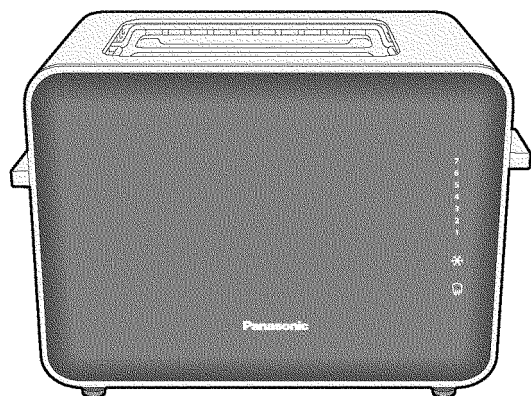


Service Manual

TOASTER



NT-ZP1

Model No. **NT-ZP1-V**Model No. **NT-DP1-B**Model No. **NT-DP1-W**

Chassis

Product Color V:Violet, B:Black, W:White

Destination CHINA

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  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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Panasonic

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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.


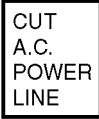


■ The following labels describe the degree of danger and damage that might result through non-compliance with these precautions.

| | | |
|---|----------------|---|
|  | Danger | This section warns of the urgent danger of death or serious injury. |
|  | Warning | This section warns of the risk of death or serious injury. |
|  | 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.)

| | |
|---|---|
|  | This label shows a "reminder" action to be paid attention to. |
|  | This label shows a "prohibited" action. |
|  | This label shows a "compulsory" action to be followed without fail. |

**Warning**

| | |
|---|---|
| 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. <div> Make sure to cut off the power line before disassembly, parts replacement, and assembly. Otherwise, electrical shock or injury may occur.</div> |
| 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 |

**Caution**

| |
|---|
|  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

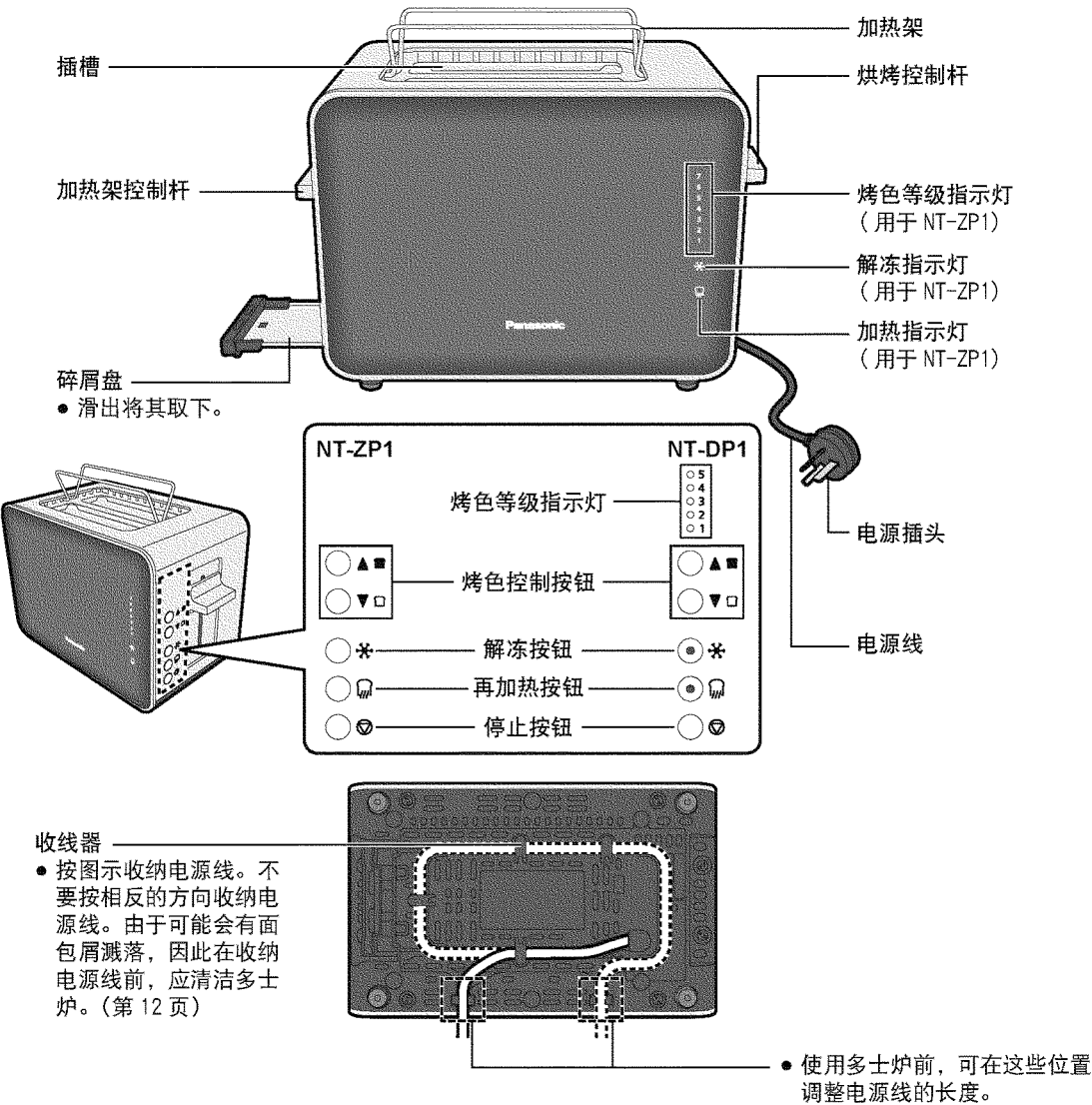
| | NT-ZP1 | NT-DP1 |
|-------------------|-----------------------|-----------------------|
| 电源 | 220 V ~ 50 Hz | |
| 功耗 | 850 W | |
| 尺寸（宽 × 深 × 高）（大约） | 29.8 × 16.0 × 19.5 cm | 29.8 × 15.5 × 19.5 cm |
| 重量（大约） | 2.7 kg | 2.0 kg |
| 电源线长度（大约） | 0.9 m | |

3 Installation Instructions

3.1. Partts Names and Handling Instructions

部件名称和操作说明

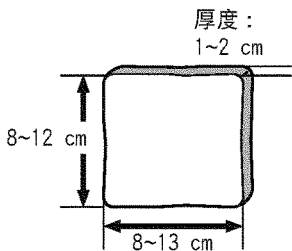
- 内部插图的机型主要为 NT-ZP1。
- 使用前，请从本产品上取下保护膜。



说明

- 初次使用多士炉时，可能会有少量的烟雾或气味。随着使用次数的增多，这种现象将会消失。

■ 面包尺寸



- 插入面包时将较长的一面朝下。
- 如果面包太大、太厚、太薄或表面凹凸不平，可能会被卡住或夹在多士炉内。
- 如果面包太小，可能会夹在多士炉内或被弹出。
- 如果面包被卡住，应拔下多士炉的电源插头，待本产品冷却后，再小心取出面包。否则，本产品将会持续烘烤操作。不要使用任何锋利物品取出面包，否则会损坏加热元件。

安全注意事项

重要信息

部件名称和操作说明

4 Operating Instructions

4.1. How to Use

如何使用 ~ 烤面包 ~

1 接通电源，将面包片插入插槽。

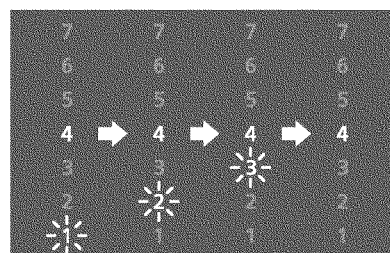
说明

- 接通电源前，确认碎屑盘洁净，并将其正确安装到位。
- 烤面包片时，可使用任一插槽。

2 降下烘烤控制杆，直至其锁定到位。

- 烤色等级指示灯上的所选数字将会亮起，直到烘烤完成。
- 一段时间后，指示灯从第 1 级开始闪烁，并随着烤色变化程度的进展而上升，直至达到选定的等级。
- 面包片将自动弹出。如果面包片没有完全弹出，可以手动提升烘烤控制杆。

例如：当设定为 4 时。（NT-ZP1）



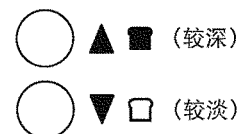
（NT-DP1 的烤色控制的范围为 1 至 5。）

■ 更改烘烤颜色。

多士炉可以记忆先前的设置。如果想要更改设置，可在执行“烤面包”中的步骤 1 和 2 后，立即按烤色控制按钮。每次按下按钮时，烤色等级指示灯便会亮起和变更。

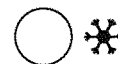
说明

- 烘烤单个面包片时，颜色会比烘烤两片面包时的颜色更深。
- 烘烤颜色可能会因面包的厚度和类型，以及室内的温度和湿度而有所不同。
（干面包的烤色变化速度要快于新鲜面包。）



■ 烘烤冷冻面包

在执行“烤面包”中的步骤 1 和 2 后，立即按解冻按钮。



■ 重新加热面包

在执行“烤面包”中的步骤 1 和 2 后，立即按再加热按钮。



说明

- 无法在加热功能中进行烤色控制。

■ 取消烘烤和加热面包

按停止按钮取消烘烤面包。
烘烤控制杆将会抬起并弹出面包。



说明

- 按下时解冻和再加热按钮亮起。
如果在指示灯亮起的情况下再次按下按钮，所选功能将被取消，并将启动烘烤功能。

~ 加热小面包 ~

1 接通电源，降下加热架控制杆，直至其锁定到位。

2 将小面包置于加热架上。

说明

- 不要放置冷冻的、黄油的、奶油的、冰镇的或带馅的小面包，也不要使用铝箔。

3 降下烘烤控制杆，将烤色等级设定为 1。

- 多士炉将自动关闭。
- 如果小面包不够热，可重复步骤 1 至 3。

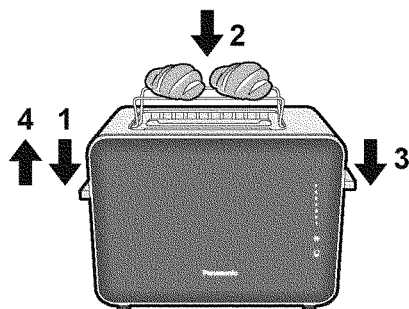
说明

- 不要将烤色等级设定为 2 级或更高的等级。

4 取下小面包，提升加热架控制杆。

说明

- 加热架和机身很烫，应小心操作。



连续烘烤面包或加热小面包时

- 如果烘烤面包或加热小面包连续工作超过 4 次循环，应在每次循环后将其冷却 1 分钟以上。
- 连续烘烤面包时，烘烤颜色可能略有不同。

4.2. How to Clean

如何清洁

- 每次用完后应清洗本产品。
- 拔下电源插头，确保本产品完全冷却。

说明

- 不要使用汽油、稀释剂、酒精、漂白剂、抛光粉、金属刷或尼龙刷，否则会损坏本产品表面。
- 不要使用洗碗机清洗。

| 内部 | 外部 |
|--|------------------------|
| 轻轻晃动机身，将机内的面包屑抖落到碎屑盘上。 <hr/> 避免故障。 <ul style="list-style-type: none">● 不要将本产品上下颠倒进行晃动。（否则可能导致故障。）● 不要在插槽中插入任何器具。 | 将布拧干进行擦拭。 |
| | 碎屑盘 |
| | 用稀释的洗洁精（中性）和柔软的海绵进行清洗。 |

4.3. Troubleshooting

故障排除

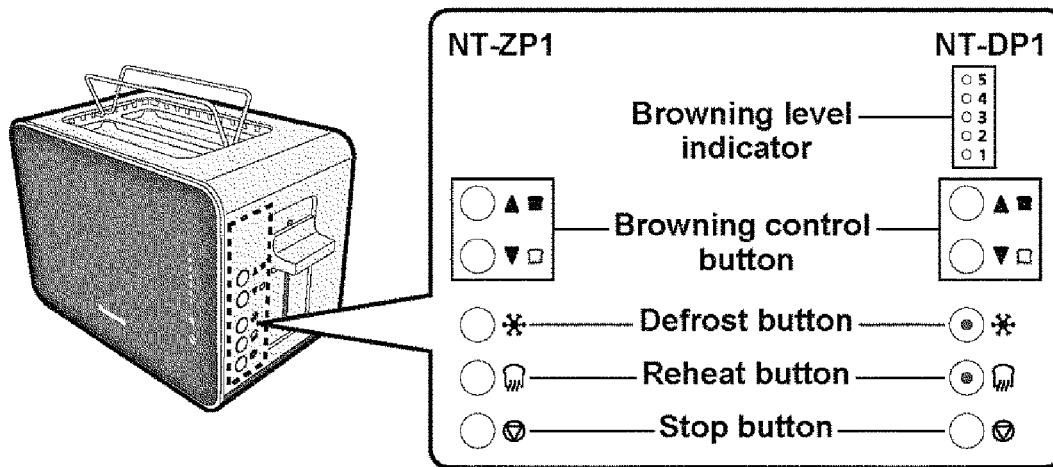
- 进行维修前，请检查以下几点。

| 问题 | 原因 |
|------------------|--|
| 降下控制杆时未将其锁定。 | <ul style="list-style-type: none">● 未插入电源插头。 → 将其牢固插入。● 连续烘烤面包。 → 如果多士炉工作超过 4 次循环，应在每次循环后将其冷却 1 分钟以上。 |
| 烤色控制、解冻和再加热按钮失灵。 | <ul style="list-style-type: none">● 未降下烘烤控制杆。 → 降下烘烤控制杆后选任一按钮。● 加热功能开启时烤色控制按钮失灵。 |
| 烘烤完成后面包没有弹出。 | <ul style="list-style-type: none">● 面包变形。● 面包太大或太小。● 面包太厚。 → 手动提升控制杆。 使用适当尺寸的面包。（第 9 页） |
| 烘烤颜色太深或太浅。 | <ul style="list-style-type: none">● 未正确设置烤色控制。● 连续烘烤面包。 → 如果多士炉工作超过 4 次循环，应在每次循环后将其冷却 1 分钟以上。 |

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 | DP1 |
|-----|---------|---------|
| SW1 | Reheat | Reheat |
| SW2 | Defrost | Defrost |
| SW3 | Up | Up |
| SW4 | Down | Down |
| SW5 | Stop | Stop |

| | ZP1 | DP1 |
|--------|----------|-------------|
| Buzzer | Mounting | Un mounting |

| | ZP1 | DP1 |
|------|---------|-------------|
| LED1 | Level 1 | Level 1 |
| LED2 | Level 2 | Level 2 |
| LED3 | Level 3 | Level 3 |
| LED4 | Level 4 | Level 4 |
| LED5 | Level 5 | Level 5 |
| LED6 | Level 6 | Un mounting |
| LED7 | Level 7 | Un mounting |
| LED8 | Reheat | Reheat |
| LED9 | Defrost | Defrost |

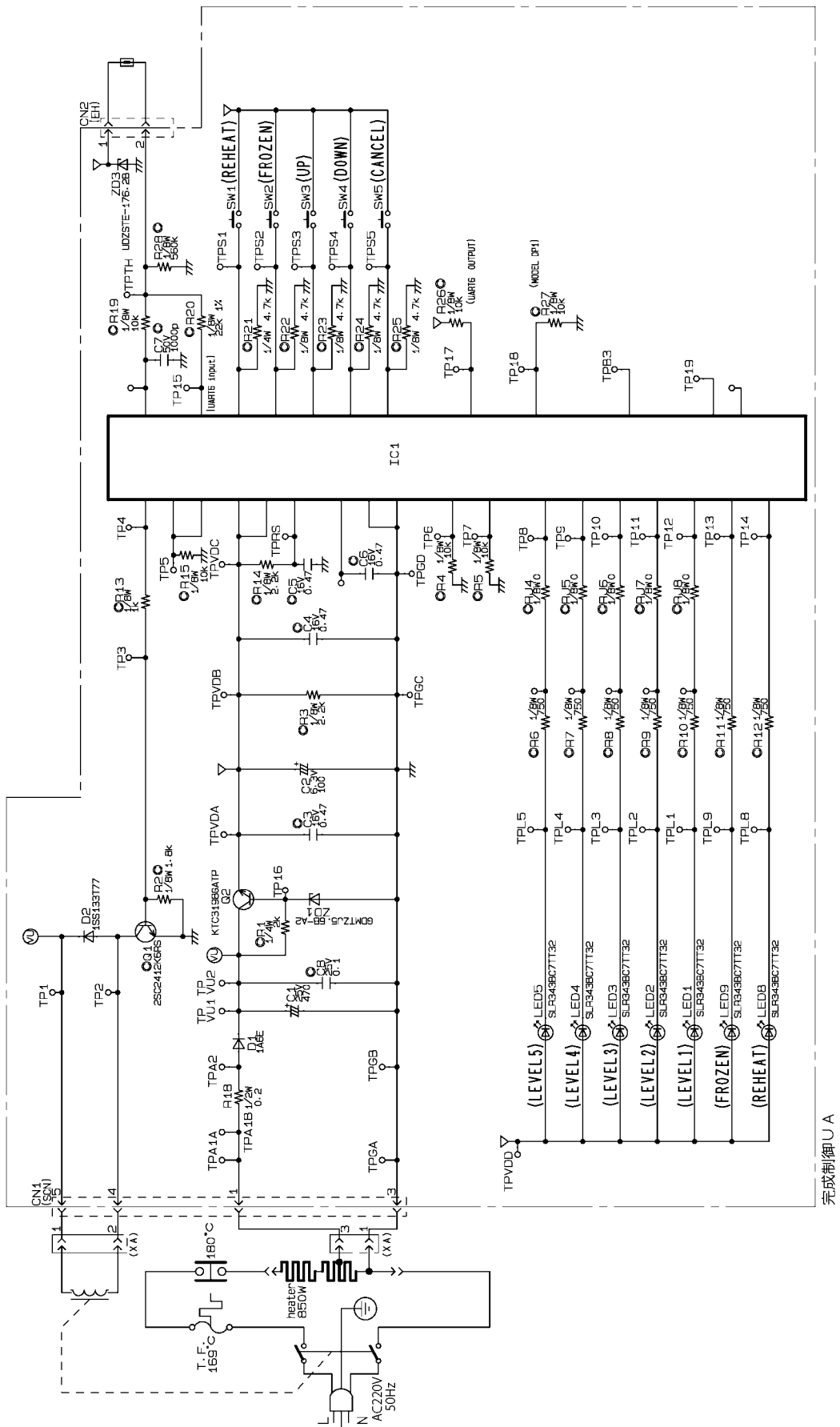
< Operation check test for the P.C. board >

The DP1 type is not equipped with a buzzer.

| No. | Operation | Working description | | Items to be checked |
|-----|---|---|--|---|
| | | Display and buzzer information | Action | |
| 1 | <ul style="list-style-type: none"> 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. | <ul style="list-style-type: none"> Any LED turns on in LED1-4 for browning level indicator. A buzzer sounds in succession. Because it is not equipped with a buzzer, the DP1 type does not sound. After having passed for 60 seconds or when push the "stop" button, reset it. | <p>No power is supplied to the heater.</p> <p>The power supply solenoid output becomes ON.</p> | <p>Check if the mode changes to the test one.</p> <p>* The mode change was ended in failure.</p> <p>(Perform the operation of No.1 again.)</p> |
| 2 | <ul style="list-style-type: none"> Press the "Reheat" button.(SW1) | <ul style="list-style-type: none"> LED lighting of browning level 1. After having passed for 60 seconds or when push the "stop" button, reset it. | | |
| 3 | <ul style="list-style-type: none"> Press the "Defrost" button.(SW2) | <ul style="list-style-type: none"> LED lighting of browning level 2. After having passed for 60 seconds or when push the "stop" button, reset it. | | |
| 4 | <ul style="list-style-type: none"> Press the "Up" button.(SW3) | <ul style="list-style-type: none"> LED lighting or lights out of browning level 3. After having passed for 60 seconds or when push the "stop" button, reset it. | | <ul style="list-style-type: none"> Lights up or non-lighting by AD input value. Turn on or level 3 of the LED for browning level indicator turns off the light depending on terms of use when tests it. |

| No. | Operation | Working description | | Items to be checked |
|---|-----------------------------------|---|--------|---|
| | | Display and buzzer information | Action | |
| 5 | • Press the "Down" button.(SW4) | <ul style="list-style-type: none"> • LED lighting or lights out of browning level 4. • After having passed for 60 seconds or when push the "stop" button, reset it. | | <ul style="list-style-type: none"> • Lights up or non-lighting by AD input value. • Turn on or level 4 of the LED for browning level indicator turns off the light depending on terms of use when tests it. |
| 6 | • Press the "Reheat" button.(SW1) | <ul style="list-style-type: none"> • LED lighting of browning level 5. • After having passed for 60 seconds or when push the "stop" button, reset it. | | |
| 7 | • Press the "Reheat" button.(SW1) | <ul style="list-style-type: none"> • LED lighting of browning level 6. • After having passed for 60 seconds or when push the "stop" button, reset it. | | Only ZP1 type. |
| 8 | • Press the "Reheat" button.(SW1) | <ul style="list-style-type: none"> • LED lighting of browning level 7. • After having passed for 60 seconds or when push the "stop" button, reset it. | | Only ZP1 type. |
| 9 | • Press the "Reheat" button.(SW1) | <ul style="list-style-type: none"> • LED lighting of "Reheat"(ZP1), "Defrost"(DP1). • After having passed for 60 seconds or when push the "stop" button, reset it. | | |
| 10 | • Press the "Reheat" button.(SW1) | <ul style="list-style-type: none"> • LED lighting of "Defrost"(ZP1), "Reheat"(DP1). • After having passed for 60 seconds or when push the "stop" button, reset it. | | |
| After checking, press the "Stop" button to finish the test. | | | | |

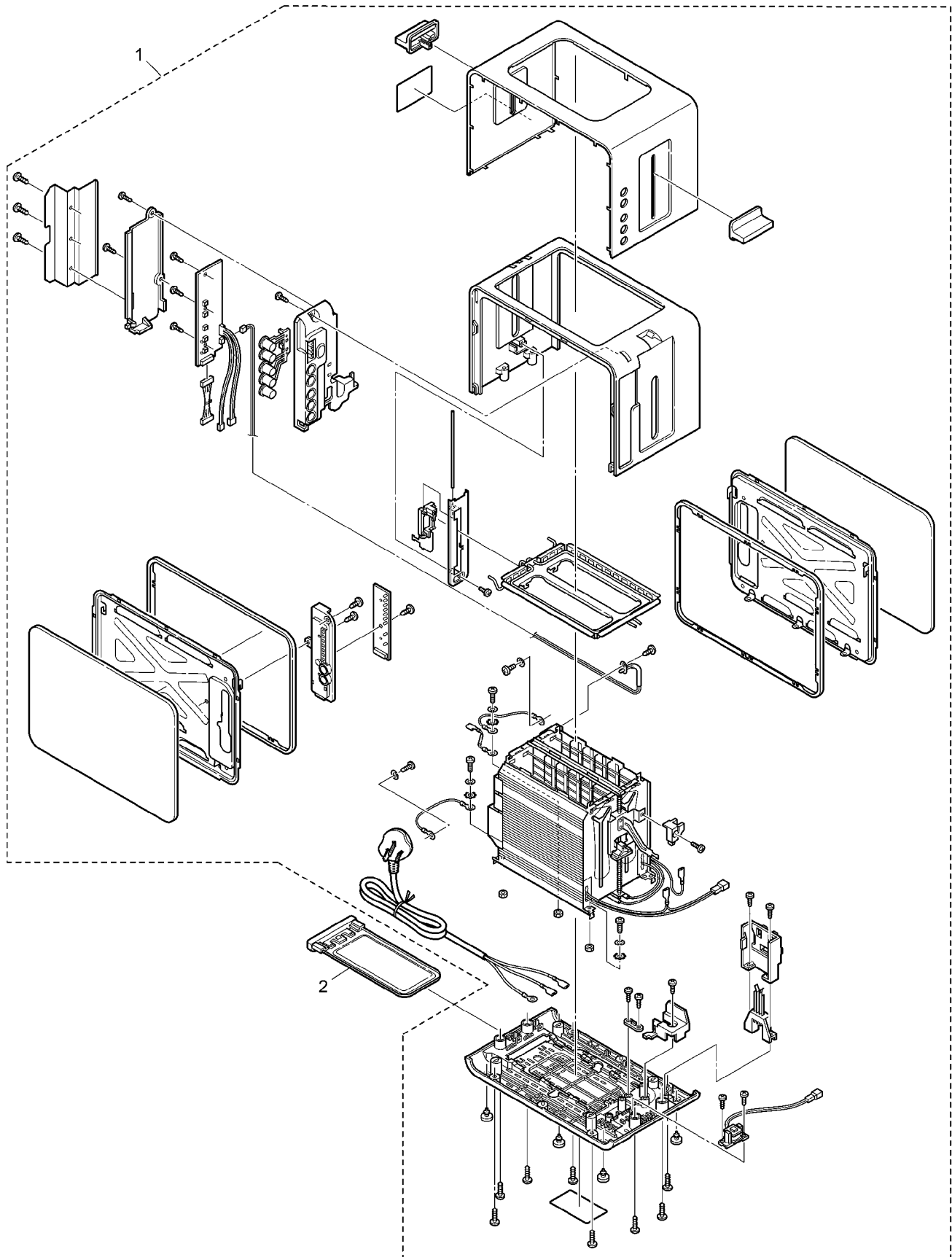
6.2. Model NT-DP1



7 Exploded View and Replacement Parts List

7.1. Model NT-ZP1

7.1.1. Part Location



7.1.2. REPLACEMENT PARTS LIST

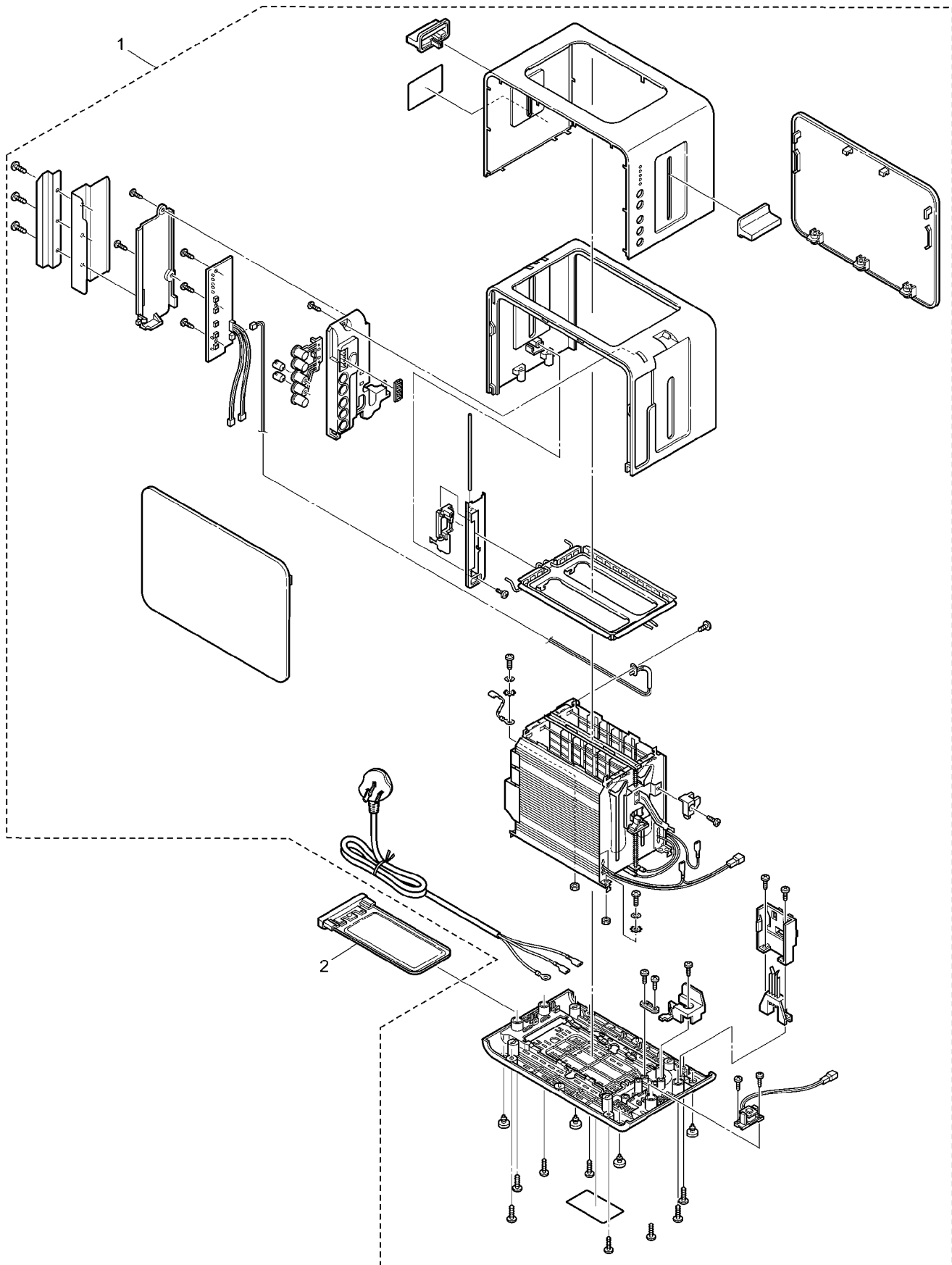
Notes: Important safety notice

- 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 Name & Description | Pcs/Set | Remarks |
|--------------------------|----------|--------------|-------------------------|---------|--------------------|
| | | | | ZPl-V | |
| <PARTS LIST> | | | | | |
| ⚠ | 1 | ATA61P108H0S | Main body unit | 1 | GRAY.220V.A-3 plug |
| | 2 | ATA86-108-K0 | Crumb tray | 1 | |
| <PACKING SPECIFICATIONS> | | | | | |
| | | ATZ51P108-V0 | Individual box | 1 | VIOLET |
| ⚠ | | ATZ50P108 | Operating instructions | 1 | |

7.2. Model NT-DP1

7.2.1. Part Location



7.2.2. 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 Name & Description | Pcs/Set | | Remarks |
|--------------------------|----------|--------------|-------------------------|---------|-------|---------------------|
| | | | | DP1-B | DP1-W | |
| <PARTS LIST> | | | | | | |
| ⚠ | 1 | ATA61P109K0S | Main body unit | 1 | | BLACK.220V.A-3 plug |
| ⚠ | 1 | ATA61P109W0S | Main body unit | | 1 | WHITE.220V.A-3 plug |
| | 2 | ATA86-108-K0 | Crumb tray | 1 | 1 | |
| <PACKING SPECIFICATIONS> | | | | | | |
| | | ATZ51P109-K0 | Individual box | 1 | | |
| | | ATZ51P109-W0 | Individual box | | 1 | |
| ⚠ | | ATZ50P108 | Operating instructions | 1 | 1 | |

7.3. Model NT-ZP1/NT-DP1

7.3.1. PACKING INSTRUCTION

