Changes for the Better

MITSUBISHI ELECTRIC

DEHUMIDIFIER

2013

SERVICE MANUAL

No.MJW-E-1207A

Model MJ-E21BG-S1-IT

Sold from 2013

CONTENTS

1. Precautions

Note) This page is extracted from the instruction manual.

Precautions

The following diagrams indicate circumstances where danger can result from mishandling the unit.

⚠ WARNING
Mishandling may result in fatal or serious injuries.

⚠ CAUTION
Mishandling may result in minor injuries or damage to your home or property, etc.

Meanings of the graphic symbols used in this manual and on the unit are explained below.

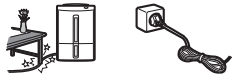
- Forbidden
- Do not disassemble
- Keep away from fire
- Do not subject to water
- Always follow the instructions

⚠ WARNING

Do not start/stop the unit by plugging/unplugging the power cord.
This may result in **fire and/or electric shock**.

Do not use extension cords or multiple head adapters.
This may result in **fire, electric shock or malfunctions**.

Do not damage or modify the power cord or plug.
Do not modify, bundle, twist, bend or heat the power cord. Do not place under objects or use with the end close to the plug bent. (Keep pets from biting the cord.)



The cord may be damaged resulting in **fire or electric shock**.

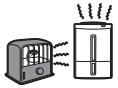
Do not put your fingers or any long object, into the air intake/outlet. Do not touch the swing louvre.

The internal fan rotates at high speeds, and such actions may result in **injury or malfunctions**.

Do not attempt to repair, disassemble, or modify the unit.

This may result in **fire and/or electric shock**. Refer servicing to your dealer or Mitsubishi Electric Service Centre.

Do not put the unit near heat-generating devices (such as stoves, fan heaters, etc.).



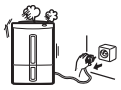
The plastic parts may **melt and cause fire**.

Wipe dust off the power plug and insert the plug firmly.
If the plug is not fully inserted into the socket, dust may gather on the connectors which may cause **fire and/or electric shock**.

Use 220–240V AC power sockets.
Connecting to power sockets other than 220–240V AC may result in **fire and/or electric shock**.

Remove water that has collected in the tank.
Accidentally drinking the water or using it for other purposes may cause **illness and/or unforeseen accidents**.

Should abnormal symptoms occur (a burning smell, etc.), switch off the unit and unplug it from the socket.



Continuing to operate the unit may result in **fire, electric shock, or malfunctions**. Contact your dealer or Mitsubishi Electric Service Centre for consultation.

⚠ CAUTION

Do not cover the front or side air intakes or the air outlet with cloth, curtain, etc.
This results in poor ventilation and may cause **heat generation/fire**.

Do not stand on, sit on or lean against the unit.
The unit may tip over causing **injury**.

Do not put vases or any other objects filled with water on the unit.
Water may leak into the unit adversely affecting electric insulation and cause **electric shock and/or fire by short-circuiting**.

Do not use the unit where it may be exposed to direct sunlight or other weather conditions. (This unit is for indoor use only.)
This may cause **overheating, electric shock and/or fire caused by an electric leak**.

Do not use the unit in narrow, enclosed places such as inside closets, between pieces of furniture, etc.
This results in poor ventilation and may cause **heat generation and/or fire**.

Do not use combustion appliances in the path of the air outlet.
This may cause **incomplete combustion** in the appliance.

Do not use the unit in places where chemicals are used (such as hospitals, factories, laboratories or beauty salons).
Chemicals and solvents evaporated in the air may harm the unit and cause water in the tank to leak, **resulting in damage to property**.

Do not use the unit for special purposes, such as preservation of food, art or scientific works.
This may negatively affect **the quality of the items stored**.

Do not drain water continuously if there is a possibility that temperature around the hose could drop to freezing point.
Water inside the hose may freeze and prevent the water in the tank from flowing out. The water may leak from the unit and **damage surrounding objects**.

Do not use the unit in places that may be subject to oil or flammable gas leakage.
Such a leak around the unit may cause **combustion** and **fire**.

Do not remove the Styrofoam from the floating element.
The floating element will not be able to detect a full tank resulting in water leakage, which may **damage surrounding objects or cause electric shock and/or an electric leak**.

Do not wash the unit with water. Do not use the unit where it is likely to come in contact with water.
Exposure to water may result in **fire or electric shock caused by an electric leak**.

Do not point air-flow from the unit directly at the body.
If air-flow is directed at the body for long periods, it may **harm one's physical condition** and **lead to dehydration**.

Install the unit in a location where the floor is flat and stable.
If the unit falls over, the water collected in the water tank may leak damaging surrounding objects and in turn result in **fire or electric shock caused by an electrical leak**.

Grasp the plug and remove from the power socket.
When removing the plug from the power socket, do not pull on it diagonally or by the cord as this may cause the projections/wiring to be **damaged resulting in a short circuit, electric shock or fire**.

Before moving the unit always switch it off, unplug it and remove water from the water tank.
Moving the unit with water in its tank may cause the water to leak and **damage the surrounding objects and in turn result in electric shock and/or an electric leak**.

Note) This page is extracted from the instruction manual.

Precautions (Cont.)

⚠ CAUTION

After emptying the tank, transport the unit by grasping the handle firmly.

Losing your footing while carrying the unit may cause **personal injury or damage to the floor.**

When using the continuous drainage outlet, make sure to position the hose so that the water drains without obstruction.

The water in the tank may leak and **damage surrounding objects.**

When draining water continuously or left unattended for long periods, inspect the unit every two weeks.

Do not allow debris to clog the filter/hose as this may cause **overheating/leakage.**

Use the unit with caution in rooms where the walls, furniture and art work are vulnerable to dry air, as it may cause cracks and warping.

Switch the unit off and unplug from the power source when cleaning it.

When the unit is on, the internal fan rotates at high speeds and may cause **injury.**

Unplug the unit from the power source when not using the unit for an extended period of time.

Otherwise it may cause **fire and/or electric shock caused by an electric leak.**

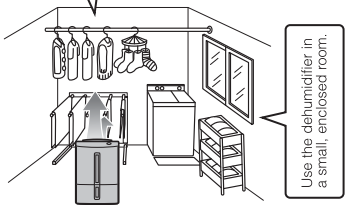
Tips on Dehumidifying

Drain the water tank before use

Refrain from opening doors/windows during operation

Drying laundry indoors

• Direct the louvres at the laundry.
• Space laundry to improve airflow.



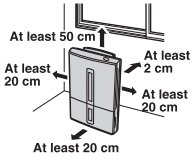
Maintain room temperature above 16°C with a heater

- Drying times will vary depending on the nature of the laundry and the room temperature.
- The airflow is strongest to the top right of the unit.

Installing your dehumidifier

Make sure to leave some space around the unit.

<For use in close proximity to a wall>
Stop the louvre in the vertical position. Blowing air at the wall may cause staining.



Operating noise

Place the unit on top of a mat. This reduces vibration and noise. It also prevents leaving depressions on carpets.

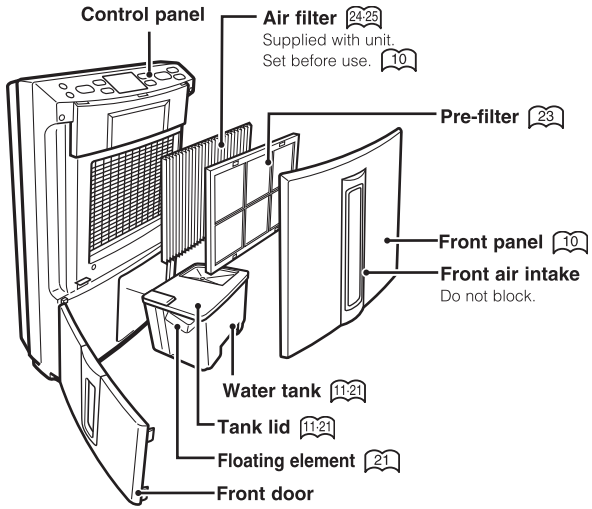
Warnings

- **Keep the unit always in an upright position.** Inclining the unit may cause water in the tank to leak into the unit, **resulting in malfunction**. Should this happen contact service number on the last page for advice.
- Damage to the dehumidifier caused by atmospheric conditions (ie. Salt or Sulphur) will not be covered under warranty.
- **Do not carry or store the unit horizontally.** This may **result in malfunctions.** Such malfunctions are NOT covered under warranty.

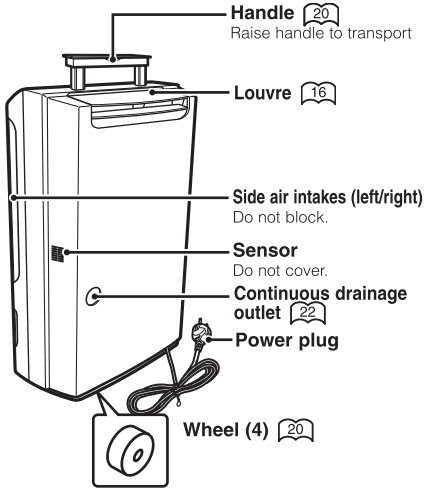
2. Names and Functions of Parts

Names and Functions of Parts

Front

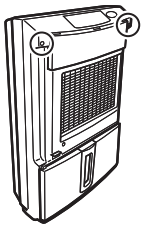


Back



NOTE

It is impossible to remove the back panel because the two spots shown are fastened with two special screws.
If the unit malfunctions, contact your Mitsubishi dealer.

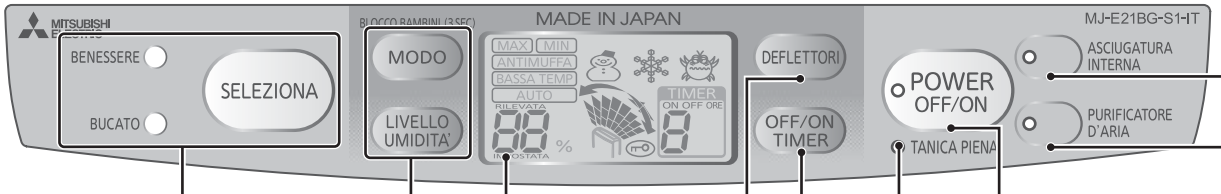


The water tank may contain water residue at time of purchase. This is from final product testing at the factory and is not due to a defect.

Note) This page is extracted from the instruction manual.

Names and Functions of Parts (Cont.)

Control Panel



- **Lamp**
  Current mode lights.
- **Selection button**
  Switches modes.

13

- **Mode button**
  For switching from one operating mode to another.
- **Humidity selection button**
  This is used to set the target humidity.

14–15

- **Child lock**
  To set the child lock, press the mode button for three seconds.

20

- **Swing louvre button**
  Sets swing louvre direction or locks it into position.

16

- **OFF/ON timer button**
  Sets timer.

18–19

- **Power lamp**
  Lights when unit is ON.
- **Power button**
  Use this to switch the unit ON and OFF.

12

- **Tank full lamp**
  This lights up to warn that the water tank is full.

12

- **Drying inside lamp**
  Flashes when drying inside in progress.
- **Drying inside button**
  Activate/deactivates drying inside.

17

- **Air purifier lamp**
  Lights during air purifier only operation.
- **Air purifier button**
  Switches to air purifier only operation.

15

You can select from 8 operating modes.

- **EASY DEHUMIDIFYING**
- **INTELLIGENT LAUNDRY**
- **HIGH**
- **LOW**
- **MILDEW GUARD**
- **LOW TEMP**
- **AUTO**

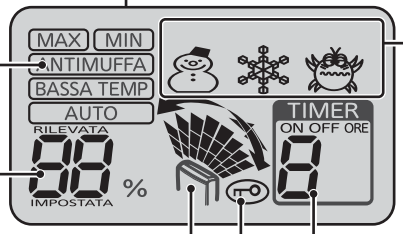
All modes include dehumidifier and air purifier functions.

- **AIR PURIFIER**

Air purifier only operation. The dehumidifier function is disabled.

LCD Panel

All indicators on the LCD panel shown below.



- **Mode indicator**
  Indicates the current operating mode.

14–15

- **Humidity indicator**
  This indicates the **approximate humidity.**
  RILEVATA indicates the current humidity.
  IMPOSTATA indicates the humidity setting in AUTO mode.
  The humidity is displayed in a range from 30 to 80%

12

- **Swing monitor**
  Indicates the direction of the swing louvre.

16

- **Timer display**
  Displays the time set for the ON/OFF timer.

18–19

- **Child lock indicator**
  Displayed while child lock is active.

20

- **Information display**
  Indicates room and unit condition

Low Temperature Indicator

The indicator comes on if the room temperature drops below 15°C.
Activating LOW TEMP mode is recommended. 14

DEFROST Indicator

Airflow (dehumidifying) will stop and the frost that has accumulated inside will be melted and dropped into the tank when the indicator is on.
Please wait a moment as operation will resume in around 5 minutes.
While in DEFROST mode, airflow (dehumidifying) and the louvre will stop. The sounds coming from the unit will also change.
DEFROST will start automatically when room temperature drops below 15°C (This may be as often as once every 40 minutes).

High Humidity Warning

The indicator flashes when the unit is OFF and the humidity in the room exceeds 75%. Activating the dehumidifier is recommended when the indicator is flashing.

If the High humidity warning is not required, remove the power plug from the power socket.

3. Specifications

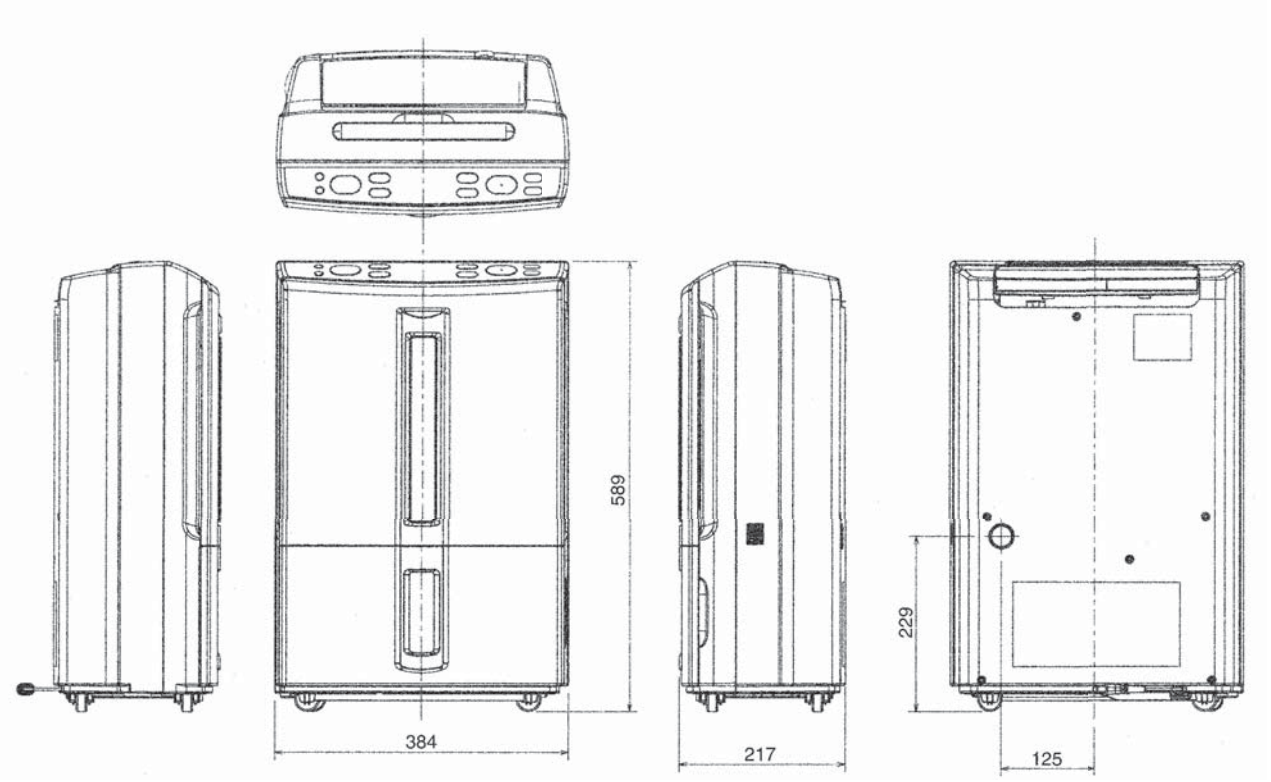
Note) This page is extracted from the instruction manual.

Specifications

Model	MJ-E21BG-S1-IT
Power supply	Single phase 220-240 V, 50 Hz
Dehumidifying capacity	21 L/day
Power consumption	380 W
Water tank capacity	Stops automatically at approx. 4.5 L
Weight	13.7 kg
Dimensions (h × w × d)	589 mm × 384 mm × 217 mm

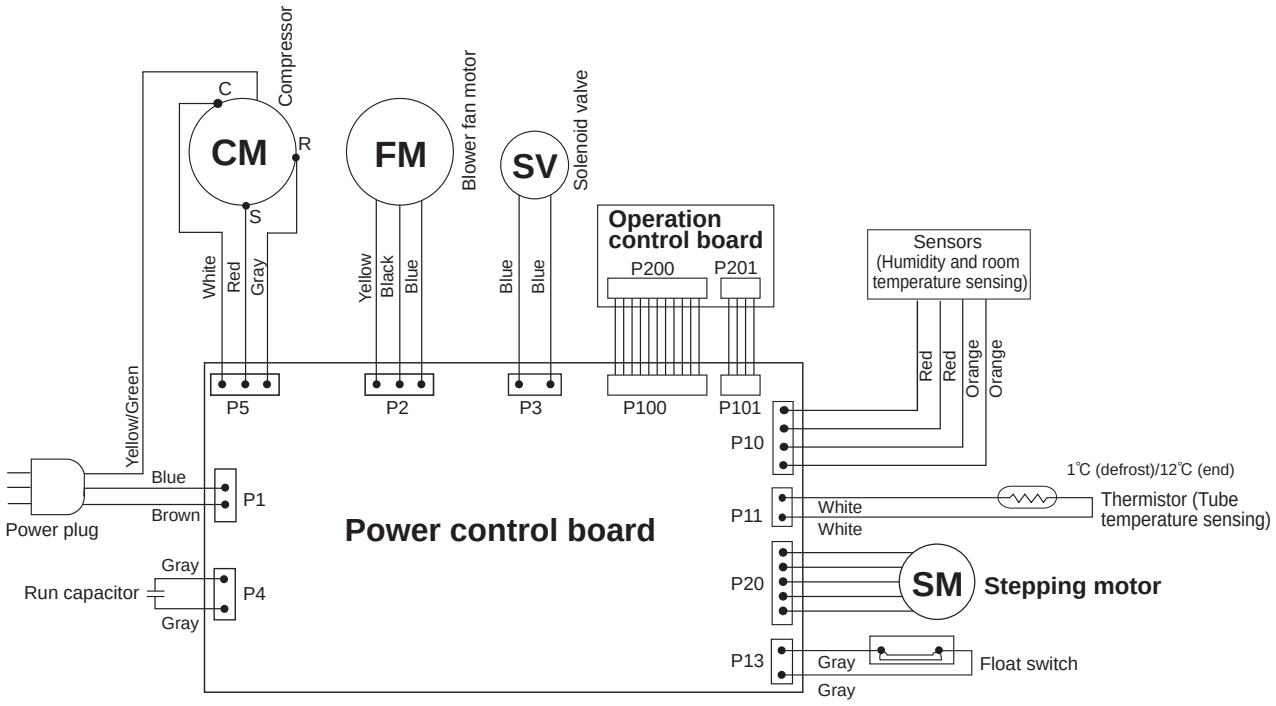
- The dehumidifying capacity is a value obtained when the dehumidifier is continuously run at a room temperature of 32°C and humidity of 80%. It indicates the amount of dehumidification per day (24 hours).

4. Outer Dimensions



5. Wiring Diagram

1) Wiring Diagram



Safety Devices

(1) Current fuse .....Overcurrent flow caused by deterioration in electrical parts or other problems turns the power source to OFF.
<Current setting: 2A>

(2) Motor protector (Overload relay) .....The compressor stops operating if the room temperature exceeds 35°C. The compressor will also shut down when malfunctions or other problems cause the current flow to exceed 5.3A.

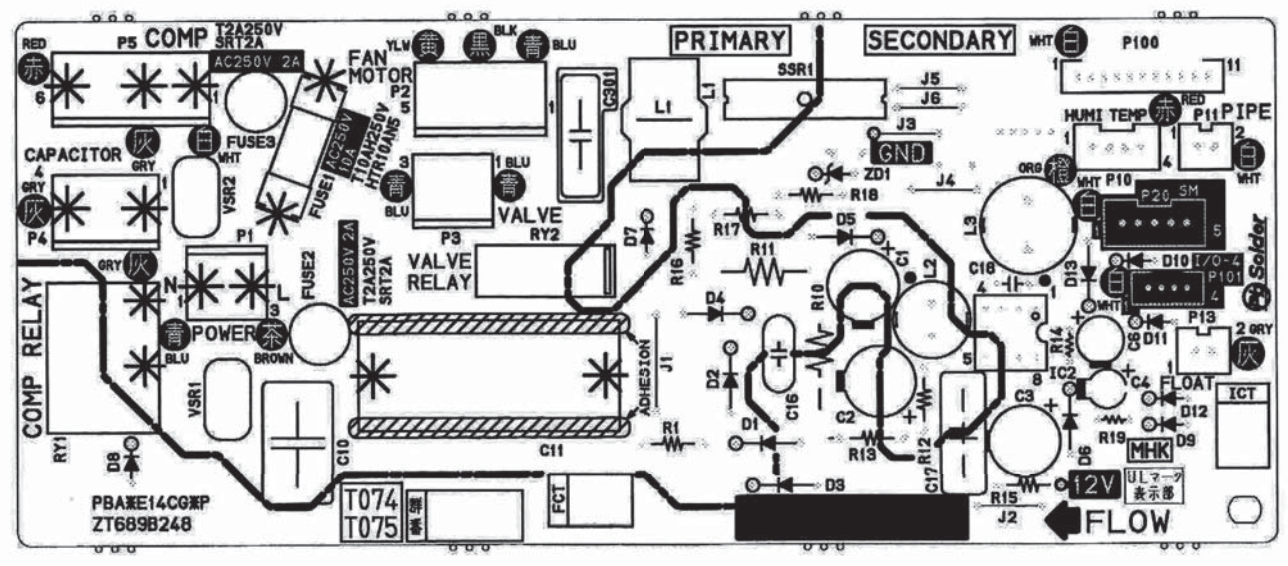
(3) Control circuitry .....The room temperature thermister senses temperature below about 0°C, and shuts down the compressor.

(4) Thermal fuse .....When blower motor temperature exceeds 133°C due to blower locking or other malfunctions, blower operation shuts down.

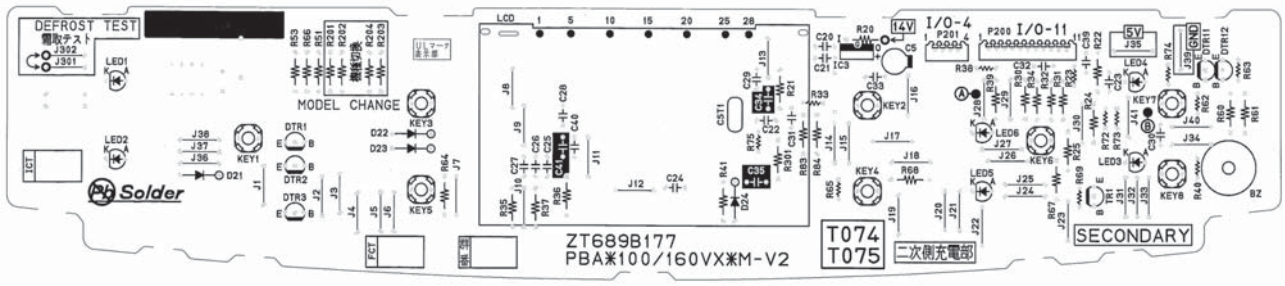
(5) Current fuse for compressor protection
..... If the protection by motor protector and control circuitry is not effective, the compressor shuts down when the current to it exceeds approximately 10A.
<Setting current: 10A>

2) Board Diagram

[Power control board]



[Operation control board]



6. Function

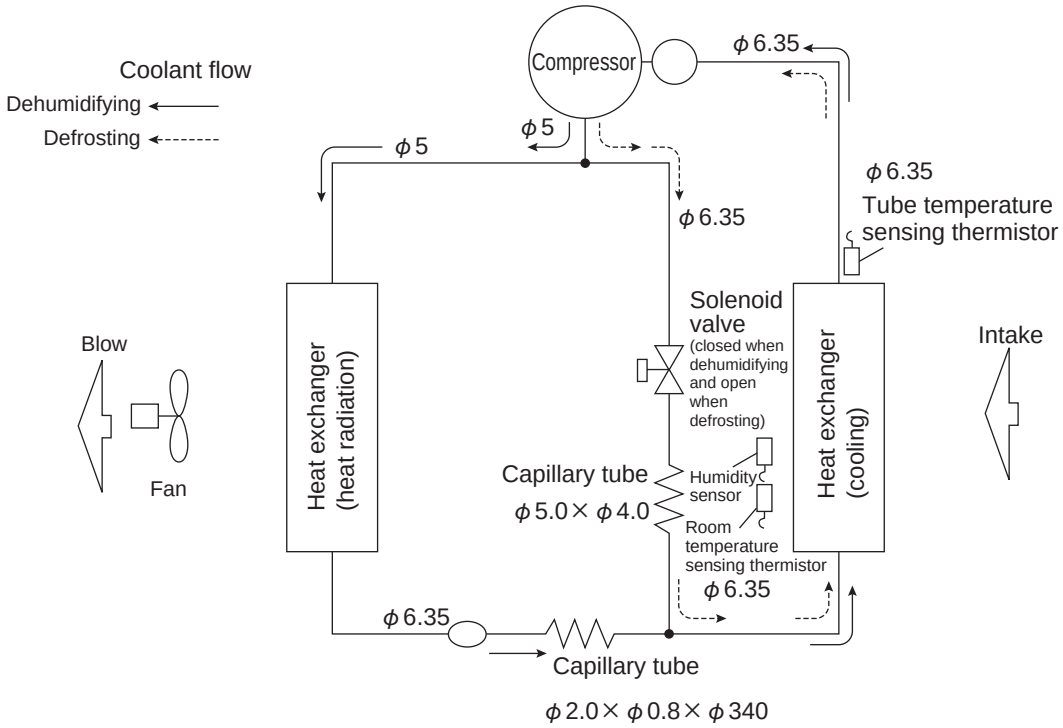
■ Function List

		Operation off	Operation mode														
			Dehumidifying operation														
			Auto	High	Low	Mildew guard	Low Temp	Easy dehumidifying	Intelligent Laundry	Air purifier	Drying inside	Full	Defrost	Off timer on	On timer being set	On timer counting	Child lock
	Compressor	OFF	—	ON	ON	—	ON	—	ON	OFF	—	OFF	ON	—	OFF	OFF	—
	Blower fan	OFF	—	ON	ON	—	ON	—	ON	ON	—	OFF	OFF	—	OFF	OFF	—
	Solenoid valve	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	—	OFF	ON	—	OFF	OFF	—
	Swing louvre	Closed	▲	△	△	▲	△	▲	△	▲	Upward	OFF	OFF	▲	Closed	Closed	—
LED indicator	Power	×	○	○	○	○	○	○	○	○	×	×	○	○	◎	○	—
LED indicator	Lamps	×	×	×	×	×	×	Dehu-midifying	Intelligent Laundry	×	×	×	□	□	■	□	—
LED indicator	Air Purifier	×	×	×	×	×	×	×	×	○	×	×	×	□	■	□	—
LED indicator	Full	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	—
LED indicator	Drying inside	×	×	×	×	×	×	×	×	×	◎	×	×	×	×	×	—
LCD indicator	Humidity (set/current)	○	○	○	○	○	○	○	○	○	×	○	○	○	○	○	—
LCD indicator	Operation mode	×	AUTO	HIGH	LOW	Mildew guard	Low Temp	×	×	×	×	×	□	□	■	□	—
LCD indicator	Swing area	×	△	△	△	△	△	△	△	△	×	×	△	△	△	△	—
LCD indicator	Swing monitor	×	▲	▲	▲	▲	▲	▲	▲	▲	×	×	×	▲	×	×	—
LCD indicator	Off/on timer	×	×	×	×	×	×	×	×	×	×	×	×	○ Off	◎On	○ On	—
LCD indicator	Mildew guard	—	×	×	×	×	×	×	×	×	×	×	×	×	×	×	—
LCD indicator	Defrost	×	×	×	×	×	×	×	×	×	×	×	○	×	×	×	—
LCD indicator	Low temp	×	☆	☆	☆	☆	☆	☆	☆	☆	×	×	☆	☆	☆	☆	—
LCD indicator	Child lock	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	○
Button	Power	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×
Button	Selection	×	○	○	○	○	○	○	○	○	×	×	○	○	○	○	×
Button	Mode	×	○	○	○	○	○	○	○	○	×	×	○	○	○	○	×
Button	Humidity Selection	×	○	○	○	○	○	○	○	○	×	×	○	○	○	○	×
Button	Air purfier	×	○	○	○	○	○	○	○	○	×	×	○	○	○	○	×
Button	Swing louvre	×	○	○	○	○	○	○	○	○	×	×	○	○	○	○	×
Button	Off/on timer	○	○	○	○	○	○	○	○	○	×	○	○	○	○	○	×
Button	Drying inside	○	○	○	○	○	○	○	○	○	○	×	○	○	○	○	×
Button	Child lock	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

Note ○ : Display lamp/Operable
◎ : Timer - flashes when on
× : Off/stopped/inoperable
△ : Operable only when swing on/lit
▲ : Operable only when swing on and blower fan rotates
□ : LCD/LED lights at each operation mode
■ : LCD/LED flashes at each operation mode
☆ : Lights at room temperatures of 14℃ or under
– : Varies by conditions.
ON : ON LED lit or flashing
OFF : OFF LED lit

7. Technical Points

■ Coolant Circuit



■ Performance curve

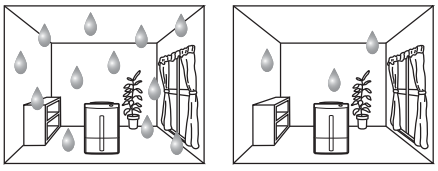
Note) This page is extracted from the instruction manual.

Frequently Asked Questions

Q. Why does the dehumidifier seem to collect less water in winter?

A. When the temperature and humidity are low, the amount of water collected is decreased.

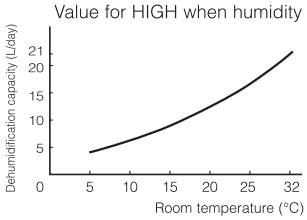
In winter, because the temperature is lower than in summer, the effect of the dehumidifier decreases dramatically as shown in the graph below.
Although less water collects in the tank, this is not a malfunction.



Summer (humidity) Winter (dampness)

* If the temperature is low, but the humidity is high due to snow or rain, operating the unit in LOW TEMP mode will yield better results than in HIGH mode. 14

Value for HIGH when humidity is 80%



- The values shown on the graph were measured at constant temperature and humidity and do not reflect values obtained in actual usage conditions.

Q. • Why doesn't the dehumidifier operate?
• Why does the unit stop operating suddenly?

A. The unit might be in INTELLIGENT LAUNDRY mode.

The unit may sometimes stop operation after just a short amount of time as a result of conditions such as the room temperature and humidity. 13

A. The unit might be in EASY DEHUMIDIFYING, MILDEW GUARD, or AUTO mode.

The unit automatically switches between dehumidifying, airflow only, and non-operation. 13–15

8. Precautions for failure diagnosis

The following precautions should be observed in order to perform troubleshooting safely and correctly.
The following diagrams indicate circumstances where danger can result from mishandling the unit.

⚠ **WARNING**	**Mishandling may result in fatal or serious injury, or fire.**
⚠ **CAUTION**	**Mishandling may result in minor or damage to your home or property ,etc.**

Meanings of graphic symbols are explained below.

Forbidden	**Always follow the instructions**	**Alert**

⚠ WARNING

Remove the power plug from the socket.

Unplug

Failure to do so may cause electric shock or injuries.

When performing work with the power on, be careful not to touch the live part.

Electric shock

This may cause electric shock.

Do not touch a rotating object until it completely stops.

Don't touch

The rotating object may catch your hand etc, and result in injuries.

Do not work with wet hands.

No wet hands

This may cause electric shock.

Check the wiring diagram before wiring processing.

Check

Failure to do so may cause combustion, generation of smoke, and/or malfunction.

After the work, lay the wire out as it was before.

Return to as it was

Failure to do so may cause combustion, generation of smoke, and/or malfunction.

⚠ CAUTION

Wear protective gloves.

Wear gloves

Failure to do so may result in injuries by the edge of metal, electric shock, and/or burns caused by contact with hot section.

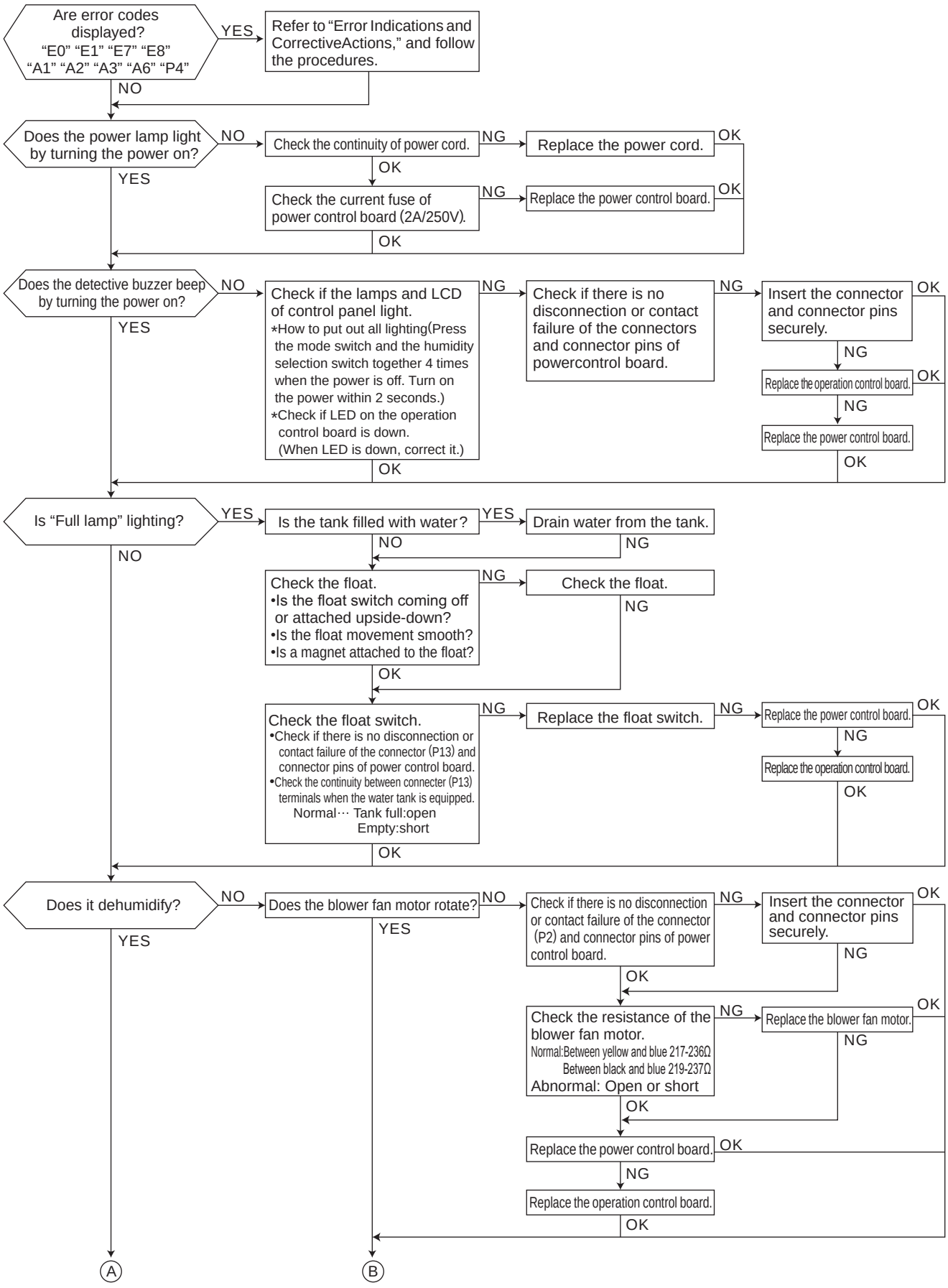
Keep children away.

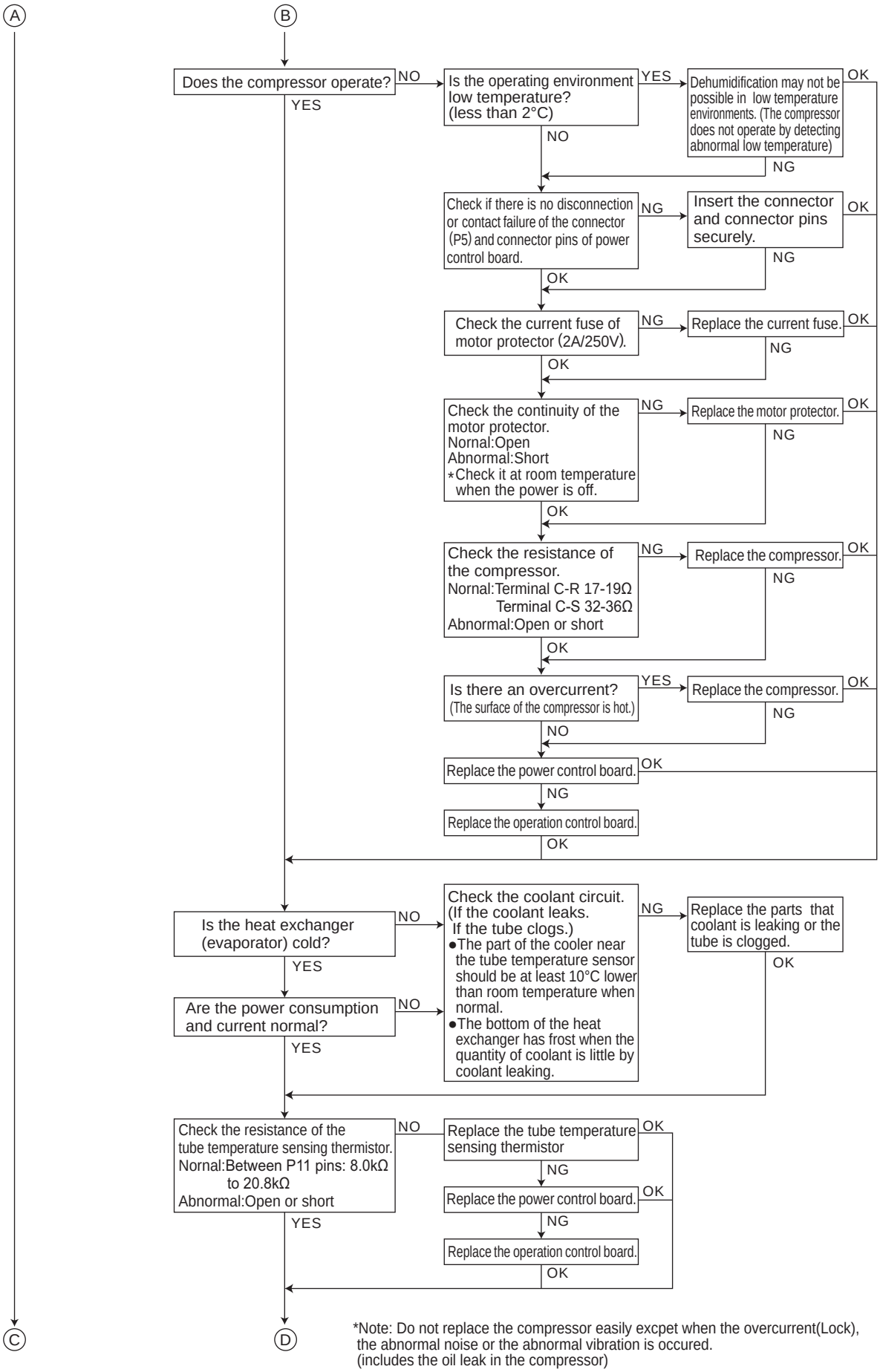
Keep away

Failure to do so may result in electric shock and/or injuries when moving the unit or using a measuring device.

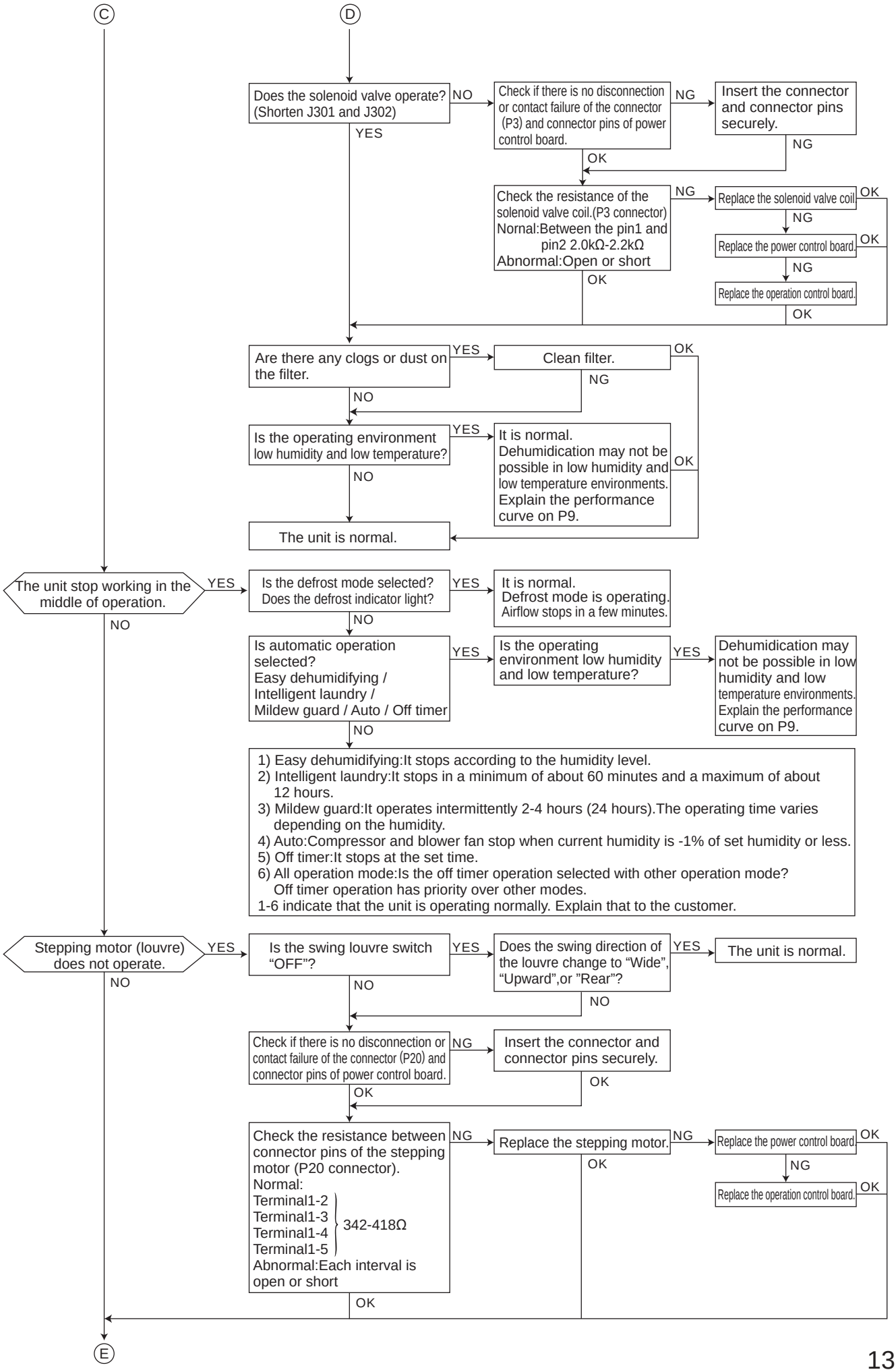
9. Troubleshooting procedure

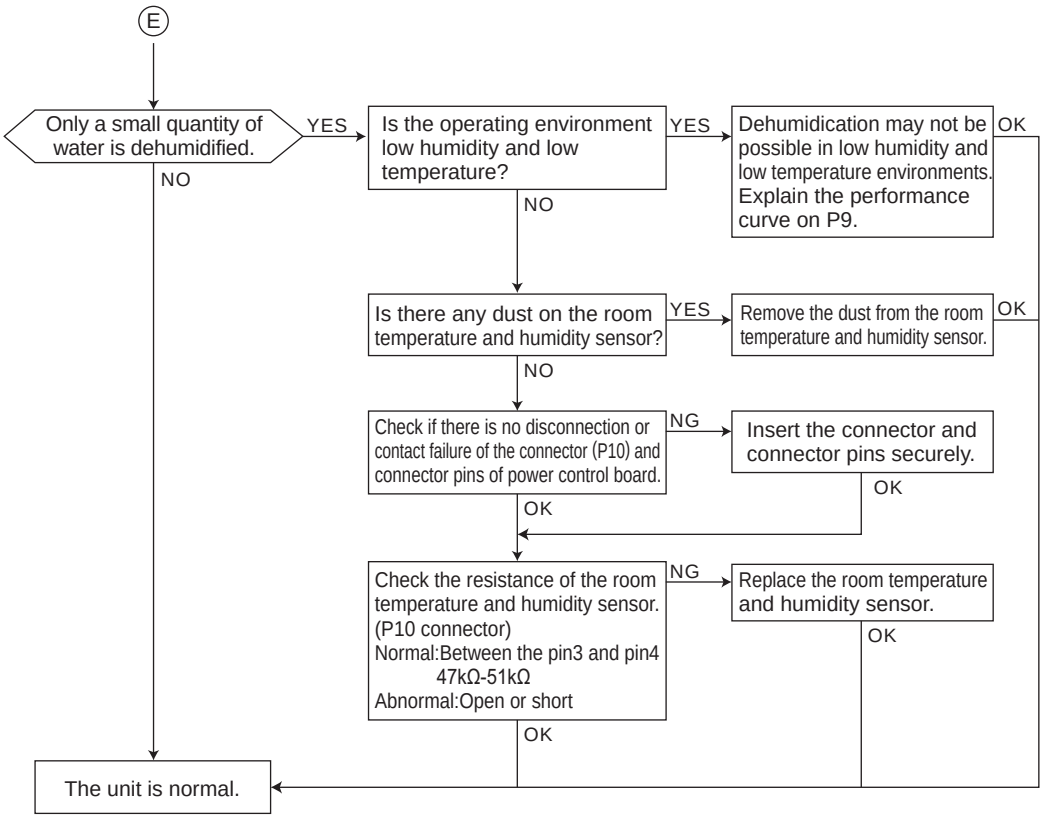
1) Failure diagnosis flowchart





*Note: Do not replace the compressor easily excpet when the overcurrent(Lock), the abnormal noise or the abnormal vibration is occured. (includes the oil leak in the compressor)


C
D
Does the solenoid valve operate? (Shorten J301 and J302)
NO
YES
Check if there is no disconnection or contact failure of the connector (P3) and connector pins of power control board.
NG
OK
Insert the connector and connector pins securely.
NG
Check the resistance of the solenoid valve coil.(P3 connector)
Normal:Between the pin1 and pin2 2.0kΩ-2.2kΩ
Abnormal:Open or short
NG
OK
Replace the solenoid valve coil
OK
NG
Replace the power control board.
OK
NG
Replace the operation control board.
OK
Are there any clogs or dust on the filter.
YES
NO
Clean filter.
OK
NG
Is the operating environment low humidity and low temperature?
YES
NO
It is normal.
Dehumidication may not be possible in low humidity and low temperature environments.
Explain the performance curve on P9.
OK
The unit is normal.
The unit stop working in the middle of operation.
YES
NO
Is the defrost mode selected?
Does the defrost indicator light?
YES
NO
It is normal.
Defrost mode is operating.
Airflow stops in a few minutes.
Is automatic operation selected?
Easy dehumidifying /
Intelligent laundry /
Mildew guard / Auto / Off timer
YES
NO
Is the operating environment low humidity and low temperature?
YES
Dehumidication may not be possible in low humidity and low temperature environments.
Explain the performance curve on P9.
1) Easy dehumidifying:It stops according to the humidity level.
2) Intelligent laundry:It stops in a minimum of about 60 minutes and a maximum of about 12 hours.
3) Mildew guard:It operates intermittently 2-4 hours (24 hours).The operating time varies depending on the humidity.
4) Auto:Compressor and blower fan stop when current humidity is -1% of set humidity or less.
5) Off timer:It stops at the set time.
6) All operation mode:Is the off timer operation selected with other operation mode?
Off timer operation has priority over other modes.
1-6 indicate that the unit is operating normally. Explain that to the customer.
Stepping motor (louvre) does not operate.
YES
NO
Is the swing louvre switch “OFF”?
YES
NO
Does the swing direction of the louvre change to “Wide”, “Upward”,or ”Rear”?
YES
NO
The unit is normal.
Check if there is no disconnection or contact failure of the connector (P20) and connector pins of power control board.
NG
OK
Insert the connector and connector pins securely.
OK
Check the resistance between connector pins of the stepping motor (P20 connector).
Normal:
Terminal1-2
Terminal1-3
Terminal1-4
Terminal1-5
342-418Ω
Abnormal:Each interval is open or short
NG
OK
Replace the stepping motor.
NG
OK
Replace the power control board.
OK
NG
Replace the operation control board.
OK
E


E
Only a small quantity of water is dehumidified.
YES
NO
Is the operating environment low humidity and low temperature?
YES
NO
Dehumidication may not be possible in low humidity and low temperature environments. Explain the performance curve on P9.
OK
Is there any dust on the room temperature and humidity sensor?
YES
NO
Remove the dust from the room temperature and humidity sensor.
OK
Check if there is no disconnection or contact failure of the connector (P10) and connector pins of power control board.
NG
OK
Insert the connector and connector pins securely.
OK
Check the resistance of the room temperature and humidity sensor. (P10 connector)
Normal:Between the pin3 and pin4
47kΩ-51kΩ
Abnormal:Open or short
NG
OK
Replace the room temperature and humidity sensor.
OK
The unit is normal.

2) Simple Check Table for Main Parts

<table>
<tr><th>Component name</th><th>Testing procedure</th></tr>
<tr><td>Tube temperature sensing thermistor</td><td>Detach the connector and measure the resistance using a multimeter
(component temperature: 10℃ to 30℃).
<table>
<tr><th>Normal</th><th>Abnormal</th></tr>
<tr><td>Between P11 pins: 8.0kΩ to 20.8kΩ</td><td>Open or shorted</td></tr>
</table></td></tr>
<tr><td>Room temperature and humidity sensor board</td><td>Detach the connector and measure the resistance using a multimeter
(component temperature: 10℃ to 30℃).
Normal: 47 to 51kΩ (between P10 pins 3 and 4)
Abnormal: Open or shorted</td></tr>
<tr><td>Compressor</td><td>With the connector detached, measure the resistance across the terminals using a multimeter
(winding temperature: 10℃ to 30℃).
<table>
<tr><th></th><th>Normal</th><th>Abnormal</th></tr>
<tr><td>C-R side</td><td>17Ω ~ 19Ω</td><td rowspan="2">Open or shorted</td></tr>
<tr><td>C-S side</td><td>32Ω ~ 36Ω</td></tr>
</table></td></tr>
<tr><td>Blower fan motor</td><td>Measure the resistance between terminals using a multimeter
(winding temperature: 10℃ to 30℃).
<table>
<tr><th></th><th>Normal</th><th>Abnormal</th></tr>
<tr><td>Yellow-Blue</td><td>217Ω ~ 236Ω</td><td rowspan="2">Open or shorted</td></tr>
<tr><td>Black-Blue</td><td>219Ω ~ 237Ω</td></tr>
</table></td></tr>
<tr><td>Solenoid valve coil</td><td>Measure the resistance between terminals using a multimeter
(component temperature: 10℃ to 30℃).
<table>
<tr><th>Normal</th><th>Abnormal</th></tr>
<tr><td>2.0kΩ ~ 2.2kΩ</td><td>Open or shorted</td></tr>
</table></td></tr>
<tr><td>Stepping motor</td><td>Measure the resistance across terminals with a multimeter.
(Part temperature: approx 25℃)
<table>
<tr><th></th><th>Normal</th><th>Abnormal</th></tr>
<tr><td>Terminals 1-2</td><td rowspan="4">342Ω ~ 418Ω</td><td rowspan="4">Open or shorted</td></tr>
<tr><td>Terminals 1-3</td></tr>
<tr><td>Terminals 1-4</td></tr>
<tr><td>Terminals 1-5</td></tr>
</table></td></tr>
</table>

3) Error Indications and Corrective Actions

Indication (Timer display)	Error (failure)	Corrective action
E0	P10 connector out of position Room temperature thermistor blowout	Check the P10 connection. Check the room temperature and humidity sensor board.
E1	Room temperature thermistor short Room temperature and humidity sensor board failure	
E7	P11 connector out of position Tube temperature thermistor blowout	Check the P11 connection. Check the tube temperature thermistor.
E8	Tube temperature thermistor short Tube temperature sensor failure	
A1	Microprocessor failure RAM error	Replace the main board.
A2	Frequency determination error (When power is on)	Outlet/power check (Replace the main and power supply boards.)
A3	Frequency determination error (During operation)	
A6	Watchdog timer error	Replace the main board.
P4	Compressor	Follow the “Does it dehumidify?” in the “Failure diagnosis flowchart” of P11.

4) Self-Test Program and Execution Procedure

(1) Deactivating 3-minute restart prevent lock

① Start: Press the MODE and HUMIDITY SELECTION buttons together 3 times when the power is off. Press the POWER button within 2 seconds.

② Functions:

① Deactivates 3-minute restart prevention lock (immediate operation)

② Fan: Fix at rank 6 (max. airflow)

③ Activates compressor

④ Operating mode: Low Temp

⑤ Low temperature is indicated on LCD.

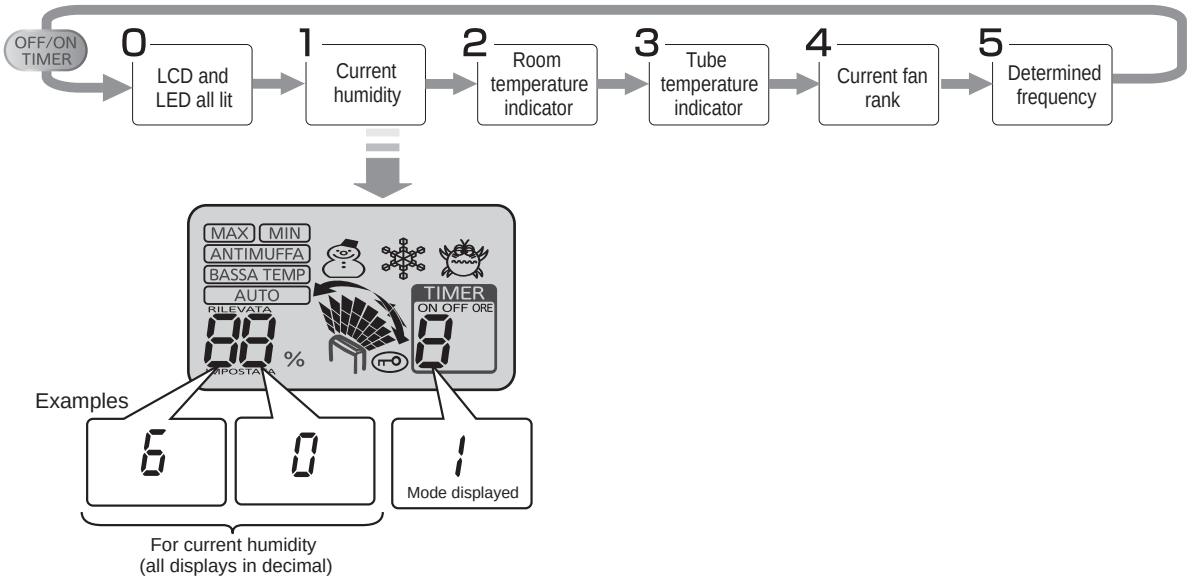
⑥ When E^2PROM error is detected, FULL, DRYING INSIDE and AIR PURIFIER LEDs are lit.

③ To end: Turn power off. The solenoid valve functions for 3 seconds.

(2) LED, LCD and fan tests

① Start: Press the MODE and HUMIDITY SELECTION buttons simultaneously 4 times when the power is off. Press the POWER button within 2 seconds.

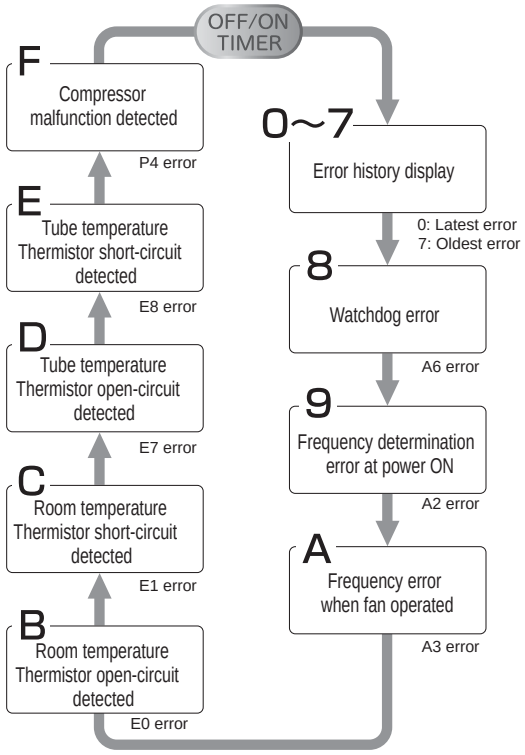
② Mode select: Use the OFF/ON TIMER button to change the diagnosis mode (0 - 5).



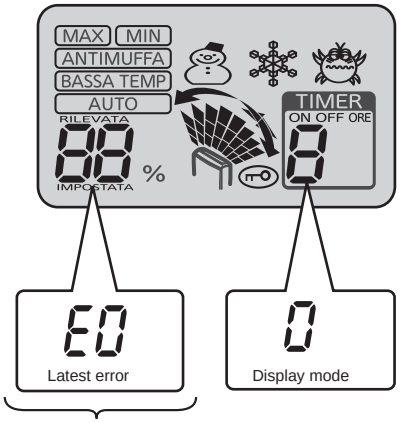
(3) Operation/Error history mode

① Start: Press the MODE and HUMIDITY SELECTION buttons simultaneously 5 times when the power is off. Press the POWER button within 2 seconds.

② Mode select: Use the OFF/ON TIMER button to select indicator mode (0-F).



Example: Latest error display



When “display mode” is 8 to F, the number of error generations is displayed in hexadecimal.

(4) Demo program

① Start: With the power OFF, hold down the MODE and HUMIDITY SELECTION buttons, and press the POWER button. The demo program starts in 3 seconds.

② Operations (all buttons are disabled):

① Fan: Fixed at rank 3

② Compressor/solenoid valve: Stopped

③ LCD/LED: Lights in random sequence

④ Swing louvre: Wide

③ End: Remove power plug.

10. Troubleshooting

Note) This page is extracted from the instruction manual.

Troubleshooting

● **For the symptoms listed below, refer to the remedies listed right.**

Symptom	Cause/Remedy
The unit blows warm air	● Dehumidified air passes through heating coils causing it to warm (this unit is not a cooler). This is not a malfunction. 10
Water does not collect in the water tank (minimal dehumidifying results)	● Check to see if the temperature/humidity is low. Low room temperature/humidity reduces dehumidifying effectiveness. Confirm the current humidity reading (in winter, the air is cooler reducing the amount of water collected). This is not a malfunction. 3
The unit does not turn on (no air comes out) The unit keeps turning off	● Check to see if the power cord is correctly plugged. → Plug the power cord properly into the power socket. 11 ● Check to see if anything is blocking the air intake or outlet. → Remove the obstruction. 5
	● Check to see if the pre-filter is clogged. → Clean according to the maintenance procedures. 23
Stops after a short time	● Check to see if the unit is operating in "INTELLIGENT LAUNDRY" mode. The unit may sometimes stop operation after just a short amount of time as a result of conditions such as the room temperature and humidity. 13
Louvre does not swing	● Check to see if the unit is in EASY DEHUMIDIFYING, MILDEW GUARD, or AUTO. The unit is automatically controlling the dehumidifier, fan, and standby times. 13–15
○TANICA PIENA lights	● Check to see if the water tank is full. → Empty the water tank and return it to its original position. 11·21 ● Check to see if the water tank is inserted properly. → Adjust the position of the water tank. 11
❄ indicates	● Check to see if the unit is in defrosting mode. The unit activates defrosting mode when the room temperature drops below 15°C. The dehumidifier and blower functions stop during defrosting. 9
The unit continues to operate even though it is turned off	● Is the unit set to drying inside mode? This function activates automatically after the unit finishes operating. 17
The humidity level does not reach the level set	● Check to see if the room is not too large. ● Check to see if the exits to the room are open. → Refrain from opening doors/windows during operation. ● Check to see if steam producing appliances such as kerosene heaters are on in the vicinity.
The hygrometer reading on the unit differs from other hygrometers in the room	● Hygrometer readings differ from place to place even if in the same room. Use the unit humidity reading as an estimate. 10
The louvre does not move as set	● Press the Swing louvre button again. 16
The water tank contains liquid or white water residue	● The residue is from final product testing at the factory. It is not a result of a malfunction.
There is black residue on the inside of the water tank and lid	● The residue is from debris in the air. → Clean according to the maintenance procedures. 23

Symptom		Cause/Remedy
The unit makes noises	**The operating noise is loud/ reverberates**	● Check to see if the unit is on a slope or uneven surface. → Move to a sturdy even surface. 5 ● Check to see if the pre-filter is clogged. → Clean according to the maintenance procedures. 23 ● Operating the unit in small rooms or in tight spaces sometimes causes the sound to reverberate. → Place a mat underneath the unit. 6
	The operating sound suddenly increases in volume	● The sound increases when the compressor activates (3 minutes after turning on the unit or during Automatic modes).
	The wind sound changes in volume	● The volume of the sound differs depending on the angle of the louvre. 16
	The unit produces a simmering sound	● This is the sound of the refrigerant. The sound can be heard while the refrigerant stabilizes after the unit turns on, changes modes, or stops.
	The unit produces a buzz that sounds intermittently (or the compressor does not activate)	● This is the sound of the compressor. In modes that monitor the humidity level or during drying inside, the compressor operates intermittently causing the sound to be heard occasionally. The compressor does not activate after turning the unit off, or for 3 minutes after plugging the unit into a power socket. (This is to protect the compressor from damage.) 12
The unit produces an odour	**When first used**	● The heat converter heats rapidly causing a brief odour. This is not a malfunction.
	During drying inside	● The moisture expelled from inside the unit may smell due to odorants that were not caught by the air filter dissolving in the water. This is not a malfunction.

● **Error message (Humidity indicator)**

Digital display	Cause/Remedy
A2 or A3 is displayed	● Check to see if the power cord is plugged into the power socket properly. → Plug the power cord into the power socket properly. 11
P4 is displayed	● Check to see if anything is blocking the air outlet. → Remove the obstruction, and plug the power cord into the power socket again. 5·11 ● Check to see if the pre-filter is clogged. → Clean according to the maintenance procedures. 23
A1, A6, or E0 through E8 is displayed	● **Malfunction → Take note of the error message, unplug the power cord, and contact the place of purchase.**

- **If the symptoms persist even after following the prescribed remedies, or the error message does not disappear, unplug the power cord, and contact the place of purchase.**
- **If the supply cord is damaged, it must be replaced by the manufacturer, its services agent or similar qualified persons in order to avoid a hazard.**

11. Maintenance

Note) This page is extracted from the instruction manual.

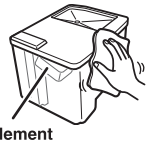
Maintenance

Do not use detergents, cleaning agents for heat exchange equipment, abrasive powders, chemically treated dusters, gasoline, benzene, thinners or other solvents, as they can damage the unit or the water tank, which may result in leakage.

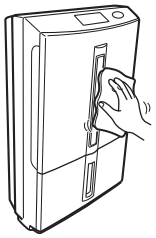
Cleaning

Water tank • Main unit

Wipe with a soft cloth.



Floating element
Do not remove or dismantle.



- The unit draws in dust present in the air, and this may cause the tank to **gradually become dirty**. If the dirt does not come off easily, wash with cold or warm water, then wipe with a soft, dry cloth.
- Mildew may form in the tank unless kept clean.

Once every two weeks

Pre-filter

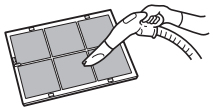
Debris clogging the pre-filter reduces the effectiveness of the dehumidifier. Clean once every 2 weeks.

For maintenance procedures see 10

1 Remove the front panel and pre-filter.

2 Remove the air filter.

3 Clean the pre-filter.



Remove grit with vacuum cleaner

4 Fit the air filter.

5 Attach the pre-filter and front panel.

Maintenance (Cont.)

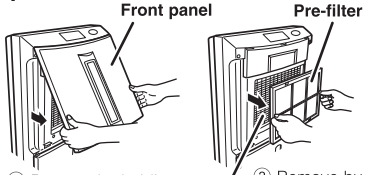
Once every three months

Air filter

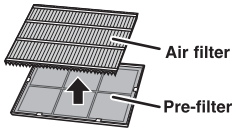
Soak the filter in water about once every three months.

For maintenance procedures see 10

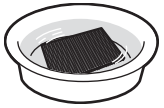
1 Remove the front panel and pre-filter.



2 Remove the air filter.



3 Soak the air filter in water.



Soak in cool to lukewarm water for 30 minutes.

Do not use detergent or hot water. Also, do not brush or rub while soaking as this may damage the filter.

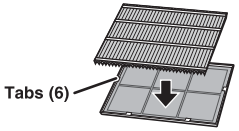
- Stains may remain on the filter, but should not affect performance.
- The filter can be soaked for a total of eight times.
  After that, replace with a new filter.

4 Dry the air filter.

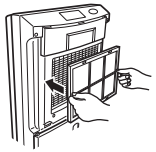
Do not hang with pegs as this may damage the filter.
Do not use the filter while wet.

5 Fit the air filter.

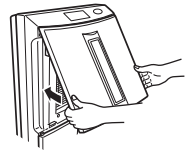
With the strips facing up, set the air filter inside the tabs on the pre-filter.



6 Attach the pre-filter and front panel.



① Attach by holding the tabs.



② Hook the top edge to the top part of the unit and push the bottom in.

Note) This page is extracted from the instruction manual.

Replacement Parts

The air filter is a consumable item.
Replace the filter when it becomes time for replacement.

Replacing the air filter

Although the air filter lasts roughly 2 years, replace it when:
- **You have soaked the filter 8 times.**
- **The air filter has turned brown due to cigarette smoke or black with dust.**

Filter life differs on usage and environmental conditions.

Remove the front panel and pre-filter to replace the air filter.
For maintenance procedures see 10

Parts sold separately

Air filter for replacement

- Type: MJPR-ECGFT
- Type code: 5C7 859

For these items contact your nearest Mitsubishi Electric dealer.

Storage and Disposal

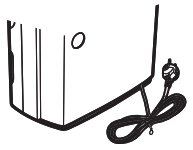
Storage

After switching the unit off, leave for one day until any water inside has had time to run off, then carry out the following steps.

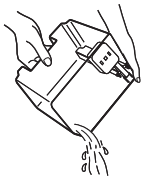
1 Perform drying inside. 17

Performing drying inside to prevent mildew growth is recommended.

2 Bundle power cord.

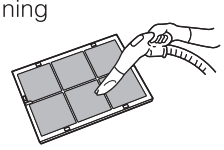


3 Remove the drainage water. 21



Empty the water tank and wipe away any remaining drops of water.

4 Clean the pre-filter. 23



Remove grit with vacuum cleaner

5 Store the unit.

- **When you are sure that all parts of the unit are dry, cover it with a cloth to keep it from dust.**
- **Store the unit in an upright position in a place not exposed to direct sunlight.**

When disposing the unit

Dispose according to the garbage regulations in your district.

- Air filter
  Material: PET and PS
- Unit
  Do not disassemble. Dispose according to the garbage regulations in your district.

12. Service Checklist

(1) Points to be checked after completing repairing

After completing repairing, check the all items below to prevent re-repair.

	Check items	Check
At installation	Was the proper tool used?	
	Are the parts on the parts catalog used?	
	Verify that there is no problem in the lead wire (layout and connection) and/or clamp.	
	Verify that there is no defect, such as lead wire caught in other parts, damage, and/or intermediate connection.	
	Verify that there is no defect, such as deteriorated or damaged power cord and/or intermediate connection.	
	Verify that there is no slack and/or damage to power cord.	
	Are the connectors and metal terminals inserted securely?	
	Verify that there is no abnormal sound of the motor etc.	
	If electrical parts are replaced, was the insulation performance checked?	
	Verify that there is no insufficient inserting or gap in the fitting and/or calking sections.	
	Is the cushioning attached without fail? Is the parts requires silicon coating surely coated with silicon?	
	Are the all sorts of specified screws on the parts catalog used?	
	Are the all sorts of packing, washers, etc. installed without fail?	
	Are the waterproofing and rust prevention performed on the products which require those treatment?	
Installation conditions	Is the unit installed at the flat place?	
	Is the unit installed at the stable place? (The unit is not easy to fall down?)	
	Is a firm ground selected for the installation place? (Be careful with a hollow floor, corrosion, etc.)	
	Is there enough space around the unit? (Is there no wall, ceiling, curtains, etc. near the unit?)	
	Verify that the unit is not installed where it is exposed to direct sunlight or near heat- generating devices.	
	Verify that the unit is not installed in a special environment. (places where chemicals are used or there is a lot of dust.)	
	Is the product which requires earthing correctly earthed? (Do not connect the earth wire to a water pipe or gas pipe.)	
	Is the installation criteria described in the instruction or installation manual fulfilled?	
Operation check	Is the power on when you turn it on?	
	Is the basic operation described in the instruction manual successfully performed?	
	Verify that there is no problem in operation around the open and close part, rotation part, slide part, etc.	
	Verify that no abnormal sound or smell is emitted.	
	Is the power off when you turn it off.	
Explanation after repair	Explain the content of repair, check, and/or adjustment to the customer well.	
	Tell the customer to read the instruction manual well to use this dehumidifier.	
	Tell the customer not to disassemble the product.	
	Explain to the customer if the installation place is not good or if there is more efficient way.	

13. Precautions for Disassembly and Reassembly

The following precautions should be observed in order to perform disassembly and reassembly safely and correctly.
The following diagrams indicate circumstances where danger can result from mishandling the unit.

⚠ **WARNING**	**Mishandling may result in fatal or serious injury, or fire.**
⚠ **CAUTION**	**Mishandling may result in minor or damage to your home or property etc.**

Meanings of graphic symbols are explained below.

Forbidden	**Always follow the instructions**	**Alert**

⚠ WARNING

Remove the power plug from the socket.

Failure to do so may cause electric shock or injuries.

When replacing parts, use the specified parts listed on the parts catalog.

Failure to do so may cause combustion, smoke, and/or malfunction,

Do not touch a rotating object until it completely stops.

The rotating object may catch your hand etc, and result in injuries.

Do not work with wet hands.

This may cause electric shock.

Check the wiring diagram before wiring processing.

Failure to do so may cause combustion, generation of smoke, and/or malfunction.

After the work, lay the wire out as it was before.

Failure to do so may cause combustion, generation of smoke, and/or malfunction.

Do not alter the product.

This may cause fire, electric shock, and/or injuries.

Comply with the law.

Follow the applicable laws and regulations, such as "Fire Prevention Ordinance" and "Electric Equipment Technical Standards." Failure to do so may cause fire and electric shock.

Use appropriate tools.

Failure to do so may result in an accident caused by contact failure or loose parts.

Earth the product which requires earthing correctly.

Incomplete earthing or connection to a gas pipe, water pipe, etc. may cause an explosion or electric shock.

Do not damage or process the power cord or lead wire.

This may cause fire, combustion, and/or electric shock.

Replace the damaged or deteriorated power cord or lead wire.

Failure to do so may cause fire, combustion, and/or electric shock.

⚠ CAUTION

Wear protective gloves.

Wear gloves

Failure to do so may result in injuries by the edge of metal, electric shock, and/or burns caused by contact with hot section.

Keep children away.

Keep away

Failure to do so may result in electric shock and/or injuries when moving the unit or using a measuring device.

Do not put the unit where it may burn.

Do not install unit

This may cause fire, or combustion.

Check the firmness of installation location.

Check

The product may fall down, which could cause an accident or injuries.

Perform operation check after reassembly.

Operation check

Failure to do so may result in an accident or malfunction.

Do not wash the unit with water.

No water

This may result in fire, combustion, or malfunction

Safety precautions for the inspection and service

1. When the service requires disassembly, be sure to remove the power cord from the outlet.
2. When it is necessary to perform the work with the power on, be careful not to touch the live part.
3. Use appropriate tools for the work.
4. Use the specified parts listed on the “Parts Catalog” of the applicable model.
5. Check the deterioration of the power cord and lead wire at service.
   Replace the damaged or deteriorated power cord and lead wire.
6. After the service, perform the operation check.
   Verify that the tank full detection works properly and the unit operates without a problem.

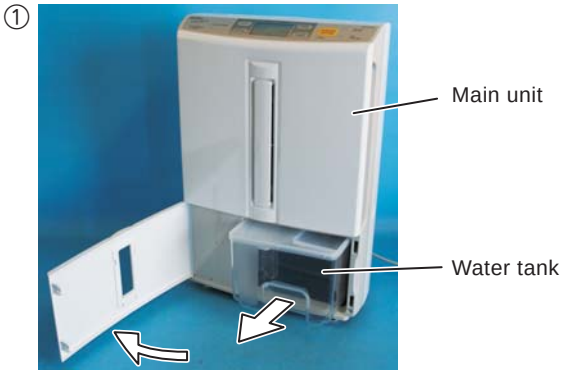
14. Disassembly and Reassembly Hints

【Precautions for disassembly】

- ●Connection should be performed without fail, especially when screws are used for it. Tighten the screws in that case.
- ●When the cable tie fixing the lead wire is cut, be sure to replace it with a new one.
- ●Removed lead wire should be fixed to a clamper etc. and perform wiring.

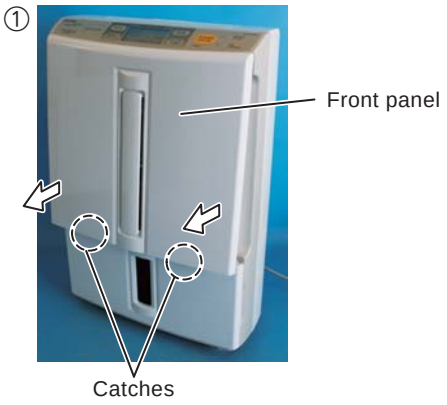
(1)Removing the water tank

①Open the front door and pull out the water tank.→(Removing the water tank)

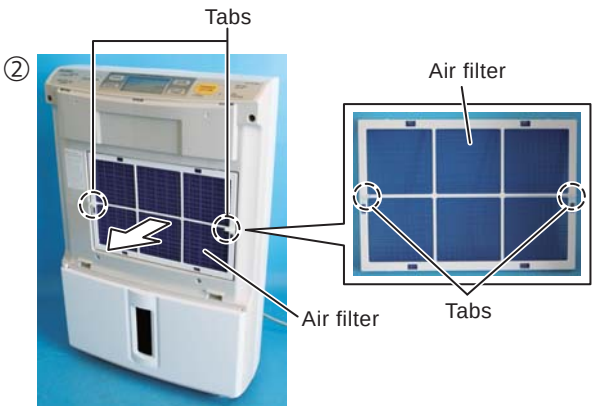


(2)Removing the front panel and air filter

①Push the front panel downward, and pull toward you (to release the catches on the bottom). Push up to remove. →(Removing the front panel)



②Hold the tabs and pull the air filter toward you to remove. →(Removing the air filter)



(3)Removing and replacing the front casing assembly

①Remove the water tank.
→(Reference:(1)Removing the water tank)

②Removing the front panel assembly and air filter.
→(Reference:(2)Removing the front panel and air filter)

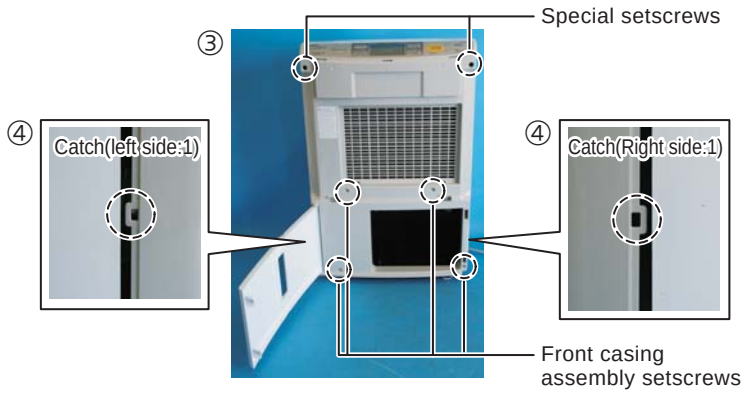
③Remove the special setscrews(2) and front casing assembly setscrews(4).

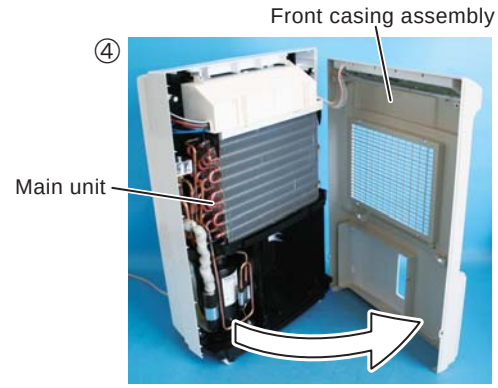
④Detach the catches(2) from the side of front casing assembly and pull the front casing assembly toward you so that it is away from the main unit.

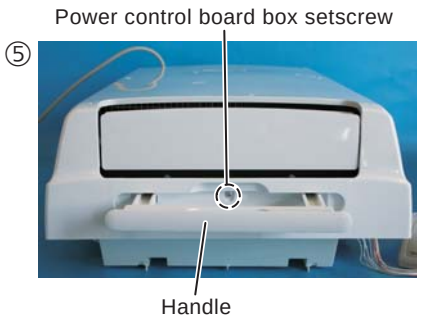
⑤Raise the handle and remove the power control board box setscrew.

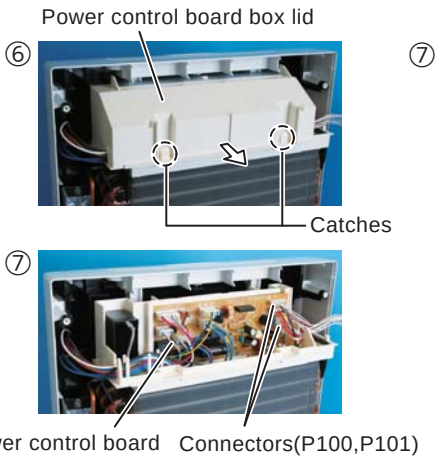
⑥Pull the power control board box toward you, detach the catches(2) on the box lid (one on each side), and remove the lid.

⑦Remove connectors P100 and P101 from the power control board and remove the front casing assembly.→(Removing and replacing the front casing assembly)





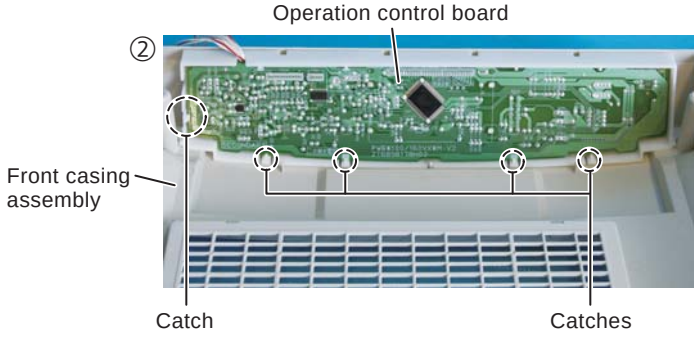




(4)Removing and replacing the operation control board

①Remove the front casing assembly.
→(Reference:Removing and replacing the front casing assembly)

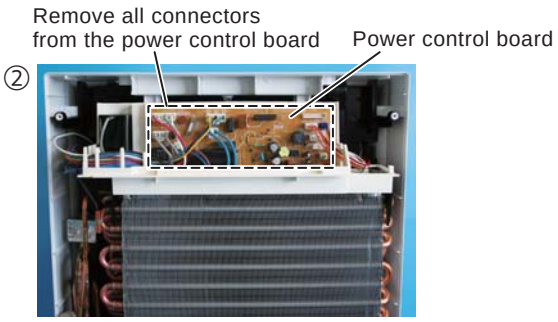
②Detach the catches(bottom:4,right side:1) to remove the operation control board.→(Removing and replacing the operation control board)



(5)Removing and replacing the power control board

①Remove the power control board box lid.
→(Reference:(3)Removing and replacing the front casing assembly)

②Remove all connectors from the power control board to remove the power control board.→(Removing and replacing the power control board)

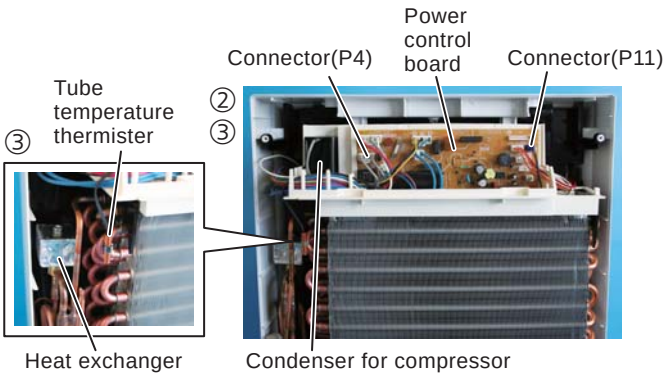


(6)Removing and replacing the condenser for compressor and tube temperature thermister

①Remove the power control board box lid.
→(Reference:(3)Removing and replacing the front casing assembly)

②Remove the connector P4 to remove the condenser for compressor from the power control board.→(Removing and replacing the condenser for compressor)

③Remove the connector P11 from the power control board to remove the tube temperature thermister from the right side of heat exchanger.
→(Removing and replacing the temperature/humidity sensor)



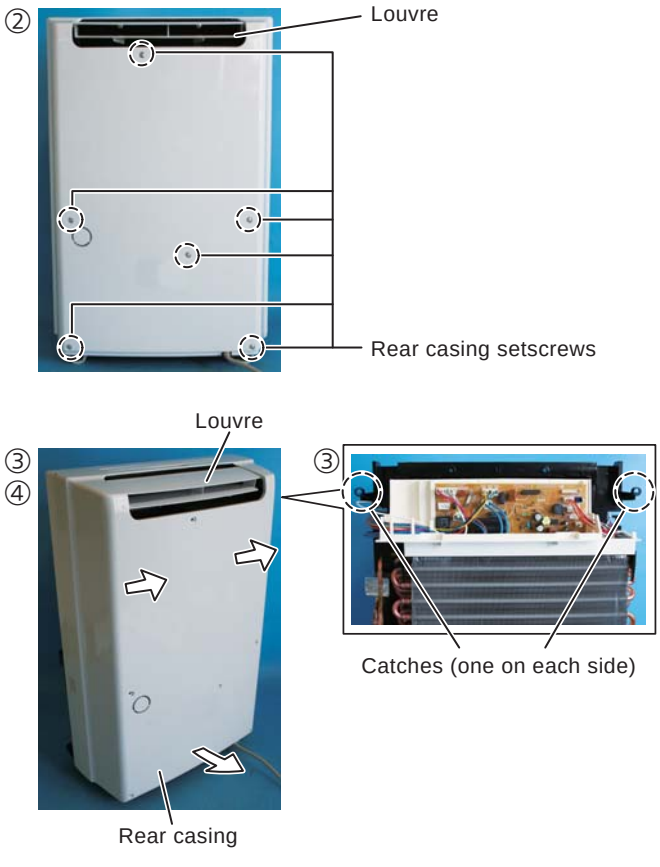
(7)Removing the rear casing

①Remove the front casing.
→(Reference:(3)Removing and replacing the front casing assembly)

②Detach the rear casing setscrews(6).

③Detach the screw stop bosses(2) on the top of rear casing and the guides(2) on the side of the fan assembly.

④Lift the rear casing upward, and remove from under the louvre.→(removing the rear casing)



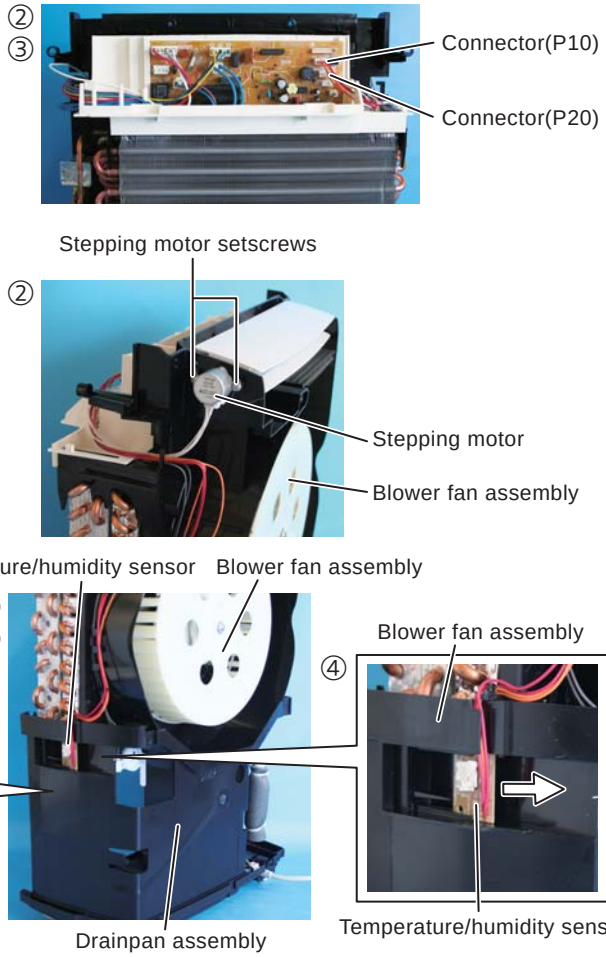
(8)Removing and replacing the stepping motor and temperature/humidity sensor

①Remove the rear casing.→(Reference: (7)Removing the rear casing)

②Remove the connector P20 and stepping motor setscrews(2) to remove the stepping motor. →(Removing and replacing the stepping motor)

③Remove the connector P10 and tape to separate the lead wire from the blower fan guide casing.

④Detach the catch(1) from the blower fan assembly to remove the temperature/humidity sensor.→(Removing and replacing the temperature/humidity sensor)



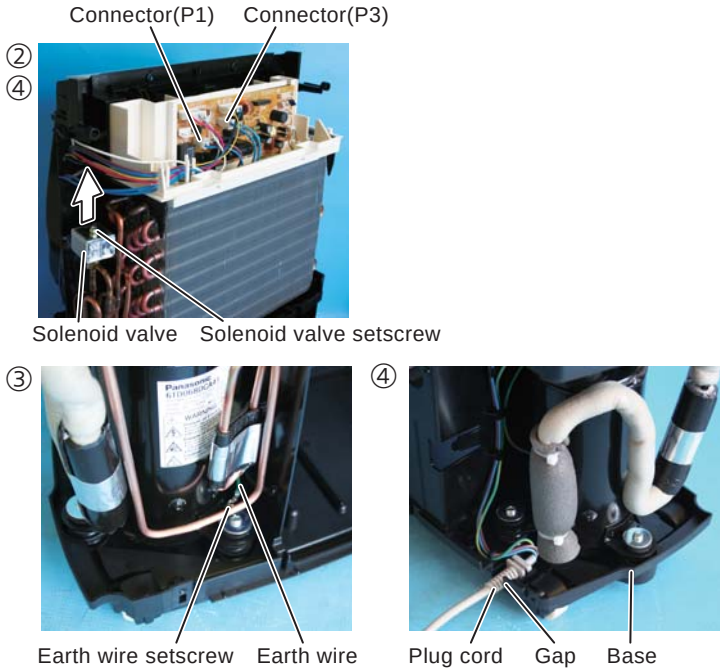
(9)Removing and replacing the solenoid valve and plug cord

①Remove the rear casing. →(Reference:(7)Removing the rear casing)

②Remove the connector P3 from the power control board and remove the solenoid valve setscrew(1) to remove the solenoid valve. →(Removing and replacing the solenoid valve)

③Remove the earth wire setscrew(1) to remove the earth wire.

④Remove the connector P1 and separate the power plug cord wire from the clamper to remove the power plug from the gap of the base.→(Removing and replacing the plug cord)



(10)Removing and replacing the blower fan and blower fan motor

①Removing the rear casing.
→(Reference:(7)Removing the rear casing)

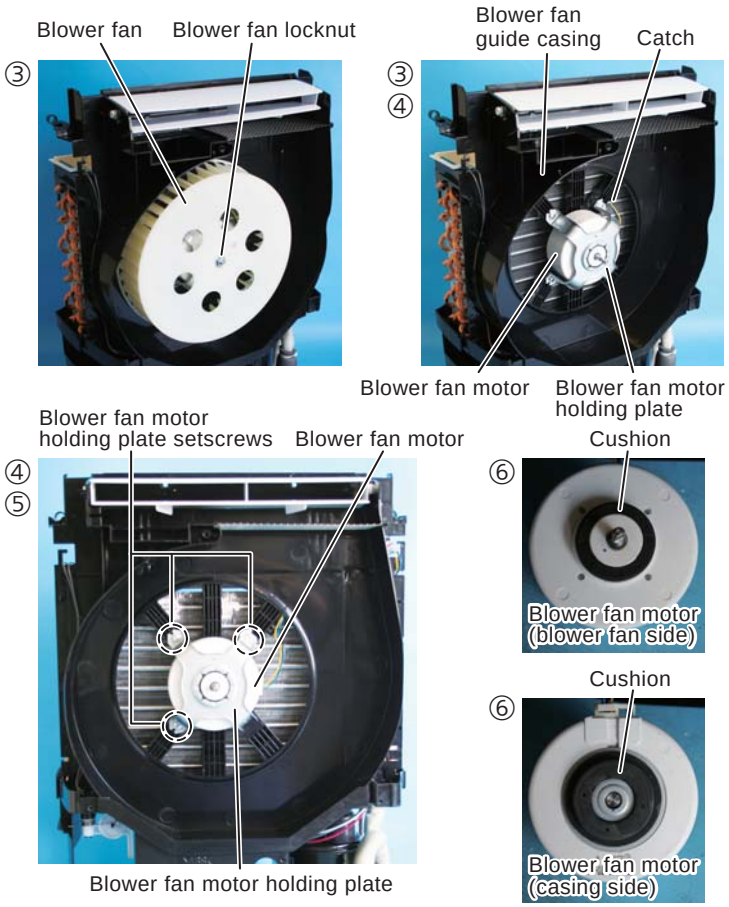
②Remove the power control board.
→(Reference:(5)Removing and replacing the power control board)

③Remove the blower fan locknut(1) to remove the blower fan.
→(Removing and replacing the blower fan)

④Detach the catch which fixes the blower fan motor lead wires to blower fan guide casing and detach lead wires from the blower fan guide casing.

⑤Remove the blower fan motor holding plate setscrews(3).

⑥Remove the blower fan motor holding plate and cushions to remove the blower fan motor.
→(Removing and replacing the blower fan motor)



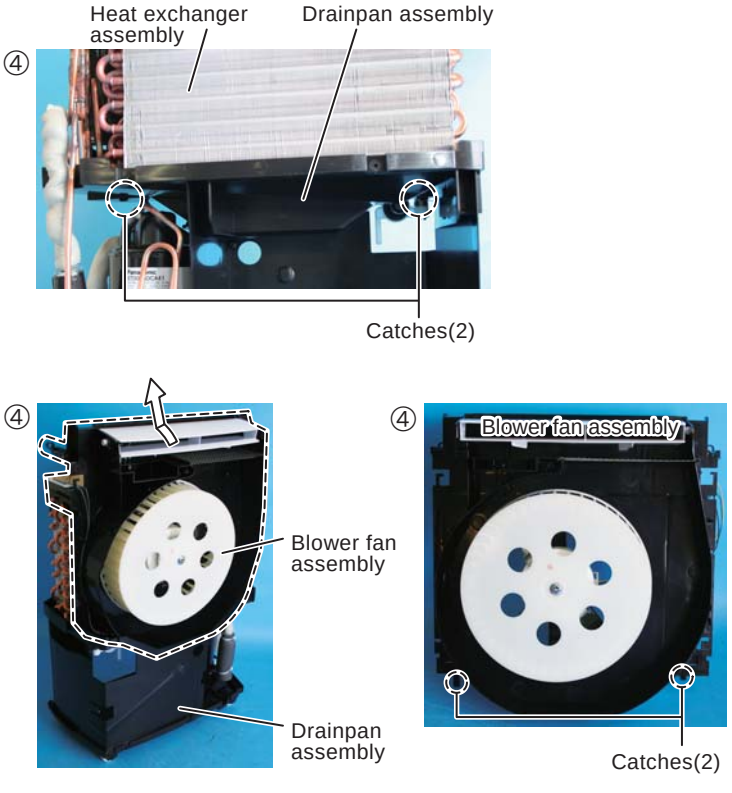
(11)Removing and replacing the blower fan assembly

①Removing the rear casing.
→(Reference:(7)Removing the rear casing)

②Removing the power control board.→(Reference:(5)Removing and replacing the power control board)

③Remove the lead wires from the clampers on the blower fan guide casing sides.

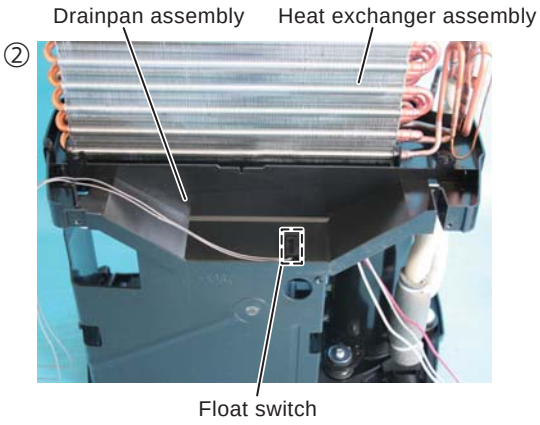
④Detach the catches from the blower fan assembly and drainpan assembly.Then Pull upward the blower fan assembly leaning toward the heat exchanger to remove the blower fan assembly.
→(Removing and replacing the blower fan assembly)



(12)Removing and replacing the float switch

①Remove the blower fan assembly.
→(Reference:(11)Removing and replacing the blower fan assembly)

②Remove the float switch form the drainpan assembly.→(Removing and replacing the float switch)

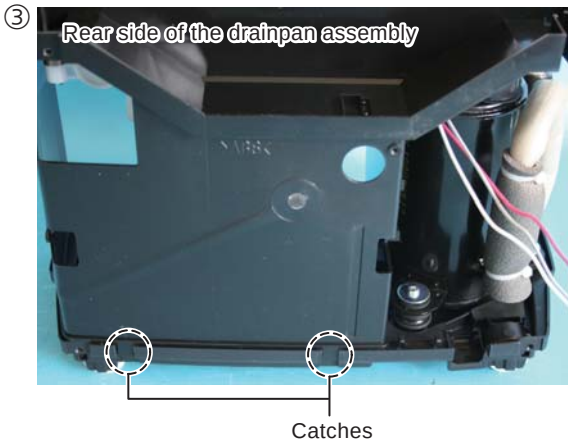


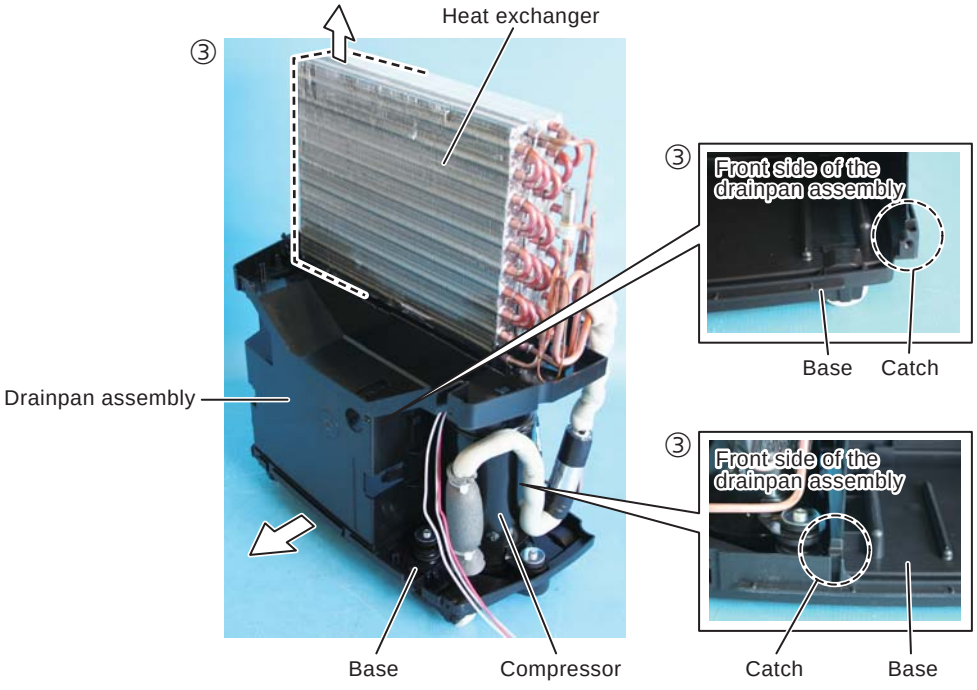
(13)Removing the drainpan

①Remove the blower fan assembly.
→(Reference:(11)Removing and replacing the blower fan assembly)

②Separate all the lead wires from the clampers on the drainpan assembly.

③Detach the catches(2) on the rear side of drainpan assembly and catches(2) on the front side of drainpan assembly. Pull the base backward while lifting the right side of the heat exchanger and remove the drainpan assembly from the base.→(Removing the drainpan assembly)



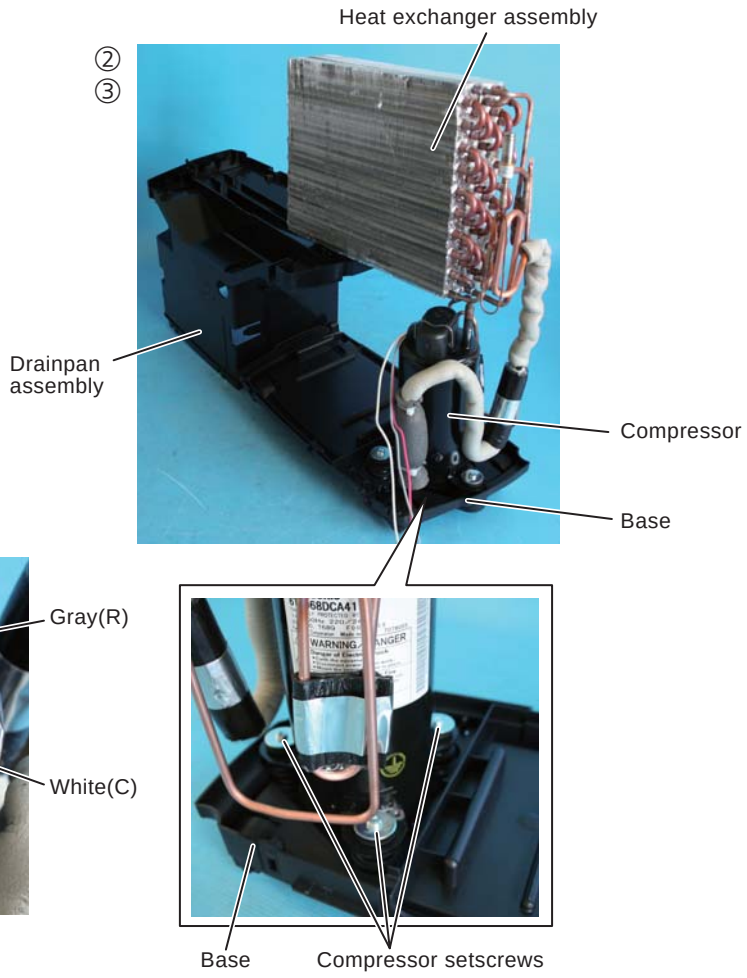


(14)Removing and replacing the compressor/heat exchanger assembly

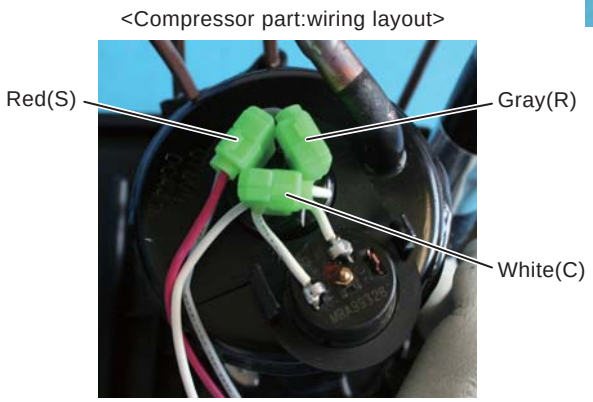
①Remove the drainpan assembly.
→(Reference:(13)Removing the drainpan assembly)

②Put a support under the right side of the heat exchanger assembly. Remove the compressor setscrews (3).

③Remove the compressor and heat exchanger assembly from the base.→(Removing and replacing the compressor/heat exchanger)

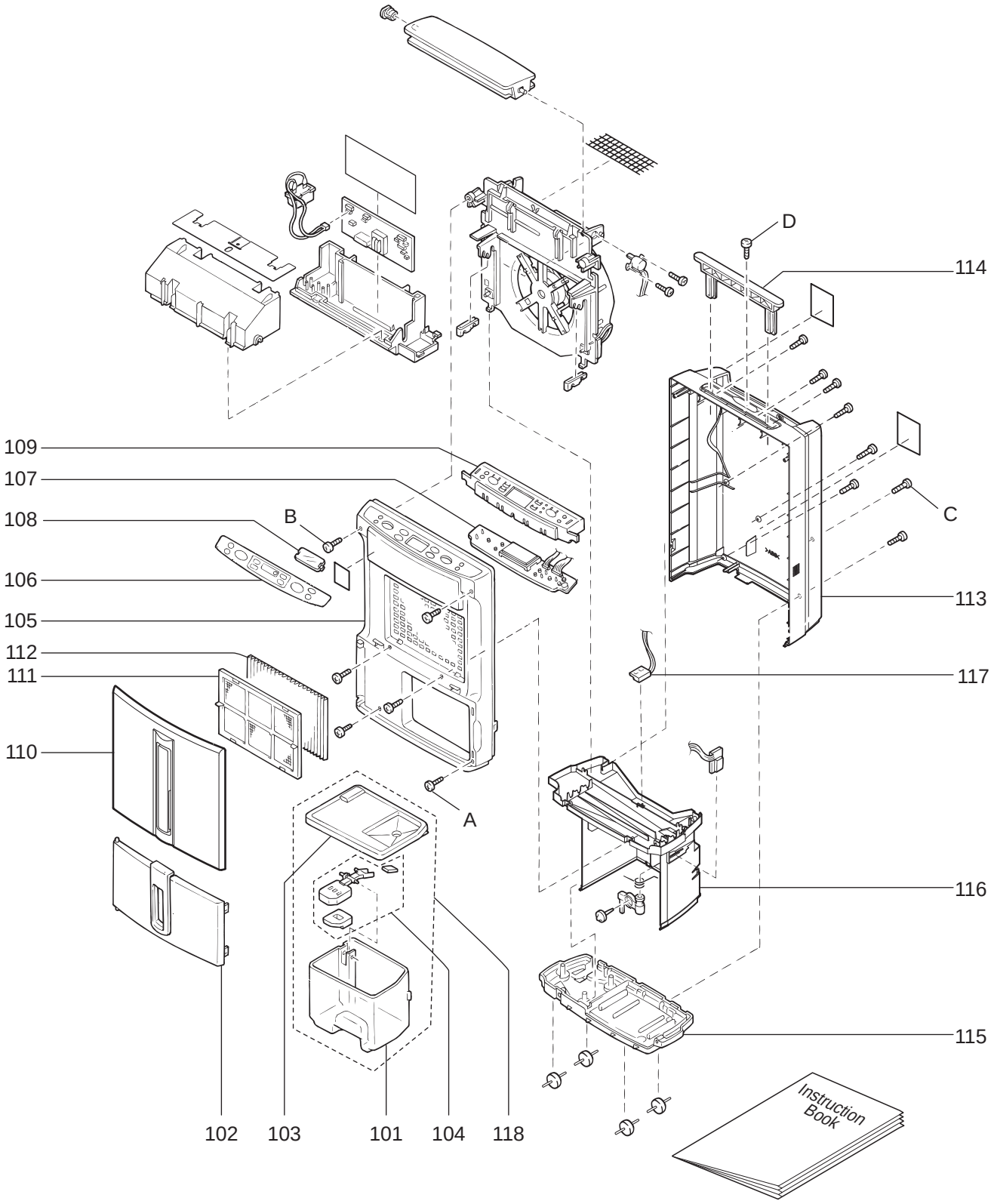


<Compressor part:wiring layout>



15. Parts Catalog

Model MJ-E21BG-S1-IT Exploded View
<Casing and Structure>



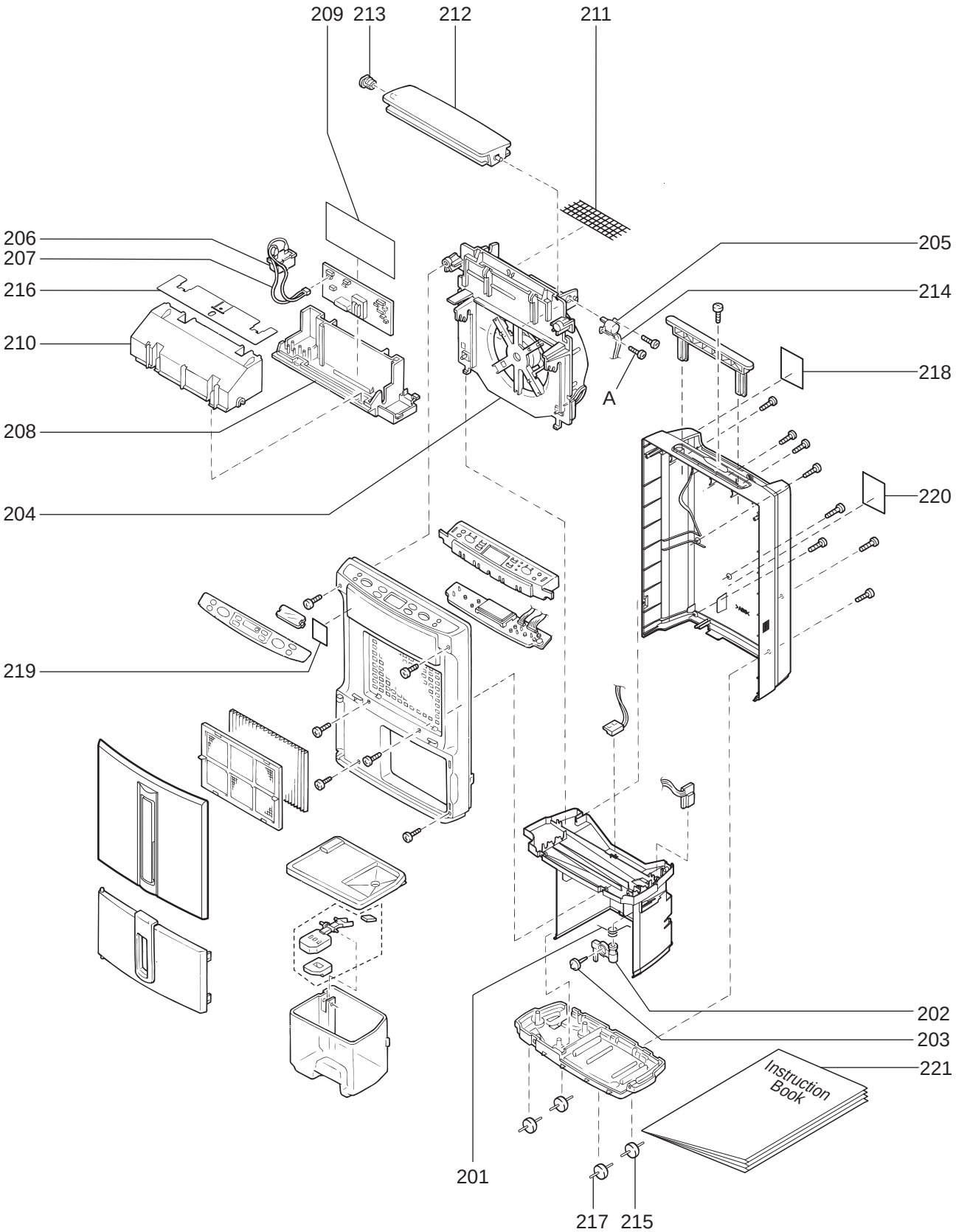
Model MJ-E21BG-S1-IT Parts List
<Casing and Structure>

Notes:
1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by ⚠ and ▭ are of critical importance for sustaining safety and performance. Use specified parts atreplacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

Exploded View Matching No.	Part Name	Part No.	Safety Part	Pc/1 unit	Compatibility/Miscellaneous
(101)	TANK∗160VX	M22 C89 345	⚠	1	E100BF-C
102	COVER-T∗ASSY-E16VX-W	M22 C39 741		1	E22VX
103	LID-TANK∗160VX	M22 B29 697		1	160VX
104	FLOAT∗ASSY-100S(X)	M22 B25 379		1	100VX
105	CASE-F∗100VX-C	M22 B25 233H		1	100VX
106	ESC-SW∗E21BG-S1-IT	M22 C96 440		1	(New)
(107)	PCA∗E21BG-S1-IT∗M	M22 C96 689	⚠	1	(New)
108	CLAER-PLATE∗E16VX	M22 C62 449		1	E16AX-H
109	FIXTURE-PCA-M∗100T(X)	M22 B19 781		1	100T
110	PANEL-F∗ASSY-E16VX-W	M22 C39 001		1	E22VX
111	FILTER∗ASSY-E82CF	M22 C84 320		1	E82CF-H
112	FILTER-MJPR-ECGFT	M48 5C7 859		1	Expendable item E92CG-TW
113	CASE-R∗160VX	M22 C56 310R		1	E22VX-C
114	HANDLE∗100/160V(X)	M22 B25 063		1	100VX
115	BASE∗EBG	M22 C96 200		1	(New)
116	DRAINPAN∗E22WX	M22 C73 340		1	E21CX-S1-IT
(117)	SWITCH-LEVEL∗160WX	M22 C44 501	⚠	1	E16VX-S1-IT
(118)	TANK∗ASSY-160VX	M22 C89 345T	⚠	1	E100BF-C
A	SCW-PL-TBFZR 4X12	———		4	
B	SCW-MPFZR M4X14-TORX	———		2	
C	SCW-PL-TBFZR 4X12	———		8	
D	SCW-PL-TBFZR 4X16	———		1	

*1. If the part is out of production, you may be required to use a common part.
*2. Parts found installed in products may have a different part number from service parts. However, there should be no difference inperformance and can be installed.

Model MJ-E21BG-S1-IT Exploded View
<Casing and Structure>



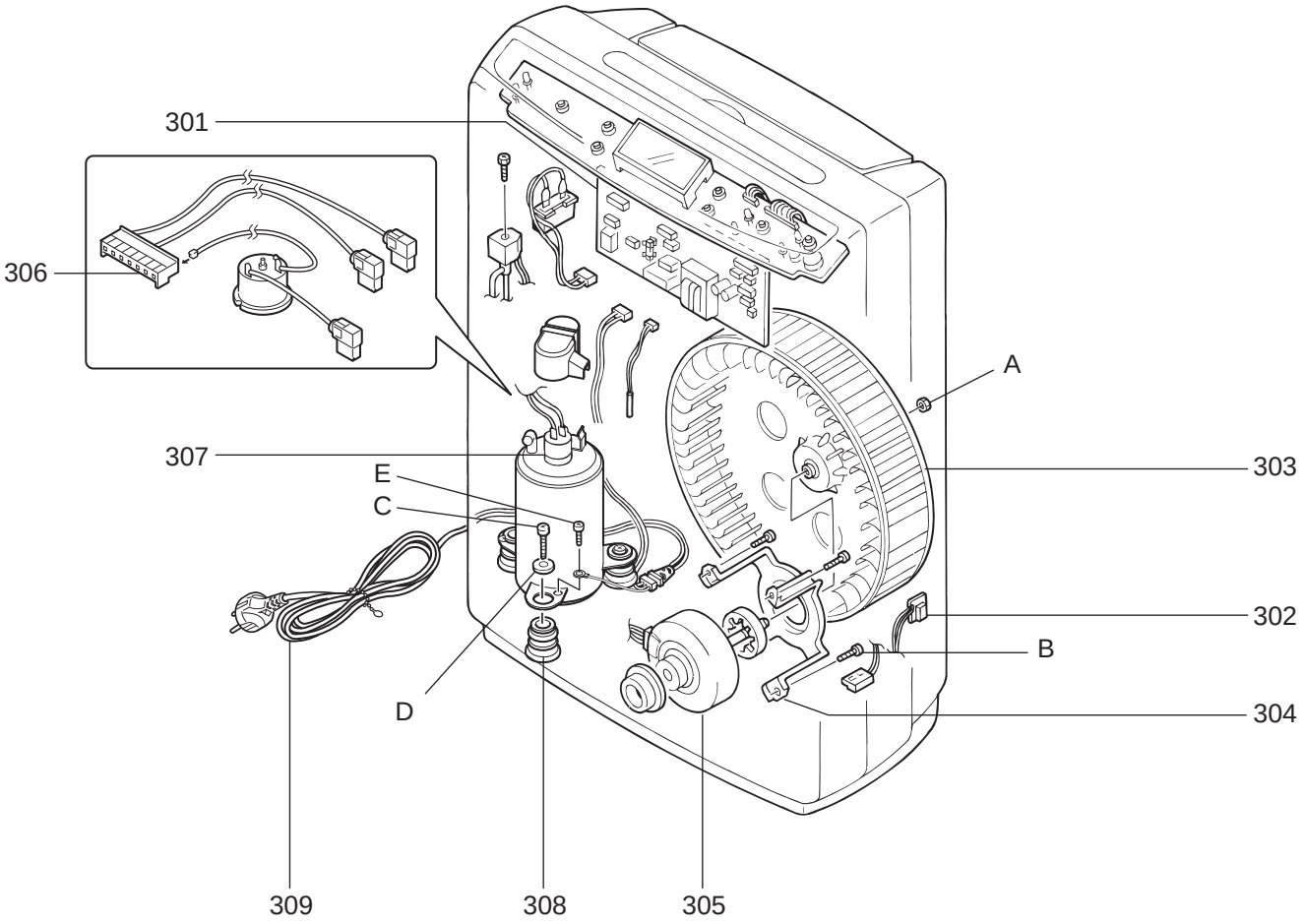
Model MJ-E21BG-S1-IT Parts List
<Casing and Structure>

Notes:
1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by ⚠ and ▭ are of critical importance for sustaining safety and performance. Use specified parts atreplacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

Exploded View Matching No.	Part Name	Part No.	Safety Part	Pc/1 unit	Compatibility/Miscellaneous
201	SPRING-S∗100S(X)	M22 B15 128		1	100SX
202	STOPPER-PLATE∗100S(X)	M22 B15 788		1	100SX
203	PACKING-RUB	M22 J67 923		1	100NX
204	CASING-E22WX	M22 C73 310		1	E21CX-S1-IT
205	STEPPING-MOTOR∗CX	M22 B46 620S		1	H100CX
206	RUN CAPACITOR∗E26RX	M22 C15 353		1	440V 8.0UF E26RX-H
207	LEAD WIRE-R/C∗140TX	M22 B19 130		1	100T
208	BOX-PCA∗S100D	M22 C79 311		1	E100WX-TW2
209	INS-PLATE-MICA∗S100D	M22 B59 730		1	E100WX-TW1
210	COVER-BOX∗S100D	M22 C79 320		1	E100WX-TW2
211	NET-100B	M22 B41 360		1	S100B
212	LOUVER-V(X)	M22 B25 045		1	100VX
213	SUPPORT-LOUVER∗S(X)	M22 B15 036		1	100SX
214	LEAD WIRE S/M∗VX	———		1	
215	WHEEL∗P(X)	M22 J90 908		4	100P
216	SUPPORT-HANDLE∗160WX	M22 C99 261		1	E20BG-E1
217	SHAFT-B∗HX	M22 B70 100		4	100HX
218	ESC-PL∗E22VX	M22 C59 468		1	E22WX-H-C
219	ESC-FILTER∗E22WX	M22 C58 468F		1	E26WX-H
220	NAME-PL∗E21BG-S1-IT	M22 C96 450		1	(New)
221	I.B∗E21BG-S1-IT	M22 C96 936		1	(New)
–	P-CASE∗E21BG-S1-IT	M22 C96 754		1	(New)
A	SCW-TPFZR 3X8N	———		2	

*1. If the part is out of production, you may be required to use a common part.
*2. Parts found installed in products may have a different part number from service parts. However, there should be no difference inperformance and can be installed.

Model MJ-E21BG-S1-IT Exploded View
<Electrical Parts>



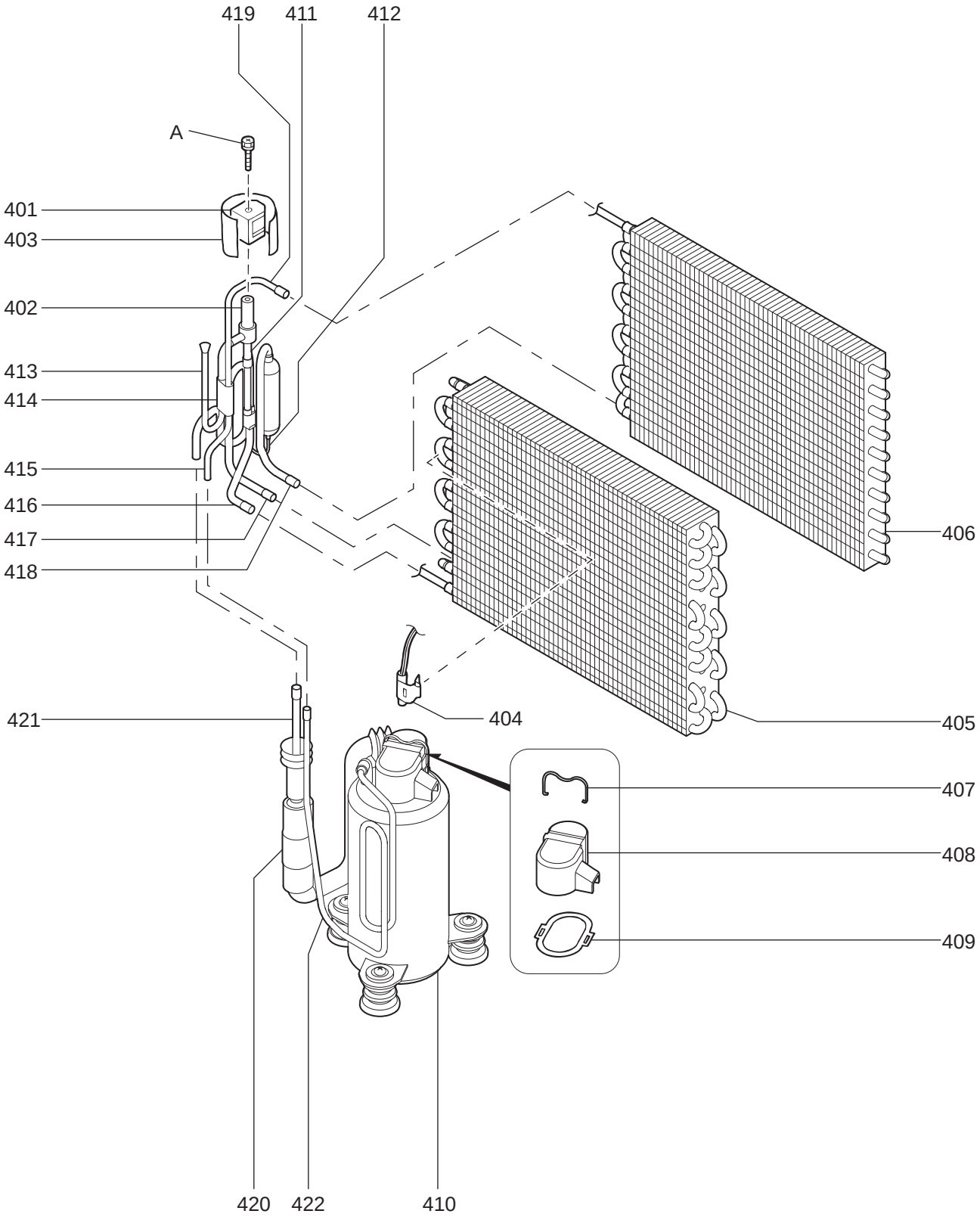
Model MJ-E21BG-S1-IT Parts List
<Electrical Parts>

Notes:
1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by ⚠ and ▭ are of critical importance for sustaining safety and performance. Use specified parts atreplacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

Exploded View Matching No.	Part Name	Part No.	Safety Part	Pc/1 unit	Compatibility/Miscellaneous
(301)	PBA-T∗E14CG∗P	M22 C92 689	⚠	1	E14CG-S1-SWE
302	SENSOR∗HUM-E22WX	M22 C73 150		1	E21CX-S1-IT
303	FAN-S100D∗ASSY	M22 B25 500		1	100VX
304	HOLDING PLATE-M∗NX-R	M22 C98 260		1	E14EG-E1
305	MOTOR-E22WX	M22 C73 620		1	E21CX-S1-IT
306	LEAD WIRE-C/P∗EV(X)	———		1	
307	MOTOR PRO∗ASSY-E22VX	M22 C59 502		1	Lead wire attached E22WX-H
308	RUBBER-MOUNT∗S(X)	M22 B13 511		3	180SX
309	PLUG CORD∗EVX-K/S1	M22 C60 509		1	E100VX-K
A	NUT-LFZR M6	M22 C60 041		1	
B	SCW-PL-TBFZR 4X12	———		3	
C	SCW-TPFZR 5X35M	———		3	
D	SPL WASHER-R	———		3	
E	SCW-BPBN M4X6	———		1	

*1. If the part is out of production, you may be required to use a common part.
*2. Parts found installed in products may have a different part number from service parts. However, there should be no difference inperformance and can be installed.

Model MJ-E21BG-S1-IT Exploded View
<Compressor Parts>



Model MJ-E21BG-S1-IT Parts List
<Compressor Parts>

Notes:
1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by ⚠ and ▭ are of critical importance for sustaining safety and performance. Use specified parts atreplacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

Exploded View Matching No.	Part Name	Part No.	Safety Part	Pc/1 unit	Compatibility/Miscellaneous
401	S/COIL TAPE∗ASSY-EDX	M22 C78 629		1	220-240V E140DX-H
(402)	SOLENOID VALVE-R	M22 C84 629	⚠	1	E82CF-H
403	TAPE	———		1	
404	THERMISTOR-EVA∗CG	M22 C91 555		1	E92CG-TW
(405)	COOLER∗E22WX	M22 C77 390	⚠	1	E100DX-H
406	CONDENSER∗E22WX	M22 C77 390H		1	E100DX-H
407	CLIP∗1400PX	M22 B60 069		1	E180VX-TW1
408	COVER TERMINAL∗1400	M22 J93 018		1	160PX
409	PACKING∗1400PX	M22 J93 923		1	160PX
410	COMP∗6TD068DCA41	M22 C77 118		1	6TD068DCA41 E100DX-H
411	PIPE-SV-CT∗E22WX	———		1	
412	PIPE-CT∗E100DX	———		1	
413	CHARGE-PIPE∗CG	———		1	
(414)	JOINT-E16V(X)	M22 C91 420	⚠	1	E92CG-TW
415	PIPE-DJ∗EBG	———		1	
416	PIPE-IN-COOL∗EBG	———		1	
417	PIPE-OUT-COOL∗EBG	———		1	
418	PIPE-OUT-CON∗E22WX	———		1	
419	PIPE-IN-CON∗EBG	———		1	
420	PIPE COVER∗COMP	M22 C92 320		1	E14CG-S1-SWE
421	PIPE-SUC∗E100DX∗ASSY	M22 C88 420S		1	E80CF-C
422	PIPE-DIS∗E100DX∗ASSY	M22 C96 420		1	(New) Damper attached
A	SCREW SEMS M5X0.8X6	———		1	

*1. If the part is out of production, you may be required to use a common part.
*2. Parts found installed in products may have a different part number from service parts. However, there should be no difference inperformance and can be installed.