

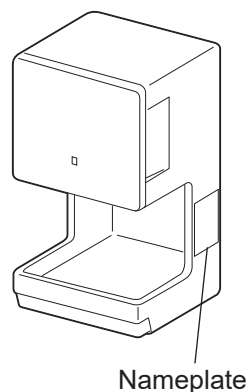
## HAND DRYER

# HANDBOOK

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### MODELS

**JT-MC206GS-W-E**



**Warning:**









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



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# 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.

<div> <b>Warning</b></div>		Incorrect handling of the product may result in serious injury or death.	
<div><div>◇ <b>Electric shock</b></div><div>If you must inspect the circuitry while the power is on, do not touch the live parts.</div><div>(Failure to heed this warning may result in electric shock.)</div><div><div>Caution against electric shock</div></div></div>		<div><div>◇ <b>Turn off the power</b></div><div>Make sure to turn off the earth leakage breaker and the power switch of the product's main unit 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.)</div><div>(Failure to heed this warning may result in electric shock.)</div><div><div>Be sure to follow this instruction.</div></div></div>	
<div><div>◇ <b>Modification is prohibited</b></div><div>Do not modify the unit.</div><div>(Failure to heed this warning may result in electric shock, fire and/or injury.)</div><div><div>Prohibited</div></div></div>			
<div><div>◇ <b>Proper electric work</b></div><div><div><div>• 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.</div><div>• Make sure that the terminals and fixed wiring are securely connected.</div></div><div>(Improper connection or wiring installation may result in electric shock and/or fire.)</div><div><div>Be sure to follow this instruction.</div></div></div></div>		<div><div>◇ <b>Use proper parts and tools</b></div><div>For repair, be sure to use the parts listed in the service parts list of the applicable model and use the proper tools.</div><div>(Failure to heed this warning may result in electric shock, fire and/or injury.)</div><div><div>Be sure to follow this instruction.</div></div></div>	
<div><div>◇ <b>Scratches and deterioration</b></div><div>Make sure to replace scratched and/or deteriorated wiring and lead wires.</div><div>(Failure to heed this warning may result in electric shock and/or fire.)</div><div><div>Be sure to follow this instruction.</div></div></div>		<div><div>◇ <b>Check insulation</b></div><div>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.</div><div>(Inadequate insulation may result in electric shock.)</div><div><div>Be sure to follow this instruction.</div></div></div>	

<div><b>Caution</b></div>		Incorrect handling of the product may result in minor injury or damage to properties including buildings and equipment.	
<div><div>◇ <b>Wear gloves</b></div><div>Always wear a pair of gloves during inspection or repair work.</div><div>(Failure to heed this caution may result in injury.)</div></div>		<div></div> <div>Be sure to follow this instruction.</div>	

## Request for repair

- Before repairs, take the product off the wall.
- Inspect the earth condition, and repair it if it is incomplete. Make sure that an earth leakage breaker or an over-load 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 0°C
  - Locations where the temperature could be higher than 40°C
  - 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, 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.

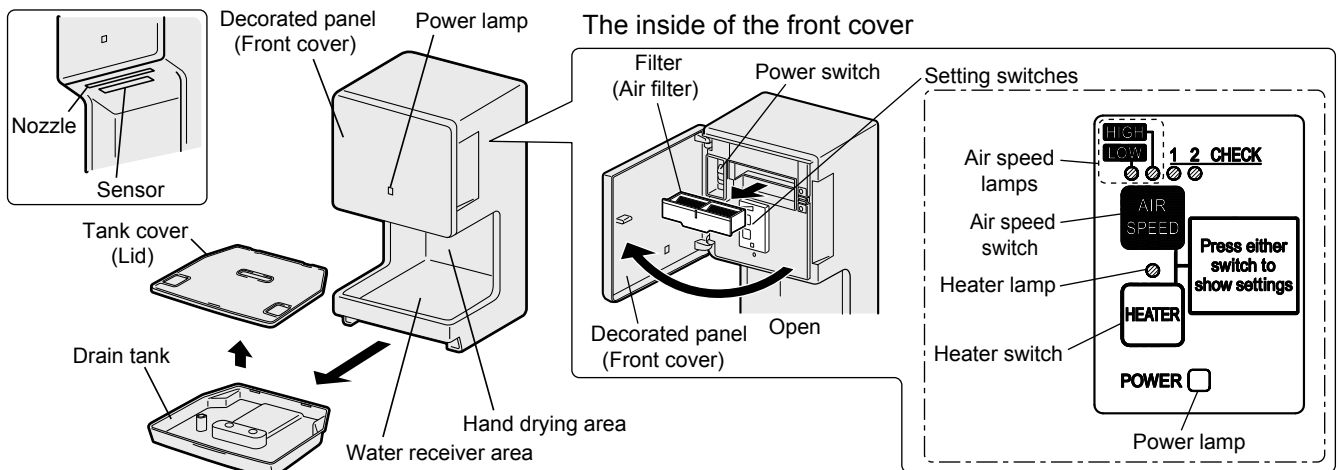
## 2. Features

- 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 has 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).



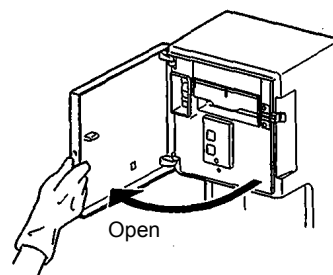
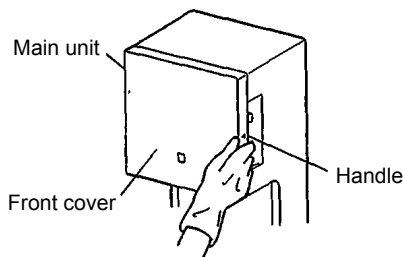
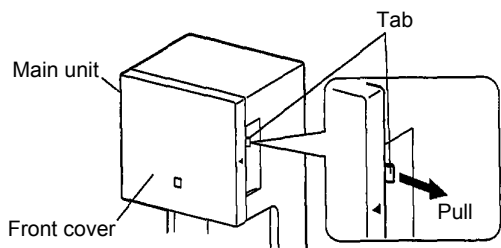
### Checking the settings

Once settings are made, the heater lamp and air speed lamps turn off after about 10 seconds (to save energy). To check the settings, press either the heater or air speed switch.

## (2) How to open/close the front cover

### How to open the front cover

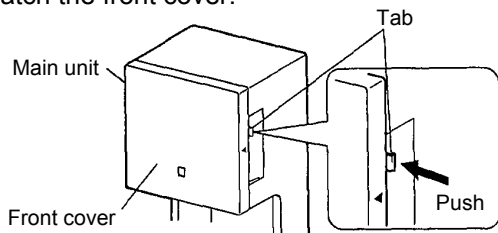
1. Pull the tab to open the front cover.
2. Hold the handle on the right hand side of the main unit.
3. Open the front cover.



### How to close the front cover

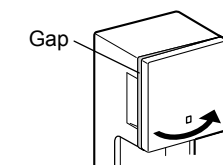
Close the front cover in the reverse order of opening procedure.

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.

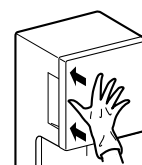


### NOTE

- 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.



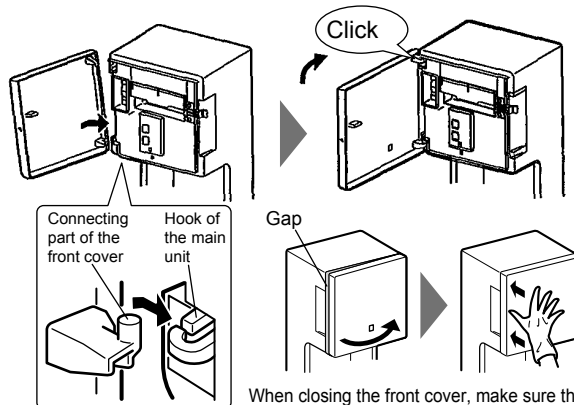
2 Close the left side (both the upper and lower parts).

### 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.



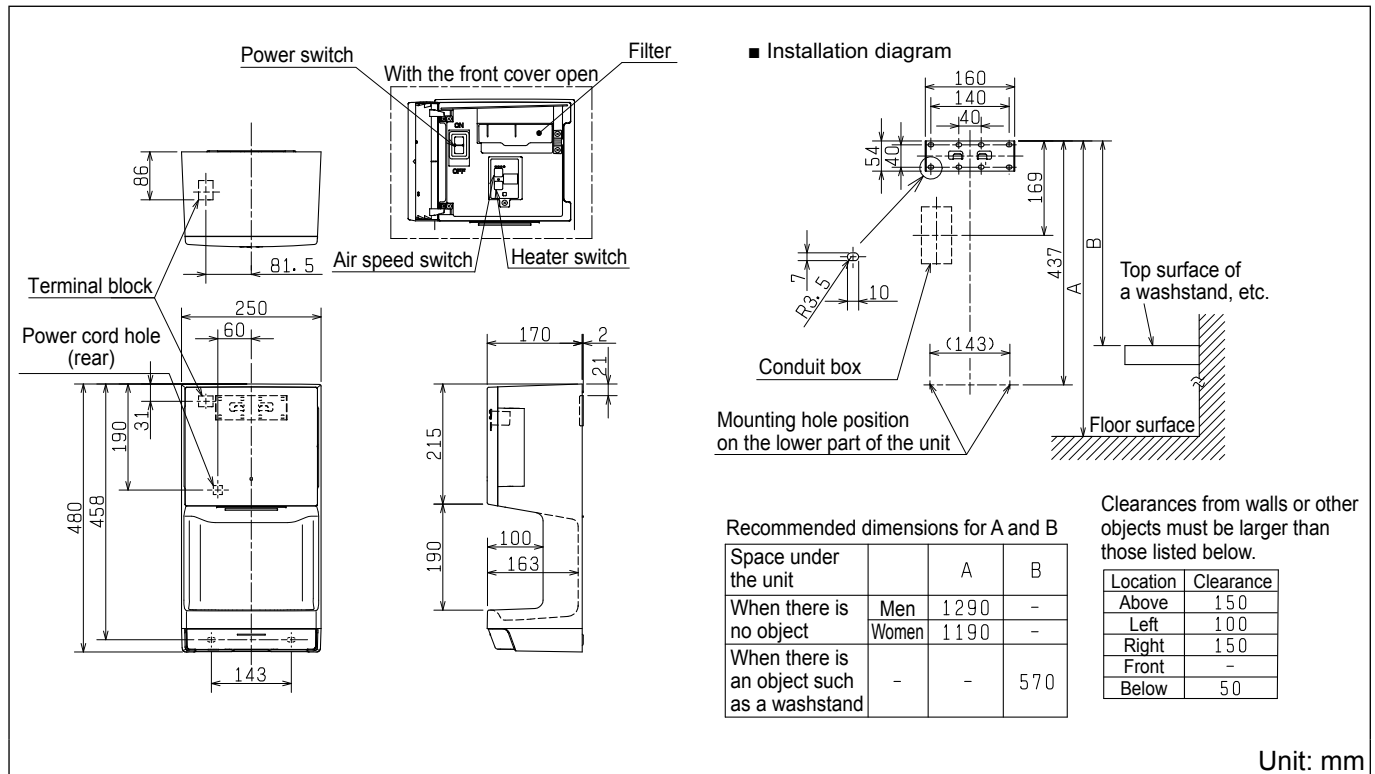
When closing the front cover, make sure that there is no gap between the front cover and the main unit.

## 4. Specifications

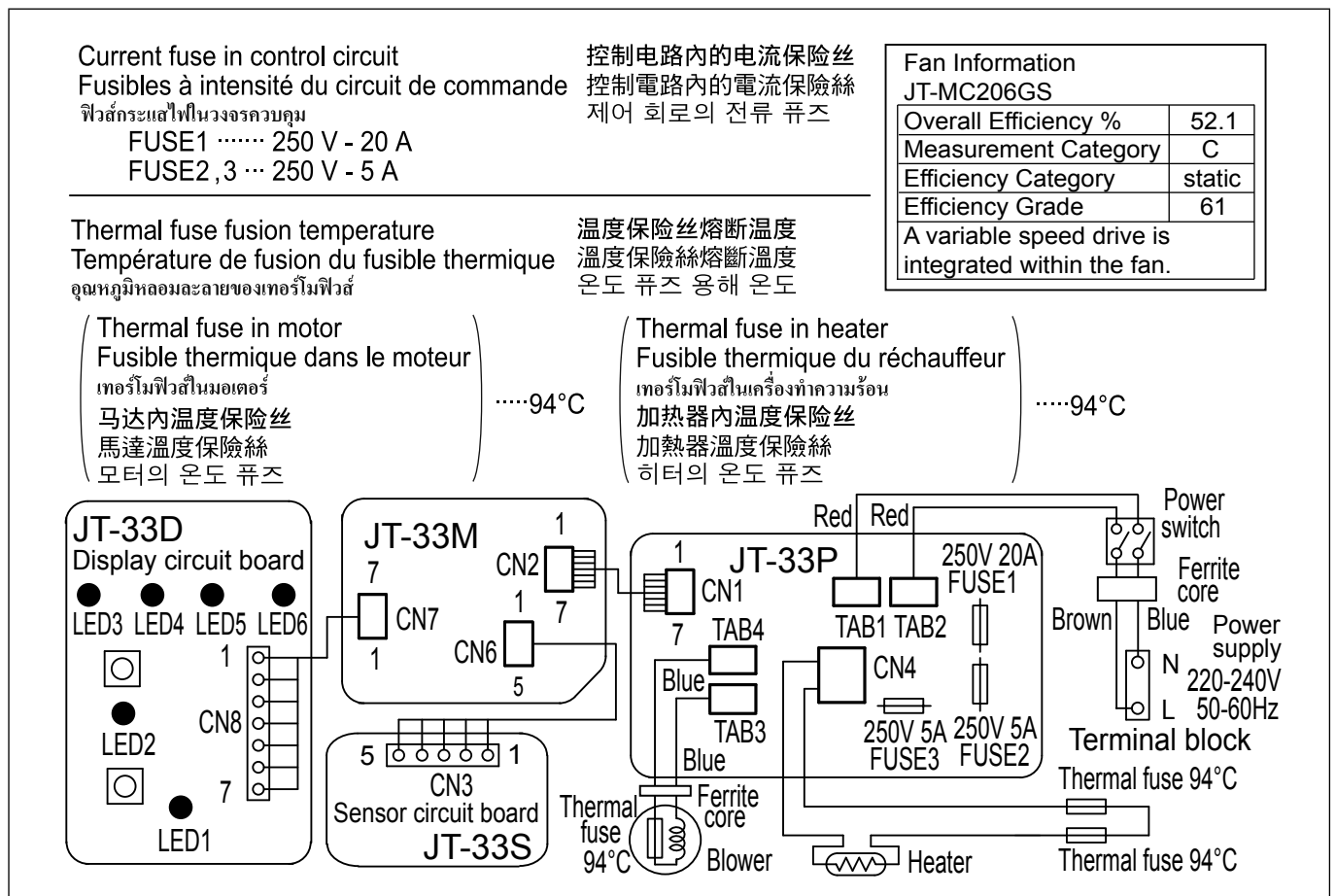
Model	Rated voltage (V)	Rated frequency (Hz)	Heater	Air speed	Rated current (A)	Power consumption (W)	Air speed (m/s)	Noise (dB)	Weight (kg)	Drain tank capacity (ℓ)
JT-MC206GS-W-E	220-240 Single phase	50-60	ON	HIGH	3.4-3.5	735-825	140-150	62-64	5	0.6
				LOW	2.1-2.3	390-455	90-100	52-54		
			OFF	HIGH	2.2-2.4	475-560	140-150	62-64		
				LOW	1.5-1.7	175-220	90-100	52-54		

- 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

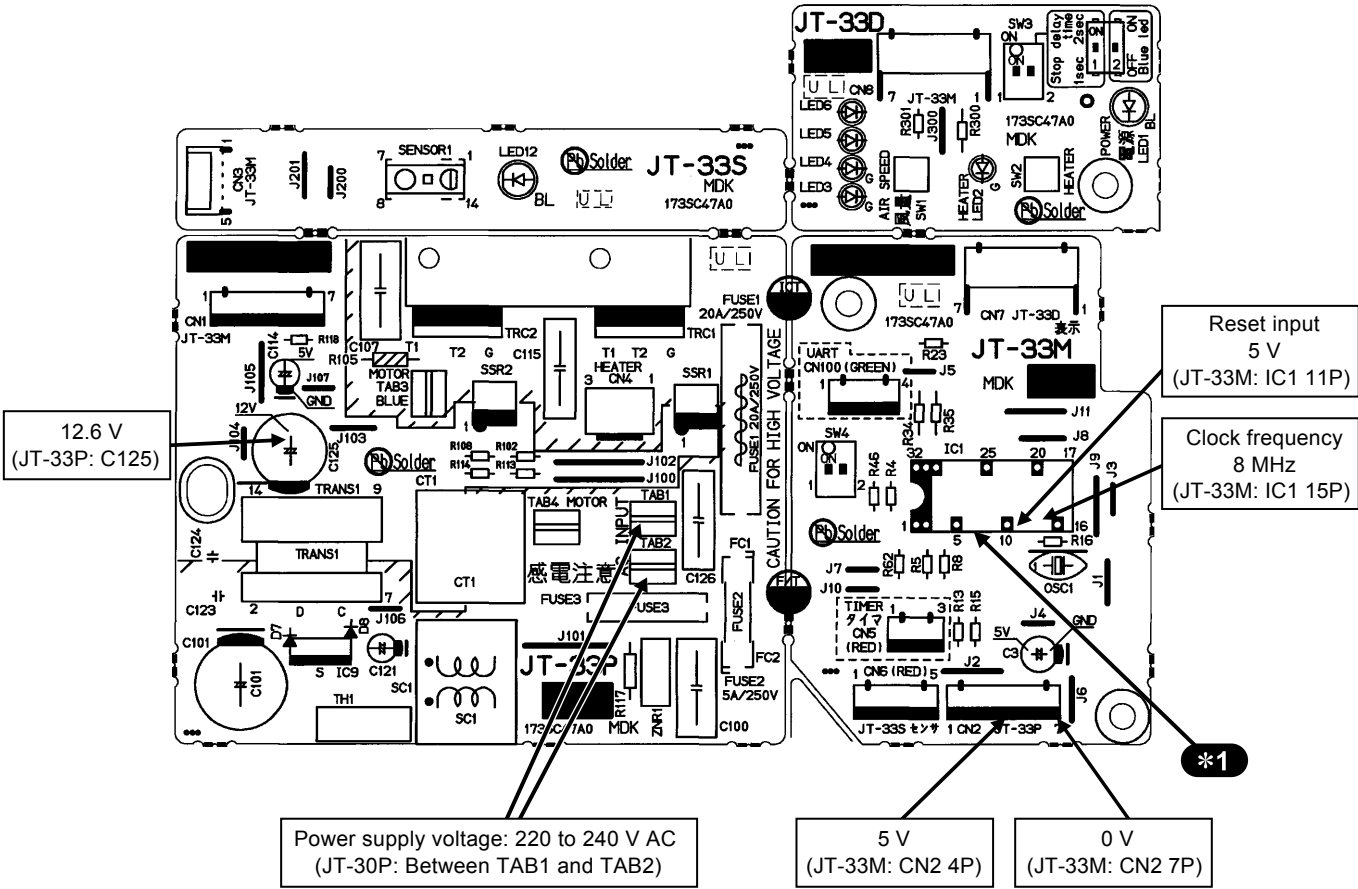


## 6. Electrical wiring diagram



# 7. Circuit board diagram

● Circuit board diagrams and check points



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

Temperature	IC1 7P and 8P Voltage
20°C	3.44 V
40°C	2.38 V
60°C	1.47 V

## 8. Fundamentals of operation

### ● Descriptions of circuit operation

#### (1) Notes for turning the power switch ON / OFF

- ① When the power switch is turned ON, the power lamp (LED 1) turns on after 1.5 seconds, and the hand dryer becomes ready for operation.
  - Before the power lamp 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 switch is turned OFF, the power lamp 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 switch 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 When the sensor detects hands, the blower motor turns on and the hand dryer starts to operate.
- ③ Once operation has started, it continues as long as the sensor detects hands.
- ④ 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).
- ⑤ 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 air speed can be changed by pressing the air speed switch (SW1).
- ② The hand dryer has two air speed settings.
- ③ 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
- ④ 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, with the air speed setting HIGH

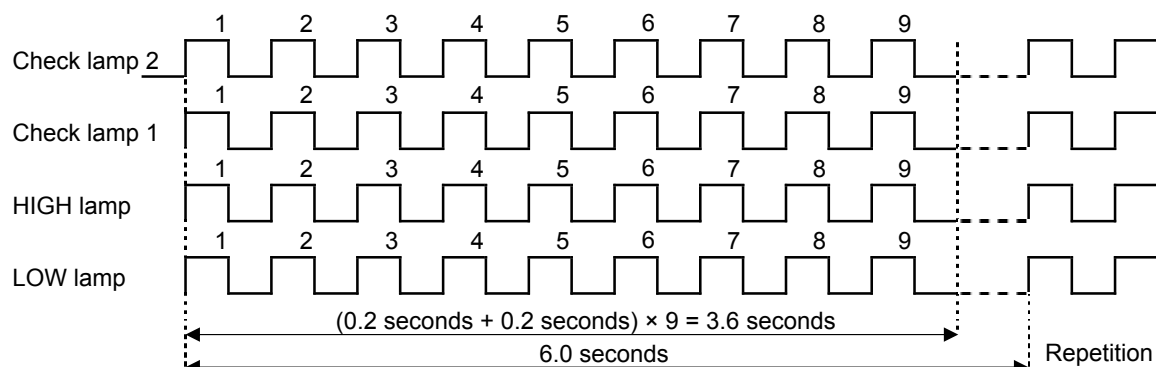
#### (4) Control of the heater

- 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 OFF
  - When a temperature detected by the thermostat on the control circuit board (JT-33M) is 35°C or higher, or when a temperature detected by the thermostat on the power circuit board (JT-33P) is 55°C or higher

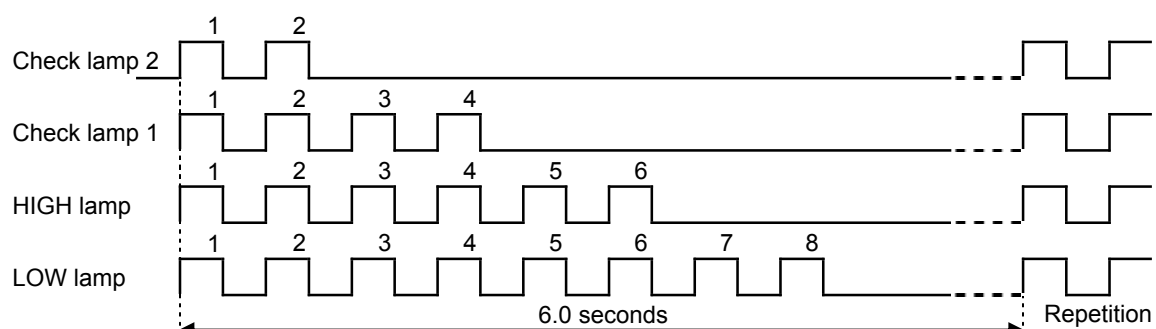
## (5) Operating procedures for the test mode: indicating the number of operation/operating time

- ① How to start the test mode: Turn ON the power switch while holding down both of the heater switch and air speed switch. At this time, the power lamp blinks fast (ON for 0.1 seconds/OFF for 0.1 seconds).
- ② Lighting status of the heater lamp shows the contents of the indication.
  - The heater lamp ON : The cumulative number of operation of the blower
  - The heater lamp OFF : The cumulative operating time of the blower
 Use the heater switch to switch between ON and OFF.
- ③ The air speed lamps (HIGH and LOW) and check lamps (1 and 2) indicate the cumulative number of operation.
  - Display digit: A 4-digit display (Check lamp 2 (LED 6) indicates a hundred-thousands digit, check lamp 1 (LED 5) indicates a ten-thousands digit, HIGH lamp (LED 4) indicates a thousands digit, and LOW lamp (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 lamp 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 air speed lamps (HIGH and LOW) and check lamps (1 and 2) indicate the cumulative operating time.
  - Display digit: A 4-digit display (Check lamp 2 (LED 6) indicates a thousands digit, check lamp 1 (LED 5) indicates a hundreds digit, HIGH lamp (LED 4) indicates a tens digit, and LOW lamp (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 or 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 lamp: Fast blinking (ON for 0.1 seconds/OFF for 0.1 seconds)

HIGH lamp, LOW lamp, check lamp 1, and check lamp 2: OFF

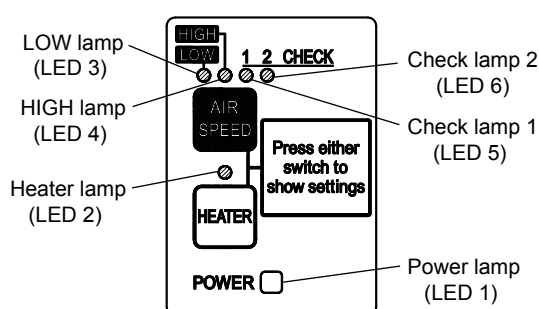
- ⑤ During the test mode, the hand dryer only performs the above indication, and does not perform any other operations including blowing air.
- ⑥ How to finish the test mode: Turn OFF the power switch, and wait for about 30 seconds. Turn ON the power switch again, and then the mode returns to the normal operation.

## 9. Troubleshooting

### ■ Work precautions

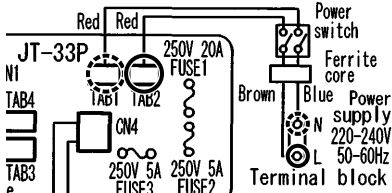
- When servicing, recreate the malfunction two or three times before starting repairs.
- When servicing, always take care to keep proper footing.
- Before starting the service, always unplug the power cord from the outlet, or turn off the earth leakage breaker when no power cord plug is provided. Sufficient 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



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

### Troubles with error display

Error Display						Cause	Check Method and Remedy		
Power	Heater	LOW	HIGH	Check 1	Check 2	Connector disconnection	Check if the lead wire connectors between the power circuit board (JT-33P) and the control circuit board (JT-33M) are disconnected.		
●	●	●	●	●	●	Blowout of the current fuse	Measure the resistance across the current fuses (FUSE 1 and 2) on the power circuit board (JT-33P). If the resistance is not normal, replace the power circuit board (JT-33P).		
(The hand dryer does not operate, and no lamps light up.)							Resistance	Judgment	
							0 Ω	Normal	
						Malfunction of the power switch	To check the power switch operation ON/OFF, measure the resistance between TAB1 on the power circuit board (JT-33P) and the blue lead connector of the terminal block (indicated by ○), and between TAB2 and the brown lead connector (indicated by ○). If the resistance is not normal, replace the switch.		
									
							Switch	Resistance	Judgment
							ON state	0 Ω	Normal
							OFF state	∞ Ω	Normal
						Malfunction of the control circuit board (JT-33M)	If the error persists after performing the above, replace the control circuit board (JT-33M).		
						Malfunction of the power circuit board (JT-33P)	If the error persists after replacing the control circuit board (JT-33M), replace the power circuit board (JT-33P).		

Error Display						Cause	Check Method and Remedy					
<div><div>Power</div><div>Heater</div><div>LOW</div><div>HIGH</div><div>Check 1</div><div>Check 2</div></div> <div>●●●●●●</div> <div>(The hand dryer operates, but no lamps light up.)</div>						Tilted or fallen LED	Make sure that the LEDs on the display circuit board (JT-33D) are upright.					
						Malfunction of the display circuit board (JT-33D)					<div><div><div>JT-33D Display circuit board</div><div>LED3 LED4 LED5 LED6</div><div>LED2</div><div>LED1</div><div>CN8</div><div>7</div></div><div><div>JT-33M</div><div>7</div><div>CN7</div><div>1</div><div>5</div><div>CN3</div><div>Sensor circuit board JT-</div></div></div> <div>Is the connector on the display circuit board (JT-33D) or the one on the control circuit board (JT-33M) securely connected?</div>	Check if the connector CN8 on the display circuit board (JT-33D) or CN7 on the control circuit board (JT-33M) is disconnected.
												If the connector is not disconnected, replace the display circuit board (JT-33D). (If a light-emitting device of the display circuit board (JT-33D) is in a state of short circuit or open fault, the lamps do not light up.)
						Malfunction of the control circuit board (JT-33M)	If the error persists after performing the above, replace the control circuit board (JT-33M).					
	<div><div>Power</div><div>Heater</div><div>LOW</div><div>HIGH</div><div>Check 1</div><div>Check 2</div></div> <div>☆●●●●●</div> <div>(Tamper-proof timer)</div>	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					Check for any objects left in the water receiver area, or any dirt sticking to the sensor area.					
Dirty sensor window					If the hand dryer operates for 40 seconds due to remaining foreign object or dirt on the sensor window, it automatically adjusts the sensor sensitivity after it has stopped, and the error display goes off. After removing the foreign objects or sensor dirt, reset the power (to set the sensor sensitivity again).							
Dirty sensor window					Dirt may shield the sensor. Wipe the dirt off the sensor window.							
Malfunction of the control circuit board (JT-33M)					If the error persists after performing the above, replace the control circuit board (JT-33M).							
<div><div>Power</div><div>Heater</div><div>LOW</div><div>HIGH</div><div>Check 1</div><div>Check 2</div></div> <div>☆●☆☆●☆</div> <div>(Power failure)</div>		Connector disconnection					Check if the lead wire connectors between the power circuit board (JT-33P) and the control circuit board (JT-33M) are disconnected.					
	Malfunction of the control circuit board (JT-33M)					Replace the control circuit board (JT-33M).						
	Malfunction of the power circuit board (JT-33P)					Replace the power circuit board (JT-33P)						
	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
Power	Heater	LOW	HIGH	Check 1	Check 2	Connector dis-connection for the motor	Check if the lead wire connectors between the motor and the power circuit board (JT-33P) are disconnected.
				☆	●	Motor brush at the end of its life	Replace the blower (assembly).
(Motor error)						Motor lock	Check if the motor vanes are locked.
						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 (JT-33M)	If no error is found after checking the above, replace the control circuit board (JT-33M).
						Malfunction of the power circuit board (JT-33P)	If the error persists after replacing the control circuit board (JT-33M), replace the power circuit board (JT-33P).
Power	Heater	LOW	HIGH	Check 1	Check 2	Unusually worn-out motor brush	Replace the blower (assembly).
				☆	●	Motor brush at the end of its life	Replace the blower (assembly).
(Motor brush error)						Malfunction of the control circuit board (JT-33M)	If the error persists after performing the above, replace the control circuit board (JT-33M).
						Malfunction of the power circuit board (JT-33P)	If the error persists after replacing the control circuit board (JT-33M), replace the power circuit board (JT-33P).
Power	Heater	LOW	HIGH	Check 1	Check 2	An abnormal temperature has been detected.	If the temperature on the power circuit board (JT-33P) rises due to 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 (JT-33P)	If the error persists after performing the above, replace the power circuit board (JT-33P).
(Temperature detection error (Power circuit board))						An abnormal temperature has been detected.	If the temperature on the control circuit board (JT-33M) rises due to the overuse, the hand dryer stops the operation. Leave it until the temperature falls, and then check if the error occurs again.
Power	Heater	LOW	HIGH	Check 1	Check 2	Malfunction of the control circuit board (JT-33M)	If the error persists after performing the above, replace the control circuit board (JT-33M).
				☆	●		
(Temperature detection error (Control circuit board))						Malfunction of the control circuit board (JT-33M)	Replace the control circuit board (JT-33M).
Power	Heater	LOW	HIGH	Check 1	Check 2		
				●	●		
(Microcomputer error)							

Troubles without error display

Symptom	Cause	Check Method and Remedy									
The hand dryer does not blow warm air.	Malfunction of the heater switch	After checking that the connector is securely connected, measure the resistance across the heater switch on the display circuit board (JT-33D). If the resistance is not normal, replace the display circuit board (JT-33D). <table><tr><td>Switch</td><td>Resistance</td><td>Judgment</td></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>	Switch	Resistance	Judgment	ON state	0 Ω	Normal	OFF state	∞ Ω	Normal
	Switch	Resistance	Judgment								
	ON state	0 Ω	Normal								
	OFF state	∞ Ω	Normal								
	Blown thermal fuse of the heater	Measure the resistance between the heater lead connectors (red and white). If it is ∞ Ω, replace the heater (PTC).									
Ambient temperature is low.	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.										
Malfunction of the power circuit board (JT-33P)	If the error persists after performing the above, replace the power circuit board (JT-33P).										
	Malfunction of the control circuit board (JT-33M).	If the error persists after replacing the power circuit board (JT-33P), replace the control circuit board (JT-33M).									
The hand dryer does not stop blowing air.	Dirt on the sensor area	Check if the sensor window gets dirty.									
	Influence of light	Check if the sensor area is exposed to sunlight or strong light.									
	Malfunction of the power circuit board (JT-33P)	If the error persists after performing the above, replace the power circuit board (JT-33P).									
	Malfunction of the control circuit board (JT-33M)	If the error persists after replacing the power circuit board (JT-33P), replace the control circuit board (JT-33M).									
The air speed can not be changed.	Malfunction of the air speed switch	After checking that the connector is securely connected, measure the resistance across the air speed switch on the display circuit board (JT-33D). If the resistance is not normal, replace the display circuit board (JT-33D). <table><tr><td>Switch</td><td>Resistance</td><td>Judgment</td></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>	Switch	Resistance	Judgment	ON state	0 Ω	Normal	OFF state	∞ Ω	Normal
	Switch	Resistance	Judgment								
ON state	0 Ω	Normal									
OFF state	∞ Ω	Normal									
	Malfunction of the control circuit board (JT-33M)	If the error persists after performing the above, replace the control circuit board (JT-33M).									
The hand dryer does not blow air even though hands are inserted.	Hands are too far away from the sensor.	Sensitivity range of the sensor is 8 to 13 cm directly below the sensor. When inserting hands, place hands close to the sensor.									

## 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.)	① If the power wires are disconnected, securely connect them to the terminal block. ② If the power switch is OFF, turn it ON. ③ If the earth leakage 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.	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.	① If the air speed is set at LOW, switch it to HIGH. ② 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 lamps	Do the lamps (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 earth leakage 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 earth leakage 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 Remove the clamping screw for the display circuit board.  
(One PTT screw 4 x 14, indicated by ○)
- ⑤ Remove the display circuit board (JT-33D).

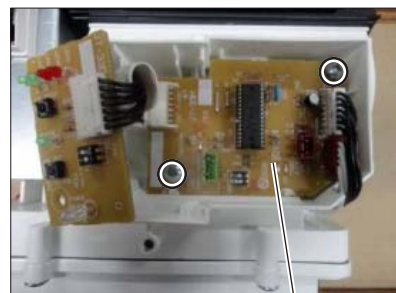
#### Assembly precaution

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



Display circuit board (JT-33D)

- ⑥ Remove the clamping screws for the control circuit board.  
(Two PTT screws 4 x 14, indicated by ○)
- ⑦ 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.



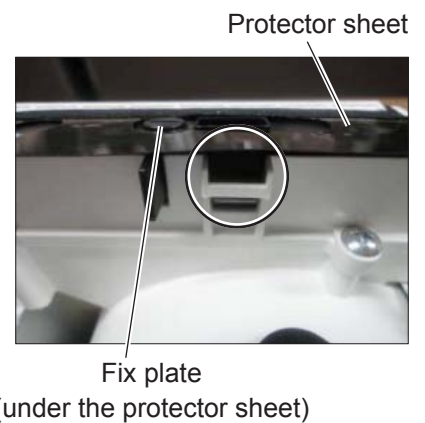
#### Assembly precaution

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

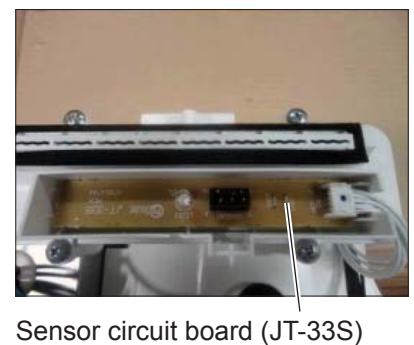


### (3) Sensor circuit board (JT-33S)

- 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) Switch (power) and 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 ○)



TB cover

- ③ Disconnect the lead connectors from the terminal block.



Terminal block

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

##### Assembly precaution

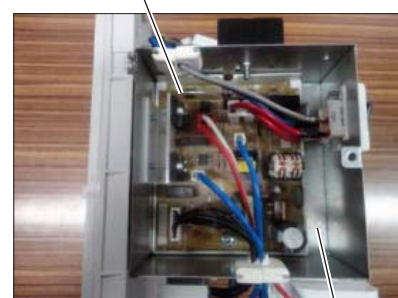
Set the entire bends of the PCB cover outside the PCB case.



PCB cover

- ⑤ Disconnect the lead wires from the power circuit board (JT-33P).

Power circuit board (JT-33P)



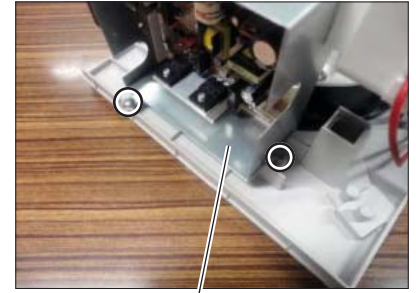
PCB case

- ⑥ Unscrew the switch clamping screw.  
(One PPT screw 3 x 8, indicated by ○)
- ⑦ Remove the switch.



Switch

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



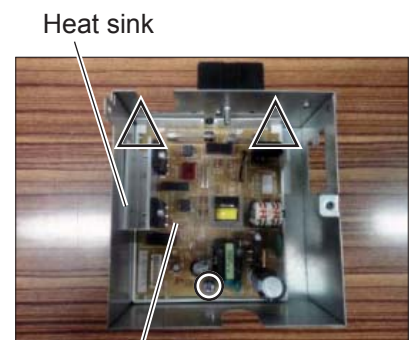
PCB case

- 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 △)

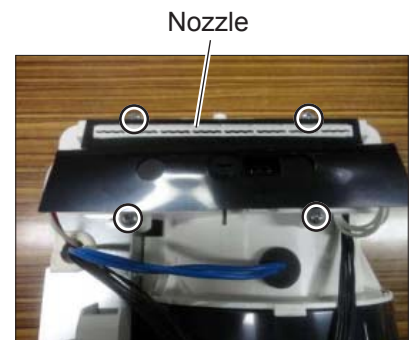


Power circuit board (JT-33P)

## (5) Heater (PTC)

- ① Disconnect the heater lead wires from the power circuit board (JT-33P). → See (4) ① to ② and ④ to ⑤.
- ② Unscrew the nozzle clamping screws.  
(Four PTT screws 4 x 14, indicated by ○)

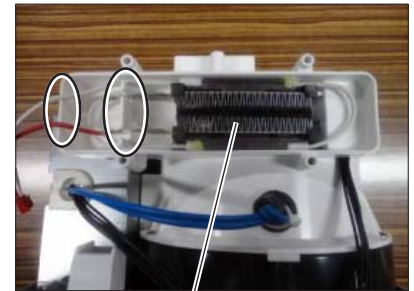
Assembly precaution  
Tighten the screws in a crisscross pattern.



- ③ Remove the heater (PTC) with the fix plates (heater).

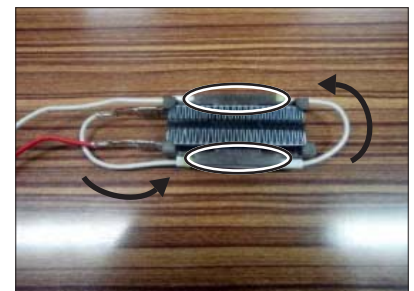
Assembly precautions

- 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 fix plates (heater).  
(Indicated by ○)



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

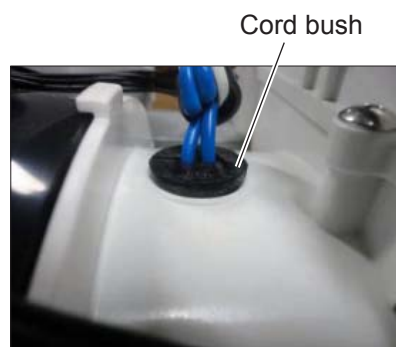
- ① Disconnect the blower lead wires from the power circuit board (JT-33P). → See (4) ① to ② and ④ to ⑤.
- ② Push the cord bush into the blower cover. (Indicated by ○)



Blower cover

### 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 ○)



Duct

### Assembly precaution

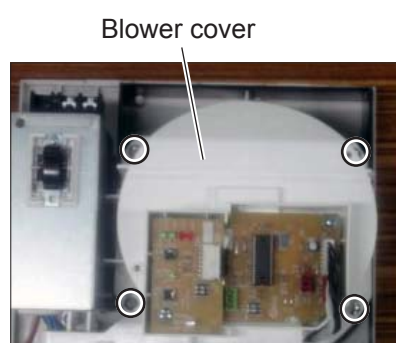
Set the duct in the groove of the blower cover. (Indicated by ○)



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

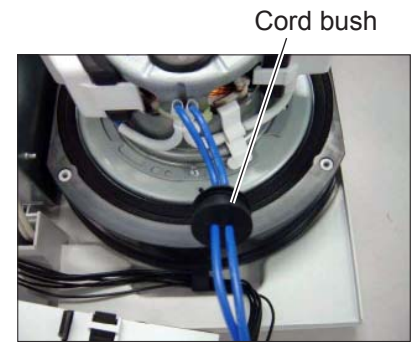
### Assembly precaution

Tighten the screws in a crisscross pattern.



Blower cover

- ⑤ Remove the cord bush.

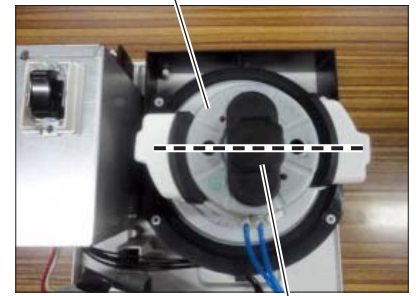


- ⑥ Remove the blower stopper.

- ⑦ Remove the blower (assembly).

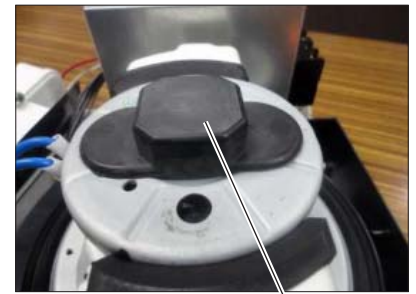
Assembly precaution  
Set the blower (assembly) horizontally.

Blower (assembly)



Blower stopper

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





Blower stopper

### \* When reassembling

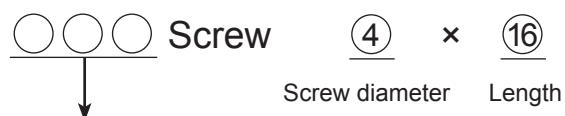
- Reassemble the unit in the reverse order of disassembly.
- After reassembly, always make a test run to make sure that the unit operates properly.

## 13. Parts catalog

### Please note the following when using the parts catalog.

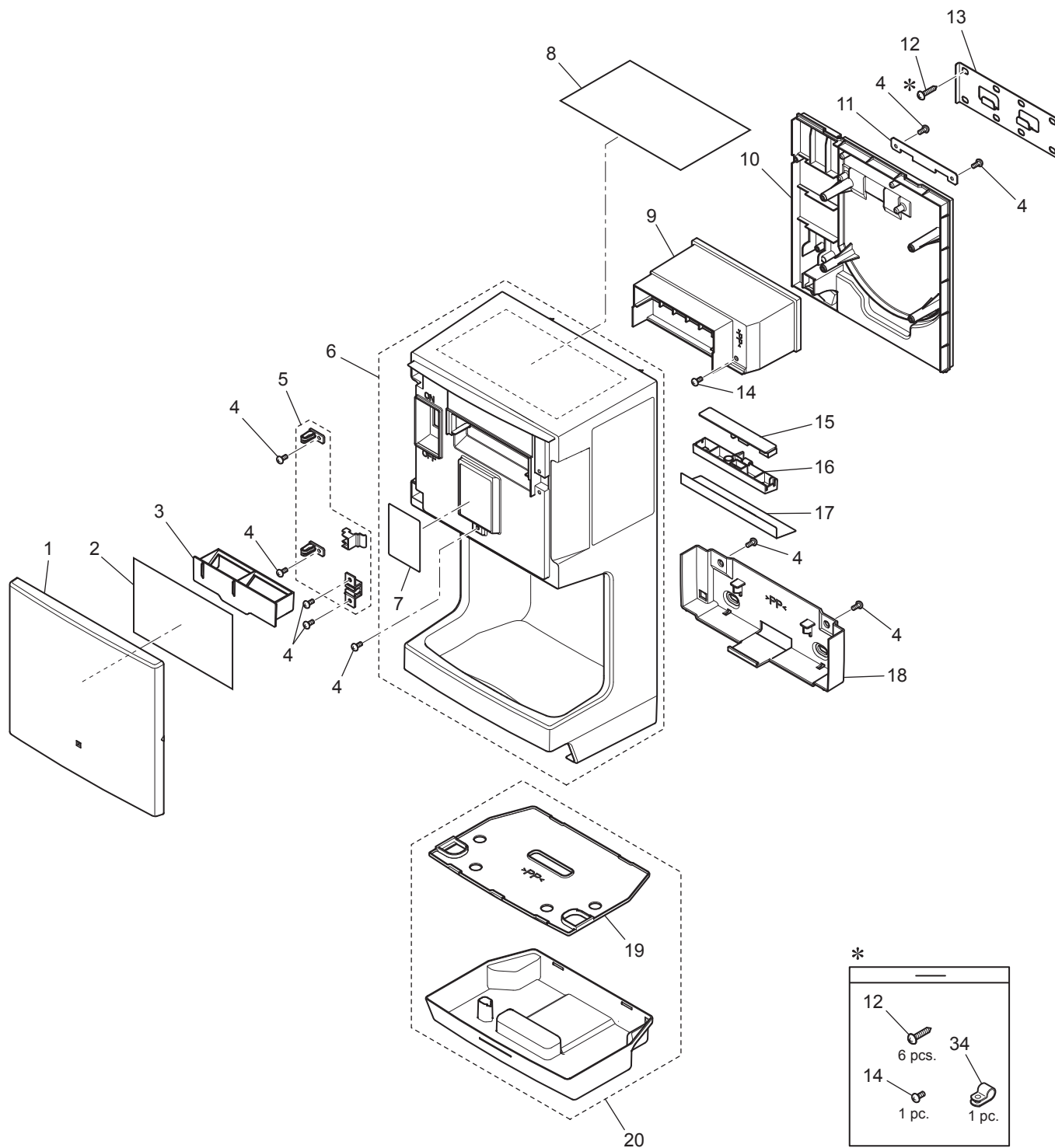
1. When ordering parts, the part number, part name, and the number of parts are required.
2. It may take time for you to receive the parts. Make an inquiry about a rush order.
3. Specifications may be subject to change without notice.
4. Parts marked with  and  are critical for safety.
5. To maintain 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



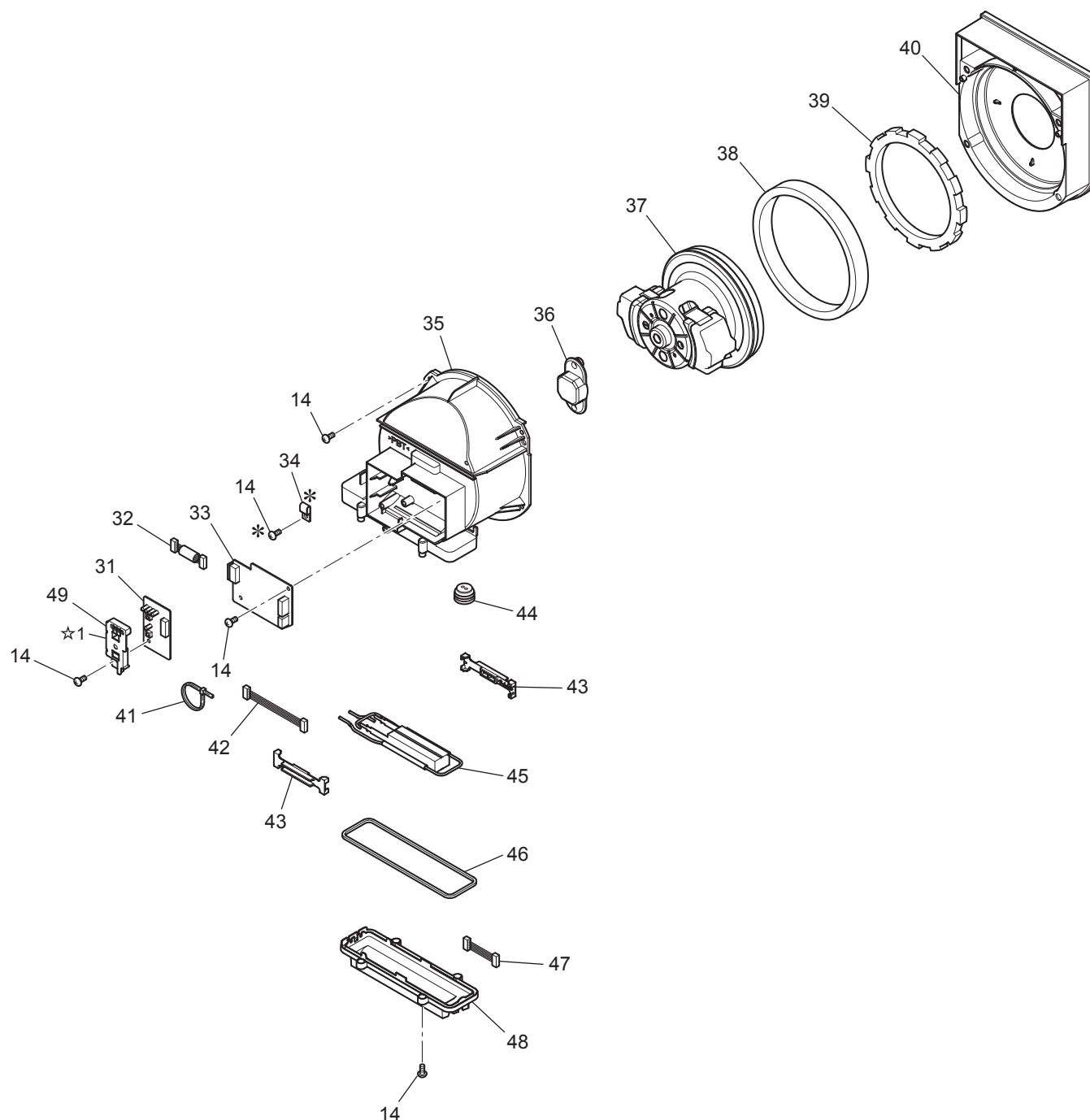
\* shows accessory parts.

## Body parts

JT-MC206GS-W-E

No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
1	Decorated panel	Y45 627 800	1		
2	Indicator plate	Y45 627 369	1		Error note
3	Filter	Y45 650 853	1	⚠	
4	Spl screw 4x14	Y45 650 049	9		
5	Panel support	Y45 650 886	1		
6	Panel (assy)	Y45 627 801	1		
7	Indicator plate	Y45 627 803	1		
8	Wiring diagram	Y45 627 362	1		
9	Duct	Y45 650 846	1		
10	Base	Y45 650 854	1		
11	Fix plate	Y45 650 850	1		
12	Spl screw 5x30	Y45 650 048	6		
13	Fix plate	Y45 650 858	1		
14	PTT screw 4x14	Y45 650 007	16		
15	Circuit board	Y45 627 171	1	⚠	
16	Fix plate	Y45 627 809	1		
17	Protector sheet	Y45 650 857	1	⚠	
18	Base (lower)	Y45 650 849	1		
19	Tank cover	Y45 650 848	1		
20	Drain tank	Y45 650 845	1		With the tank cover

## Blower parts



<Notes for the LED fix piece indicated by ☆1>

The LED fix piece (No.49) was added because of design change during production, so there are two types of specifications on the market. To find out which type of specifications a product is, see the product number (that indicates production year and month) marked on the nameplate.

Product number (date of production)	Up to 1309 (September 2013)	Beginning 1310 (October 2013)
	The LED fix piece is not used.	The LED fix piece is used.

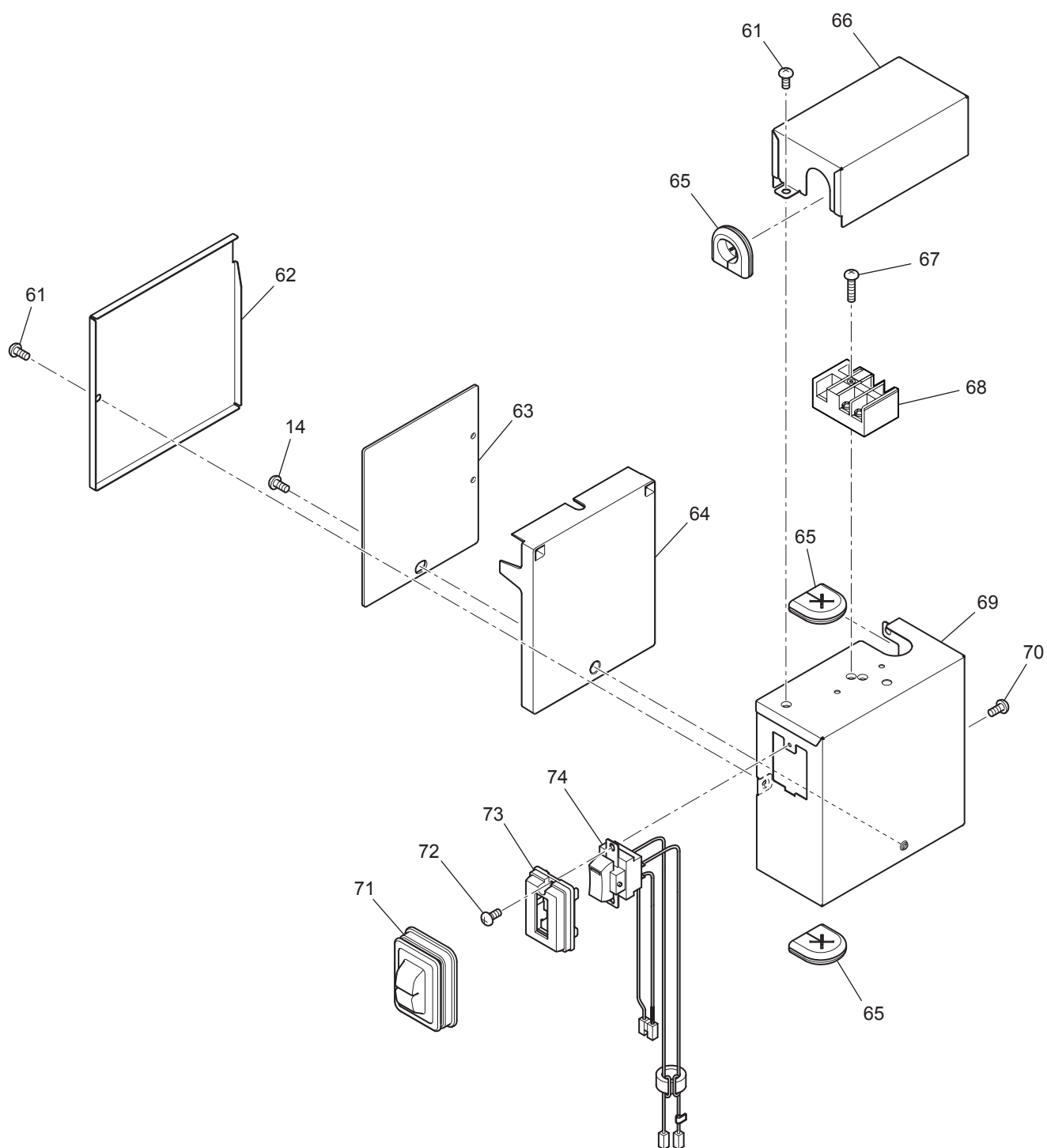
\* shows accessory parts.

## Blower parts

JT-MC206GS-W-E

No.	Name of part	Parts No.	Q'ty pcs/unit	Critical for safety	Remarks
31	Circuit board	Y45 627 172	1	⚠	
32	Lead wire	Y45 650 281	1	⚠	Micon-Display
33	Circuit board	Y45 627 174	1	⚠	
34	Cord clip	Y45 650 244	1		
35	Blower cover	Y45 627 806	1		
36	Blower stopper	Y45 627 227	1		
37	Blower (assy)	Y45 627 802	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 627 280	1	⚠	94°C, with the thermal fuses
46	Packing	Y45 650 246	1		
47	Lead wire	Y45 627 281	1	⚠	Micon-Sensor
48	Nozzle	Y45 650 847	1		
49	LED fix piece	Y45 650 887	1		

## Circuit board parts



## Circuit board parts

JT-MC206GS-W-E

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 627 173	1	⚠	
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 627 242	1	⚠	
69	PCB case	Y45 627 804	1		
70	SW-PW PP screw M4	Y45 650 038	2		
71	Cover (switch)	Y45 650 249	1		
72	PPT screw 3x8	Y45 650 006	1		
73	Switch holder	Y45 627 808	1		
74	Switch	Y45 627 258	1	⚠	