining the inner side downward. 3 Detach the string.		Knob 1  Knob 2  **<Precautions when removing and installing the dust box>** Be careful not to drop the dust box.
2. Removing the Filter.		
1 Reverse the dust box before taking out the filter.		**<Precautions when installing>** ■ Be careful not to let the string caught in the dust box exhaust port.

1.4 Removal of El. Compo. Box

Procedure

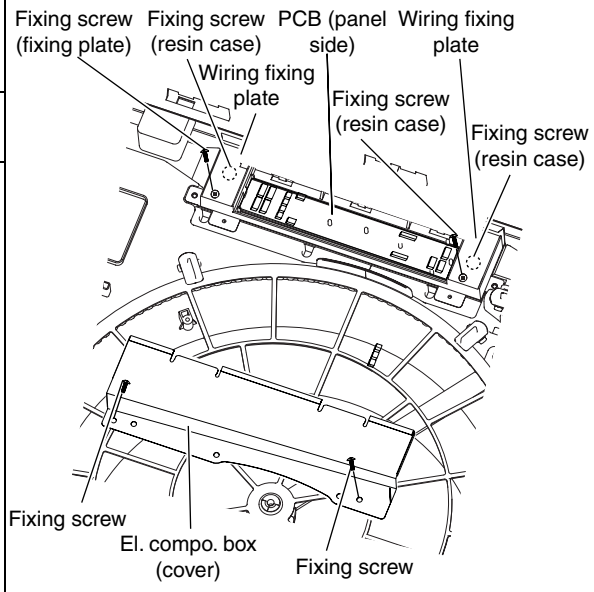
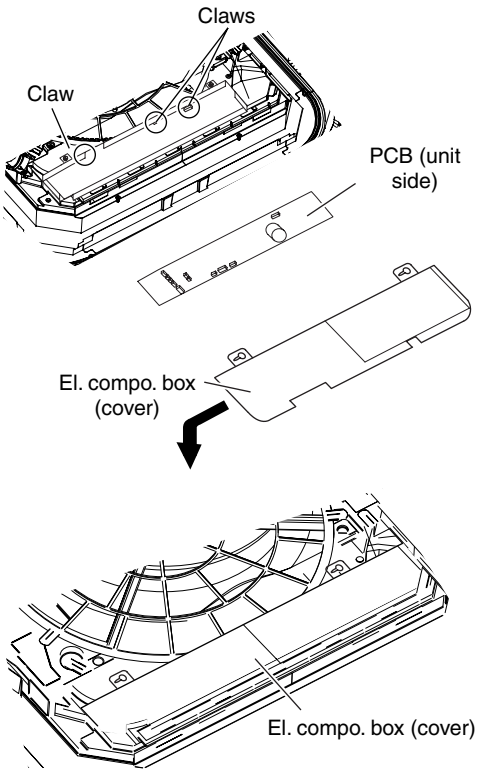
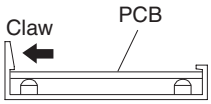
Warning **Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.**

Step	Procedure	Points
■ Remove the suction grille according to the procedure for removing the suction grille.		
1. Removing the Panel Side El. Compo. Box.		
1 Remove the 2 screws of the el. compo. box (cover).		
2 Remove the 2 screws (1 each) of the wiring fixing plates.		
3 Disconnect all the connectors on the PCB.		
4 Remove the 2 screws of the el. compo. box.		
2. Removing the Unit Side El. Compo. Box.		
■ Removing the air filter according to the procedure for its removing the air filter. ■ Removing the dust box according to the procedure for removing the dust box.		
1 Remove the 5 screws of the service cover.		
2 Loosen the 2 screws of the el. compo. box (cover) and slide to remove it.		
3 Disconnect all the connectors on the PCB.		
4 Remove the 2 screws of the el. compo. box.		

1.5 Removal of PCB

Procedure

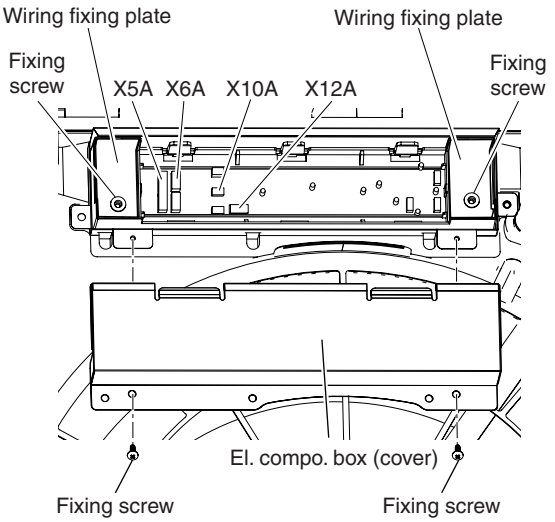
Warning **Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.**

Step	Procedure	Points
■ Removing the suction grille according to the procedure for removing the suction grille.		
1. Removing the Panel Side PCB.		
1 Remove the 2 screws of the el. compo. box (cover).		
2 Remove the 2 screws (1 each) of the wiring fixing plates.		
3 Disconnect all the connectors on the PCB.		
4 Remove the 2 screws of the PCB (with resin case) and take it out.		
2. Removing the Unit Side PCB.		■ Section view of installed PCB 
■ Removing the air filter according to the procedure for removing the air filter. ■ Removing the dust box according to the procedure for removing the dust box.		
1 Loosen the 2 screws of the el. compo. box (cover) and slide to remove it.		
2 Disconnect all the connectors on the PCB.		
3 Disengage the 3 claws of the PCB to remove it.		

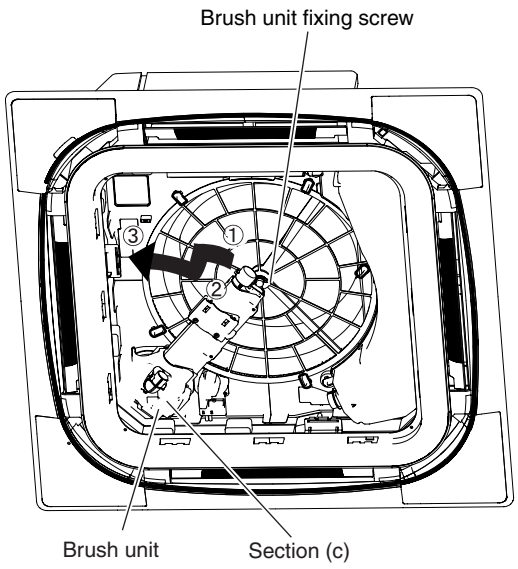
1.6 Removal of Brush Unit

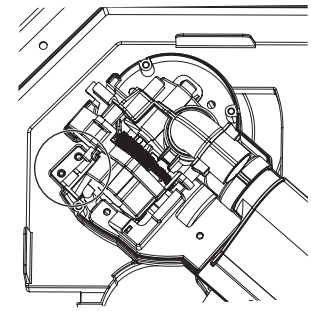
Procedure

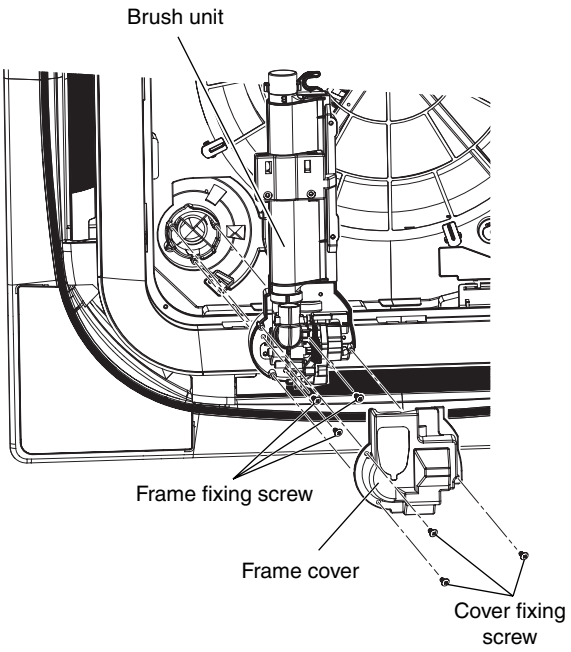
Warning **Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.**

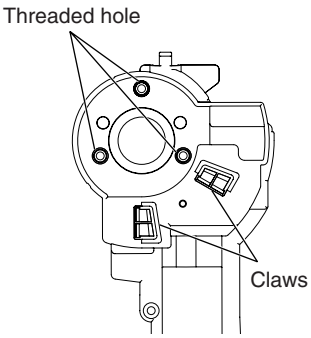
Step	Procedure	Points
■ Removing the suction grille according to the procedure for its removing the suction grille. ■ Removing the S-shaped pipe according to the procedure for removing the air filter.		
1. Removing the Brush Unit Connection Wiring.		
1 Remove the 2 screws of the el. compo. box (cover). 2 Remove the 2 screws (1 each) of the wiring fixing plates. 3 Disconnect the following connectors on the PCB. • X5A: Connector for brush drive motor • X6A: Connector for damper drive motor • X10A: Connector for damper limit switch • X12A: Connector for dust detection sensor		

Step	Procedure	Points
2. Removing the Brush Unit.		
1	Loosen the brush unit fixing screw in the center. While pressing the (c) section of the brush unit upward (toward the filter), turn the top end of the brush unit in the arrowed direction until it stops.	**<Precautions when installing>** Be sure to press the (c) section of the brush unit upward (toward the filter) when turning its top end.
2	Pull down the brush unit lightly (toward opposite of the filter). (Approx. 20mm of clearance will be produced between the air filter and the brush unit.)	**<Tips on removal>**
3	Turn the brush unit further in the arrowed direction.	As shown above, turn the brush unit until the claw is disengaged and then pull downward.
4	Remove the 3 screws of the frame cover.	**<Precautions when installing the brush unit>**
5	Remove the 3 screws of the brush unit. Loosen the brush unit fixing screw in the center of the brush unit and remove the frame while sliding its top end.	Align the threaded holes with the panel and insert the claws in the holes on the panel.





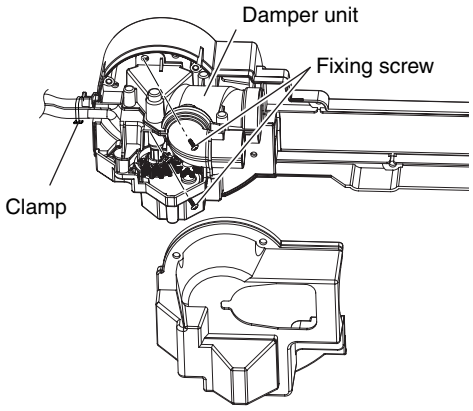
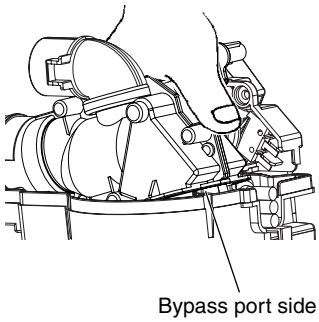
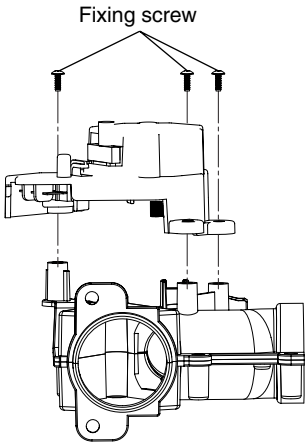
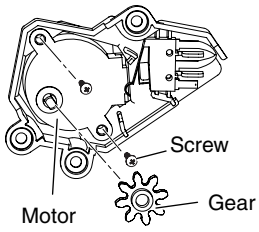
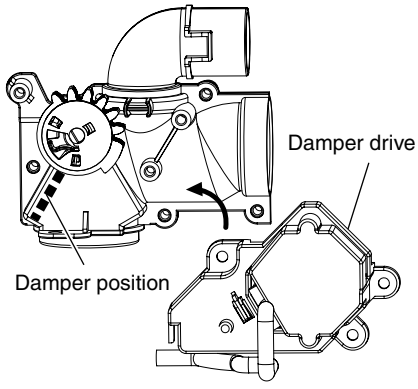




1.7 Removal of Damper Drive Motor

Procedure

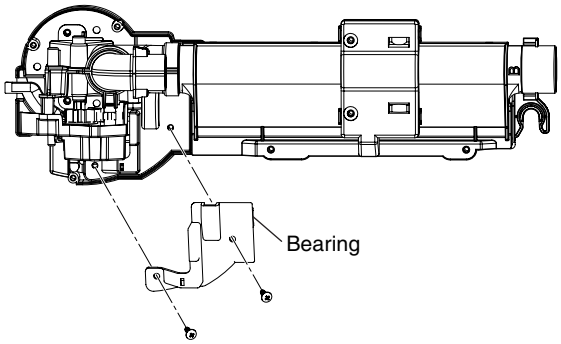
Warning **Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.**

Step	Procedure	Points
■ Removing the brush unit according to the procedure for removing the brush unit.		
1. Removing the Damper Unit.		
1 Cut the clamp for the lead wire at one point. 2 Remove the 2 fixing screws of the damper unit.		**<Tips on removal>**  Hold the damper unit like the way shown above. First remove the unit on its bypass port side and lift the unit using your thumb.
2. Removing the Damper Drive Motor and Gear.		
1 Remove the 2 screws of the damper drive motor. 2 Pull out the gear from the motor shaft.	  **Damper drive motor**	
	<Precautions when installing the damper drive motor> 	■ Install the damper drive motor with the damper positioned as shown in the left.

1.8 Removal of Bearing (for Brush)

Procedure

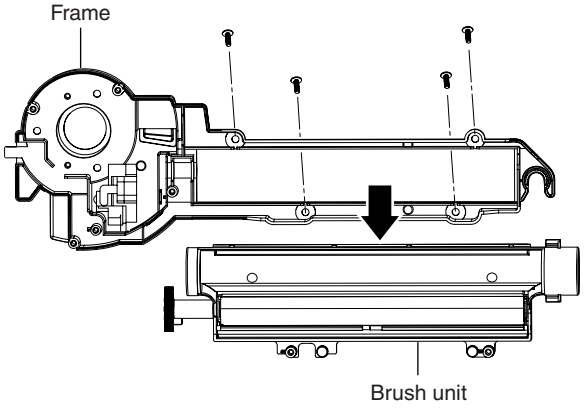
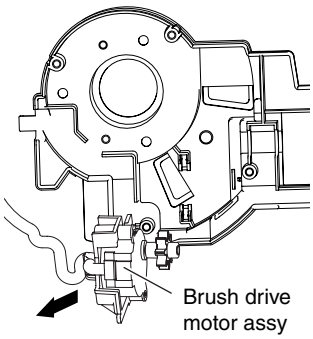
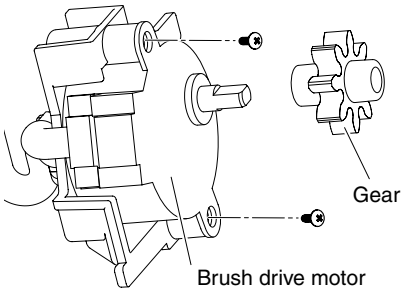
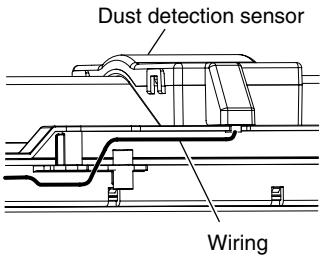
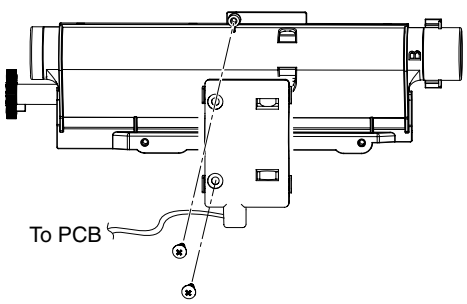
Warning **Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.**

Step	Procedure	Points
■ Removing the brush unit according to the procedure for removing the brush unit.		
1. Removing the Bearing.		
1 Remove the 2 screws of the bearing.		

1.9 Removal of Brush Unit, Brush Drive Motor and Dust Detection Sensor

Procedure

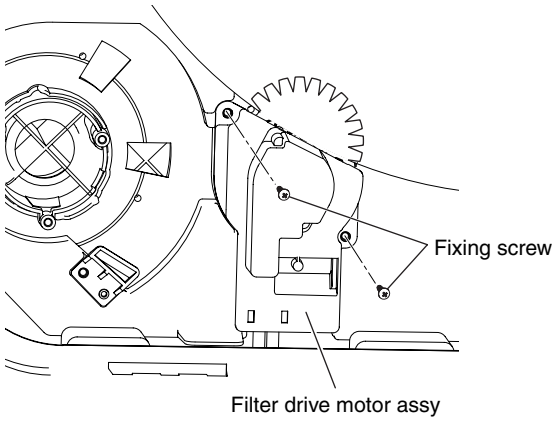
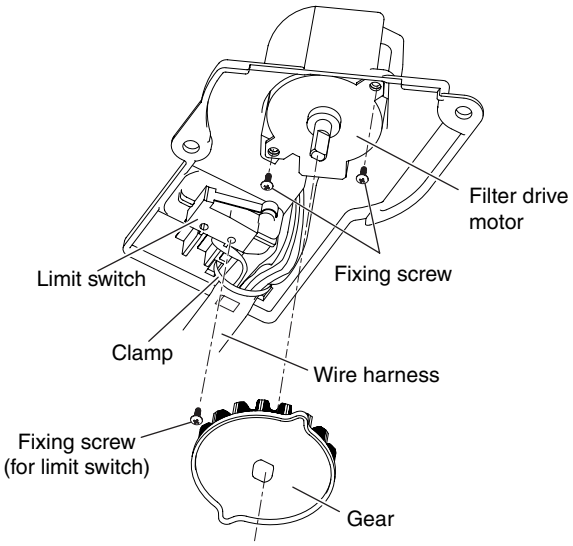
Warning **Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.**

Step	Procedure	Points
■ Removing the brush unit according to the procedure for removing the brush unit. ■ Removing the bearing (for brush) according to the procedure for removing the bearing.		
1. Removing the Brush Unit.		
1 Remove the 4 screws of the brush unit.		
2. Removing the Brush Drive Motor Assy.		
1 Take out the brush drive motor assy from the frame.		
3. Removing the Brush Drive Motor and Gear.		**<Precautions when installing the dust detection sensor>**  Mind the wiring layout.
1 Pull out the gear from the motor shaft.		
2 Remove the 2 screws of the brush drive motor.		
4. Removing the Dust Detection Sensor.		
1 Remove the 2 screws of the dust detection sensor.		

1.10 Removal of Filter Drive Motor

Procedure

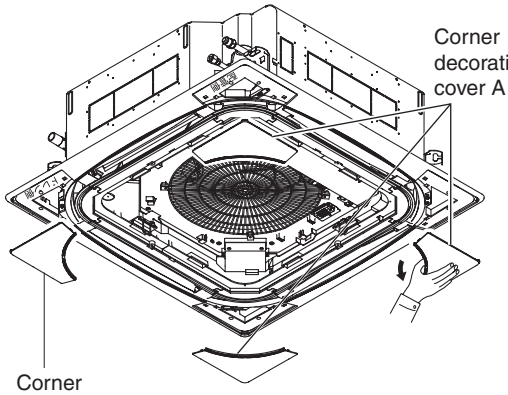
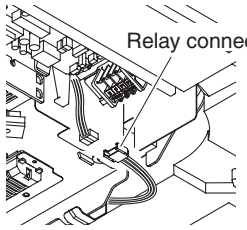
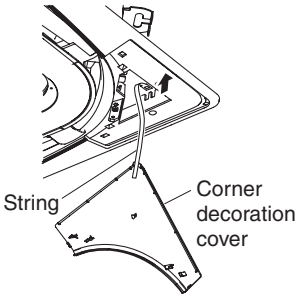
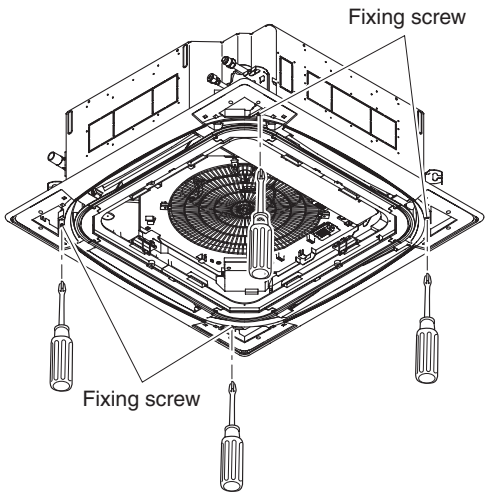
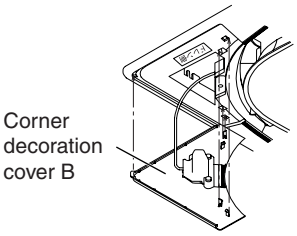
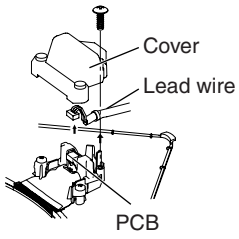
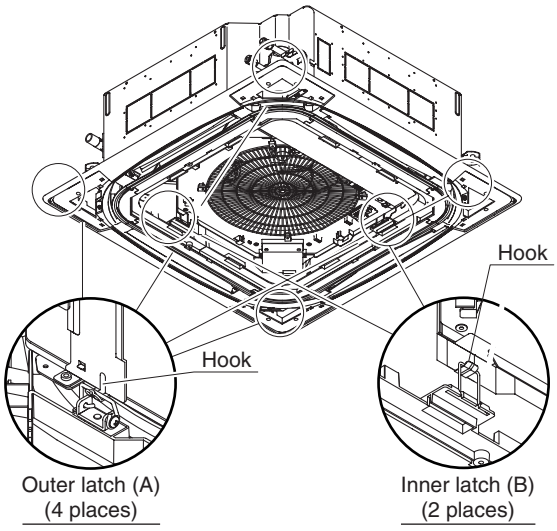
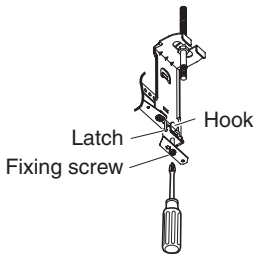
Warning **Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.**

Step	Procedure	Points
■ Removing the air filter according to the procedure for removing the air filter.		
1. Removing the Filter Drive Motor Assy.		
1 Remove the 2 screws of the filter drive motor assy.		
2 Pull out the gear (for air filter) from the motor shaft.		
3 Remove the wire harness by cutting the clamp at one point.		
4 Remove the 1 screw of the limit switch.		
5 Remove the 2 screws of the filter drive motor.		

1.11 Removal of Decoration Panel

Procedure

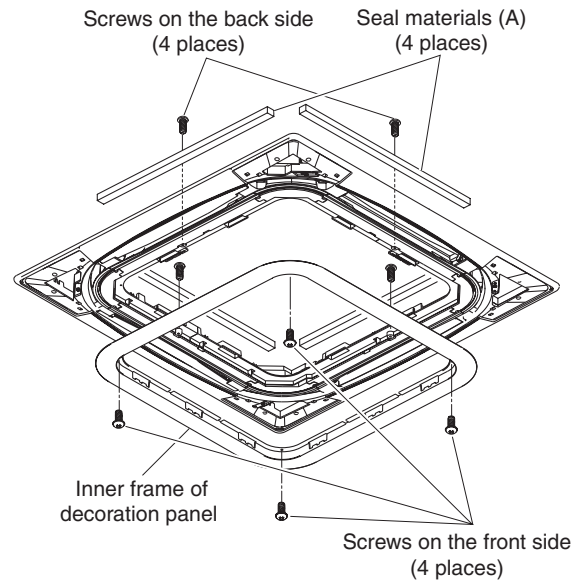
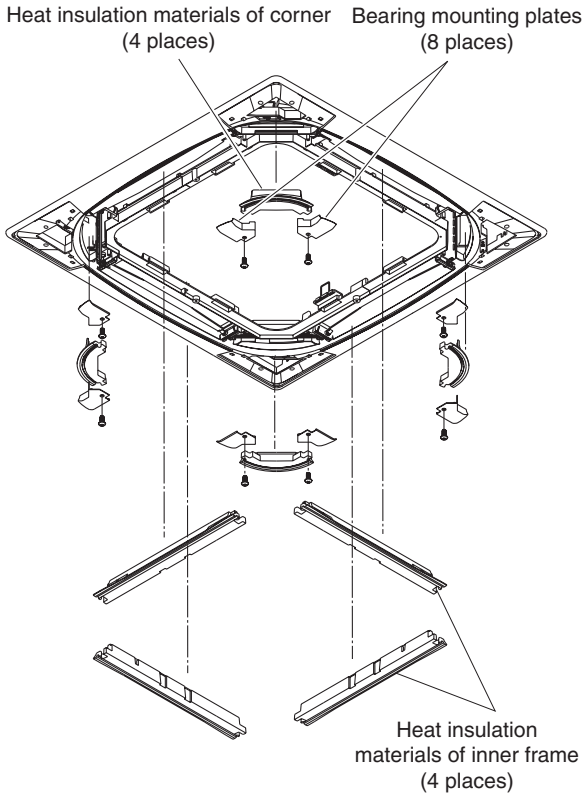
Warning **Be sure to wait 10 minutes or more after turning off all power supplies before disassembling work.**

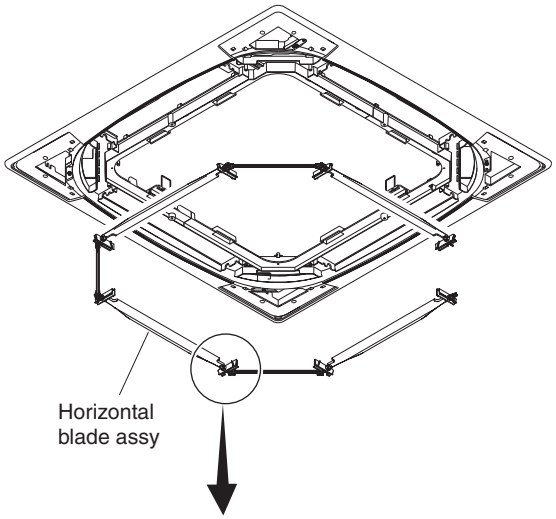
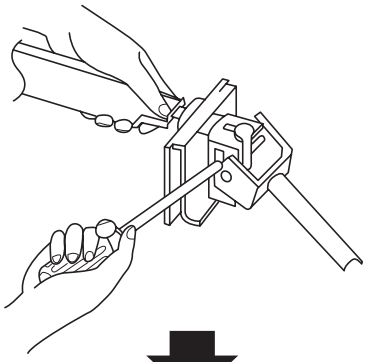
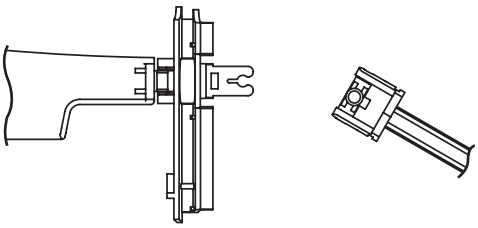
Step	Procedure	Points
■ Removing the suction grille according to the procedure for removing the suction grille. ■ Removing the el. compo. box lid and the relay connector for swing motor according to the procedure for removing the PCB.		■ Relay connector 
1. Removing the Decoration Panel.		
1 Remove the corner decoration covers A and B by pulling their inner side (suction grille side) downward.		■ Corner decoration cover string 
2 Remove the corner decoration cover string.		
3 Loosen the 4 fixing screws of the corner decoration cover (until the cover is loosely fixed).		■ Corner decoration cover B 
4 Remove the 4 outer latches (A). (Check that the 2 inner latches (B) are still latched.)		
5 Holding the decoration panel with both hands, remove the 2 inner latches (B) and take out the decoration panel.		■ Decoration panel fixing screw 

1.12 Removal of Horizontal Blade

Procedure

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

Step	Procedure	Points
■ Removing the decoration panel according to the procedure for removing the decoration panel.		
1. Removing the Inner Frame from the Decoration Panel.		
1 Remove the 4 screws from the back of the decoration panel.		
2 Remove the seal materials (A) from the back of the decoration panel (4 places).		
3 Remove the 4 screws from the front of the decoration panel.		
4 Pull out the inner frame straight from the decoration panel.		
2. Removing the Heat Insulation Materials.		
1 Remove the inner frame heat insulation materials (4 places).		
2 Remove the corner heat insulation materials (4 places).		
3 Remove the screw (1 each) of the bearing mounting plates (8 places).		

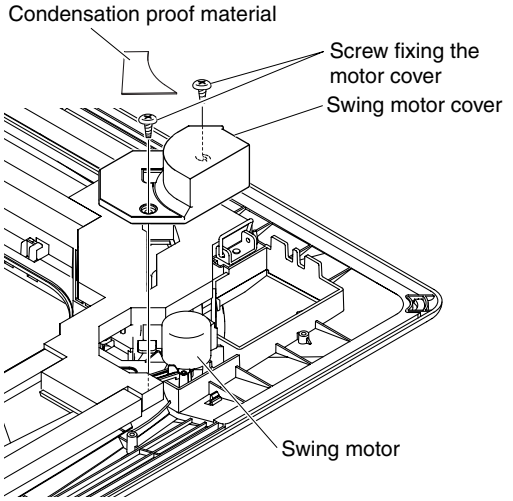
Step	Procedure	Points
3. Removing the Horizontal Blade.		
1 Remove the horizontal blade assy.		
2 To remove the horizontal blade, put a screwdriver into the connection and apply the "principle of leverage".		

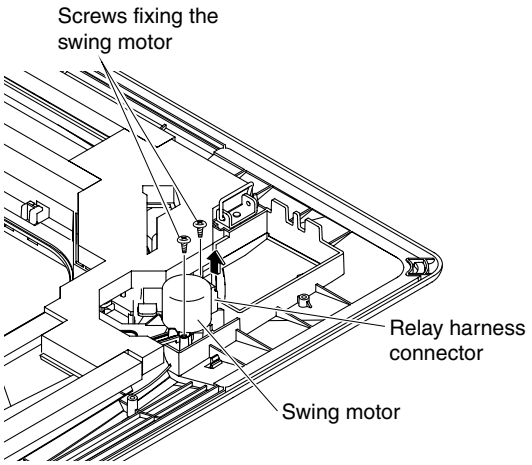
1.13 Removal of Swing Motor

Procedure

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

Step	Procedure	Points
■ Removing the decoration panel according to the procedure for removing the decoration panel.		
1	Peel off the condensation proof material from the motor cover.	
2	Remove the 2 screws on the motor cover.	
3	Remove the relay harness connector from the swing motor.	
4	Remove the 2 screws of the swing motor.	





Warning

- Daikin Industries, Ltd.'s products are manufactured for export to numerous countries throughout the world. Daikin Industries, Ltd. does not have control over which products are exported to and used in a particular country. Prior to purchase, please therefore 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, COMMERCIAL HEATING EQUIPMENT, RESIDENTIAL AIR CONDITIONING EQUIPMENT, HEAT RECLAIM VENTILATION, AIR CLEANING EQUIPMENT, MARINE TYPE CONTAINER REFRIGERATION UNITS, 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

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