

Description of Goods

Ultrapower

Tools

Crimping tool
Butt. splice
Screw driver
Multimeter

Prepared by
Attila Frank

Date
27/02/2015

Tools for rework

Crimp tool type HT-236E2



Buttery splice 0.5÷1.5mm²
Symbol ST-061/R



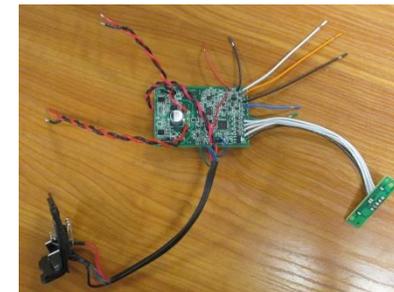
Screw driver (head type: T10)



Multimeter



PCB spare part



Description of Goods

Ultrapower

Action

DCPM
disassembling

Tools

Screw driver

Components

PCB
MFU

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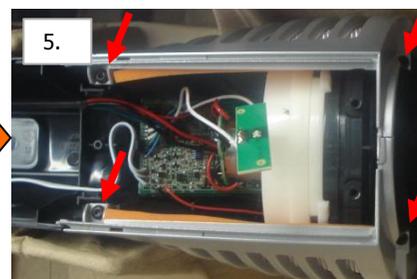
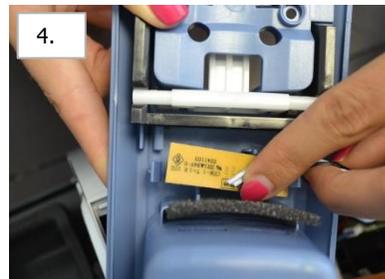
The workplace needs to be ESD-protected for the assembling. Use RoHS-compliant solder-material. Do not touch the PCB with a metal-device (e.g. screw-driver) because it may cause short circuit.

Disassembly steps:

1. Push the release button to remove dust container.
2. Remove the release button with a screw driver from the front side.
3. Remove 5 screw then you can take out the battery holder.



4. Take out the led PCB from the battery holder.
5. Remove 4 screw from the side frame. Then remove the side frames.
6. Now you can reach the PCB.



Description of Goods

Ultrapower

Action

Reworked unit
checking

Tools

After rework need to check the following function of the appliance:

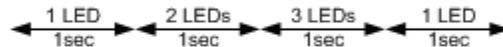
1. On/off, power regulation button functions.
2. Charging function: check the charging function of the unit with it's own charging stand.
3. Nozzle: check BRC and led function of the nozzle.
4. LED functions: Check LED behaviour according to below functionality.

Charging and LED-functionality

Unit is kept at charging stand and connect with correct adapter as recommended.

- Battery starts charging and LED starts indication as below:

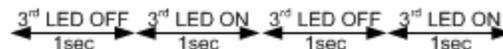
- During CC mode, the 3 charging LEDs shall be in running state as shown in the diagram below:



As indicated in diagram above, following steps will be repeated every 3 seconds:

- For 1st second, LED1 shall be ON and LED2 and LED3 shall be OFF.
- For 2nd second, LED1 and LED2 shall be ON and LED3 shall be OFF.
- For 3rd second, all 3 LEDs shall be ON.

- During CV mode, two LEDs will be continuously on and third LED shall blink every second as shown in diagram below



- All three Orange LED start slowly blinks at every 5sec, i.e. battery is fully charged and cleaner is in standby mode, which consumes very low power from adapter.

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