

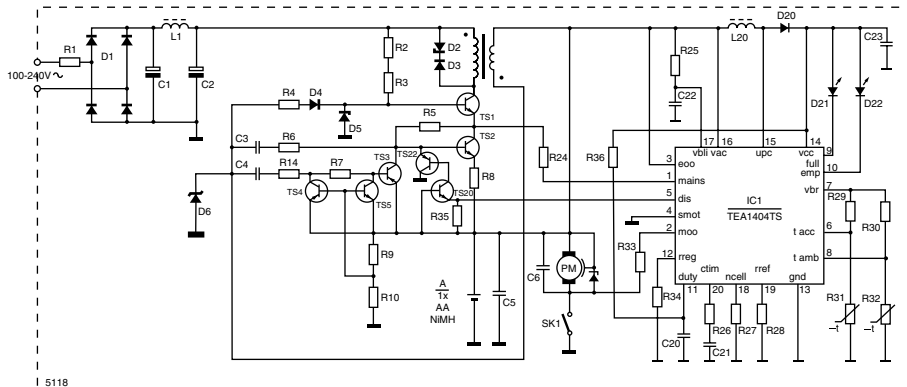
Service
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Eclipse

Domestic Appliances and Personal Care

Service Manual



GENERAL

The HQ4856 shaver can be recharged in 1 hour by means of a 'Fly Back Self Oscillating Power supply'. This electronic circuit enables the battery to be charged at 100-240V, 50/60Hz.

It is possible to have a shave directly from the mains. The green LED comes on when the shaver is connected to the mains and will blink to indicate that the battery is fully charged.

When the battery is almost empty, the red LED starts blinking.

The electronic circuit incorporates the following functions and controls:

- a 900 mA Quick Charge supply
- a 30 mA Trickle Charge supply
- a 1.25V Dynamic supply when shaving from the mains.
- an open cell protection.
- an inrush and surge protection (R1).
- a temperature protection of the battery. (if $T_{bat} - T_{amb} > 5^{\circ}\text{C}$ or if $T_{bat} > 65^{\circ}\text{C}$, charging will switch-over from quick charge to trickle charge).

TECHNICAL DATA

Input voltage	: 100-240V ~
Motor voltage	: 1.2V $\overline{\text{---}}$
Battery	: 1x AA NiMH
Cell capacity	: approx. 1100 mAh
Charging system	: S.O.P.S./ timer- temp. control
Charging time	: approx. 60 mins initial 4 hours

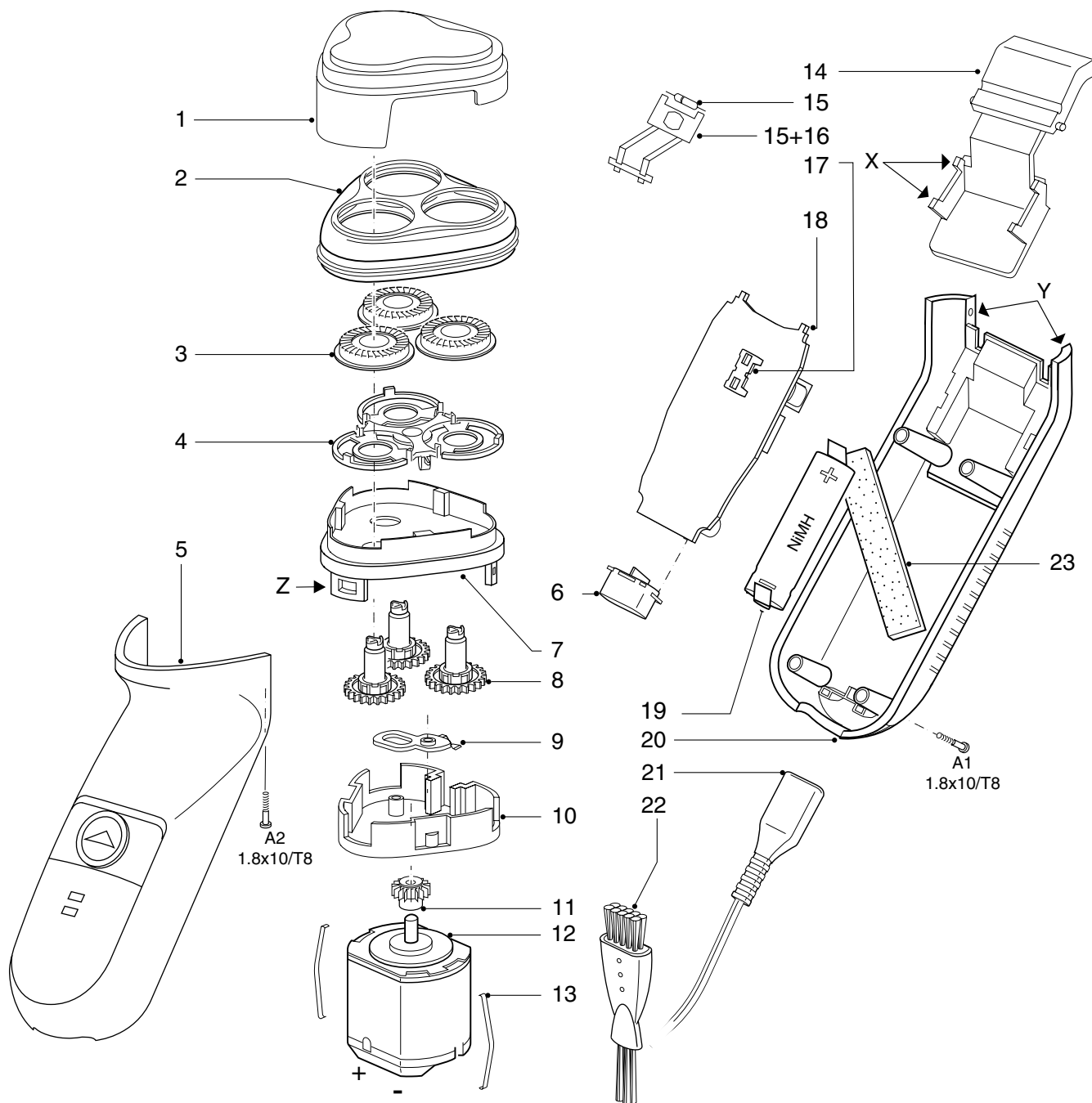
Charging current	: 900/30 mA
Charge indicator	: 1x LED green
Battery low indicator	: 1x LED red
Comfort control	: fixed setting
Shaving heads	: HQ4 - 4822 690 30468
Screwdriver T8	: 4822 395 50263

SAP Coding : HQ4856



PHILIPS

HQ 4856/A



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|----|----------------|-------------------|
| 1 | 4822 441 11276 | Protecting cap |
| 2 | 4222 036 01980 | Head holder |
| 3 | 4822 690 30468 | HQ4 shaving head |
| 4 | 4822 404 40728 | Retaining bracket |
| 5 | 4222 036 02590 | Housing |
| 6 | 4222 036 02370 | Inlet |
| 7 | 4222 036 02920 | Hairchamber |
| 8 | 4822 522 32852 | Gearwheel |
| 9 | 4822 404 40656 | Lever |
| 10 | 4822 441 11275 | Frame |
| 11 | 4822 522 32851 | Pinion |
| 12 | 4822 361 21752 | Motor |
| 13 | 4822 492 63165 | Motor clamp |
| 14 | 4822 690 10081 | Trimmer |
| 15 | 4822 130 34167 | Zener diode |

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|----|----------------|-----------------|
| 16 | 4222 036 02390 | Motor connector |
| 17 | 4822 277 21689 | On/off switch |
| 18 | 4222 036 02600 | Power module |
| 19 | 4822 138 10584 | NiMH cell AA |
| 20 | 4222 036 02610 | Cover |
| 21 | 4822 321 10096 | Flex GB |
| - | 4822 321 10095 | Flex EU |
| 22 | 4822 479 30183 | Cleaning brush |
| 23 | 4822 466 12236 | Foam plate |

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|---|----------------|----------------------|
| A | 4822 502 30526 | S.t. screw 1.8x10/T8 |
| | 4222 036 02120 | Pouch |