# Coffee Maker Senseo







#### **Philips Consumer Lifestyle**

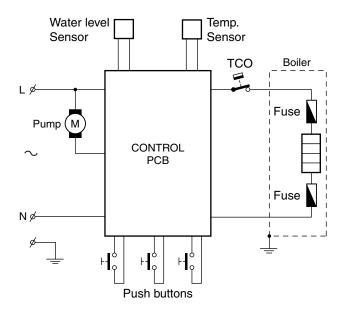
# ServiceManual

## **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 : 1450 W
- Standby power consumption : < 1W
- Contents reservoir : 750 cc
- Colour setting
- : Zinc Brown / Cashmere grey



Subject to modification

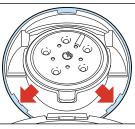


## DISASSEMBLY- AND RE-ASSEMBLY ADVISE

#### Disassembly information

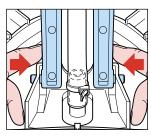
To remove the brew chamber lid cover handle as follows:

- Place the screwdriver on the positions (see picture 1) and lift the cover over the snap locks on both positions.



picture 1

- The cover lid can now be lifted up a little and to remove the complete cover including lever and push rod squeeze strongly with two fingers both legs of the push rod (see picture 2) to each other, so that the two pins will get out of the hinge position on the brew chamber.



picture 2

- To remove lever from lid cover, take a screwdriver and bend carefully the two lips/ribs in the lid cover outwards and push the lever with force out of the hinge.
- Reassemble follow steps backwards, without using a screwdriver.

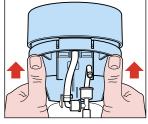
To remove the back cover handle as follows:

- Remove valve outlet.
- Start at the upper side of the back cover and stick a screwdriver into the 2 snap locks positions and gently pull the back cover from the appliance so that a little chink between back cover and brew chamber becomes visible.
- Put the screwdriver in to the 4 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 all clicks positions are loose, it is possible to remove the back cover.
- Reassemble follow steps backwards.

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Removing Brew chamber head handle as follows:

- Disassemble back cover!
- Place the appliance such a way that you are looking at the boiler.
- First remove the boiler from the snap lock position of the brew chamber.
- To remove the brew chamber, use your both thumbs
- (see picture 3) and push strongly with a little distortion (rotation) until the brew chamber comes loose.



picture 3

- Reassemble follow above steps backwards.

To reach the components placed on the base handle as follows:

- First remove back cover, brew chamber and 3-way valve.
- Remove both Torx T15 screws see exploded view in the near of position A.
- Bend the 2 click snap locks with a screwdriver (see base), and the housing can now be removed.
- To remove the rest of the housing unlock the last 4 snap locks at the base and gently pull of the front cover.
- To reassemble follow above steps backwards.

#### **REPAIR INSTRUCTION**

#### 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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. Be sure a **pod holder** is placed, but **without** a Coffee POD. (Only adjusting with **plain** water)
- 4. Place a cup on the drip tray cover and push the one-cup button.
- 5. When the appliance has finished it is stabilized to perform the volume adjustment.
- 6. 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 setting, Including Pod holder, <b>water spec</b> . (Without Coffee pod)				
	Min. water cc/mL	Max. water cc/mL		
France version	104	120		
General (Europe) version	125	141		
Spain version	65	81		
Brazil version	65	81		

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- 7. Unplug the appliance from the mains.
- 8. Press the 1- and 2 cup button simultaneously and plug the mains on.
- 9. When above step succeeded the led will turn on continuously.

10. Depending if the volume has to de- or increase you have to push the one- or two cup button. Every time you push the 1- or 2 cup button the LED will turn off for 0.5 second (feedback to user) and the pump time will be shortened or lengthened for 0.5 seconds depending which button was pushed.
Pushing 1 cup button pump, time will be shorten with 0.5 sec is approximately – 3.5 cc/mL (less coffee)
Pushing 2 cup button pump, time will be lengthen with 0.5 sec is approximately + 3.5 cc/mL (more coffee)
When the volume has to increase with 10 cc for example, push the 2 cup button 3 times. The new value will be stored when you switch the appliance off by pushing the main switch. (LED will turn off)

- 11. Turn appliance on again and brew one cup, measure the volume. In case the volume is not within specification repeat steps 6 11.
- 12. End.

#### Automatic filling procedure:

The Senseo PCB contains a 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 will light continuously. This is only the case when the Senseo has not finished the filling procedure completely! (First use)

When the consumer pushes the one or two-cup button, the Senseo will start automatically the pump to fill the boiler. When the boiler is filled the pump stops pumping.

(Pump time approximately 22 seconds)

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.

## **REPAIR INSTRUCTION**

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#### 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.

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 1-cup button pressed while plugging in the power cord of the appliance.

The main switch LED will blink very rapidly for approximately 1 second.

To check if the **Boiler\_empty\_flag** is really set, you should reconnect the power cord a second time to the net and push the main switch.

The main switch LED should light continuously.

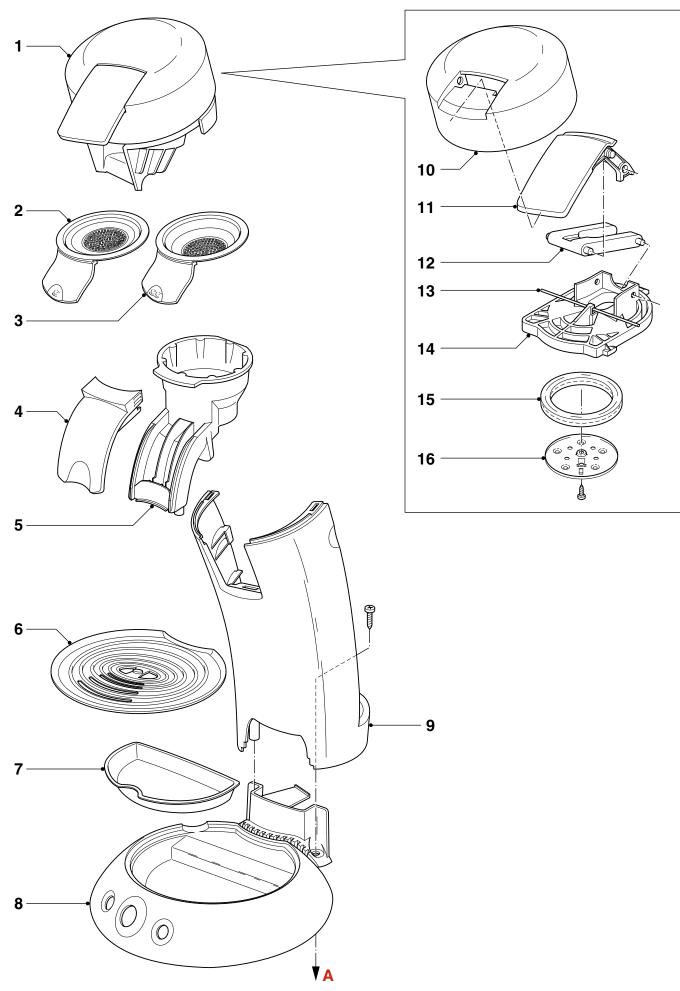
#### PARTS LIST

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Pos	Service code	Description	Remark
1 2 3 4 5	4222 259 60731 4222 259 60741 4222 259 60751 4222 247 73301 4222 247 39540	Brew chamber assy Pad holder assy 1-cup Pad holder assy 2-cup Foam chamber cover Foam chamber	Zinc brown Cashmere grey Cashmere grey Cashmere grey Black
6 7 8 9 10	4222 247 73241 4222 247 35790 4222 259 60721 4222 247 73251 4222 259 60761	Drip tray cover Drip tray Front cover printed Housing Brew chamber lid printed	Cashmere grey Zinc brown Zinc brown Zinc brown
11 12 13 14 15	4222 247 73281 4222 247 35820 4222 240 06400 4222 247 35835 4222 247 06810	Lever Pushrod Slider spring Slider Brew chamber seal	Cashmere grey
16 17 18 19 20	4222 259 06890 4222 259 59541 4222 259 52091 4222 247 61940 4222 247 43690	Distributor assy 3-way valve Boiler assy TCO cap Boiler pin cap	V7.0 - 230 V
21 22 23 24 25	4222 247 61971 4222 247 06511 4222 259 52711 4222 247 73201 4222 247 73221	Suspension bracket Pressure hose PCB assy <sup>1</sup> Button frame On/off button cover	Cashmere grey Cashmere grey
26 27 28 29 30	4222 247 39913 4222 247 73211 4222 247 05130 4222 259 39372 4222 247 39963	On/off button light guide Base plate O-ring NTC assy Sensor housing	Cashmere grey (NTC)
31 32 33 34 35	4222 259 57481 4222 247 40982 4222 259 36994 4222 259 37244 4222 247 05191	Water container Valve outlet Back cover assy Pump Pump damper	Silent blue Black Black 230 V/ 50 Hz
36	4213 247 05256	Foot	
100	4222 244 50680	Ty-wrap	

 When you replace the PCB the coffee volume has to be re-set to your country specific setting. Please carry out the Volume Adjustment Procedure to align the volume to your local specification (see table).

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