Coffee Maker Senseo "Latte Select"





HD7853/60 HD7853/61 HD7853/62

Philips Consumer Lifestyle

anual

PRODUCT 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 consumption	: 2650 W
	Boiler	: 1450 W
	Steam heater	: 1200 W

- Standby power (switched off) : < I W
- Standby power (switched on 30 min)
- Pressure Coffee system
- Pressure Steam system
- Contents water reservoir
- Contents milk reservoir
- Auto shut off
- Colour setting
- Sap coding

- - $\pm 30 W$
 - (room temperature)
 - : <1.6Bar
 - : < I Bar
 - : 1200 cc/mL
 - : 120 cc/mL
 - : 30 min
 - : Deep Black
 - : HD7853/60 HD7853/61 HD7853/62

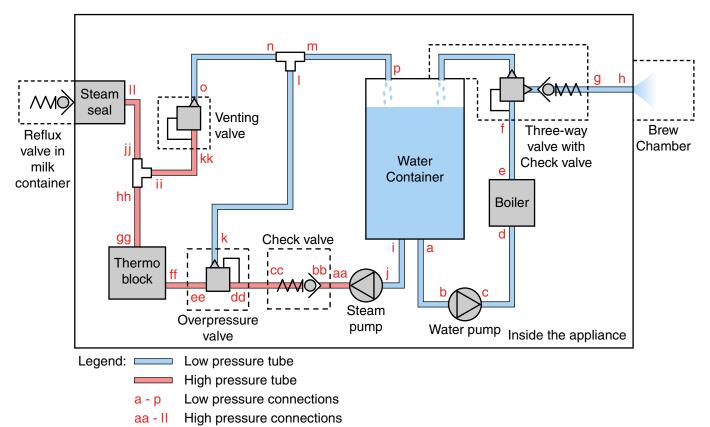
Cappuccino	Volume (cc)	Weight (g)		Indication temperature for chosen Coffee/Milk receipe very depended from milk inlet temperature.	
	сс	max. (g)	min. (g)	(°C)	
All versions	159 ± 15	160	130	≥ 63	

Printed in the Netherlands

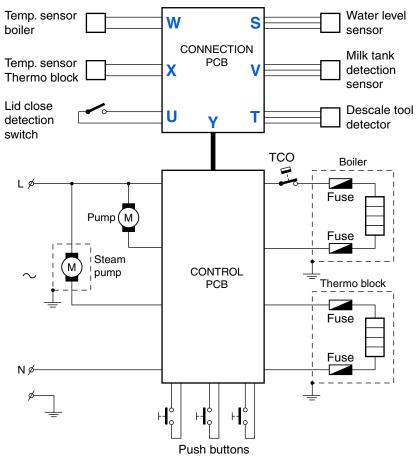


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Build up: Water and Steam circuit



Electrical circuit



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Remove back cover.

- Remove screws (T15) from the back cover.
- · Remove valve outlet.
- Start at the upper side of the back cover and stick a screwdriver between the back cover and lid cover and gently pull the back cover from the appliance so that a little chink between back cover and lid becomes visible.
- Put the screwdriver into the 2 rectangular holes (snap locks) at the back and gently pull the screwdriver such away that the lips of the snap locks are bent outwards.
- If both clicks positions are loose, it is possible to remove the back cover.
- · Reassemble follow steps backwards.

Remove brew chamber:

Removing Brew chamber head handle as follows:

- Remove boiler from the snap lock position of the brew chamber.
- Gently lift the backside (see picture) of the brew chamber up and unhook the two snap locks on front with help of a screw driver.

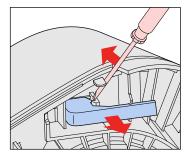


- Remove connection PCB + PCB cover.
- Remove 3 way valve and electronic connector (**U**) from the connection PCB.
- · Reassemble follow above steps backwards.

Remove the "lid closed" detection micro switch.

Disassemble brewing head.

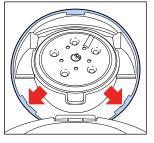
• Unlock the snap lock which is holding the micro switch assembly. (see picture for detail)



- · Gently pull out the switch assembly.
- Reassemble follow above steps backwards.

Remove brew chamber cover to reach user interface PCB.

• To remove the brew chamber lid cover place the screwdriver on the positions (see picture) and lift the cover over the snap locks on both positions.



- The cover lid can now be lifted a little.
- Remove the complete cover by unlocking the pushrod from the brew chamber.
- The user interface PCB can be removed by unscrewing 3 screws (T8)
- Reassemble follow steps backwards.

Removing the "de-scaling Hall sensor" detector / steam connection

- To be able to remove the Hall sensor, first unhook the spout out of the housing.
- Hall sensor assy can be taken out.
- To disconnect the steam connector rotate it clockwise and pull out of the spout.

To reach the components like pump, PCB, steam heater placed on the base.

- First remove back cover, brew chamber, 3-way valve, steam pump and boiler.
- Remove the 4 Torx T15 screws (two at the base and two at the housing part.
- Bend the 2 click snap locks with a screwdriver (see base), the housing can now be removed.
- To remove the rest of the housing unlock the 4 snap locks at the base and gently pull of the front cover.
- · To reassemble follow above steps backwards.

OPTIONAL (accessories)

• No specific issues

REPAIR INSTRUCTION

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Descaling

Descaling is an important element in Senseo maintenance. It should be done at least once every 3 months, up to 6 times a Year! This will prolong the life of your appliance and will guarantee optimal brewing results for a long time.

Use the correct descaling agent. Only citric acid-based descalers are suitable for descaling the SENSEO[®] machine. This type of descaler descales the appliance without damaging it. For the correct amount, see under 'Descaling procedure' below.

Each descaling mixture can be used only once. After use, the descaling mixture is no longer active. We advise you to use the special SENSEO[®] Descaler (HD7006).

Read the instructions on the package of the descaling agent. Never use a descaling agent based on mineral acids such as sulphuric acid, hydrochloric acid, sulphamic acid and acetic acid (e.g. vinegar). These descaling agents may damage your SENSEO[®] coffee machine.

Follow the steps in the section headed "Descale the appliance" see DFU (Direction for Use manual).

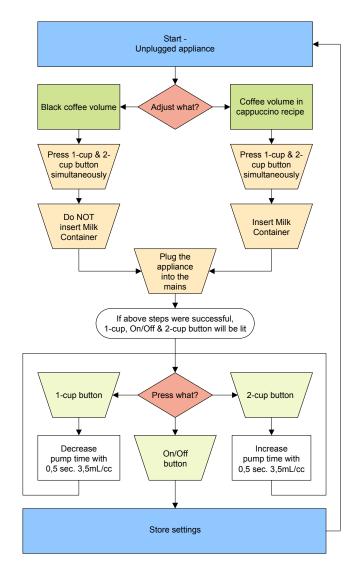
Volume adjustment

The PCB circuit board makes it possible to adjust the volume output by means of pushing the one-cup and two-cup user controls.

How to adjust the volume output:

- 1. Be sure the boiler is filled properly, other wise perform fill procedure see DFU for instructions.
- 2. Switch appliance on and wait until the unit is ready to brew.
- 3. Choose the setting of which you want to adjust the volume
- Be sure a **pod holder** is placed, but **without** a Coffee POD. (Only adjusting with plain water)
- Place a cup on the drip tray cover.
 Press the I-cup button once to measure the black coffee volume, press the I-cup button twice to measure the coffee volume in a cappuccino.
- 6. When the appliance has finished it is stabilized to perform the volume adjustment.
- 7. Empty the cup, podholder and push again for one cup setting, measure the volume output with a graduated beaker. In the table you can find the requirements for the minimum / maximum volume output cc/mL values depending from the country version:

One-cup s	One-cup setting, Including Pod holder, water spec. (Without Coffee pod)					
	Min. water cc/mL	Max. water cc/mL				
General	125	141				
France	104	120				
Spain	65	81				
Cappuccino	65	81				



- 8. Turn appliance on again and brew one cup, measure the volume. In case the volume is not within specification repeat step 7.
- 9. End.

REPAIR INSTRUCTION

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Automatic filling procedure:

The Senseo PCB contains an automatic filling procedure software routine.

This fill routine is only meant for **back-up**.

Normally the consumer has to follow the guidelines stated in the DFU.

The filling procedure functions as follows:

The consumer has to fill the water container and has to plug the appliance on the mains.

When the Senseo main switch has been pushed the main switch led, one- and two cup led will light continuously.

This is only the case when the Senseo has not finished the filling procedure completely! (**First use**)

This can be checked by reconnect the power cord a second time to the net and check if the main switch LED will blink very rapidly for approximately I second.

When the consumer pushes the one or two-cup button, the Senseo will start automatically the pump to fill the boiler and after that the Steam heater will also be filled.

When the water container is empty the filling procedure is finshed.

When the filling procedure has been successful the software will clear a **Boiler_empty_flag** in the Eeprom.

By means of this **Boiler_empty_flag** the system knows the boiler is filled or not!

When the Senseo is switched off or disconnected from the mains, the value of the **Boiler_empty_flag** is stored in the Eeprom chip.

Restoring the Boiler_empty_flag to production default:

Some times it is needed that the boiler of the Senseo have to be emptied.

This for instance in wintertime were the possibility exists that the boiler becomes frozen during transport e.g.

For those occasions it is handy to restore the **Boiler**_ empty_flag again to production default in the Eeprom. Bringing the Senseo back into production status, has the benefit the flush routine will be activated automatically when installed by the consumer, see topic **Automatic filling** procedure.

To **SET** the **Boiler_empty_flag** can be done by: Keep the I-cup button pressed while plugging in the power cord of the appliance.

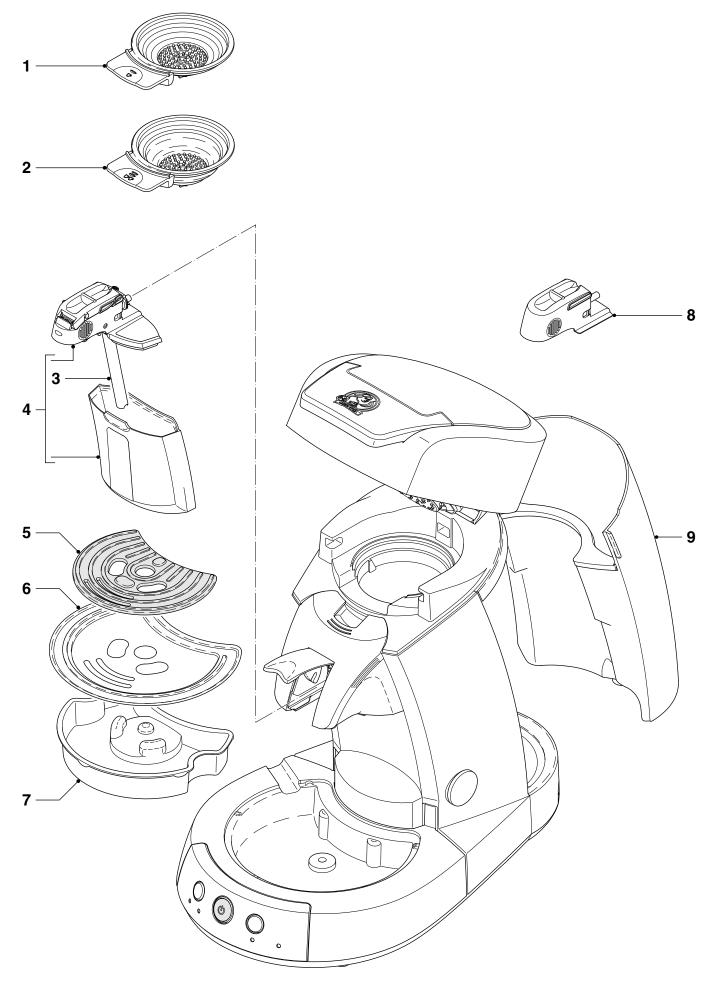
The main switch LED will blink very rapidly for approximately I second.

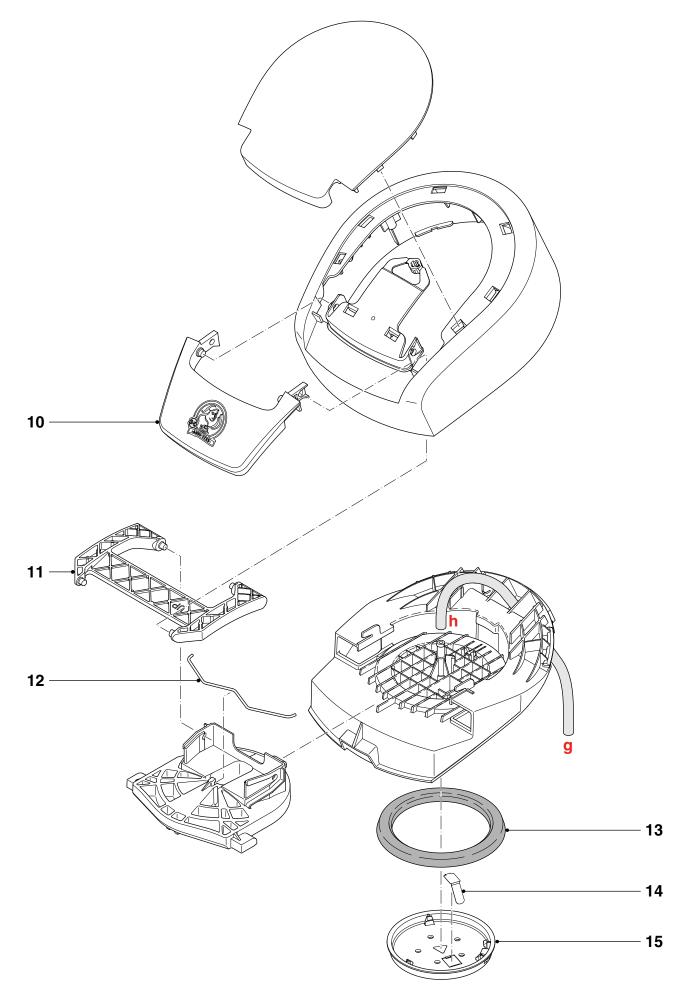
To check if the **Boiler_empty_flag** is really set, you should reconnect the power cord a second time to the net and check if the main switch LED will blink very rapidly for approximately 1 second.

PARTS LIST

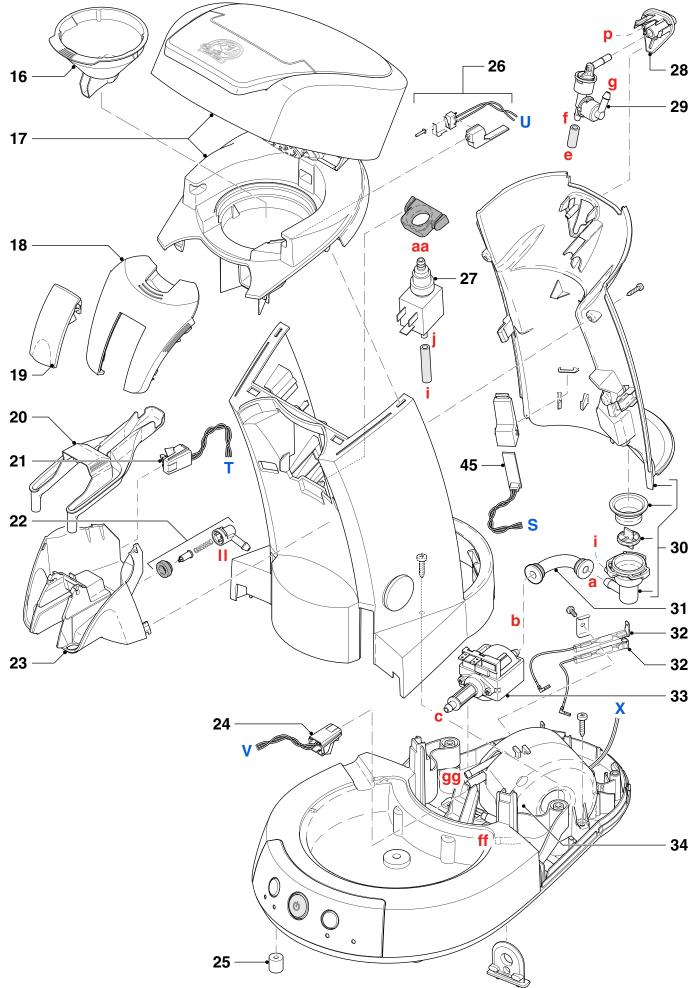
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Pos	Service code	Description	Remark
 2 3 4 5	4222 259 44210 4222 259 44220 4222 247 07261 4222 259 50422 4222 247 06991	Padholder assy 1-cup Padholder assy 2-cup Riser Pipe Milk container assy Drip tray cover sheet	Deep Black Deep Black Aqua Fresh Dark Grey
6 7 8 9 10	4222 240 00711 4222 247 65781 4222 259 49221 4222 259 50442 4222 247 58300	Driptray cover Driptray Decalcifi cation dummy assy Water container assy Lever	Deep Black Translucent dark grey Dark Grey
 2 3 4 5	4222 247 58270 4222 240 01410 4222 247 06810 4222 240 05990 4222 247 41920	Push rod Slider spring Brew chamber seal Ejector pin Distribution disk	
16 17 18 19 20	4222 247 58910 4222 259 50401 4222 247 65161 4222 247 66011 4222 247 60570	Collector Brew chamber assy Spout housing cover Spout lever Spout	Deep Black Deep Black Deep Black
21 22 23 24 25	4222 259 50902 4222 259 42440 4222 259 49363 4222 259 50892 4213 247 05250	Sensor decalcification assy Steam connecting assy Spouthousing Sensor milk container Foot	Deep Black
26 27 28 29 30	4222 259 42430 4222 259 41230 4222 247 58780 4222 259 50831 4222 259 41502	Lid switch lid close detection assy Steam pump Valve outlet 3-Way Valve assy Backcover assy	CEME E151 Deep Black Deep Black
31 32 33 34 35	4222 247 05510 4222 259 41870 4222 259 37240 4222 259 41750 4222 247 57194	Corrugated tube Fuse assy welded (2 pieces) Pump Thermo block assy Housing	ULKA HF 230 V ~50 Hz Deep Black
36 37 38 39 40	4222 247 66472 4222 247 66462 4222 247 66453 4222 247 65703 4222 247 61940	On/Off button 2-cup button I-cup button Front Cover TCO cap	Dark Grey Dark Grey Dark Grey Deep Black
41 42 43 44 45	4222 259 35440 4222 247 05130 4222 259 41620 4222 259 50283 4222 259 50292	Boiler assy NTC O-ring NTC boiler assy Base PCB assy main Interconnect PCB assy + Water level sensor	V7.0 - 230∨ 120 - 240∨
46 47 48 49	4222 247 60260 4222 259 42160 4222 259 41180 4222 259 42680	T-piece Venting valve assy Safety valve assy One way valve	





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