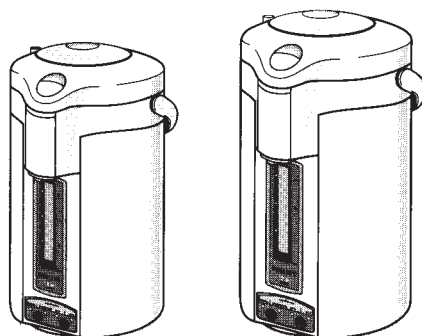


Service  
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Domestic Appliances and Personal Care Division

# Service Manual

## PRODUCT INFORMATION

Type : HD 4520 / 4522  
Voltage : 220-240V~ 50-60Hz  
220V~ 60Hz  
Power consumption : 650W for 220-240V  
600W for 220V  
70W for keep warm  
Maximum capacity : 2.8 litres for HD 4520  
2.2 litres for HD 4522  
Features : - Reboil function  
- Deodorize

Features (Con't) : - Two keep warm setting (85°C/95°C)  
- Manual pump  
- Low water level sensor (refill indicator)  
- 360° turn table  
- Micom control  
- Detachable lid  
- Auto power off when appliance is not used for 48 consecutive hours  
- Pop-out, extendible nozzle

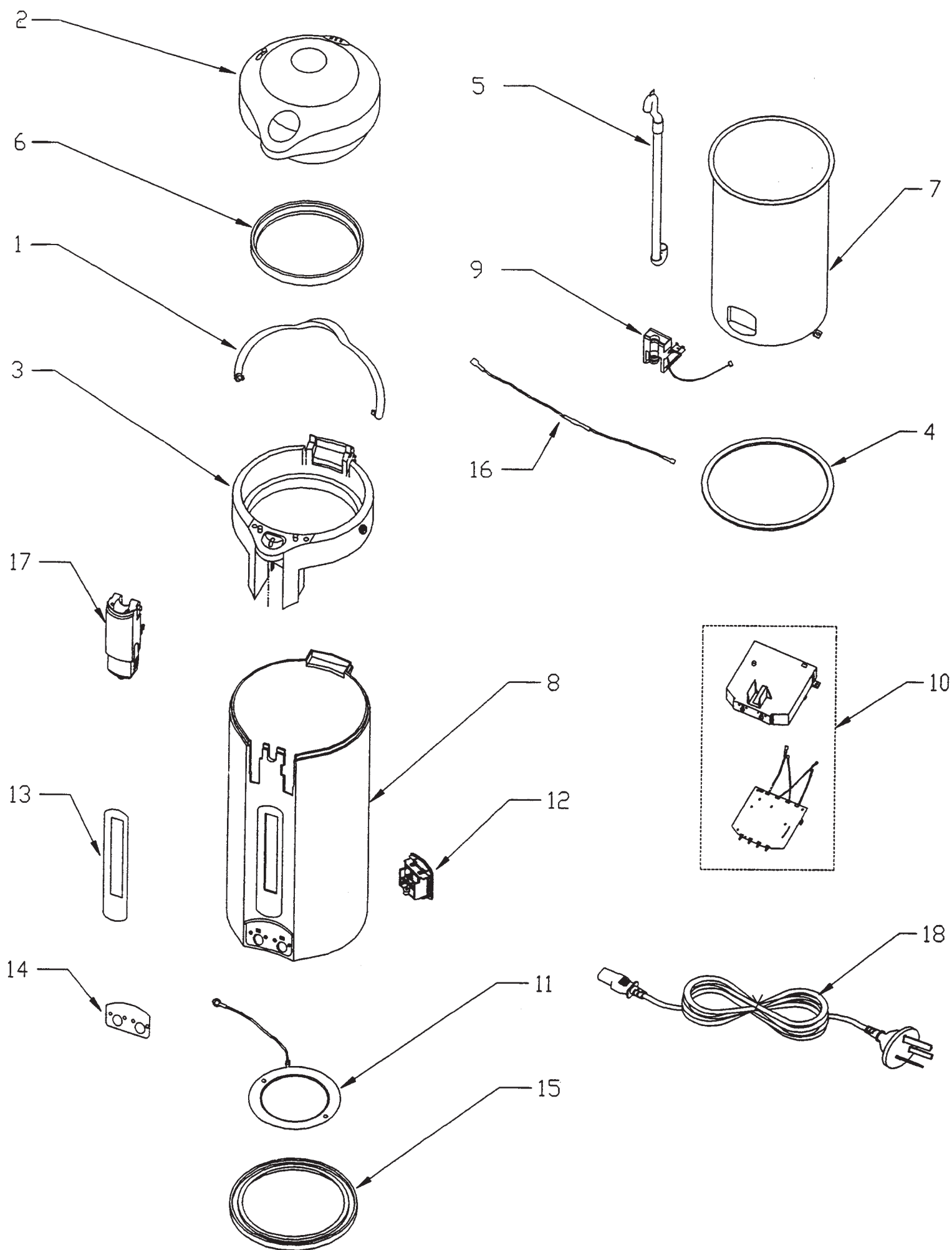
## TROUBLE SHOOTING LIST

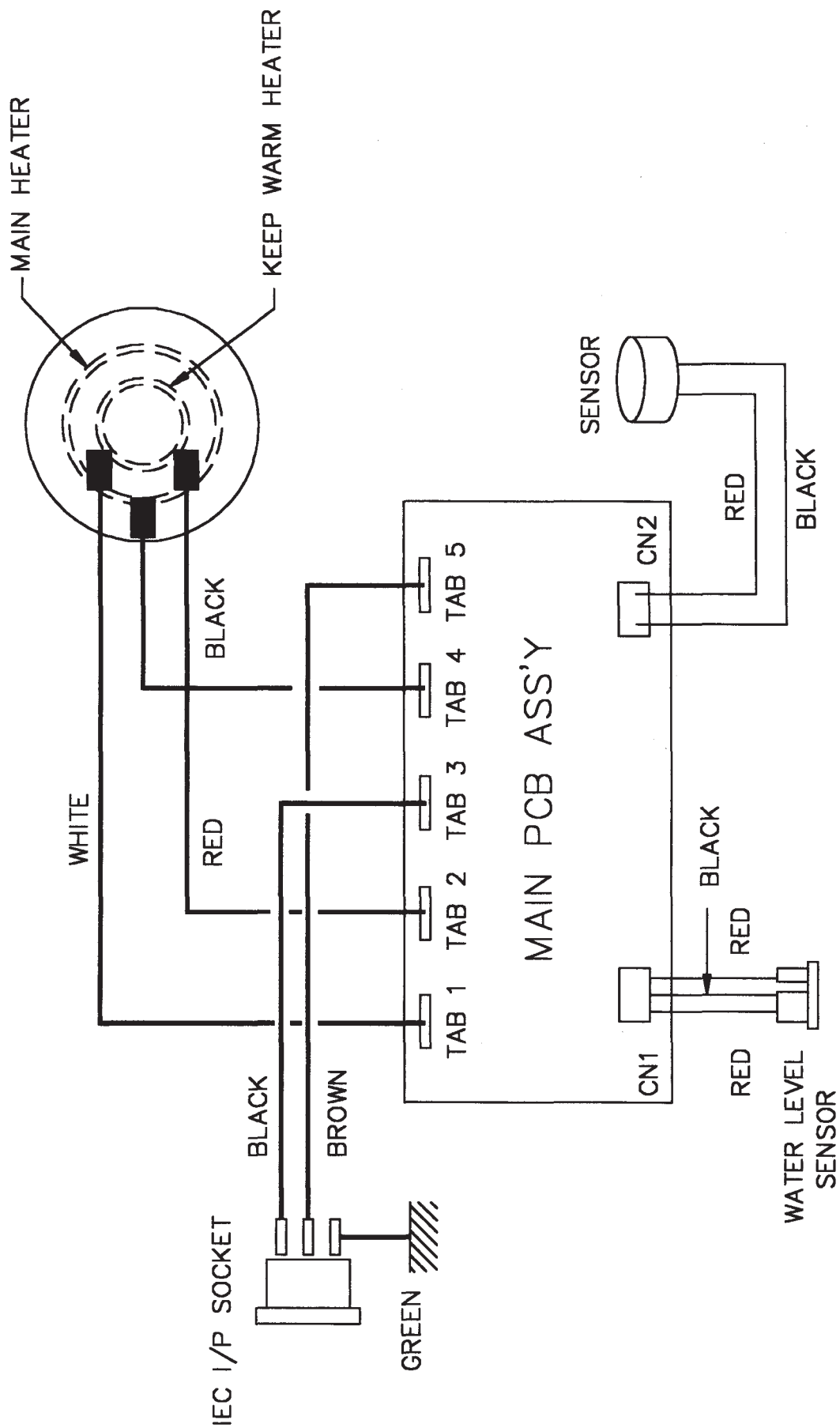
| Failure symptoms                                        | Possible cause                                                                                                                                               |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No water deliver (or low pumping capacity)              | 1. Valve washer take off or defective<br>2. Silicone ring take off or defective                                                                              |
| Can't change to keep warm mode (water boil continually) | 1. Thermistor defective<br>2. Failure of PCB<br>3. Poor matching between the water tank and the thermistor                                                   |
| Water not boil                                          | 1. Not tighten or defective of heating element<br>2. Thermistor defective<br>3. Matching defective of socket<br>4. Wrong wiring routine                      |
| Indicating lamp defective                               | 1. Neon bulbs defective<br>2. Fuse burnt<br>3. Circuit assembling mistake                                                                                    |
| Can't keep water warm                                   | 1. Keep warm heater wire broken<br>2. Power consumption of keep warm heater too low<br>3. Too low room temperature (heat loss too fast)<br>4. Failure of PCB |
| Water leakage                                           | 1. Silicone tube crack<br>2. Glass tube crack<br>3. Water container crack<br>4. No seal ring / washer used                                                   |
| Water delivery automatically                            | 1. Poor assembly of valve washer<br>2. Steam vent hole is blocked<br>3. Sink or squeeze of pressure plate                                                    |
| No function                                             | 1. Thermal fuse burnt<br>2. Failure of PCB                                                                                                                   |
| Function at water level lower than 0.3L                 | Failure of low water level sensor                                                                                                                            |
| Nozzle cannot swing out                                 | 1. Misalignment of level inside the lid assembly<br>2. Missing / loose of nozzle spring                                                                      |



# HD4520/HD4522

| SPARE PARTS LIST |                                    |                |
|------------------|------------------------------------|----------------|
| No.              | Part Name                          | 12 NC          |
| 1                | Handle                             | 4822 498 10558 |
| 2                | Lid assembly (PRC)                 | 4822 442 00123 |
| 2                | Lid assembly (Korean)              | 4822 442 00124 |
| 2                | Lid assembly (HK/Sing)             | 4822 442 00125 |
| 3                | Top support assembly               | 4822 441 11662 |
| 4                | Water tank gasket                  | 4822 466 10866 |
| 5                | Glass pipe (HD 4520)               | 4822 530 10259 |
| 5                | Glass pipe (HD 4522)               | 4822 530 10261 |
| 6                | Seal ring                          | 4822 532 12414 |
| 7                | Water tank assembly (HD 4520)      | 4822 418 10134 |
| 7                | Water tank assembly (HD 4522)      | 4822 418 10133 |
| 8                | Plastic housing (HD 4520)          | 4822 441 11666 |
| 8                | Plastic housing (HD 4522)          | 4822 441 11667 |
| 9                | Detector PCB assembly              | 4822 214 11394 |
| 10               | Main PCB assembly                  | 4822 214 11393 |
| 11               | Bottom plate assy (HD4520 PRC)     | 4822 466 10867 |
| 11               | Bottom plate assy (HD4520 HK/Sing) | 4822 466 10868 |
| 11               | Bottom plate assy (HD4520 Korean)  | 4822 466 10869 |
| 11               | Bottom plate assy (HD4522 PRC)     | 4822 466 10871 |
| 11               | Bottom plate assy (HD4522 HK/Sing) | 4822 466 10872 |
| 11               | Bottom plate assy (HD4522 Korean)  | 4822 466 10873 |
| 12               | Socket assembly                    | 4822 265 10395 |
| 13               | Window label (HD 4520 - English)   | 4822 466 10878 |
| 13               | Window label (HD 4520 - Chinese)   | 4822 466 10879 |
| 13               | Window label (HD 4522 - English)   | 4822 466 10887 |
| 13               | Window label (HD 4522 - Chinese)   | 4822 466 10881 |
| 14               | Panel label (English)              | 4822 466 10882 |
| 14               | Panel label (Chinese)              | 4822 466 10883 |
| 15               | Rotating ring                      | 4822 532 12415 |
| 16               | Thermal fuse assembly              | 4822 252 11137 |
| 17               | Nozzle assembly                    | 4822 529 10344 |
| 18               | Power supply cord (China)          | 4822 321 11186 |
| 18               | Power supply cord (Sing/HK)        | 4822 321 11187 |
| 18               | Power supply cord (Korean)         | 4822 321 11188 |





WIRING DIAGRAM FOR HD4520/HD4522