Steam Generator

GC7541

Service
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Philips Consumer Lifestyle

Service Manual

PRODUCT INFORMATION

Features

Fast & powerful crease removal

- Soleplate: SteamGlide
- Continuous steam output
- Continuous steam output: 120 g/min
- Vertical steam
- Steam pressure: Up to 5 Bar
- Variable steam settings
- Steam tip
- Power: 2400 W
- Steam boost: Up to 240 g

Easy to use

- Water tank capacity: 1000 ml
- Filling and emptying water: Extra large filling hole
- Refill any time
- Heat-up time: 2 min
- Hose storage: Hose clip
- Power cord length: 1.8 m
- Cord freedom (swivel): 180 degree cord freedom
- Hose length: 1.7 m

Sustainability

- ECO setting: 30% energy recuction

Calc management

- Suitable for tap water
- Calc clean solution: Anti-calc tablets + rinsing

Safety Information

- This product meets the requirements regarding interference suppression on radio and TV.
- After the product has been repaired, it should function properly and has to meet the safety requirements as officially laid down at this moment.

TECHNICAL INFORMATION

Voltage		: 220 - 240 V
Frequency		: 50 - 60 Hz
Power	Iron	: 800 W
	Boiler	: 1370 W
Product dimension		: 42.9 x 40 x 20.6 cm
Weight of iron		: 1.2 kg
Weight of iron + base		: 4.5 kg

Water advice

If the tap water in your area is very hard, it is advisable to mix the tap water with an equal amount of demineralised water.

SteamGlide Soleplate

SteamGlide soleplate is the best Philips soleplate. It has great scratch resistancy, glides excellent and is easy to clean.

Separate Water Tank

The seperate watertank allows you to re-fill the watertank any time, even during ironing, without waiting.

ECO Setting

Save 30% energy and 40% water consumption by selecting the ECO-setting. The ECO-setting offers the most energy efficient way to obtain perfect ironing results.

Anti-calc Tablets

Permanent anti-calc tablets delay the formation of scale build up ensuring better protection for your system iron.

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PHILIPS

BACKPLATE 18

HOSE CORD ASSY 19

Remove	**Screw A**
Disassemble	**BACKPLATE 18**
Remove	**Screw B1, B2**
Remove	**Clamping plate**
Remove	**Power cord quick-connect S, E, L, N**
Disassemble	**Steam hose**
Disassemble	**HOSE CORD ASSY 19**

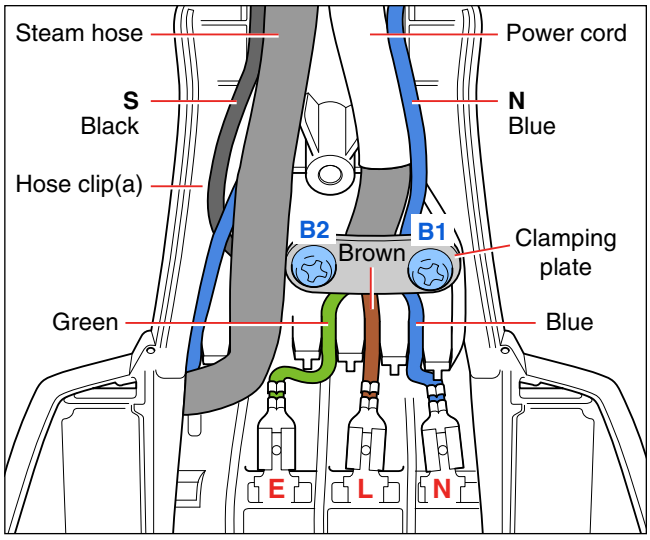


Fig 1. Wiring at rear HOUSING (Part 1)

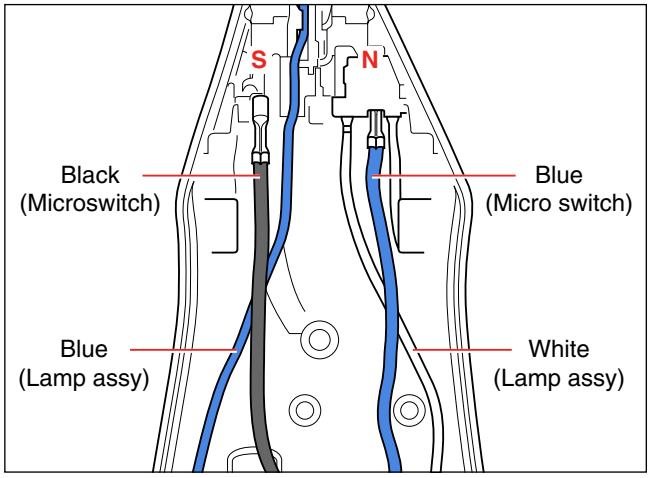


Fig 2. Wiring at rear HOUSING (Part 2)

INLAY 17

STEAM LOCK 13

LAMP MOUNTED ASSY 8

MICROSWITCH ASSY 11

TRIGGER 12

THERMOSTAT DIAL ASSY 15

HOUSING PRINTED 10

SOLEPLATE COVER 6

THERMOSTAT BUSH 9

RUBBER HOSE 3

SOLEPLATE ASSY 1

Remove	**Screw A**
Disassemble	**BACKPLATE 18**
Release	**Inlay rear catch**
Disassemble	**INLAY 17**
Disassemble	**STEAM LOCK 13**
Disassemble	**MICROSWITCH ASSY 11**
Remove	**Screw C**
Disassemble	**TRIGGER 12**
Disassemble	**THERMOSTAT DIAL 15**

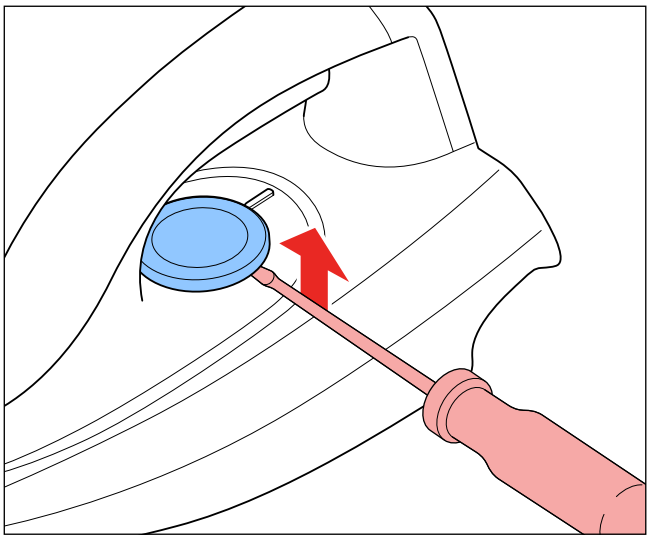


Fig 3.

Remove	**Screws D1, D2, D3**
Disassemble	**HOUSING PRINTED 10**
Remove	**HOSE CLIP 4**
Disassemble	**RUBBER HOSE 3**
Remove	**Screws E1, E2, E3**
Disassemble	**SOLEPLATE COVER 6**

Pos	Service code	Description	Remark
1	4239 021 68641	Soleplate assy 230V	Steamglide-SOS
2	4239 015 56122	Rubber hose (SOS)	
3	4239 015 56511	Rubber hose (dosing)	
4	4239 010 10111	Hose clip	
5	4239 015 70153	Ryton ring	
6	4239 026 48151	Soleplate cover	Blue
7	4239 021 31782	Steam deviator assy	
8	4239 021 36861	Lamp mounted assy	
9	4239 026 13222	Thermostat bush	
10	4239 021 77061	Housing	
11	4239 021 31793	Microswitch assy	
12	4239 026 48171	Trigger	Blue
13	4239 026 48181	Steam lock	Blue
14	4239 010 09293	Trigger spring	
15	4239 021 68691	Thermostat dial assy	Dark blue
16	4239 026 48201	SOS knob	Blue
17	4239 026 48211	Inlay SOS	Dark blue
18	4239 026 48221	Backplate	Dark blue
19	4239 021 79091	Hose cord mounted assy	

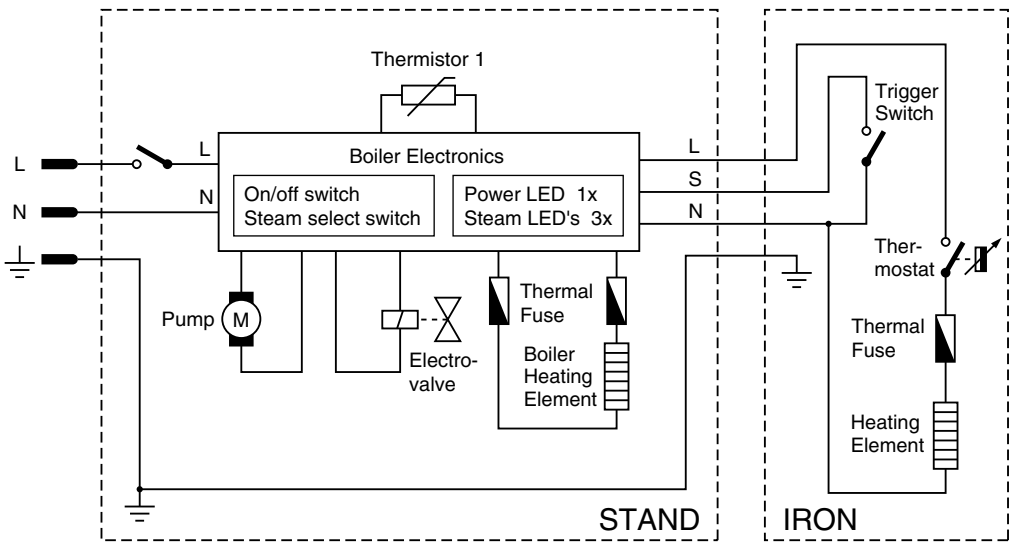
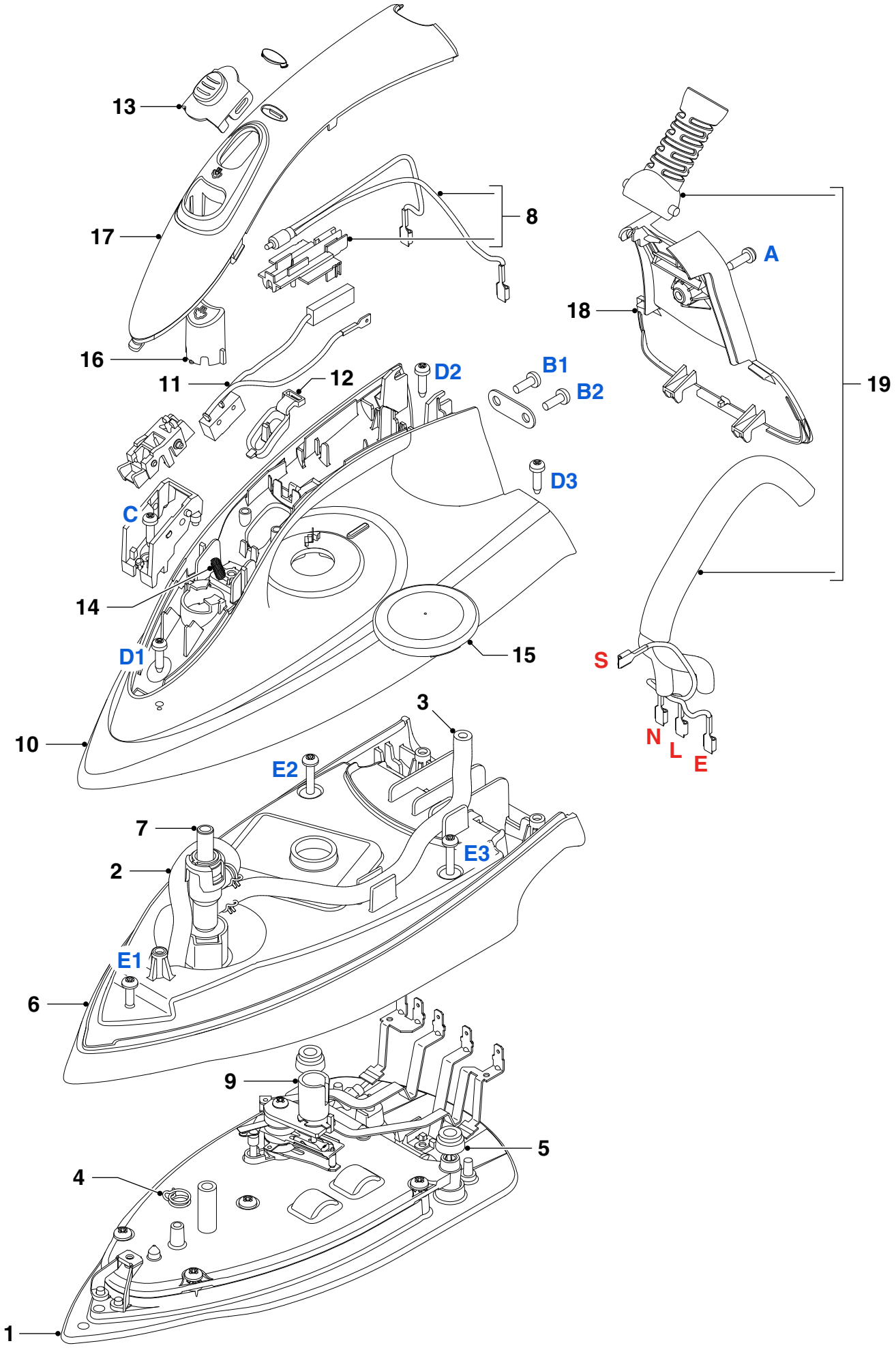


Fig 4. Electrical diagram


13
17
16
11
12
D2
B1
B2
8
A
18
19
D3
C
14
D1
15
10
3
E2
7
2
E3
E1
6
9
5
4
1
S
N
L
E

TRAY RUBBER CAP 30

TRAY ASSY 33

DOOR ASSY

Remove	**TRAY RUBBER CAP 30 (3x)**
Remove	**Screw F1, F2, F3**
Disassemble	**TRAY ASSY 33**
Remove	**Screw G**
Disassemble	**DOOR ASSY**

FRONT PANEL PRINTED 37

POWER BOARD 43

CONTROL BOARD

Remove	**TRAY RUBBER CAP 30 (3x)**
Remove	**Screw F1, F2, F3**
Disassemble	**TRAY ASSY 33**
Remove	**Screw H1, H2**
Disassemble	**FRONT PANEL 37**
Remove	**Screw J1, J2**
Disassemble	**PCB BRACKET**
Disassemble	**CONTROL BOARD**
Disassemble	**POWER BOARD 43**

WATER TANK ASSY 34

HOSE CORD CAP 36

BOILER ASSY 38

BRAIDED RUBBER HOSE - BOILER

PUMP ASSY 45

INLET TUBE - PUMP

DE-AIR TUBE

RINSE RUBBER COUPLING 50

RINSE BUSH

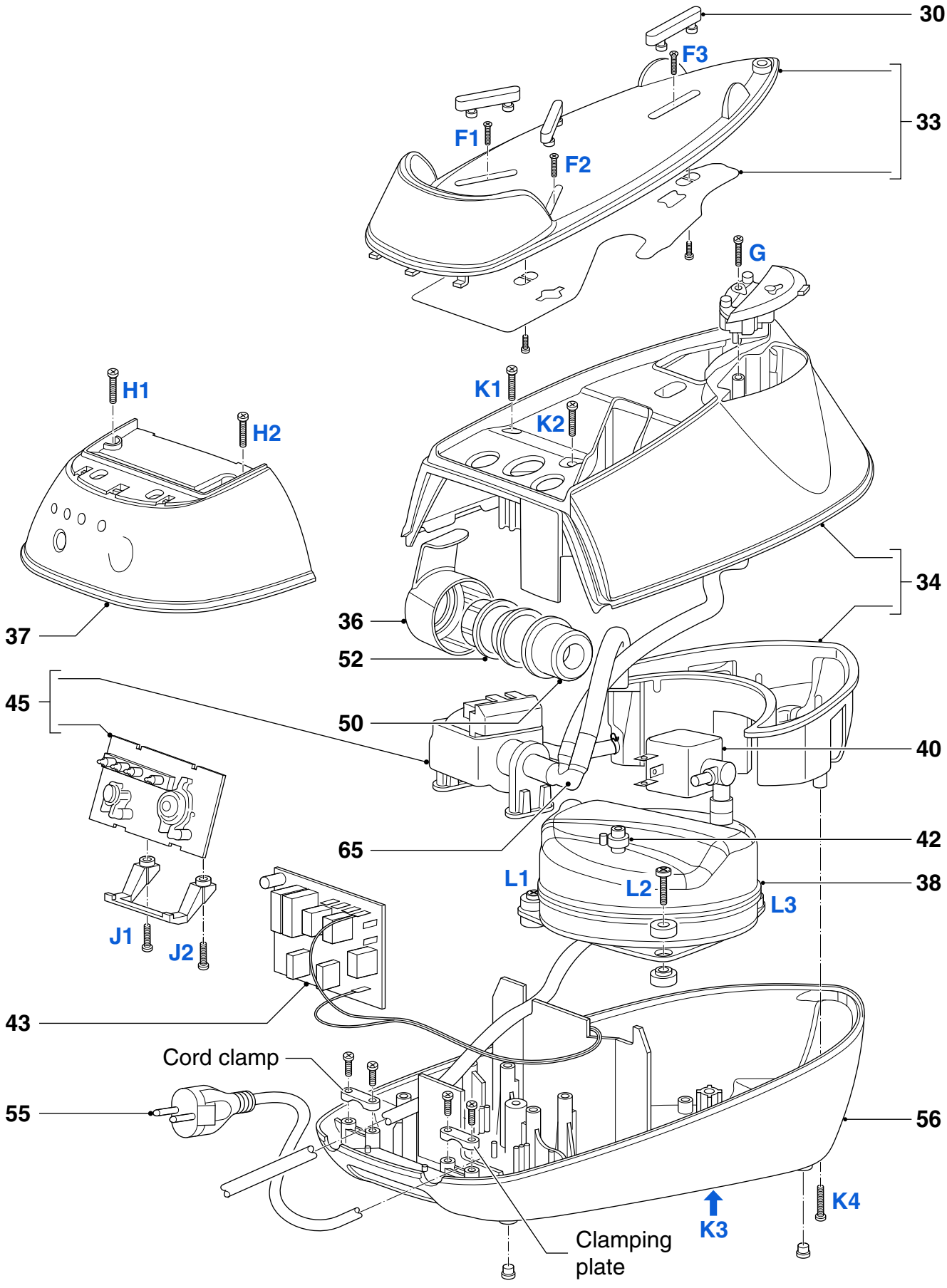
RINSE CAP ASSY 52

Remove	**TRAY RUBBER CAP 30 (3x)**
Remove	**Screw F1, F2, F3**
Disassemble	**TRAY ASSY 33**
Remove	**Screw H1, H2**
Disassemble	**FRONT PANEL 37**
Disassemble	**HOSE CORD CAP 36**
Disassemble	**RINSE CAP ASSY 52**
Disassemble	**RINSE BUSH**
Disassemble	**RINSE RUBBER COUPLING 50**
Remove	**Screws K1, K2, K3, K4**
Disconnect	**INLET TUBE - PUMP**
Disconnect	**DE-AIR TUBE**
Disassemble	**WATER TANK ASSY 34**
Disassemble	**BRAIDED RUBBER HOSE - BOILER**
Disassemble	**PUMP ASSY 45**
Remove	**Torx screws L1, L2, L3**
Disassemble	**TOP SPACER**
Disassemble	**BOILER ASSY 38**

PARTS LIST - STAND

Pos	Service code	Description	Remark
30	4239 015 59601	Tray rubber cap	Dark blue
33	4239 021 68791	Tray assy	White
34	4239 021 78991	Water tank assy	
36	4239 026 48341	Hose cord knob	Dark blue
37	4239 021 79011	Front panel	Printed
38	4239 021 39541	Boiler assy	High End
40	4239 017 09892	Electrovalve	
42	4239 010 10261	Inox clamp	
43	4239 021 68611	Power board	
45	4239 022 66221	Control board-Pump assy kit	
50	4239 015 56761	Rinse rubber coupling	
52	4239 021 68731	Rinse cap assy	Dark blue
55	2422 070 98366	Cord set	EU
56	4239 021 68721	Stand bottom assy	White
65	4239 026 42081	De-air valve	High End

Note: For Pos 45, please replace both components together when either one is faulty. The 2 components come as a service kit.


30
F3
33
F1
F2
G
H1
H2
K1
K2
34
37
36
52
45
50
40
65
42
L1
L2
38
L3
J1
J2
43
Cord clamp
55
56
K4
K3
Clamping plate

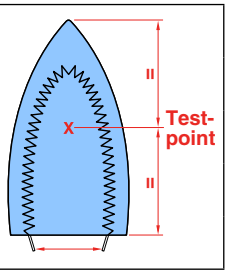
- Due to the high wattage of the iron, only the specified cord set must be used.
- Should damage be observed on the **HOSE-CORD ASSY** or **CORDSET 55**, they must be replaced. Continued usage is not allowed.
- When replacing the **MICROSWITCH ASSY 9**, please dress the 2 attached wires such that they are free of tension. Pulling force on the wires may affect the steam triggering.
- To avoid damage to the sealing & components of the **BOILER ASSY 38**, **NEVER** clean the boiler assy with vinegar, descaling agent or other corrosive chemicals.
- When replacing **ELECTROVALVE 40** or **PUMP ASSY 45**, please be reminded to apply loctite at the joints for good sealing.
- After the product has been repaired, it should function properly and has to meet the safety requirements & legal regulations as laid down & officially established at this moment.
- The following tests are common checks that are conducted on a repaired product before it is returned to the consumer.

1. Soleplate temperature

Check that soleplate temperature is within IEC requirement.

Measure the temperature of the soleplate after the iron has reached steady state i.e connected to the mains for at least 15 minutes. The table below shows the temperature requirement.

Marking	Soleplate temperature (Deg C)			Material, for example	
	Minimum	Maximum	Nominal + Tolerance		
• (1 dot)	70	120	95 ± 25	Acetate, elastane, polyamide, polyproylene	
•• (2 dots)	100	160	130 ± 30	Cupro, polyester, silk, triacetate, viscose, wool	
••• (3 dots)	140	210	175 ± 35	Cotton, linen	



2. Leakage current

Check that leakage current is within IEC requirement.

Measure leakage current between LIVE/NEUTRAL & EARTH.
IEC requirement is that at 230V supply, the EARTH leakage current must be less than 0.75 mA.

3. Water leakage / Functionality

Check that there is no water leakage from any part of the product during operation.

Check that the functionality of the product (product dependent) eg. steaming, variable steam, SOS, ASO etc is working properly.

4. Loose part

Check that there are no loose parts eg. extra screw in the product that can cause short-circuit or product malfunction.

Pump Assy Wire connections

Connector positions in DOTTED circle cannot be interchanged