June 2023 No. U201-A

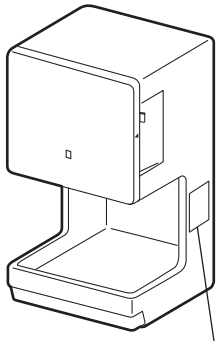
MITSUBISHI ELECTRIC

HAND DRYER

HANDBOOK

MODELS

JT-MC106G-W-NA



Warning:
Repair work must be performed by the manufacturer, its service agent or a similarly qualified person in order to avoid hazards.

MITSUBISHI ELECTRIC CORPORATION

Contents

1. Safety precautions

- Read the following precautions thoroughly before the maintenance, and then inspect and repair the product in a safe manner.
- The types and levels of danger that may arise if the product is handled incorrectly are described with the warning symbols shown below.

⚠ Warning

Incorrect handling of the product may result in serious injury or death.

◇ Electric shock

If you must inspect the circuitry while the power is on, do not touch the live parts.

(Failure to heed this warning may result in electric shock.)

Caution against electric shock

◇ Modification is prohibited

Do not modify the unit.

(Failure to heed this warning may result in electric shock, fire and/or injury.)

Prohibited

◇ Proper electric work

- Use the electric wires designated for electric work, and conduct electric work in accordance with the "Electric Installation Engineering Standard", the "Indoor Wiring Regulations" and the installation instructions.
- Make sure that the terminals and fixed wiring are securely connected.

(Improper connection or wiring installation may result in electric shock and/or fire.)

Be sure to follow this instruction.

◇ Scratches and deterioration

Make sure to replace scratched and/or deteriorated wiring and lead wires.

(Failure to heed this warning may result in electric shock and/or fire.)

Be sure to follow this instruction.

◇ Turn off the power

Make sure to turn off the circuit breaker prior to starting repair work. (The charge voltage in the circuitry remains for another 30 seconds or so, even after the power is turned off and the LED is unlit; therefore, wait for at least 30 seconds before disassembling the product.)

(Failure to heed this warning may result in electric shock.)

Be sure to follow this instruction.

◇ Use proper parts and tools

For repair, be sure to use the parts listed in the service parts list of the applicable model and use the proper tools.

(Failure to heed this warning may result in electric shock, fire and/or injury.)

Be sure to follow this instruction.

◇ Check insulation

Upon completing repair work, always measure the insulation resistance. Verify that it is at least 10 MΩ (with a 500-V DC insulation resistance tester), and then turn on the power.

(Inadequate insulation may result in electric shock.)

Be sure to follow this instruction.

⚠ Caution

Incorrect handling of the product may result in injury or damage to properties including buildings and equipment.

◇ Wear gloves

Always wear a pair of gloves during inspection or repair work.

(Failure to heed this caution may result in injury.)

Be sure to follow this instruction.

Request for repair

- Before repairs, take the product off the wall.
- Inspect the grounding condition, and repair it if it is incomplete. Make sure that a circuit breaker or an overload protection device is installed, if it is not installed, recommend the dealer to install one.
- Check whether the filter and the drain tank are installed securely in place.
- Do not leave a towel or other objects in the hand-drying area.
- Never place any objects on the main body nor cover it.
- Make sure that the product is not being used in any of the following locations:
  - Outdoors
  - Locations where the temperature could be lower than 0ºC
  - Locations where the temperature could be higher than 40ºC
  - Locations where there is a lot of dust
  - Locations where there is a lot of condensation
  - Locations where salt damage could occur
  - Vehicles (including ships and airplanes)
  - Locations where corrosive, neutral, or reductive gases are present
  - Near food or tableware
  - Kitchens
  - Locations where the product may come into direct contact with water (Where there is a risk of water splashing)
  - Locations where the product is in direct sunlight or strong light (It may cause sensor malfunction)
  - Rooms that have a sterilization basin, swimming pools, or bathrooms

- Make sure that the product operates properly upon completion of repair. Clean the product and the surrounding area, and then notify the customer of the completion of repair.

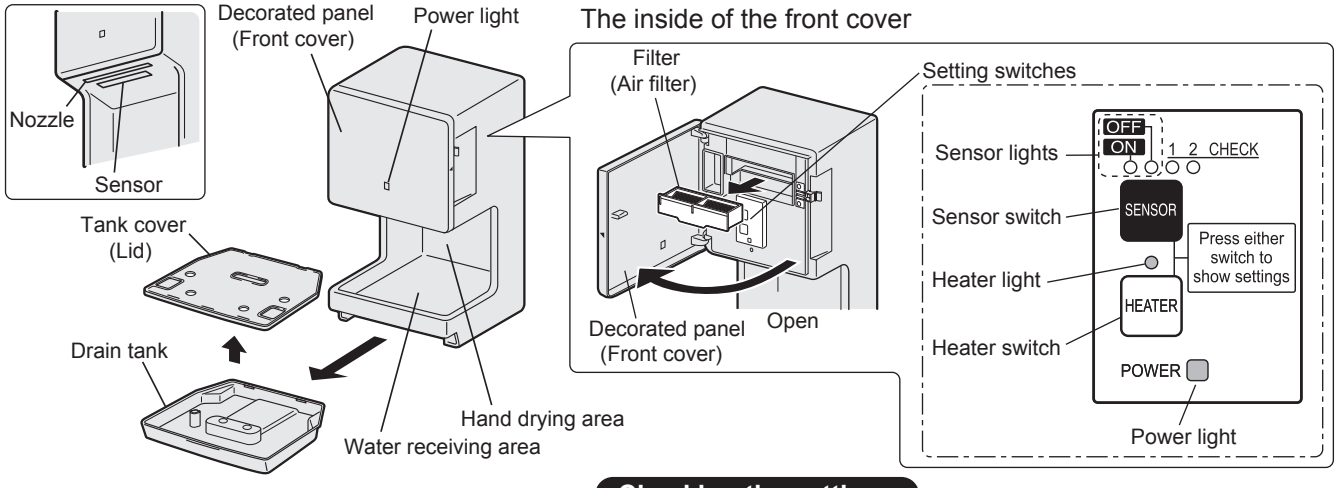
2. Features

- Although compact in size, easy-to-use with a wide hand drying area
- The wave nozzle has reduced power consumption and noise.
- Joints of hand drying area have been reduced.
- Exteriors can be cleaned by wiping with alcohol.
- The square design matches various architectural space.

3. Names and functions of components

(1) Names of components

*Shaded areas in the figure indicate antibacterial material (excluding nozzle areas).



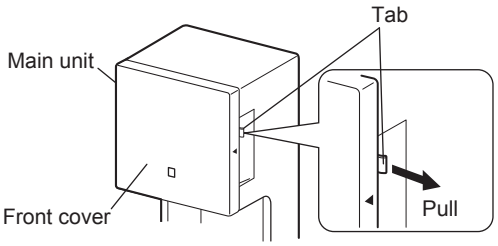
Checking the settings

Once settings are made, the heater light and sensor lights turn off after about 10 seconds (to save energy).
To check the settings, press either the heater or sensor switch.

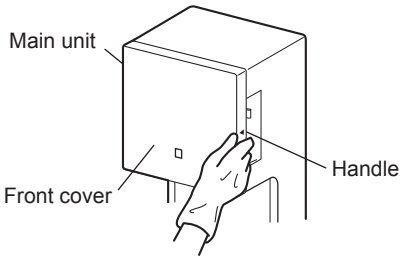
(2) How to open/close the front cover

How to open the front cover

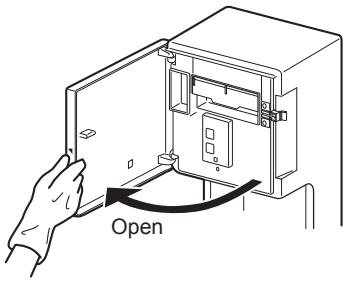
1. Pull the tab to unlock the front cover.



2. Hold the handle on the right hand side of the main unit.



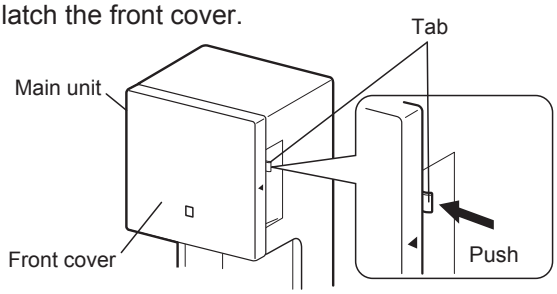
3. Open the front cover.



How to close the front cover

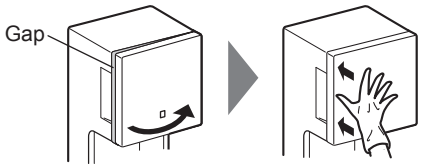
Close the front cover in the reverse order of opening procedure.

Close the front cover so that there is no gap between the front cover and the main unit, and push the tab in to latch the front cover.



NOTE

- Check to see that the front cover is fitted securely.
  Press the upper and lower parts of the front cover against the main unit to close the cover securely.



1 Close the right side.

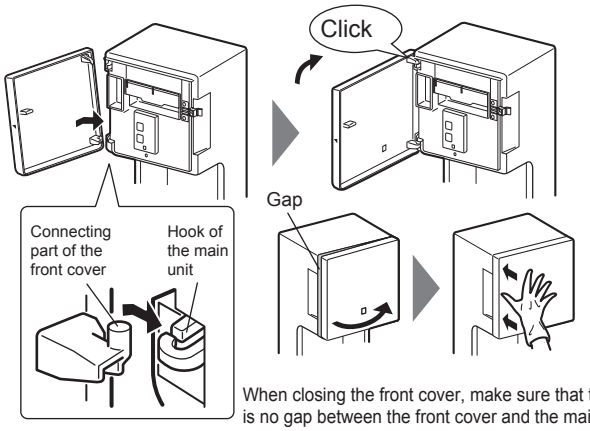
2 Close the left side (both the upper and lower parts).

Notes for opening/closing the front cover

If the front cover comes off, reattach it by the following procedures.

*If the front cover is opened too wide, it will come off to prevent damage to the main unit.

1. Fit the lower connecting part of the removed front cover into the lower hook of the main unit.
2. Fit the upper connecting part of the front cover into the upper hook of the main unit.
3. Check that the front cover is attached securely.



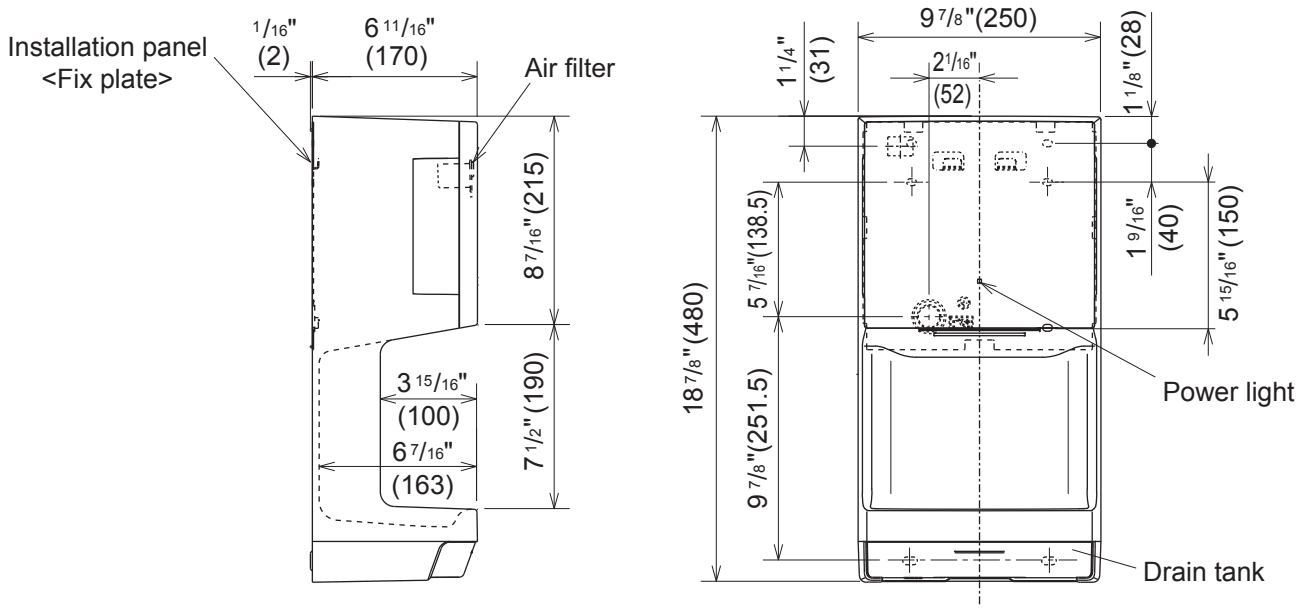
When closing the front cover, make sure that there is no gap between the front cover and the main unit.

4. Specifications

Model	Rated voltage (Vac)	Rated frequency (Hz)	Heater	Rated current (A)	Power consumption (W)	Air speed	Noise (dB (A))	Weight	Drain tank capacity
JT-MC106G-W-NA	120 Single phase	60	ON	7.6	890	355 mph (150 m/s)	64	11.5 lb (5.2 kg)	1.3 pt (0.6 ℓ)
			OFF	5.2	600				

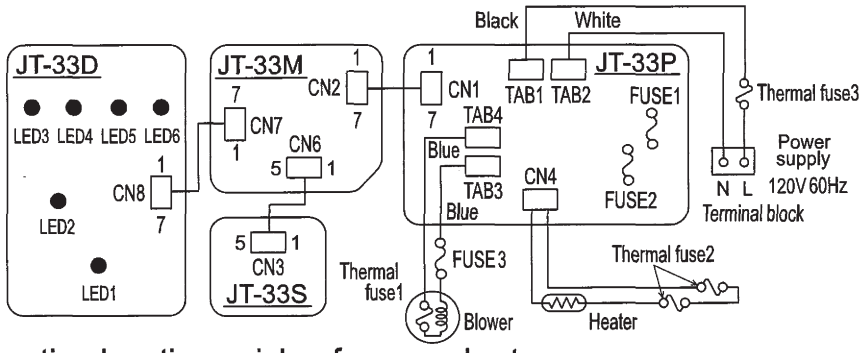
• Air speed is calculated from the static pressure measured by the pitot tube (at the nozzle).
• Noise is the A range value measured in an anechoic room. (Average of the three points: 2 m from the front and both sides of the unit.)

5. Outside dimensions



Unit: Inches (mm)

6. Electrical wiring diagram



Current fuse
Courant fusibles
FUSE1 ····· 250 V - 20 A
FUSE2 ····· 250 V - 5 A
FUSE3 ····· 250 V - 10 A

Thermal fuse fusion temperature
Température de fusion du fusible thermique
····· 94°C

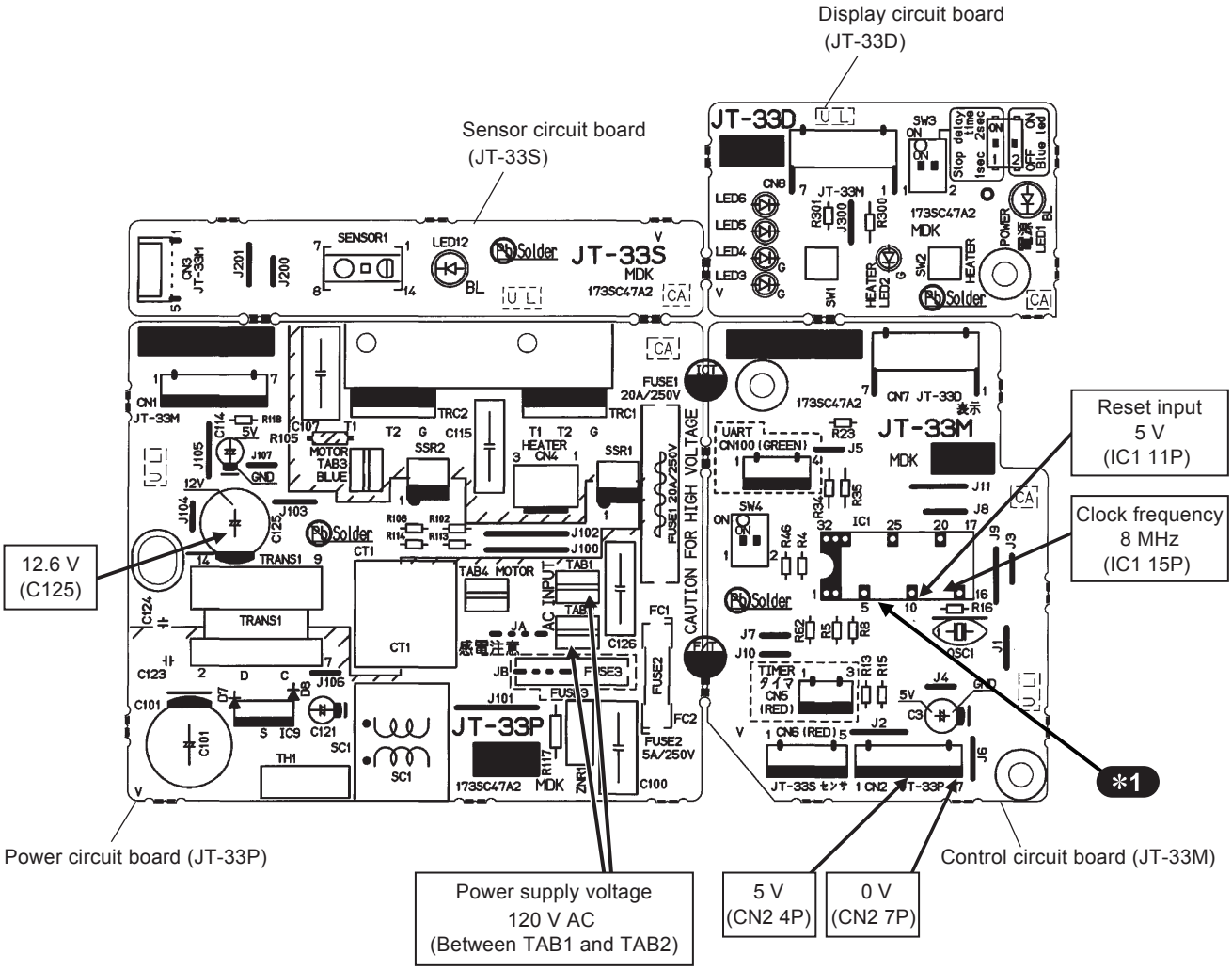
Malfunction location quick reference chart
Mauvais fonctionnement tableau de référence rapide

○ : Lit Allumé ☆ : Blinking Clignote ● : Unlit Eteint

Detected content Défaut détecté	Cause Cause	Power LED1	Heater LED2	Sensor ON LED3	Sensor OFF LED4	Check 1 LED5	Check 2 LED6
Tamper-proof timer Minuterie contre tripotage	Insertion of foreign objects, dirty sensor Insertion de corps étrangers, capteur sale	☆	○ or ou ●			●	●
Power supply error Erreur d'alimentation	Noise of power supply Bruit de l'alimentation	☆	●	☆	☆	●	☆
Motor error Erreur du moteur	Locked motor, disconnected connector Moteur verrouillé, connecteur débranché	☆	●	☆	☆	☆	●
Motor brush error Erreur du balai du moteur	Error in motor brush, adhesion of foreign objects Erreur du balai du moteur, adhérence d'objets étrangers	☆	●	☆	☆	☆	☆
Temperature detection error (Power board) Erreur de détection de température (carte puissance)	Overheated circuit Surchauffe du circuit	☆	●	●	☆	☆	☆
Temperature detection error (Main board) Erreur de détection de température (carte principale)	Overheated circuit Surchauffe du circuit	☆	●	●	●	☆	☆
Microcomputer error Erreur du microprocesseur	Microcomputer error Erreur du microprocesseur	●	●	●	●	●	☆

7. Circuit board diagram

● Circuit board diagrams and check points



*1 Circuit thermostat characteristics (JT-33M: IC1 7P and IC1 8P)

Temperature	Resistance	IC1 7P and 8P Voltage
20°C	59.3 kΩ	3.44 V
40°C	24.5 kΩ	2.38 V
60°C	11.3 kΩ	1.47 V

8. Principles of operation

● Descriptions of circuit operation

(1) Notes for turning the power ON / OFF

① When the power is turned ON, the power light (LED 1) turns on after 1.5 seconds, and the hand dryer becomes ready for operation.
- Before the power light turns on, the hand dryer will not operate even if hands are inserted in the hand drying area. In the meantime, the microcomputer (IC1) of the main unit performs the initial settings.

② When the power is turned OFF, the power light turns off and operation stops.
- The circuitry takes about 30 seconds to discharge the voltage retained in it. Wait until the discharging time elapses before plugging in or out the connectors, replacing the circuit boards, or doing other maintenance.
- Even when any error is occurred, the error display will go off if the power has been turned off. Only when a microcomputer error is occurred, the error display persists till the voltage retained in the circuitry has been discharged (till the microcomputer has been reset).

(2) Hand detection and operation

① A range sensor is used as the hand detection sensor.

② The sensor does not detect hands in the following occasion:
- When the sensor switch is turned off

③ When the sensor detects hands, the blower motor turns on and the hand dryer starts to operate.

④ Once operation has started, it continues as long as the sensor detects hands.

⑤ If 1 second elapses without detecting hands by the sensor, the blower motor turns off and operation stops. The time until the blower motor turns off can be set to 1 or 2 seconds with the switch (SW3-1).

⑥ The hand dryer continuously operates for up to 40 seconds.
- Once 40 seconds have elapsed, the hand dryer stops operating even if hands are detected.
- Since this is a function to assume the presence of a foreign object, the operation will resume if hands are pulled out and reinserted.

(3) Control of the blower motor

① The motor does not start in the following occasions:
- When a temperature detected by the thermostat on the control circuit board (JT-33M) is 65°C or higher, or when a temperature detected by the thermostat on the power circuit board (JT-33P) is 65°C or higher

② The air speed decreases in the following occasion:
- When a temperature detected by the thermostat on the control circuit board (JT-33M) is 41°C or higher

(4) Control of the heater

① To regulate inrush current at startup, the heater turns on 0.5 seconds later than the blower motor.

② The heater does not turn on in the following occasions:
- When the heater switch is turned OFF
- When a temperature detected by the thermostat on the control circuit board (JT-33M) is 31°C or higher, or when a temperature detected by the thermostat on the power circuit board (JT-33P) is 55°C or higher

(5) Operating procedures for the test mode: indicating the number of operation/ operating time

① How to start the test mode: Turn ON the power while holding down both of the heater switch and sensor switch. At this time, the power light blinks fast (ON for 0.1 seconds/OFF for 0.1 seconds).

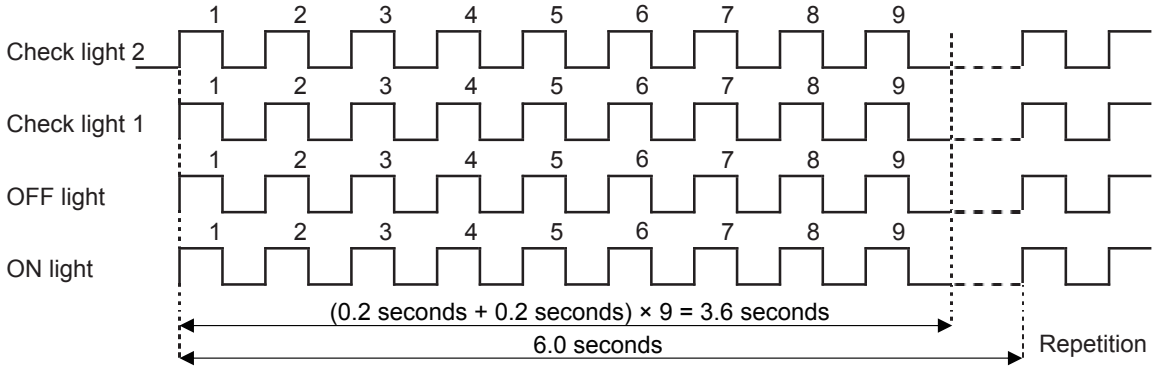
② Lighting status of the heater light shows the contents of the indication.
- The heater light ON : The cumulative number of operation of the blower
- The heater light OFF : The cumulative operating time of the blower

Use the heater switch to switch between ON and OFF.

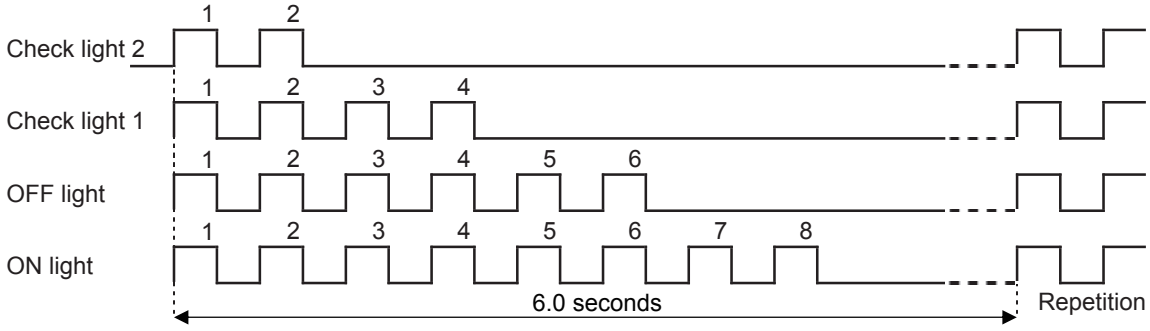
③ The sensor lights (ON and OFF) and check lights (1 and 2) indicate the cumulative number of operation.
- Display digit: A 4-digit display (Check light 2 (LED 6) indicates a hundred-thousands digit, check light 1 (LED 5) indicates a ten-thousands digit, OFF light (LED 4) indicates a thousands digit, and ON light (LED 3) indicates a hundreds digit.)
- Display range: 100 to 999900 times
- Display method: The number of blinking (ON for 0.2 seconds/OFF for 0.2 seconds) of each light indicates the numeric value for each digit, and the pattern of blinking repeats in a 6-second cycle. (See examples 1 and 2.)

④ The sensor lights (ON and OFF) and check lights (1 and 2) indicate the cumulative operating time.
- Display digit: A 4-digit display (Check light 2 (LED 6) indicates a thousands digit, check light 1 (LED 5) indicates a hundreds digit, OFF light (LED 4) indicates a tens digit, and ON light (LED 3) indicates a ones digit.)
- Display range: 1 to 9999 hours
- Display method: In the same way as described above. (See examples 1 and 2.)

Example 1: In the case of 999900 times or more, or 9999 hours of more



Example 2: In the case of 246800 times, or 2468 hours



Example 3: In the case of 100 times or less, or 1 hour or less
Power light: Fast blinking (ON for 0.1 seconds/OFF for 0.1 seconds)
ON light, OFF light, check light 1, and check light 2: OFF

⑤ During the test mode, the hand dryer only performs the above indication, and does not perform any other operations including blowing air.

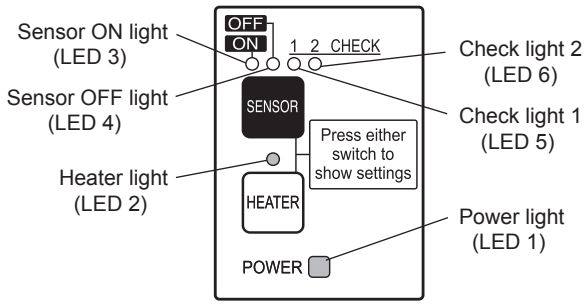
⑥ How to finish the test mode: Turn OFF the power, and wait for about 30 seconds. Turn ON the power again, and then the mode returns to the normal operation.

9. Troubleshooting

■ Work precautions

- When servicing, recreate the malfunction two or three times before starting repairs.
- When servicing, always take care to keep proper footing.
- Before starting the service, always unplug the power cord from the outlet, or turn off the circuit breaker when no power cord plug is provided. Sufficient care must be taken to avoid electric shock or injury.
- Make sure to connect the power supply wires correctly.
- When removing the circuit board, always hold it at both ends and remove carefully so as not to apply force to the surface mounted parts.
- When removing the circuit board, be careful of the metal edges on the board.
- When removing or inserting the connectors for the circuit board, hold the entire housing section. Never pull on the lead wires.
- When circuit board failure is considered to be a cause, check closely for any broken section on the copper foil patterns, burning or discoloration of parts.
- After replacing a circuit board, make sure to restore the same settings as before the replacement.

Description of the error display



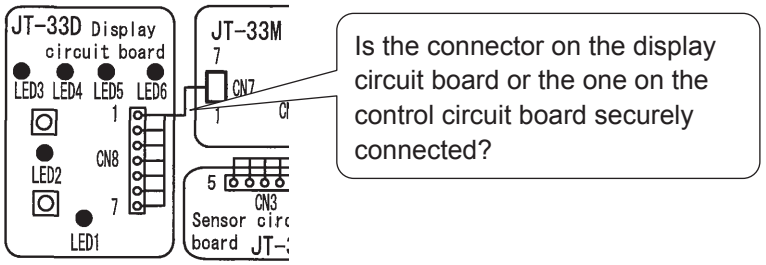
Model name of the Circuit boards

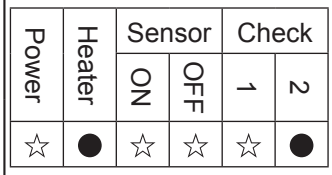
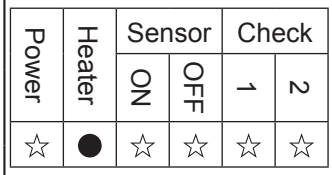
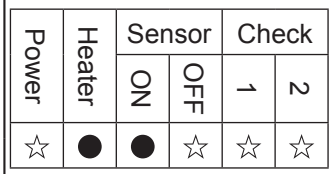
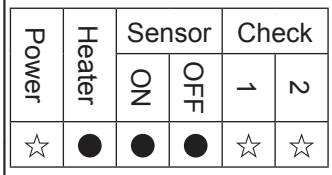
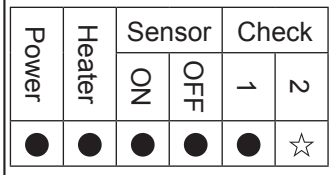
- Power circuit board: JT-33P
- Control circuit board: JT-33M
- Display circuit board: JT-33D
- Sensor circuit board: JT-33S

○ : ON ● : OFF ☆ : Slow blinking (ON for 0.4 seconds/ OFF for 0.4 seconds)

Troubles with error display

<table>
<tr><th>Error Display</th><th>Cause</th><th>Check Method and Remedy</th></tr>
<tr><td rowspan="4">
<table>
<tr><th rowspan="2">Power</th><th rowspan="2">Heater</th><th colspan="2">Sensor</th><th colspan="2">Check</th></tr>
<tr><th>ON</th><th>OFF</th><th>1</th><th>2</th></tr>
<tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td></tr>
</table>
(The hand dryer does not operate, and no lights light up.)
</td><td>Connector disconnection</td><td>Check if the lead wire connectors between the power circuit board and the control circuit board are disconnected.</td></tr>
<tr><td>Blowout of the current fuse</td><td>Measure the resistance across the current fuses (FUSE 1 and 2) on the power circuit board. If the resistance is not normal, replace the power circuit board.
<table>
<tr><th>Resistance</th><th>Judgment</th></tr>
<tr><td>0 Ω</td><td>Normal</td></tr>
</table>
</td></tr>
<tr><td>Malfunction of the control circuit board</td><td>If the error persists after performing the above, replace the control circuit board.</td></tr>
<tr><td>Malfunction of the power circuit board</td><td>If the error persists after replacing the control circuit board, replace the power circuit board.</td></tr>
</table>

Error Display	Cause	Check Method and Remedy
Power: ● / Heater: ● / Sensor ON: ● / Sensor OFF: ● / Check 1: ● / Check 2: ● (The hand dryer operates, but no lights light up.)	Tilted or fallen LED	Make sure that the LEDs on the display circuit board are upright.
	Malfunction of the display circuit board	Check if the connector CN8 on the display circuit board or CN7 on the control circuit board is disconnected.  If the connector is not disconnected, replace the display circuit board. (If a light-emitting device of the display circuit board is in a state of short circuit or open fault, the lights do not light up.)
	Malfunction of the control circuit board	If the error persists after performing the above, replace the control circuit board.
Power: ☆ / Heater: ● or ○ / Sensor ON: ● or ○ / Sensor OFF: ● or ○ / Check 1: ● / Check 2: ● (Tamper-proof timer)	40 seconds have elapsed.	If hands are inserted in the hand drying area for 40 seconds, the error occurs. It returns to normal if hands are pulled out.
	Remaining foreign object Dirty sensor window	Check for any objects left in the water receiver area, or any dirt sticking to the sensor area. If the hand dryer operates for 40 seconds because of remaining foreign objects or dirt on the sensor window, remove the foreign objects or sensor dirt, and then reset the power.
	Dirty sensor window	Dirt may shield the sensor. Wipe the dirt off the sensor window.
	Malfunction of the control circuit board	If the error persists after performing the above, replace the control circuit board.
Power: ☆ / Heater: ● / Sensor ON: ☆ / Sensor OFF: ☆ / Check 1: ● / Check 2: ☆ (Power failure)	Connector disconnection	Check if the lead wire connectors between the power circuit board and the control circuit board are disconnected.
	Malfunction of the control circuit board	Replace the control circuit board.
	Malfunction of the power circuit board	Replace the power circuit board.
	Power supply noise	If there is power supply noise, use a noise filter for the power line or take other noise-control measures.

Error Display	Cause	Check Method and Remedy
 (Motor error)	Connector disconnection for the motor	Check if the lead wire connectors between the motor and the power circuit board are disconnected.
	Motor brush at the end of its life	Replace the blower (assembly).
	Motor lock	Check if the motor vanes are locked.
	Blown current fuse (FUSE 3) or blown thermal fuse of the motor	Measure the resistance between the both ends of the motor lead. If it is ∞ Ω, replace the blower (assembly).
	Malfunction of the control circuit board	If no error is found after checking the above, replace the control circuit board.
	Malfunction of the power circuit board	If the error persists after replacing the control circuit board, replace the power circuit board.
 (Motor brush error)	Unusually worn-out motor brush	Replace the blower (assembly).
	Motor brush at the end of its life	Replace the blower (assembly).
	Malfunction of the control circuit board	If the error persists after performing the above, replace the control circuit board.
	Malfunction of the power circuit board	If the error persists after replacing the control circuit board, replace the power circuit board.
 (Temperature detection error (Power circuit board))	An abnormal temperature has been detected.	If the temperature on the power circuit board rises because of the overuse, the hand dryer stops the operation. Leave it until the temperature falls, and then check if the error occurs again.
	Malfunction of the power circuit board	If the error persists after performing the above, replace the power circuit board.
 (Temperature detection error (Control circuit board))	An abnormal temperature has been detected.	If the temperature on the control circuit board rises because of the overuse, the hand dryer stops the operation. Leave it until the temperature falls, and then check if the error occurs again.
	Malfunction of the control circuit board	If the error persists after performing the above, replace the control circuit board.
 (Microcomputer error)	Malfunction of the control circuit board	Replace the control circuit board.

Troubles without error display

<table>
<tr><th>Symptom</th><th>Cause</th><th>Check Method and Remedy</th></tr>
<tr><td rowspan="5">The hand dryer does not blow warm air.</td><td>Malfunction of the heater switch</td><td>After checking that the connector is securely connected, measure the resistance across the heater switch on the display circuit board. If the resistance is not normal, replace the display circuit board.<table><tr><th>Switch</th><th>Resistance</th><th>Judgment</th></tr><tr><td>ON state</td><td>0 Ω</td><td>Normal</td></tr><tr><td>OFF state</td><td>∞ Ω</td><td>Normal</td></tr></table></td></tr>
<tr><td>Blown thermal fuse of the heater</td><td>Measure the resistance between the heater lead connectors (red and white).
If it is ∞ Ω, replace the heater (PTC).</td></tr>
<tr><td>Ambient temperature is low.</td><td>When the ambient temperature is 18°C or lower, the hand dryer, which is equipped with the simple heater, does not blow sufficiently warm air.</td></tr>
<tr><td>Malfunction of the power circuit board</td><td>If the error persists after performing the above, replace the power circuit board.</td></tr>
<tr><td>Malfunction of the control circuit board</td><td>If the error persists after replacing the power circuit board, replace the control circuit board.</td></tr>
<tr><td rowspan="4">The hand dryer does not stop blowing air.</td><td>Dirt on the sensor area</td><td>Check if the sensor window gets dirty.</td></tr>
<tr><td>Influence of light</td><td>Check if the sensor area is exposed to sunlight or strong light.</td></tr>
<tr><td>Malfunction of the power circuit board</td><td>If the error persists after performing the above, replace the power circuit board.</td></tr>
<tr><td>Malfunction of the control circuit board</td><td>If the error persists after replacing the power circuit board, replace the control circuit board.</td></tr>
<tr><td rowspan="2">The sensor lights ON/OFF cannot be switched.</td><td>Malfunction of the sensor switch</td><td>After checking that the connector is securely connected, measure the resistance across the switch (SW1) on the display circuit board. If the resistance is not normal, replace the display circuit board.<table><tr><th>Switch</th><th>Resistance</th><th>Judgment</th></tr><tr><td>ON state</td><td>0 Ω</td><td>Normal</td></tr><tr><td>OFF state</td><td>∞ Ω</td><td>Normal</td></tr></table></td></tr>
<tr><td>Malfunction of the control circuit board</td><td>If the error persists after performing the above, replace the control circuit board.</td></tr>
<tr><td rowspan="2">The hand dryer does not blow air even though hands are inserted.</td><td>Hands are too far away from the sensor.</td><td>Sensitivity range of the sensor is 8 to 13 cm directly below the sensor.
When inserting hands, place hands close to the sensor.</td></tr>
<tr><td>The sensor switch is turned off.
(The sensor OFF light is lit.)</td><td>Turn on the sensor switch.</td></tr>
</table>

10. How to call

Symptom			Remedy
1	The hand dryer does not blow air even though hands are inserted. (It may not stop blowing air in the cases of ④ and ⑤.)	The power light is not turned on.	① If the power wires are disconnected, securely connect them to the terminal block. ② If the power is OFF, turn it ON. ③ If the circuit breaker is OFF, turn it ON.
		Cases other than the above	④ The sensor area may get dirt, clean up the sensor area. ⑤ If some objects are left in the water receiver area, remove them.
2	The hand dryer does not blow warm air.	The heater light is not turned on.	① If the heater switch is OFF, turn it ON.
		Ambient temperature is low.	② When the room temperature is 18°C or lower, the hand dryer, which is equipped with the simple heater, does not blow sufficiently warm air.
3	Air blow is too weak to dry hands quickly.		If the filter is clogged, clean it up.
4	Water leaks from the product.		① If the drain tank is filled with water, empty the tank. ② If the drain tank is not properly installed, install it properly.

11. Service inspection list

Location	Inspection Item	Check Result
Electric wiring	Are lead wire connectors connected securely?	
	Is the wiring correct?	
Operation	Does the hand dryer operate properly? Isn't there any abnormal noise, vibration, etc.?	
Indicator lights	Do the lights (LEDs) come on?	
Drain tank, filter	Are the drain tank and filter inserted into the proper position?	
Wall installation	Isn't there any gaps between the product and the back wall?	

12. Overhauling procedures

■ Work precautions

- Before replacing parts, follow the instructions described in the troubleshooting.
- When servicing, always take care to keep proper footing.
- Before starting the service, always unplug the power cord from the outlet, or turn off the circuit breaker when no power cord plug is provided. Sufficient care must be taken to avoid electric shock or injury.
- Make sure to connect the power supply wires correctly.
- After completing repairs, check that the unit operates properly.

✻ Always wear gloves when servicing.

(1) Turn off the power supply.

① Stop the operation.

② Turn off the circuit breaker on the distribution board.

(2) Display circuit board (JT-33D) and control circuit board (JT-33M)

① Remove the drain tank.

② Open the decorated panel, and unscrew the panel clamping screw. (One special (spl) screw 4 x 14, indicated by ○)

Panel (assembly)

③ Unhook the claws of the panel from the base, and remove the panel (assembly). (Indicated by ○)

④ Unscrew the clamping screw for the display circuit board. (One PTT screw 4 x 14, indicated by ○)

⑤ Remove the LED fix piece.

⑥ Remove the display circuit board (JT-33D).

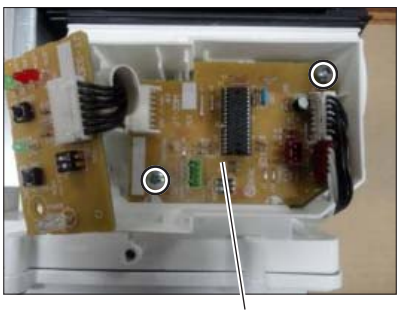
Assembly precaution
Place the display circuit board (JT-33D) closely to the left side, and then tighten the screw.

LED fix piece

Display circuit board (JT-33D)

⑦ Unscrew the clamping screws for the control circuit board. (Two PTT screws 4 x 14, indicated by ○)

⑧ Remove the control circuit board (JT-33M).



Control circuit board (JT-33M)

Assembly precautions
- Run the lead wires through the groove of the blower cover. (Indicated by ○)
- Take care not to pinch the lead wires.
- After installing the circuit board, make sure that the LEDs are upright.

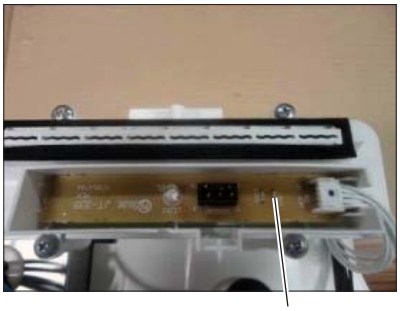
Assembly precaution
Run the lead wires through the claw of the blower case. (Indicated by ○)

(3) Sensor circuit board (JT-33S)

① Remove the panel (assembly).→ See (2) ① to ③.

② First, remove the protector sheet, and unhook the claw of the fix plate from the nozzle (indicated by ○), and then remove the fix plate.

③ Remove the sensor circuit board (JT-33S).

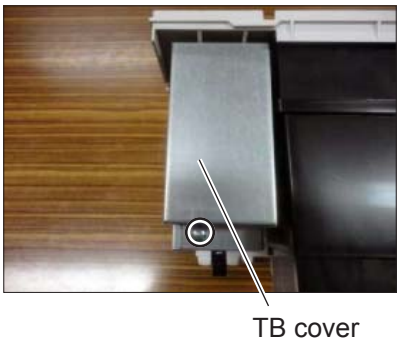


Assembly precautions
- Run the lead wires through the groove of the nozzle. (Indicated by ○)
- Take care not to pinch the lead wires.
- After installing the sensor circuit board, make sure that the LED is upright.

(4) Power circuit board (JT-33P)

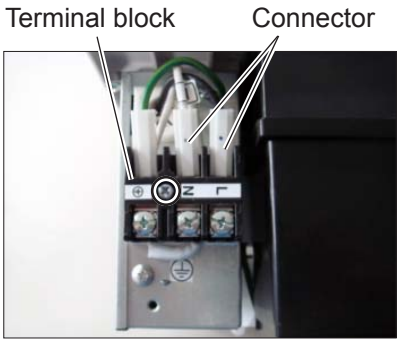
① Remove the panel (assembly).→ See (2) ① to ③.

② Unscrew the clamping screw for the terminal block (TB) cover.
(One PT screw 4 x 8, indicated by ○)



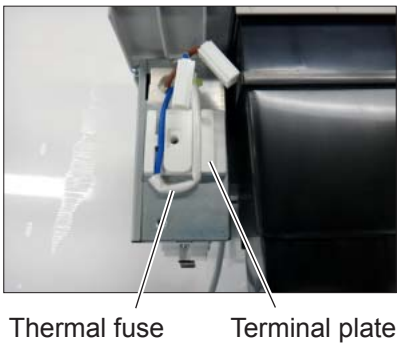
③ Unscrew the terminal block clamping screw.
(One PP screw 4 x 25, indicated by ○)

④ Disconnect the lead connectors from the terminal block.



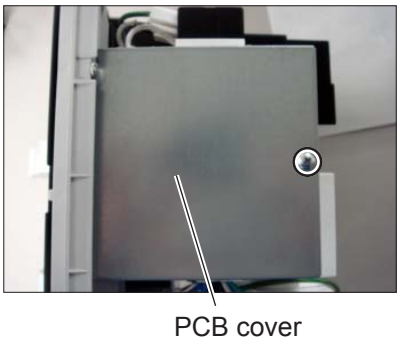
⑤ Remove the thermal fuse from the terminal plate.

Assembly precautions
- Run the lead wire of the thermal fuse through the groove of the terminal plate.
- Take care not to pinch the lead wire.

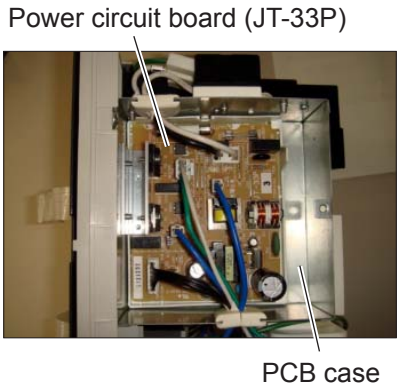


⑥ Unscrew the clamping screw for the circuit board (PCB) cover.
(One PT screw 4 x 8, indicated by ○)

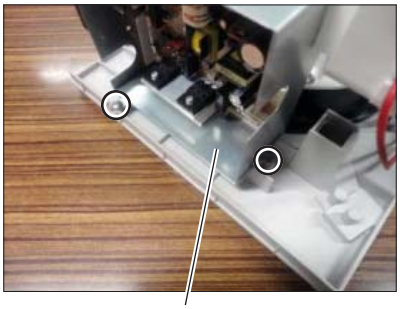
Assembly precaution
Set the entire bends of the PCB cover outside the PCB case.



⑦ Disconnect the lead wires from the power circuit board (JT-33P).



⑧ Unscrew the PCB case clamping screws.
(Two PTT screws 4 x 14, indicated by ○)

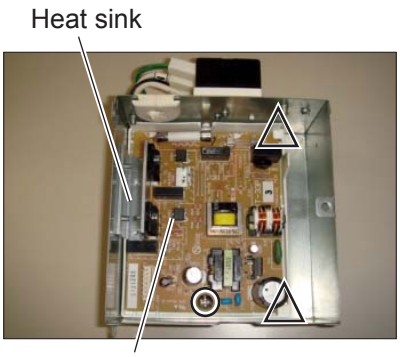


⑨ Unscrew the heat sink clamping screws.
(Two SW PW PP scr M4, indicated by ○)

⑩ Unscrew the clamping screw for the power circuit board.
(One PTT screw 4 x 14, indicated by ○)

⑪ Remove the power circuit board (JT-33P).

Assembly precaution
Fit the power circuit board (JT-33P) into the claws of the PCB fix plate. (Indicated by △)

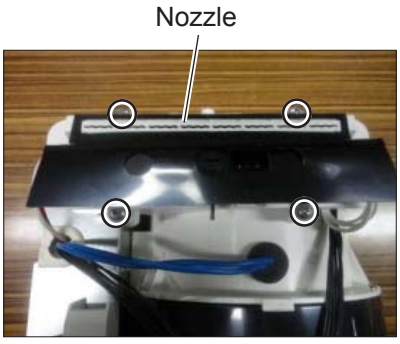


(5) Heater (PTC)

① Disconnect the heater lead wires from the power circuit board (JT-33P). → See (4) ① to ② and ⑥ to ⑦.

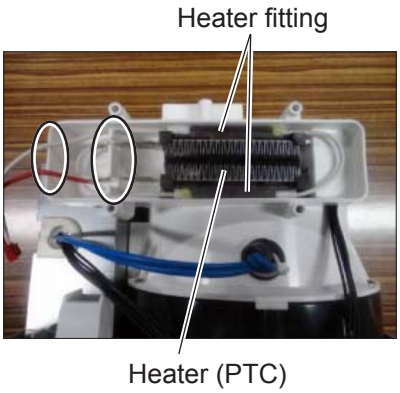
② Unscrew the nozzle clamping screws.
(Four PTT screws 4 x 14, indicated by ○)

Assembly precaution
Tighten the screws in a crisscross pattern.

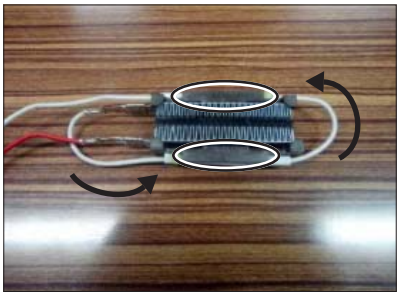


③ Remove the heater (PTC) with the heater fittings.

Assembly precautions
- Run the lead wires through the groove of the blower cover. (Indicated by ○)
- Take care not to pinch the lead wires.



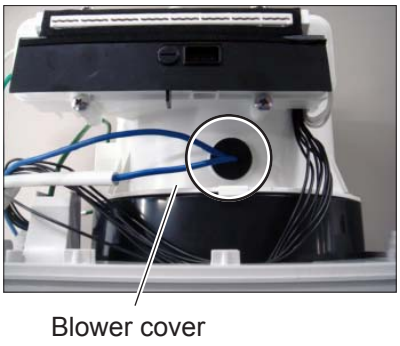
Assembly precautions
• Run the heater lead wires as shown in the picture at right.
• Fit the thermal fuse parts into the groove of the heater fittings. (Indicated by ○)



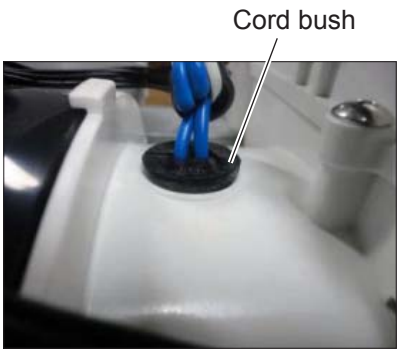
(6) Blower (assembly) (Thermal fuse of the motor)

① Disconnect the blower lead wires from the power circuit board (JT-33P). → See (4) ① to ② and ⑥ to ⑦.

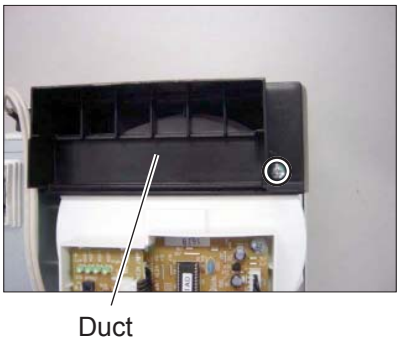
② Push the cord bush into the blower cover. (Indicated by ○)



Assembly precautions
• Install the cord bush as shown in the picture at right.
• Make sure that there is no slack in the lead wires inside the blower cover.



③ Unscrew the duct clamping screw.
(One PTT screw 4 x 14, indicated by ○)

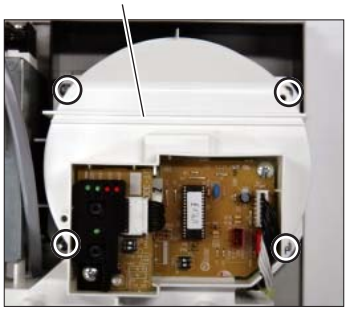


Assembly precaution
Set the duct in the groove of the blower cover. (Indicated by ○)

④ Unscrew the blower cover clamping screws.
(Four PTT screws 4 x 14, indicated by ○)

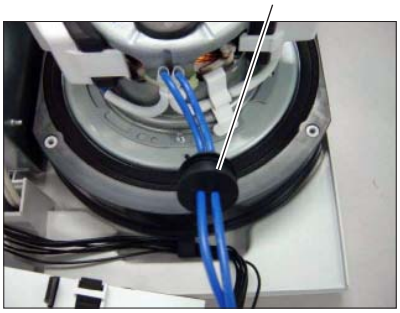
Assembly precaution
Tighten the screws in a crisscross pattern.

Blower cover



⑤ Remove the cord bush.

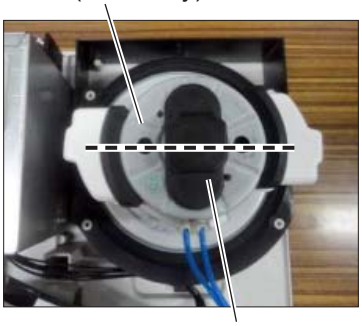
Cord bush



⑥ Remove the blower stopper.
⑦ Remove the blower (assembly).

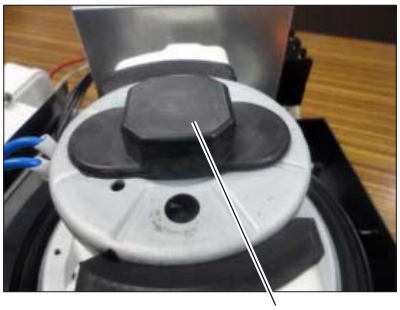
Assembly precaution
Set the blower (assembly) horizontally.

Blower (assembly)



Blower stopper

Assembly precaution
When installing the blower stopper, make sure that it is not loose.



Blower stopper

✻ When reassembling

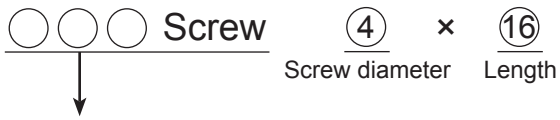
- Reassemble the unit in the reverse order of disassembly.
- After reassembly, always make a test run to make sure that the unit operates properly.

13. Parts catalog

Please note the following when using the parts catalog.

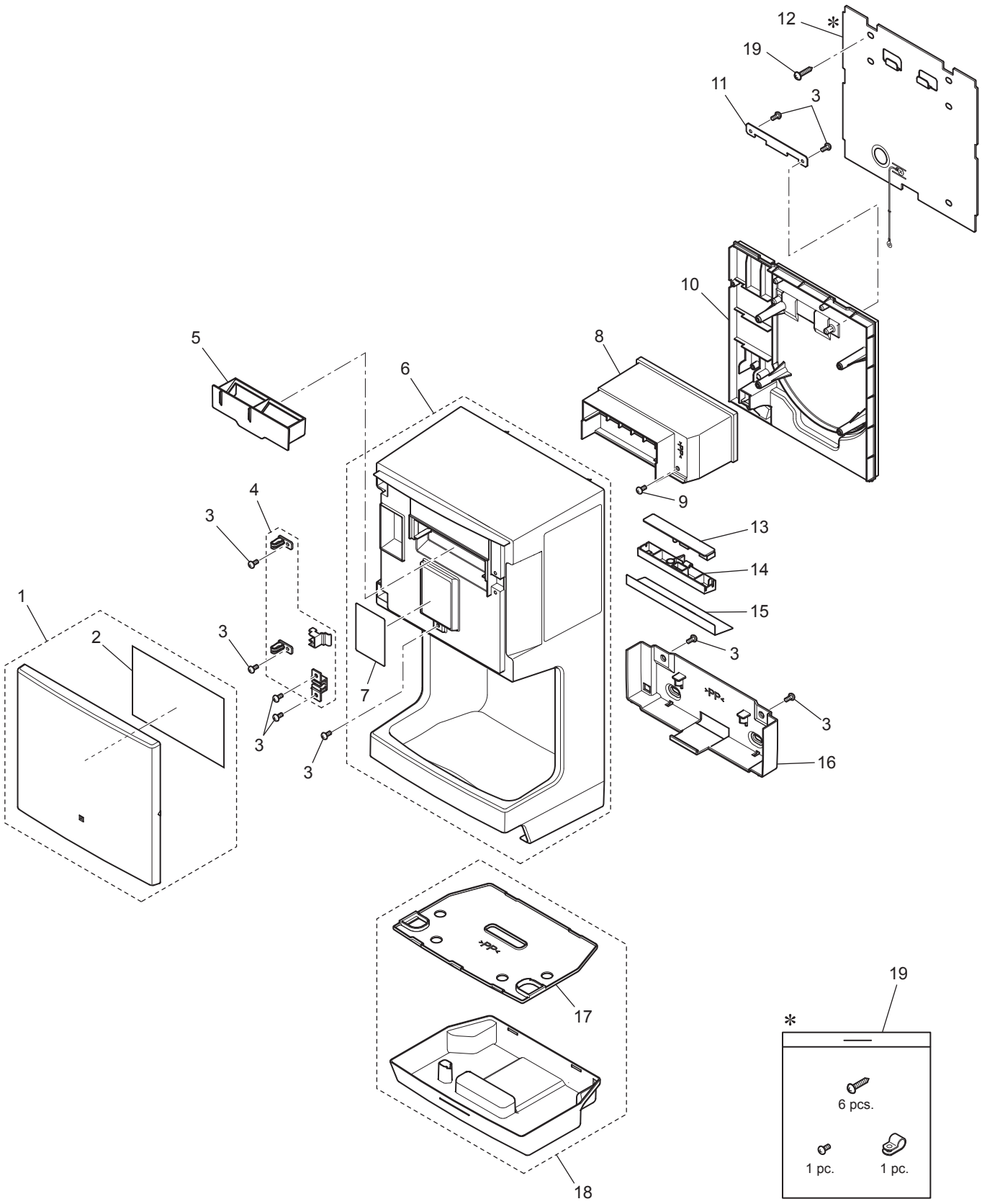
1. When ordering parts, the part number, part name, and the number of parts are required.
2. It may take time for you to receive the parts. Make an inquiry about a rush order.
3. Specifications may be subject to change without notice.
4. Parts marked with ⚠ and ▒▒ are critical for safety.
5. To maintain safety and performance, use the parts specified in the parts catalog.
6. When replacing the parts to which the nameplate is attached, remove the nameplate and attach it to the new parts.

Description of screw abbreviations



Abbreviation	Description
PC screw	Cross recess flat head machine screw
PRC screw	Cross recess oval head machine screw
PP screw	Cross recess pan head machine screw
SW · PP screw	Cross recess pan head screw with spring washer
PPT screw	Cross recess tapping screw
PCT screw	Cross recess flat head tapping screw
PTT screw	Cross recess truss head tapping screw
PT screw	Cross recess truss head machine screw
SET screw	Slotted head stop screw
SQ · SET screw	Square head stop screw
P · SET screw	Pan head stop screw
PMT screw	Primer truss head screw
HS · SET screw	Hexagon head stop screw
P · R · W screw	Cross recess round wood screw
P · C · W screw	Cross recess flat head wood screw
P · R · C · W screw	Cross recess round and flat wood screw
R · W screw	Slotted round wood screw
PW · PP screw	Cross recess pan head screw with small washer
SW-PW · PP screw	Cross recess pan head machine screw with spring washer and flat washer

Body parts



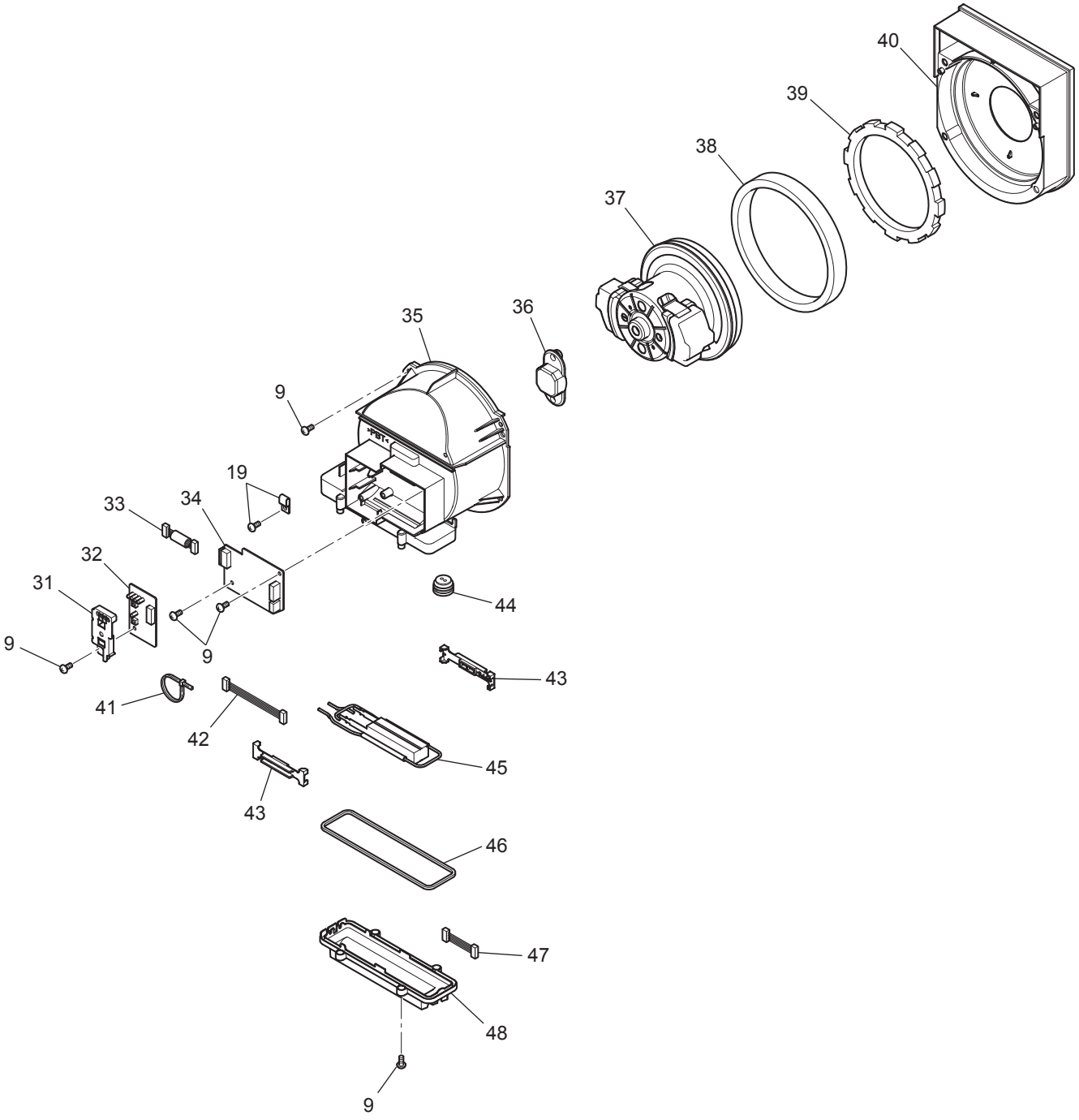
* shows accessory parts.

Body parts

JT-MC106G-W-NA

No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
1	Decorated panel	Y45 634 802	1		
2	Wiring diagram	Y45 634 362	1		
3	Spl screw 4x14	Y45 650 049	9		
4	Panel support	Y45 650 886	1		
5	Filter	Y45 650 853	1	⚠	
6	Panel (assy)	Y45 634 803	1		
7	Indicator plate	Y45 634 809	1		
8	Duct	Y45 650 846	1		
9	PTT screw 4x14	Y45 650 007	15		
10	Base	Y45 634 806	1		
11	Fix plate	Y45 650 850	1		
12	Fix plate (set)	Y45 634 801	1		
13	Circuit board	Y45 627 171	1	⚠	JT-33S
14	Fix plate	Y45 627 809	1		
15	Protector sheet	Y45 629 809	1	⚠	
16	Base (lower)	Y45 650 849	1		
17	Tank cover	Y45 650 848	1		
18	Drain tank	Y45 650 845	1		With a cover
19	Parts in bag	Y45 634 049	1		

Blower parts

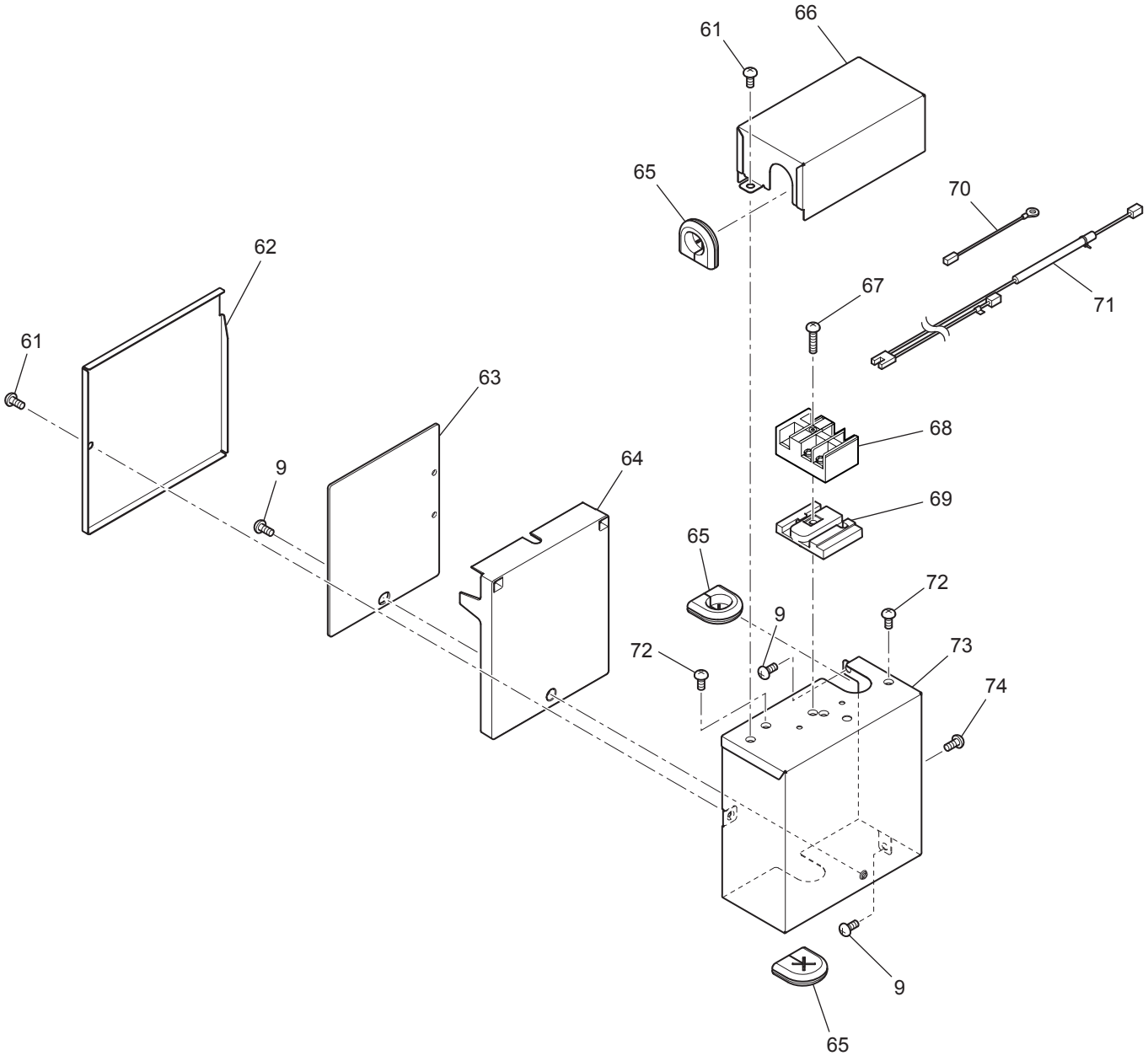


Blower parts

JT-MC106G-W-NA

No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
31	LED fix piece	Y45 650 887	1		
32	Circuit board	Y45 627 172	1	⚠	JT-33D
33	Lead wire	Y45 650 281	1	⚠	Micon-Display
34	Circuit board	Y45 634 172	1	⚠	JT-33M3
35	Blower cover	Y45 627 806	1		
36	Blower stopper	Y45 627 227	1		
37	Blower (assy)	Y45 634 800	1	⚠	
38	Packing	Y45 650 248	1		
39	Floating rubber	Y45 650 245	1		
40	Blower case	Y45 650 855	1		Black
41	Cord band	Y13 001 228	1		
42	Lead wire	Y45 650 280	1	⚠	Power-Micon
43	Heater fitting	Y45 650 856	2		
44	Cord bush	Y45 650 247	1		
45	Heater (PTC)	Y45 630 280	1	⚠	94°C･With a fuse
46	Packing	Y45 650 246	1		
47	Lead wire	Y45 627 281	1	⚠	Micon-Sensor
48	Nozzle	Y45 650 847	1		

Circuit board parts



Circuit board parts

JT-MC106G-W-NA

No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
61	PT screw 4x8	Y45 650 008	2		
62	PCB cover	Y45 650 851	1		
63	Circuit board	Y45 634 171	1	⚠	JT-33P3
64	PCB fix plate	Y45 627 807	1		
65	Cord bush	Y45 650 236	3		
66	TB cover	Y45 650 852	1		
67	PP screw 4x25	Y45 650 003	1		
68	Terminal block	Y45 631 242	1	⚠	3P
69	Terminal plate	Y45 630 806	1		
70	Ground wire	Y45 634 219	1	⚠	65mm
71	Thermal fuse	Y45 634 280	1	⚠	94° C
72	PT screw 4x6 BS	Y81 293 010	2		
73	PCB case	Y45 634 804	1		
74	SW PW PP scr M4	Y45 650 038	2		