Steam Generator

GC7420

Service
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Philips Consumer Lifestyle

ServiceManual

PRODUCT INFORMATION

Features

Iron

- Steam Glide soleplate
- Steam rate (Max): 120 g/min
- Steam trigger with lock
- Steam hose length: 1.65 m

Stand

- Inox boiler
- Boiler pressure: 4.5 bar
- Fixed water tank volume: 1.0 L
- Cord length: 2.0 m
- Flex & hose-cord storage hook
- Easy rinse
- Anti Calc cartridge in water tank

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 as this moment.

TECHNICAL INFORMATION

Voltage		: 220 - 240 V
Frequency		: 50 - 60 Hz
Power	Iron	: 800 W
	Boiler	: 1370 W
Dimension (F-box)		: 350 x 350 x 250 mm (L x W x H)
Weight (with packing)		: 6.4 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.

Easy to rinse

The new design of the rinse cap makes it very easy to rinse the boiler regularly. Simply unscrew the cap and pour out the "dirty" water into the sink.
No hassle with coins, extra tubes or anything of this sort.

Fixed water tank

The fixed water tank that is incorporated into the stand allows re-filling anytime during ironing. Since water is not re-filled directly into the boiler, there is no waiting time for boiler to cool down.

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BACKPLATE 1

SWIVEL 2

HOSE CORD ASSY

Remove Screw A
Disassemble BACKPLATE 1
Remove Screw B1, B2
Remove Clamping plate
Remove Quick-connect S, E, L, N
Disassemble SWIVEL 2
Remove HOSE CLIP 10
Disassemble Steam hose
Disassemble HOSE CORD ASSY

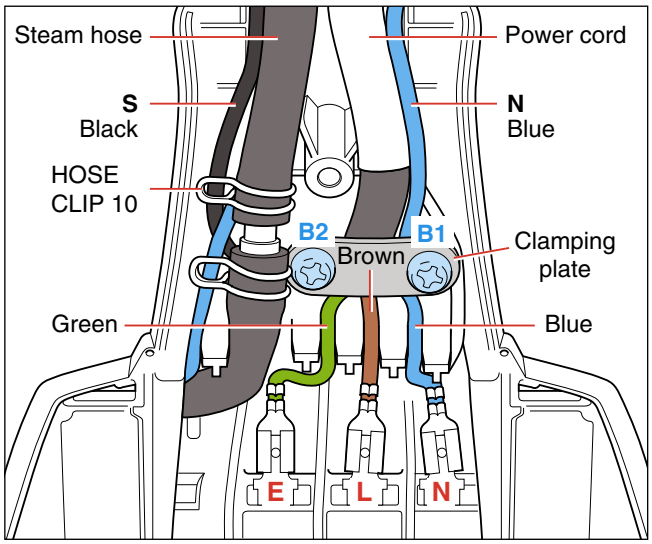


Fig 1. Wiring at rear HOUSING (Part 1)

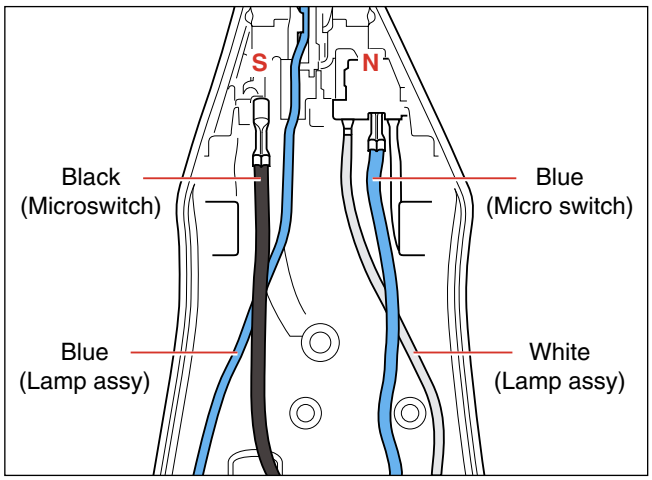


Fig 2. Wiring at rear HOUSING (Part 2)

INLAY 4

LAMP ASSY 7

MICROSWITCH ASSY 9

TRIGGER 12

THERMOSTAT DIAL ASSY 14

HOUSING PRINTED 16

SOLEPLATE COVER 17

THERMOSTAT BUSH 19

RUBBER HOSE

BRASS JOINT

SOLEPLATE ASSY 23

Remove Screw A
Disassemble BACKPLATE 1
Disassemble TRIGGER 12

Tip: Disassemble TRIGGER by inserting a sharp object into the gap at the rear of the trigger & prying upward.

Remove Screw C
Release Inlay rear catch
Disassemble INLAY 4
Disassemble LAMP ASSY 7
Disassemble MICROSWITCH ASSY 9
Disassemble THERMOSTAT ASSY 14

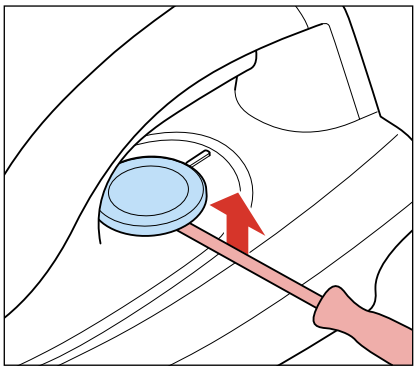


Fig 3.

Remove Screws D1, D2, D3
Disassemble HOUSING PRINTED 16
Remove Screws E1, E2, E3
Remove HOSE CLIP
Disassemble SOLEPLATE COVER 17

Pos	Service code	Description
1	4239 026 38051	Backplate
2	4239 021 55911	Hose cord mounted assy
4	4239 021 55521	Inlay non SOS assy
7	4239 021 46071	Lamp mounted assy
9	4239 021 42390	Microswitch assy
12	4239 026 38011	Trigger
13	4239 014 54370	Trigger spring
14	4239 021 55511	Thermostat dial printed
16	4239 021 55491	Housing A printed assy
17	4239 026 37971	Cover molded
18	4239 015 70150	Ryton ring
19	4239 026 13220	Thermostat bush
23	4239 021 41290	Soleplate mounted assy Non SOS

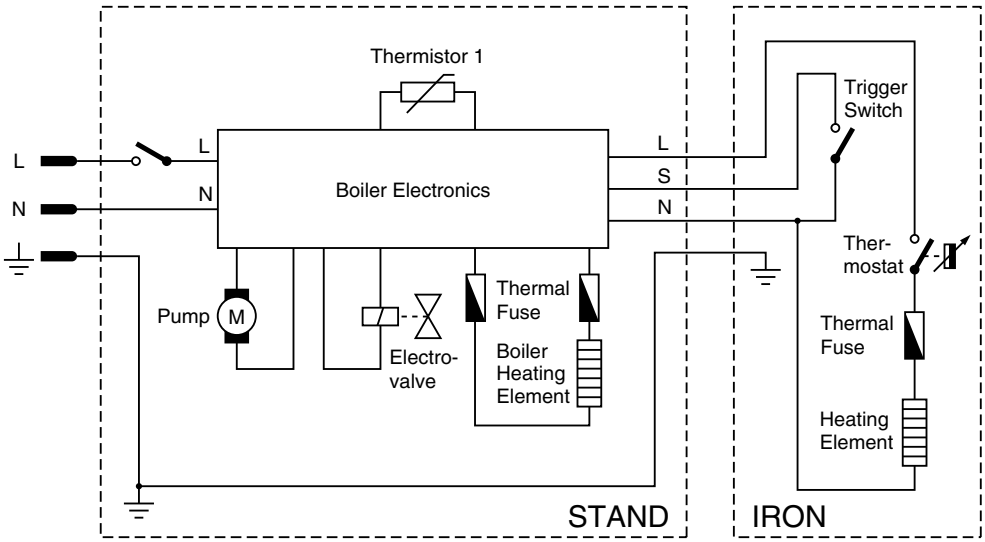
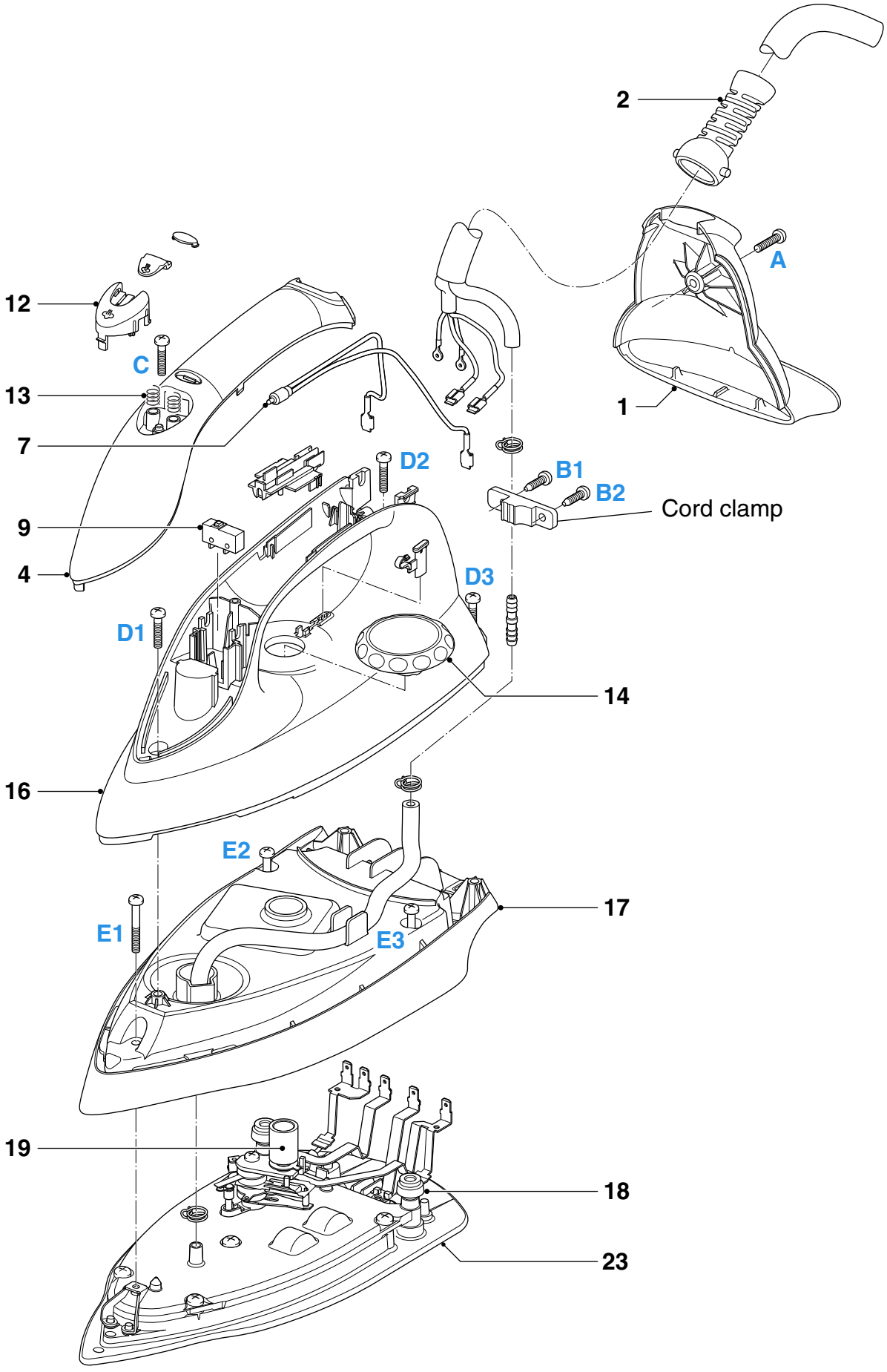


Fig 4 . Electrical diagram


2
A
1
12
C
13
7
D2
B1
B2
Cord clamp
9
4
D3
D1
14
16
E2
17
E1
E3
19
18
23

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

LIGHT SWITCH 44

Remove TRAY RUBBER CAP 30 (3x)
Remove Screw F1, F2, F3
Disassemble TRAY ASSY 33
Remove Screw H1, H2
Disassemble FRONT PANEL 37
Disassemble LIGHT SWITCH 44
Disassemble POWER BOARD

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
30	4239 015 58691	Tray rubber cap
33	4239 021 55611	Tray B assy
34	4239 021 55571	Water tank assy
36	4239 026 38161	Hose cord cap
37	4239 021 55561	Front panel A printed
38	4239 021 39540	Boiler assy - High End
40	4239 017 09890	Electrovalve
42	4239 010 10260	Inox clamp
44	4239 017 11881	Light switch
45	4239 022 62991	Control board-Pump assy kit

Pos	Service code	Description
50	4239 015 56760	Rinse rubber coupling
52	4239 021 55541	Rinse cap assy
55	4239 000 10100	Cordset EU
56	4239 021 55531	Stand bottom A assy
58	4239 026 05990	Filling cup
65	**4239 026 42081**	**De-air valve**

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

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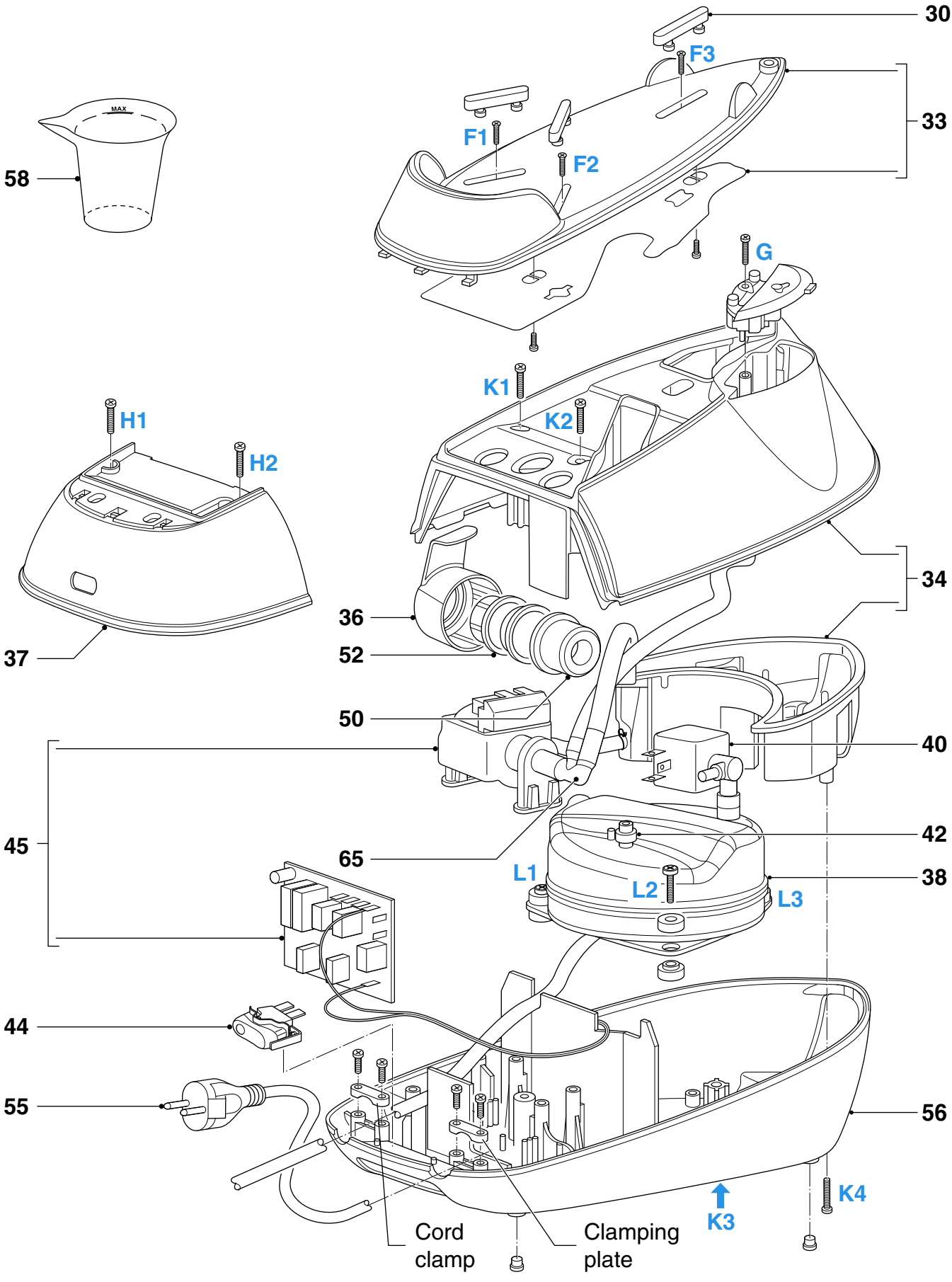
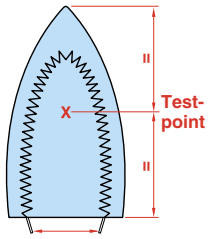

30
F3
33
F1
F2
58
MAX
G
K1
K2
H1
H2
34
36
52
37
50
40
45
42
65
L1
38
L2
L3
44
55
56
K4
K3
Cord clamp
Clamping plate

- 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 230 V 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