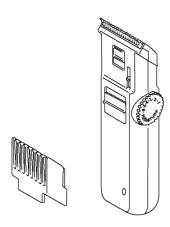
Service Manual

AC/Rechargeable Beard/Hair Trimmer

Model No. ER2031 ER2051

Middle East



↑ 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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PAGE

Panasonic

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1 Warning

Caution:

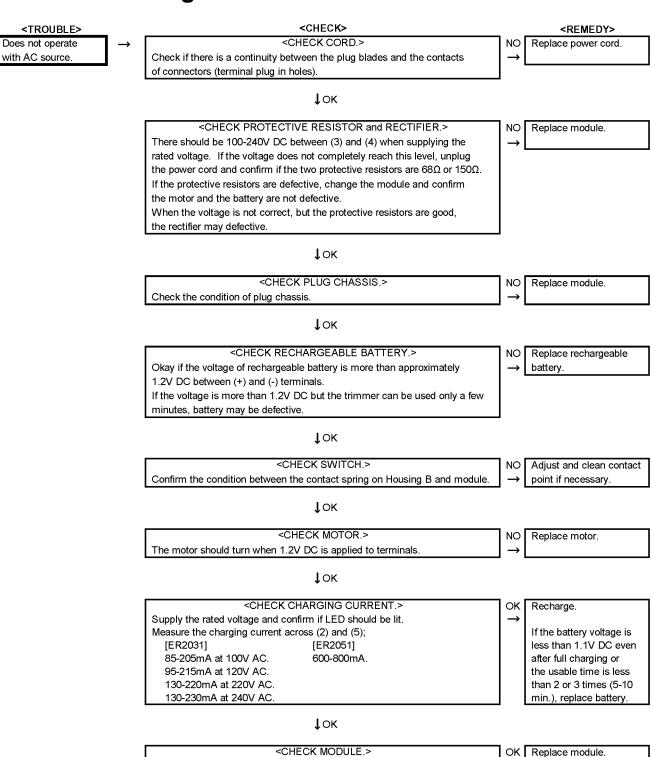
- Pb free solder has a higher melting point that standard solder; Typicall the melting point is 50 70°F (30 40°C) higher. Please use a soldering iron with temperature control and adjust it to 750 ± 20°F (400 ± 10°C). In case of using high temperature soldering iron, please be careful not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100°F / 600°C).

2 Specifications

| Power source | | AC 100-240V, 50-60Hz |
|-------------------|--------|-----------------------------|
| Power consumption | | Approx. 5.0W |
| Motor voltage | | 1.2V DC |
| Rated time | | Approx. 40 minutes |
| Charging time | ER2031 | 8 Hours |
| | ER2051 | 1 Hour |
| Weight | ER2031 | 156g (including attachment) |
| | ER2051 | 155g (including attachment) |

| Supplied accessories | Comb attachment |
|----------------------|-----------------|
| | Soft case |
| | Cleaning brush |
| | Oil |

3 Troubleshooting Guide



It is OI if the motor rotates and LED is lit when the switch is ON.

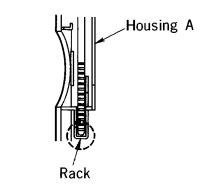
4 Disassembly and Assembly Instructions

4.1. Disassembly Instructions

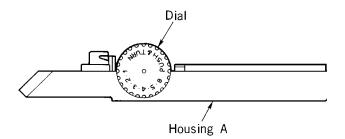
- 1. Remove the attachment and the blade.
- 2. Loosen two screws tightening the blade springs and one housing screw.
- 3. Separate the housing A and B with care of four hooks on the housing A side.
- 4. Take out the motor.
- 5. Remove the rechargeable battery from the module.

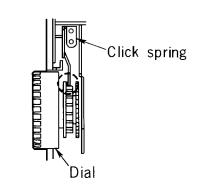
4.2. Assembly Instructions

- 1. Place the switch handle, switch plate with springs and the blade release button onto Housing A.
- 2. Set the rack with the lowest position.



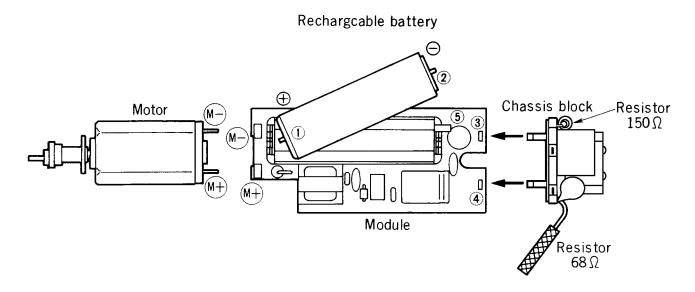
- 3. Push the click spring into Housing A.
 - NOTE: If the click spring is not pressed completely, it causes the chink between Housing A and B.
- 4. Place the module block and insert the insulating sheet between module and plug chassis.
- 5. Place the motor.
- Make sure that the rack is set to the lowest position and set the dial with fitting position "1" into the edge of Housing A.
- 7. Check the position of click spring between the cog of dial.
- 8. Assemble Housing B onto Housing A.
- 9. Tighten three screws and attach the blade block.



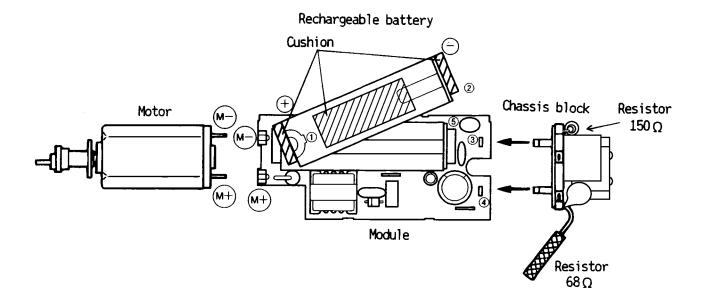


5 Wiring Connection Diagram

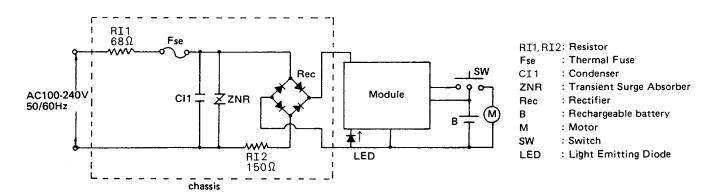
5.1. ER2031



5.2. ER2051

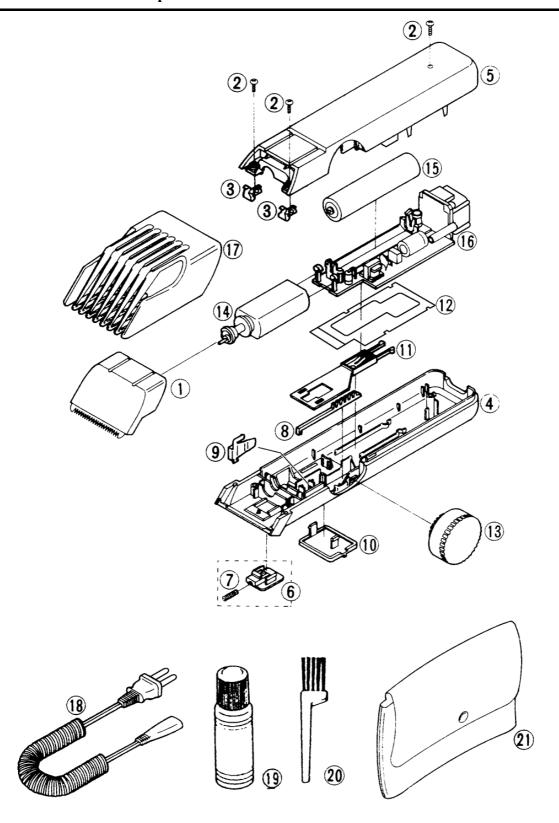


6 Schematic Diagram



7 Exploded View and Replacement Parts List

Model No.: ER2031 Exploded View for ER2031



Model No.: ER2031 Parts List

| 2.6. | Ref. | 1 | | 61. | | |
|--------|------|--------------|-------------------------|------|------------|--|
| Safety | No. | Part No. | Part Name & Description | Q'ty | Remarks | |
| | 1 | WER964EP | BLADE BLOCK | 1 | | |
| | 2 | WER203K6008 | P-TIGHT SCREW | 3 | K2-8 | |
| | 3 | WER300R0167 | SPRING FOR CUTTER | 1ST | | |
| | 4 | WER2031K3058 | HOUSING A | 1 | | |
| | 5 | WER2031K3068 | HOUSING B | 1 | | |
| | 6 | WER203K3268 | LOCK RELEASE BUTTON | 1 | | |
| | 7 | WER550V0197 | SPRING | 1 | | |
| | 8 | WER203K0288 | RACK | 1 | | |
| | 9 | WER203L1578 | CLICK SPRING | 1 | | |
| | 10 | WER203K3208 | SWITCH HANDLE | 1 | | |
| | 11 | WER203L3578 | SWITCH TERMINAL PLATE | 1 | | |
| | 12 | WER2031L0308 | SHEET | 1 | | |
| | 13 | WER203K3288 | DIAL | 1 | | |
| | 14 | WER203L1008 | MOTOR | 1 | | |
| | 15 | WER2031L2508 | RECHARGEABLE BATTERY | 1 | Ni-Cd TYPE | |
| | 16 | WER2031L2108 | MODULE | 1 | | |
| | 17 | WER203K7398 | COMB ATTACHMENT | 1 | | |
| | 18 | WER200B2069 | POWER CORD | 1 | C-2 PLUG | |
| | 19 | WER203X7918 | OIL | 1 | | |
| | 20 | WER210B7077 | CLEANING BRUSH | 1 | | |
| | 21 | WER203K7008 | SOFT CASE | 1 | | |
| | - | WER2031K8008 | INDIVIDUAL BOX | 1 | | |
| | - | WER2031K8108 | OPERATING INSTRUCTIONS | 1 | | |