E5

Service Manual

TOASTER



Model No. NT-ZP1HVA Model No. NT-ZP1VVA

Chassis

Product Color H:Gray, V:Violet Destination USA / Canada

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE =

There are special components used in this equipment which are important for safety. These parts are marked by \triangle in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer

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1 Safety Precautions

The precautions listed below must be followed in order to prevent accidents during repair and ensure the safety of the product after repair.

■ The following labels describe the degree of danger and damage that might result through non-compliance with these precautions.

Danger This section warns of the urgent danger of death or serious injury.			
\triangle	Warning	This section warns of the risk of death or serious injury.	
<u> </u>	Caution	This section warns of the risk of injury or damage to property.	

■ The following labels describe the types of rules that need to be followed. (These labels are examples.)

\triangle	This label shows a "reminder" action to be paid attention to.				
0	This label shows a "prohibited" action.				
0	This label shows a "compulsory" action to be followed without fail.				

Marning

After repair, return wiring to its original condition.



Rotary parts or part extremities that contact lead may cause failure, electrical shock, or fire.

Before repair.

CUT A.C. POWER LINE Make sure to cut off the power line before disassembly, parts replacement, and assembly.

Otherwise, electrical shock or injury may occur.

Use a designated part



Make sure to use a designated part when the part is marked in circuit diagrams and parts lists.

Otherwise, smoke, fire, or failure may occur.

Wait until the rotary part has stopped completely.



You may injure your hands even when the part is rotating slowly.

Do not touch





Wear gloves for disassembly, replacement and assembly.

Make sure to wear gloves in order to prevent injuries by metal edges and electric shock when the power is turned on.

2 Specifications

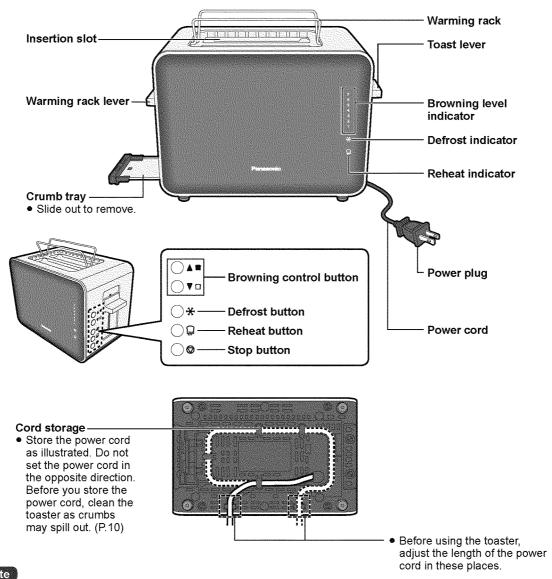
	NT-ZP1
Power supply	120 V ∼ 60 Hz
Power consumption	850 W
Dimensions (W \times D \times H) (approx.)	$29.8 \times 16.0 \times 19.5 \text{ cm} (11.7 \times 6.3 \times 7.7 \text{ inches})$
Mass (approx.)	2.7 kg (5.9 lb.)
Length of the power cord (approx.)	0.9 m (35.4 inches)

3 Installation Instructions

3.1. Partts Names and Handling Instructions

Part Names and Handling Instructions

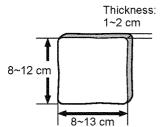
■ Please remove the protection seals from the appliance before use.



Note

 When using the toaster for the first time, there may be a small amount of smoke or smell. This will disappear with usage.

■ Size of bread



- · Insert the bread with the longer side facing down.
- If the bread is too large, thick, thin or bread with uneven surfaces, it may get jammed or caught inside of the toaster.
- If the bread is too small, it may get caught inside of the toaster or pop it up.
- If bread gets jammed, unplug the toaster, let it cool, and carefully remove the bread. Otherwise it will keep toasting. Do not use anything sharp to remove the bread, you will damage the heating elements.

4 Operating Instructions

4.1. How to Use

How to Use ~Toasting bread~

Plug in and insert the slice(s) of bread into the insertion slots.

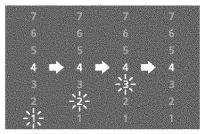
Note

- Make sure the crumb tray is clean and set in place correctly before plugging in.
- When toasting a slice of bread, use either insertion slot.

Lower the toast lever until it locks.

- The number of the selected level on the browning level indicator will light up until toasting is completed.
 - After a period of time, the indicator starts flashing from level 1, and rises up the indicator as browning progresses, up to the selected level.
 - The toast will pop up automatically. If the toast does not pop up fully, lift the toast lever up manually.

e.g. When it set on 4.



■ To change toasting color.

The toaster memorizes the previous setting. If you wish to change setting, press the browning control button shortly after following steps 1 and 2 in "Toasting bread".

The browning level indicators will light up and change each time the button is pressed.

Note

- When toasting a single slice of bread, the color will be darker than that when toasting two slices of bread.
- Toasting color may vary depending on the thickness and type of bread, as well as the room temperature and humidity.
 (Dry bread browns faster than fresh bread.)

▲ ■ (Darker) ▼ □ (Lighter)

■ To toast frozen bread

Press the defrost button shortly after following steps 1 and 2 in "Toasting bread".



■ To reheat toast

Press the reheat button shortly after following steps 1 and 2 in "Toasting bread".



Note

• The browning control cannot be applied to the reheat function.

■ To cancel toasting or reheating bread

Press the stop button to cancel toasting bread. The toast lever will lift up and bread will pop up.



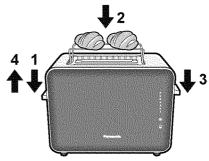
Note

The defrost and reheat buttons light up when they are pressed.
 If the buttons are pressed again while light stayed on, the selected function will be canceled and toasting function will be activated.

~Warming up rolls~

- Plug in and lower the warming rack lever until it locks.
- Place rolls on top of the warming rack.

• Do not place frozen, buttered, coated, iced or filled rolls or aluminium foil.



- Lower the toast lever and set the browning level to 1.

 - The toaster will be turned off automatically.
 If the rolls are not warm enough, repeat step 1 to 3.

Note

- Do not set browning level to level 2 or higher.
- Remove the rolls and lift the warming rack lever.

• Beware of the warming rack and body, it is hot.

When toasting bread or warming rolls consecutively

- · When toasting bread or warming rolls consecutively for more than 4 cycles, rest the toaster for more than 1 minute after each cycle.
- When toasting bread consecutively, toasting color may vary slightly.

4.2. **How to Clean**

How to Clean

- Clean the appliance after every use.
- Unplug and make sure the appliance is cooled down completely.

- Do not use benzine, thinner, alcohol, bleach, polishing powder, metal brush or nylon brush, otherwise the surface will be damaged
- Do not wash in a dishwasher.

Interior

Shake the main body lightly to allow crumbs inside to fall onto the crumb tray.

To avoid breaking down.

- Do not turn upside-down and shake. (It may cause a malfunction.)
- Do not insert objects into the insertion slots.

Exterior

Wipe with a well-wrung cloth.

Crumb Tray

Wash with diluted dish soap (neutral) and a soft sponge.

4.3. **Troubleshooting**

Troubleshooting • Please check the following before requesting service.

Cause

Problem

The lever does not lock when it is lowered.

The power plug is not plugged in. Plug it in firmly.

Toasting bread consecutively.

⇒ When operating the toaster for more than 4 cycles, rest the toaster for more than 1 minute after each cycle.

The browning control, defrost and reheat buttons do not work.

The toast lever is not lowered.

Select either button after lowering the toast lever.

The browning control button does not work while reheating function is on.

Bread does not pop up after toasting is finished.

The bread is deformed.

The bread is too large or too small.

The bread is too thick.

Lift the lever up manually. Use the appropriate size of bread. (P.7)

Toasting color is too dark or too light.

The browning control is not set appropriately.

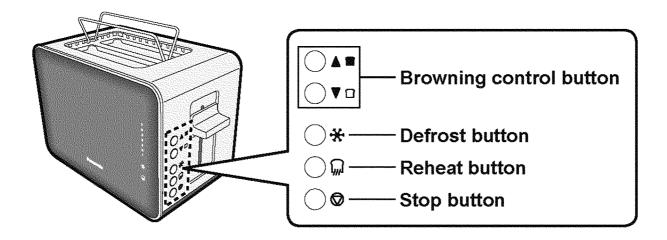
Toasting bread consecutively.

→ When operating the toaster for more than 4 cycles, rest the toaster for more than 1 minute after each cycle.

5 Troubleshooting Guide

Before starting the troubleshooting, check the action of the oven according to the operation check test is below.

5.1. Operation check test for the P.C. board (Do not turn on the power of the heater during the check test.)



< Mounting / Un mounting >

	ZP1
SW1	Reheat
SW2	Defrost
SW3	Up
SW4	Down
SW5	Stop

	ZP1
Buzzer	Mounting

	ZP1
LED1	Level 1
LED2	Level 2
LED3	Level 3
LED4	Level 4
LED5	Level 5
LED6	Level 6
LED7	Level 7
LED8	Reheat
LED9	Defrost

< Operation check test for the P.C. board >

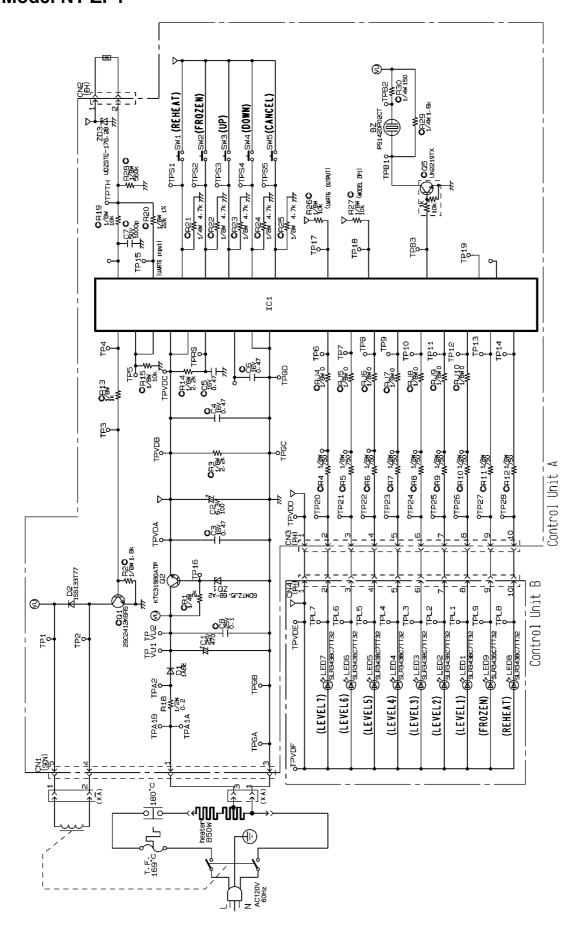
The DP1 type is not equipped with a buzzer.

No.	Operation	Working desc	Items to be checked		
INO.	Ореганоп	Display and buzzer information	Action	items to be offended	
1	 Insert power supply cord in an outlet. Push the "stop" button and reset a toaster. Push "Defrost" button, "Reheat" button, the "up" button at the same time. A lever is lowered downward, pushing three buttons. 	 Any LED turns on in LED1-4 for browming level indicator. A buzzer sounds in succession. After having passed for 60 seconds or when push the "stop" button, reset it. 	No power is supplied to the heater. The power supply solenoid output becomes ON.	Check if the mode changes to the test one. * The mode change was ended in failure. (Perform the operation of No.1 again.)	
2	Press the "Reheart" button.(SW1)	 LED lighting of browning level 1. After having passed for 60 seconds or when push the "stop" button, reset it. 			
3	Press the "Defrost" button.(SW2)	LED lighting of browning level 2. After having passed for 60 seconds or when push the "stop" button, reset it.			
4	Press the "Up" button.(SW3)	 LED lighting or lights out of browning level 3. After having passed for 60 seconds or when push the "stop" button, reset it. 		Lights up or non-lighting by AD input value. Turn on or level 3 of the LED for browming level indicator turns off the light depending on terms of use when tests it.	

No.	Operation	Working descr	Items to be checked	
INO.	·	Display and buzzer information	Action	items to be checked
5	Press the "Down" button.(SW4)	LED lighting or lights out of browning level 4. After having passed for 60 seconds or when push the "stop" button, reset it.		Lights up or non-lighting by AD input value. Turn on or level 4 of the LED for browming level indicator turns off the light depending
				on terms of use when tests it.
6	Press the "Reheart" button.(SW1)	LED lighting of browning level 5. After having passed for 60 seconds or when push the "stop" button, reset it.		
7	Press the "Reheart" button.(SW1)	LED lighting of browning level 6. After having passed for 60 seconds or when push the "stop" button, reset it.		
8	Press the "Reheart" button.(SW1)	LED lighting of browning level 7. After having passed for 60 seconds or when push the "stop" button, reset it.		
9	Press the "Reheart" button.(SW1)	LED lighting of "Reheat". After having passed for 60 seconds or when push the "stop" button, reset it.		
10	Press the "Reheart" button.(SW1) After checking, press the "Stop" button.	LED lighting of "Defrost". After having passed for 60 seconds or when push the "stop" button, reset it. to finish the test		

6 Schematic Diagram

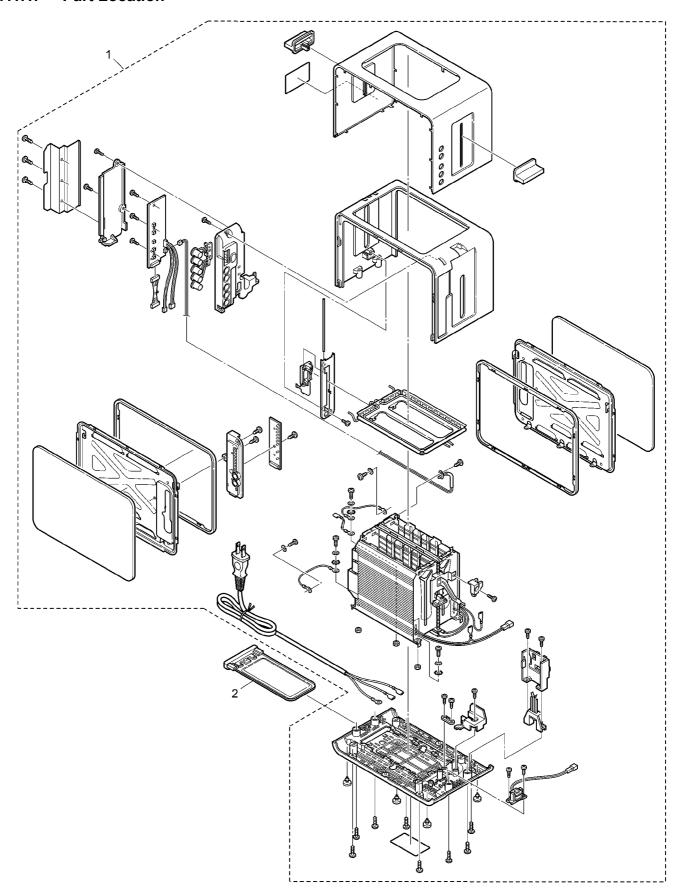
6.1. Model NT-ZP1



7 Exploded View and Replacement Parts List

7.1. Model NT-ZP1

7.1.1. Part Location



7.1.2. REPLACEMENT PARTS LIST

Notes:Important safety notice

- Components identified by △ mark have special characteristics important for safety.
- " When replacing any of these components use only manufacturer's specified parts."

Safety	Ref. No. Part No.	Part No. Part Name & Description	Pcs/Set		Remarks	
Salety		Part Name & Description	ZP1HVA	ZP1VVA	Remarks	
		<parts list=""></parts>				
Δ	1	ATA61A108H0S	Main body unit	1		GRAY 120V A-2 plug
Δ	1	ATA61A108V0S	Main body unit		1	VIOLET 120V A-2 plug
	2	ATA86-108-K0	Crumb tray	1	1	
		<packing specificati<="" td=""><td>ONS></td><td></td><td></td><td></td></packing>	ONS>			
		ATZ51A108-H0	Individual box	1		GRAY
		ATZ51A108-V0	Individual box		1	VIOLET
		ATZ20-108	Cushion set	1	1	
Δ		ATZ50A108	Operating instructions	1	1	

7.1.3. PACKING INSTRUCTION

