# **SERVICE MANUAL**

**Revision 00** 

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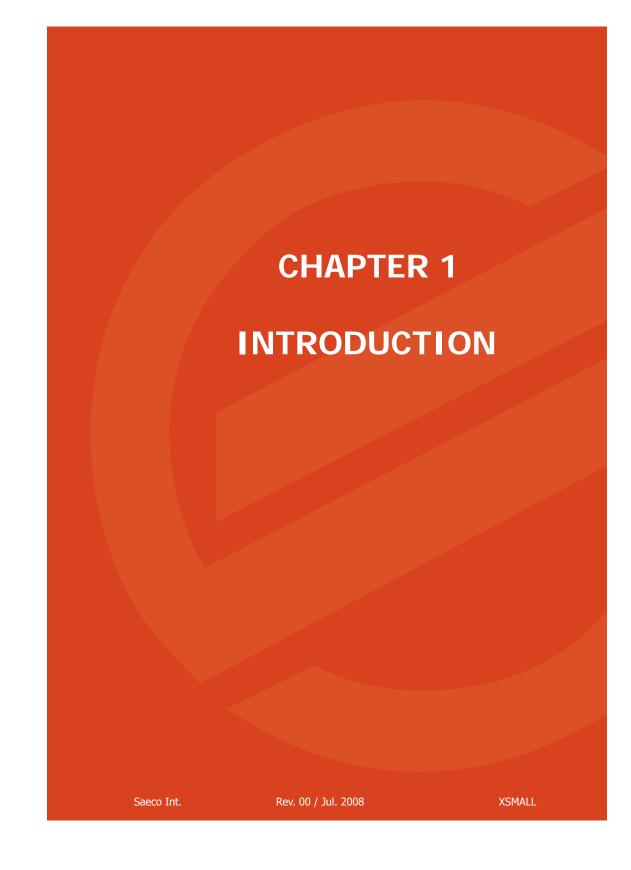
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#### 01 INTRODUCTION

#### 1.1 Documentation required

The following documentation is needed for repair procedures:

- Instruction booklet for specific model.
- Technical documentation for specific model (diagrams, exploded drawings).

#### 1.2 Tools and equipment required

As well as the standard equipment, the following is required:

Qty	Description	Notes
1	Screwdriver	Torx T 10
1	Pliers for Oetiker clamps	
1	CC -A - Vdc tester	
1	Digital thermometer	Scale limit > 150°C
1	SSC (Saeco Service Center)	Programmer

#### 1.3 Material

Description	Notes
Thermal paste	Heat resistance > 200°C
Descaler	Saeco Entkalker
Grease solvent	Personal preference
Silicone grease	Safe to use with food

#### 1.4 Safety warnings

We recommend you consult the technical manual of the machine before performing any maintenance work.

Observe all applicable standards relating to the repair of electrical appliances.

Always disconnect the power plug from the mains before beginning repair work. Simply turning off the main machine power switch is not an adequate safety precaution.

This domestic appliance is rated as insulation class I. On completion of the repair work, insulation and dielectric rigidity tests must be performed.

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### 01 INTRODUCTION

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1.5. Xsmall range





**Xsmall Plus** 

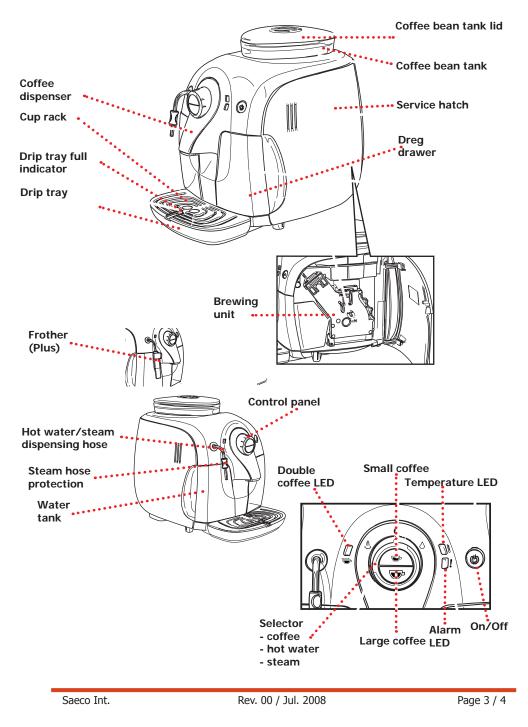
**Xsmall Steam** 

	Xsmall Plus	Xsmall Steam
Painted details	X	
Water/steam valve	X	Х
Alarm LED	X	Х
Automatic rinse	X	Х
Automatic dosage	X	Х
Frother	X	
Dispensed coffee memory capacity	X	Х
Automatic shutdown (after 60' inactivity)	X	X

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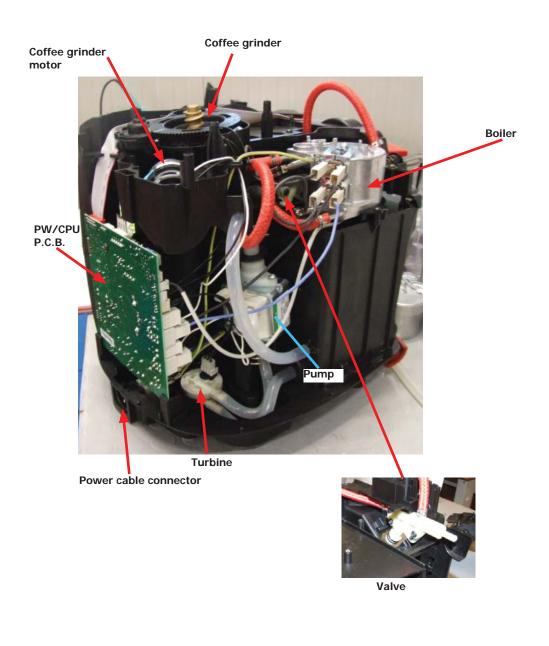


1.6.1 External machine parts





#### 1.6.2 Internal machine parts



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# **CHAPTER 2**

# TECHNICAL SPECIFICATIONS

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Power supply and output:	230 V~ 50/60 Hz 1500 W - 120 V~ 60 Hz 1500 W - 100 V~ 50/60 Hz 1300 W
Temperature monitoring:	Variable resistor sensor (NTC) - transmits the value to the electronic P.C.B.
Safety system:	2 manual reset or one-shot thermostats (175°C)
Coffee heat exchanger output: Stainless steel	(230/120 V~) 1300 W - (100 V~) 1100 W for coffee, hot water and steam dispensing
Gear motor:	33VC with 2 rotation directions; power supply 24VC
Pump:	Ulka with reciprocating piston and 100°C cutout 48 W, 230 V, 50 Hz, Type EP5 approx. 13-15 bar 120 V, 60 Hz 100 V, 50/60 Hz
Overpressure valve:	Opens at approx. 16-18 bar
Water filter:	In tank
Coffee grinder:	Direct current motor with flat ceramic grinders
Hot water/steam valve	Presblock
Automatic dosage	Dose adjustment controlled by the electronic system
Power consumption:	During the heating phase - approx. 5.6 A
Dimensions: W x H x D in mm:	295x325x420
Weight:	6.9 kg
Water tank capacity:	1.0 litres
Coffee container capacity	185 g coffee beans
Coffee dreg drawer capacity	08
Heat exchanger capacity:	Approx. 10 cc
Water circuit filling time:	Approx. 15 seconds for first filling cycle
Heating time:	Approx. 45 seconds
Dispensing temperature:	Approx. 84 ± 4°C
Grinding time:	Approx. 8-10 seconds

#### 2.1. Technical specifications

#### 2.2. Machine parameters and performance

AMOUNT OF PRODUCT	Minimum amount (Puls.)	Default amount (Puls.)	Maximum amount (Puls.)	Programm. by the user	Programm. by Production/Serv- ice department
Espresso	70	165	600	Yes	No
Medium coffee	No	No	No	No	No
Large coffee	70	440	600	Yes	No
Pre-ground	No				
Hot water	Continues until the water supply has been exhausted (fill circuit status)				
Steam for frother	Continues until the water supply has been exhausted (fill circuit status)				
Steam for Milk- Island	No				

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### 02 TECHNICAL SPECIFICATIONS

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RINSE	Initial rinse		Final rinse	
When performed	When the coffee maker is activated When the boiler temperature is ≤ 50°C		When the machine is switched off electronically, manually or auto- matically after 60', if at least one coffee has been dispensed, before switching off	
No. of pulses	180		80	
Stopping option	Yes, by pressing ar	ny key	Yes, by pressing any key	
User disable option	No		No	
Production/Service department disable option	No		No	
No. of pulses user adjust- ment option	No		No	
No. of pulses Produc- tion/Service department adjustment option	No		No	
Pulse range (Min Max.)	No		No	
WATER HARDNESS		CANNOT B	E SET	
DREGS DRA	AWER	Description and values		
Time-out for dr	eg drawer	5 sec.		
Empty dreg drawe	r alarm after	8 lots of dregs		
(double coffee is the last	product dispensed) (9 lots of dregs)		(9 lots of dregs)	
Warning to empty dr	eg drawer after	No		
Reset dregs o	counter	for at le	ime the dreg drawer is removed ast 5 seconds, even if the "empty " alarm has not been activated	
POWER/0	DFF	Description and values		
Inlet time (min	max.)		60 minutes	
Inlet time (d	efault)	No		
Inlet time prog. I	by the user	No		
Inlet time prog. by Production/Service departmen		No		
WATER TANK			Description	
Lev	el sensor		No	
Water reserve (pulses) with water filt			No	
Water reserve (pulses) with no water f			No	
Water reserve modifiable by Production/Service d		partments	No	
"Fill tank" alarm			No	
	ray" alarm		No	
Wat	er mains		No	

# **CHAPTER 3 BRIEF INSTRUCTIONS** Rev. 00 / Jul. 2008 XSMALL Saeco Int.



#### 03 BRIEF INSTRUCTIONS

- Small coffee (press twice for double coffee) Double coffee LED Temperature LED 3 ľ ത്ര On/Off []! Selector - coffee Alarm LED - hot water Large coffee (press twice - steam for double coffee) Indications Causes Solutions Machine at correct temperature - for coffee dispensing Fixed - for hot water dispensing - for steam dispensing Blinks slowly Machine in pre-heating phase for coffee, hot water and steam dispensing. Machine overheated; the machine cannot The water must be drained out into a recipient by turning the sedispense coffee in this mode. lector clockwise to the " $\mathring{O}$ " point, until the green correct temperature Blinks quickly A NE LED remains lit in a fixed manner. The flow of water dispensed should then be stopped. Blinks slowly The machine is being programmed coffee cup fill with the level Fixed Machine dispensing coffee
- 3.1. Customer and programming menu

# 03 BRIEF INSTRUCTIONS

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Indications	Causes	Solutions
	Coffee bean container empty	Fill the coffee bean tank.
Fixed	Dreg drawer full	Empty the dreg drawer while the machine is switched on. If the drawer is emptied before the indication appears and the drawer remains out of position for at least 5 seconds, the dregs counter will still be reset.
Blinks quickly	Water circuit drain	Fill the tank with fresh drinking wa- ter and fill the water circuit of the machine by turning the selector to the " $\Delta$ " point; wait for a continu- ous jet of water to come out of the steam hose.
Blinks slowly	Brewing unit not present Dreg drawer not present Service hatch open Valve position NOT suitable for machine operation	To stop the red blinking light, make sure that all components are insert- ed or closed correctly.
Blinking in an anti- clockwise sequence (cyclically)	<ul> <li>The machine is performing its rinse / automatic cleaning cycle</li> <li>When the machine is switched on (the boiler is cold)</li> <li>After filling the circuit (the boiler is cold)</li> <li>Before the machine enters Standby mode (if it has dispensed a coffee)</li> <li>During the shutdown phase, after the ON/OFF key has been pressed (if the machine has dispensed a coffee)</li> </ul>	The machine ends the cycle auto- matically. The cycle may be stopped by press- ing one of the two coffee keys.
	The machine is experiencing a fault and will not dispense coffee, water or steam	Switch the machine off, wait for 30 seconds and switch it back on again. Repeat 2 or 3 times. If the machine does not start, enter test mode.
Blinking in alternating fashion	The brewing unit has experienced a fault	Try to carry out a coffee dispensing cycle again.

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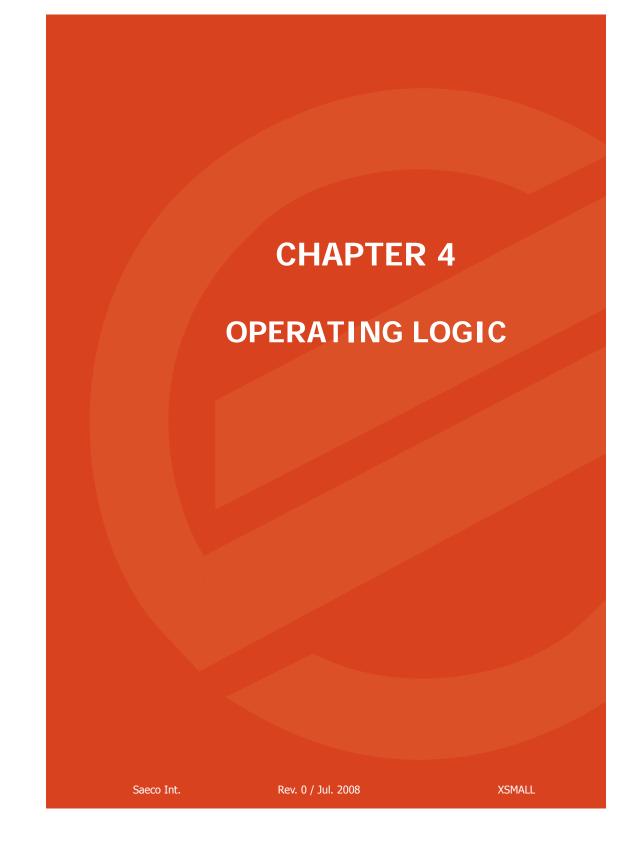
# 03 BRIEF INSTRUCTIONS

3.2. Opera	tion, cleaning and	maintenance
------------	--------------------	-------------

	Operating the machine			
1	Fill the water tank			
2	Fill the coffee bean container			
3	Switch on the appliance			
4	Fill the circuit	Place a recipient underneath the steam hose and turn the selector towards the " $\Delta$ " symbol; wait until the LED <b>I</b> stops blinking.		
5	Press the coffee key	Press once for one coffee; twice for two coffees.		

CLEANING AND TECHNICAL SERVICING				
А	Empty the coffee dreg drawer	When indicated		
В	Empty the drip tray	As necessary or when indicated		
С	Clean the water tank	Weekly		
D	Clean the coffee bean container	As necessary		
E	Clean the casing	As necessary		
	Clean the brewing unit	Every time the coffee bean container is filled, or weekly, or		
F	Lubricate the brewing unit	Once a month or every 500 dispensing procedures		
	Clean the unit housing	Weekly		
Н	Perform descaling	Every 1 or 2 months, or when you notice a reduction in the water flow rate		

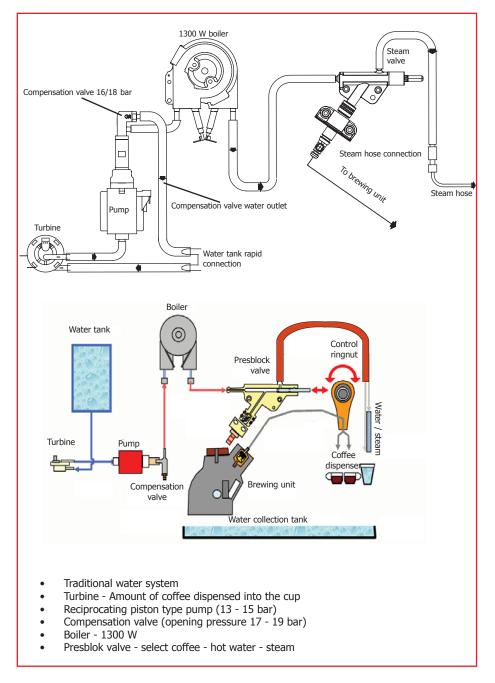
Descaling cycle frequency					
Hard- ness	Water hardness	Without limescale filter	With limescale filter		
1	Soft water (up to 7°dH)	Approx. every 3 months / 120 litres	Approx. every 6 months / 240 litres		
2	Medium water (7° - 14°dH)	Approx. every 2 months / 90 litres	Approx. every 4 months / 180 litres		
3	Hard water (15° - 21°dH)	Approx. every 6 weeks or 60 litres	Approx. every 3 months / 120 litres		
4	Very hard water (over 21°dH)	Approx. every 4 weeks or 30 litres	Approx. every 6 weeks or 60 litres		





04 OPERATING LOGIC

4.1. Water circuit

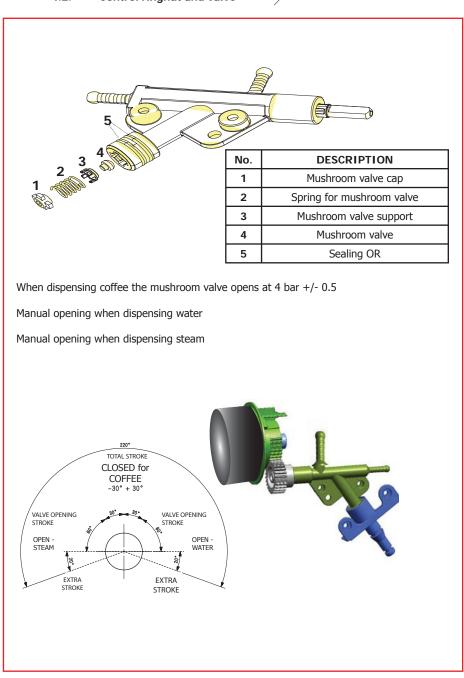


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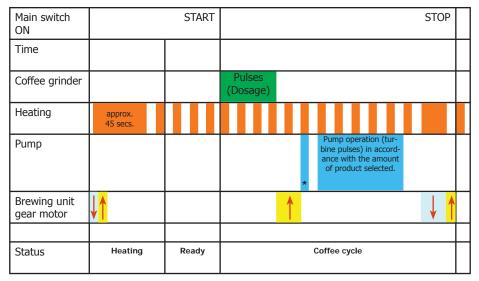


#### 4.2. Control ringnut and valve



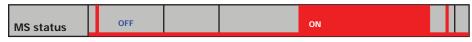
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#### Coffee cycle operating diagram 4.3.

Notes: \* Only with Pre-brewing



Single microswitch gear motor

#### Switching on

When the machine is switched on, the gear motor repositions itself as follows:

- It acts on microswitch 1 (see following section).
- The gear motor changes its rotation direction and moves upwards again by approx. 1-2 mm. - The boiler begins to heat water for approx. 45 seconds. It absorbs all the available heating power in order to reach the optimal temperature. The temperature will then remain at a constant level.

#### Coffee cycle

- 1. The coffee grinder starts the grinding process (controlled by pulses generated by a sensor).
  - The gear motor (brewing unit) moves to the dispensing position.
- 2. 3. Preliminary dispensing phase (short pump activity, short pause).
- 4. Product dispensing (the pump operation period is defined by the amount of product dispensed).
- 5. The gear motor moves to its home position (the dregs are expelled automatically).

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# The gear motor is powered by a direct current motor that engages with the smaller double toothed wheel using a worm screw. The unit is mounted on the axle of the large gear wheel and when a coffee is requested, it moves from the home position to the dispensing position, and then back to the home position again. Home position: 1 Dispensing position: 2

#### 4.4. Single microswitch

#### 4.5. Temperature sensor (adjustment)

Temp. (° C)	R nom (kΩ)	ΔR (+/- %)
20	61,465	8,6
50	17,599	5,9
75	7,214	4,1
80	6,121	3,7
85	5,213	3,4
90	4,459	3,1
100	3,3	2,5
125	1,653	3,9
150	0,893	5,1

#### Temperature sensor

An NTC is used as a temperature sensor; in the event of overheating this reduces resistor consumption. The electronic system detects the current boiler temperature from the drop in voltage and adjusts it accordingly.

Resistor values: see table

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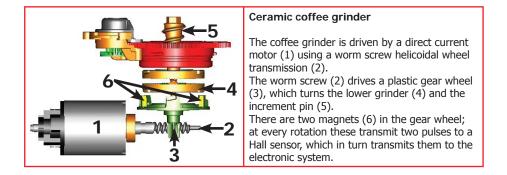
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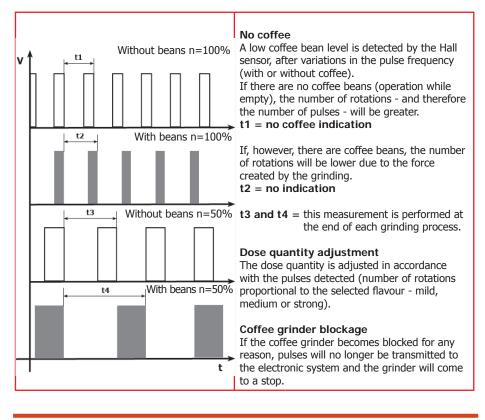
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#### 04 OPERATING LOGIC

#### 4.6. Coffee grinder function



4.7. Low bean level detection, dose quantity adjustment, coffee grinder blocked



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#### 4.8 Dose self-learning

The aim of this modification process is to ensure that, with an algorithm based on three pieces of information (listed below) detected by the machine P.C.B., the average dose is adjusted automatically (SELF-LEARNING).

- 1. Number of coffee grinder pulses taking place during the grinding cycle
- 2. Max. average value of the power consumed by the gear motor during the coffee
- brewing cycle
- 3. Flavour selected by the user

The algorithm compares the maximum average value of the power consumed by the unit with the value listed in the table for the selected flavour, in order to calculate the new grinding pulse value for the next coffee produced.

If the value of the power consumed by the gear motor is lower than the value of the min. current, the grinding pulses will be increased by 2.

If the value of the power consumed by the gear motor is greater than the value of the maximum current, the grinding pulses will be decreased by 4.

If the "pre-ground" flavour is selected by the user, no modification will be made.

Min. current (mA)	Max. current (mA)	Flavour (pluses)
200	300	Mild (- 10% of the average value)
301	450	Average (nominal)
451	600	Strong (+ 10% of the aver- age value)
-	_	pre-ground

If the value of the power consumed by the gear motor falls within the "overwork" interval, the grinding pulses will be decreased by 10 and the product will be dispensed.

If the value of the power consumed by the gear motor falls within the "expulsion" interval, the grinding pulses will be decreased by 10 and the pad will be dispensed.

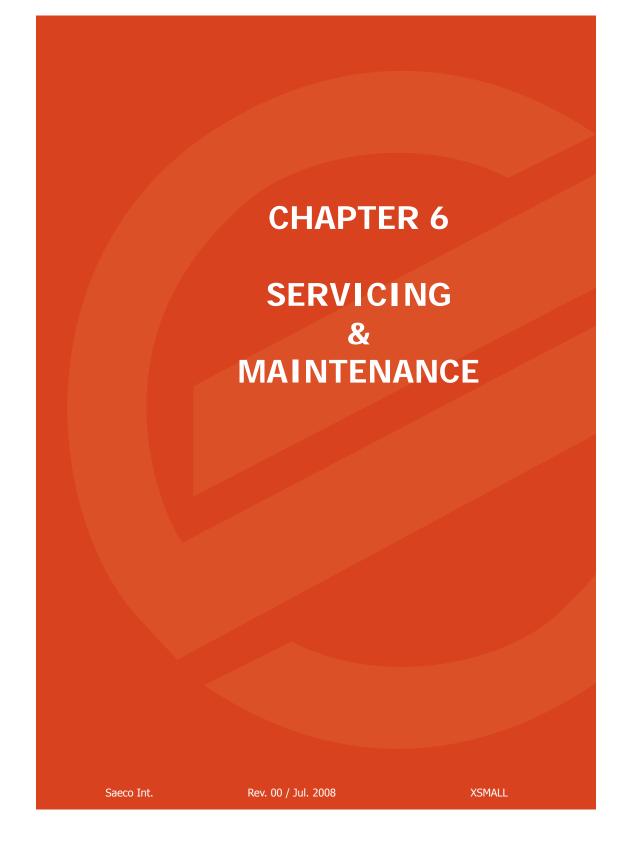
Min. current (mA)	Max. current (mA)	Flavour (pluses)
800	1000	Overwork
1001		Pad expulsion

# **CHAPTER 5** TROUBLESHOOTING XSMALL Saeco Int. Rev. 00 / Jul. 2008



10	1ALL				05 TEST MODE		
	5.1. Te	st mode					
To enter TEST MODE, proceed as follows: MAKE SURE THE MACHINE IS UNPLUGGED.							
- Turn the selector to the water position and press and hold the espresso coffee key while you plug the machine in. Confirmation that the machine is in TEST MODE is signalled by LEDs 1, 2 and 3 lighting up in a cyclical manner.							
Releas	se the espresso	key; LEDs 1 and 2	will rer	There are four L	EVELS of checking (to r level, press the <b>(on/off)</b>		
			N/OFF		CHES OPERATIONAL CHECK Irawer, hatch)		
					NIT OPERATIONAL CHECK sumption and stroke limit )		
esp	presso	coffe	ee	L2 PUMP AND T CHECK	TURBINE OPERATIONAL		
L3 BOILER AND COFFEE GRINDER OPERATIONAL CHECK							
lev.	pos. selector	LED	key				
lev.	pos. selector	LED ON	key	OPERATION	AL CHECK		
			key	OPERATION	AL CHECK		
<b>L0</b>			key	OPERATION	AL CHECK		
rtional check - OT		ON ON ON	key	OPERATION function Microswitch: dreg drawer unit	AL CHECK		
<b>L0</b>	0	ON ON OFF	key	OPERATION function Microswitch: dreg drawer unit hatch	AL CHECK notes When the unit is removed and replaced, wait for at least 5 sec. Always insert the compo-		
rtional check - OT	0	ON ON OFF	key	OPERATION function Microswitch: dreg drawer unit hatch insert unit insert dreg	AL CHECK notes When the unit is removed and replaced, wait for at least 5 sec.		
rtional check - OT	0	ON ON OFF	key	OPERATION function Microswitch: dreg drawer unit hatch insert unit insert dreg drawer	AL CHECK notes When the unit is removed and replaced, wait for at least 5 sec. Always insert the compo-		
rtional check - OT	U OR O	ON       ON       ON       ON       ON       OFF       Image: blinks once       Image: blinks once		OPERATION function Microswitch: dreg drawer unit hatch insert unit insert dreg drawer close hatch	AL CHECK		
rtional check - OT	U OR O	ON       ON       ON       ON       ON       OFF       Image: blinks once       Image: blinks once		OPERATION function Microswitch: dreg drawer unit hatch insert unit insert dreg drawer close hatch check keys	AL CHECK		

05 TEST MODE XSMALL					
lev.	pos. selector	LED	key	function	notes
check - T unit		<b>D</b> ⊮ on		brewing unit microswitch	Gear motor rises (brewing unit in work position)
		D ION		brewing unit microswitch	Gear motor falls (brewing unit in home position)
erational che brewing unit	0	D! OFF			ОК
Operational check brewing unit		<b>D!</b> Blinks		power con- sumption of	Between 200 and 300 mA OK with unit inserted
0		D! ON		the unit in mA	KO over 300 mA
	PRE	ESS THE ON/OF	F KEY TO A	CCESS THE NEXT	LEVEL UP
L2 ໍ່ ອ	0			pump opera- tion	Make water come out of the steam hose
I check turbin	0			turbine opera- tion	Each blink corresponds to one turbine rotation
Operational check pump and turbine	Blinks		Blinks	coffee pipe operation	Return to L1 and switch the unit to Work, return to L2 and make water come out of the dispenser
	PRE	ess the on/of	F KEY TO A	CCESS THE NEXT	LEVEL UP
rinder <b>C</b>	0			power con- sumption of the boiler	Use an ammeter to check the power consumption is between 5.3 and 6.1 mA
Operational check - boiler/coffee grinder		D! Blinks		coffee grinder operation	
Operati boiler/c		- DIITIKS		coffee grinder sensor	Each blink corresponds to one coffee grinder rotation
5.2. Draining the boiler (Steam Out) To drain the boiler, proceed as follows:  MACHINE UNPLUGGED  - Turn the selector to the water position , press and hold the large coffee key and plug the machine in.					
- The three LEDs light up and remain lit.					
- Release the large coffee key; the LEDs will begin to blink in an anti-clockwise cycle and boiler					
<ul><li>draining will commence (remember to place a recipient underneath the steam hose).</li><li>When the draining process is complete, the double coffee and temperature LEDs will remain lit.</li></ul>					
- When	- Unplug the machine to end this procedure.				
	ig the machine t	o end this proce	edure.		
- Unplu	-			he circuit (red LEE	) 3 blinks quickly).





#### 06 SERVICING XX MAINTENANCE

#### 6.1. Repair schedule

	Action
1	Visual inspection (transport damage)
2	Machine data check (rating plate)
3	Operational check / problem analysis
4	Opening machine
5	Visual inspection
6	Operational tests
7	Repairing the faults encountered
8	Checking any modifications (view info, new sw, etc.)
9	Service activities in accordance with the operating schedule
10	Internal cleaning
11	Operational test while the appliance is open
12	Assembly
13	Final inspection test
14	Draining the circuit (in winter)
15	External cleaning
16	Lubricating the brewing unit with suitable grease
17	Insulation test HG 701 (dielectric)
18	Documentation

#### 6.2. Service schedule

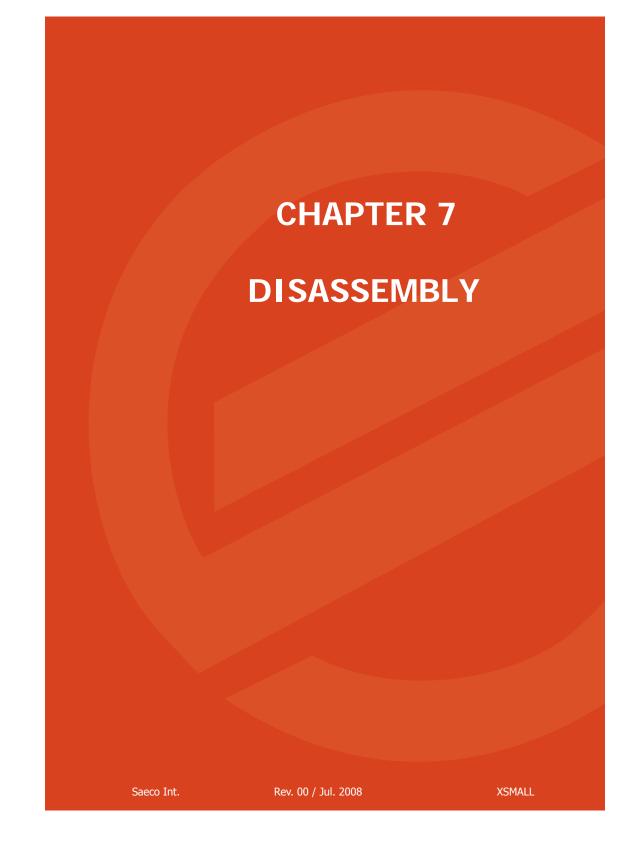
S = Replacement TR = Noise test	P= Clea D = De	5	ES = Visual inspection R = Adjustment
Component		Action	Support/tool
Water filter		P/S	
Water tank lip seal		S	
Boiler pin O-ring		S	
Brewing unit		P/ES	Grease solvent / Grease
Hoses, attachments and Oetiker clamps		ES	
Pump		ES/TR	
Gear motor		TR/ES	
Coffee grinder		P/R	Vacuum cleaner / brush
Water circuit		D	Saeco descaler
Hot water/steam valve		ES/S	

# 06 SERVICING XX MAINTENANCE

# XSMALL

#### 6.3. Final test

Test	Procedure	Support/ tool	Standard	Tolerance
Espresso	2-3 Espressos for adjustment purposes	Measuring beaker	Same amount	15%
Coffee	2-3 Coffees for adjustment purposes	Measuring beaker	Same amount	15%
Noise			Standard	
Amount of "crema"	Blow into the cup until the "crema" separates		The "crema" should come together again to form a complete layer	
"Crema" colour			Hazel brown	
Temperature	Reading taken while dispensing	Thermometer	84 °C	± 4 °C
Grinding level	Check the grain size of the ground coffee			
Hot water	Dispense water			
Steam	Dispense steam			
Dreg drawer missing indication	Remove the dreg drawer		Dreg drawer missing indication	
Low bean level indication	Start brewing a coffee while the coffee bean container is empty		Low bean level indication	





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# 07 DISASSEMBLY

#### 7.1. Disassembling the outer elements



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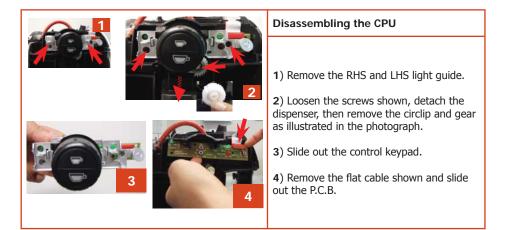
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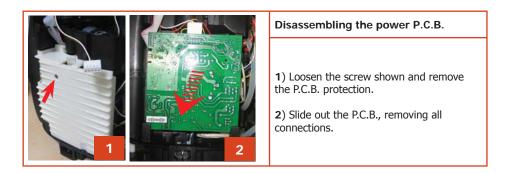
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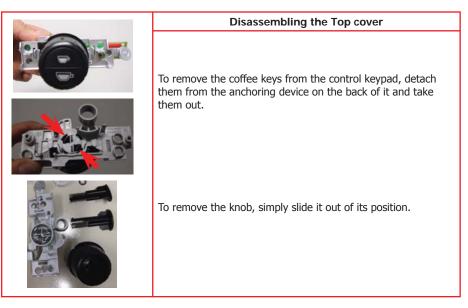
7.2. Disassembling the electronics



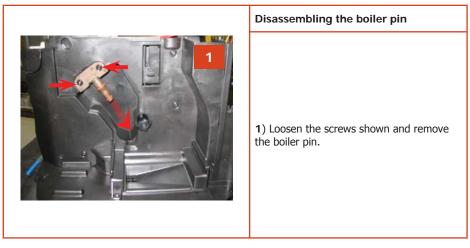


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#### 7.3. Disassembling the control knob and coffee keys



7.4. Disassembling the boiler pin

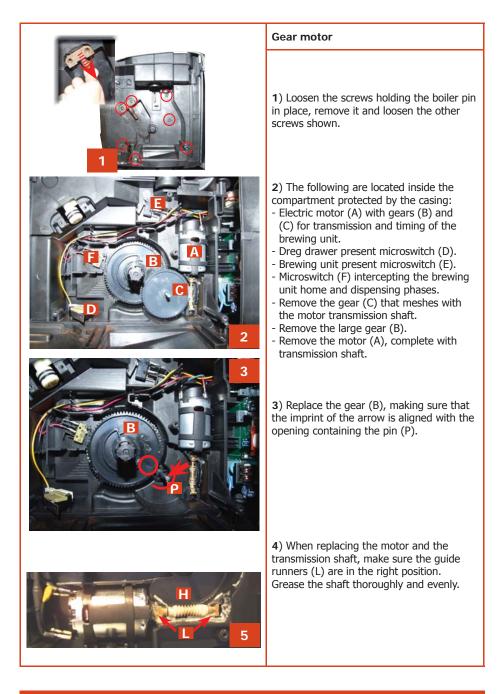


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#### 7.5. Gear motor

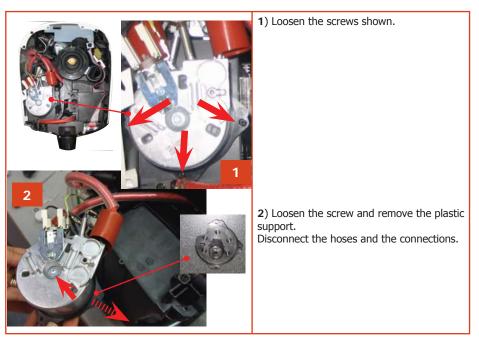


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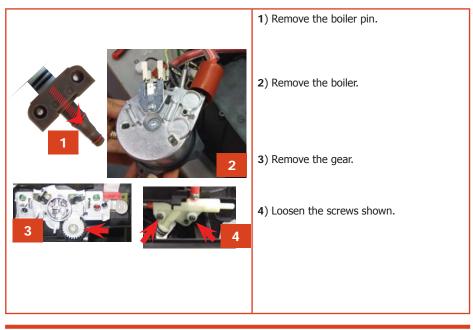
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#### 7.6. Disassembling the boiler

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7.7. Disassembling the valve



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#### 7.8. Disassembling the pump and turbine



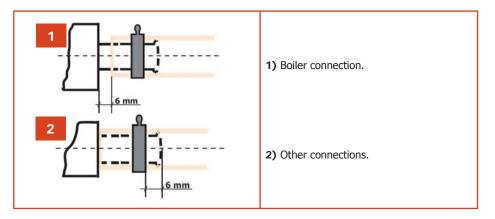
Slide out the support as shown.

Remove connection **1**, slide out the silicone hoses. To prevent annoying vibrations when reassembling the pump, take extra care when positioning spring **2**.

At this point, the turbine may also be removed from its recess.

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#### 7.10. Fitting and removing OETIKER clamps



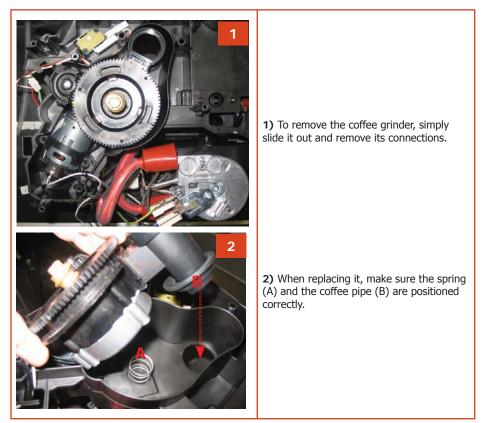
Replacing the hoses
<b>1)</b> Use a suitable pair of pliers to remove the clamp (as illustrated).
<b>2)</b> Tighten the clamp as illustrated.

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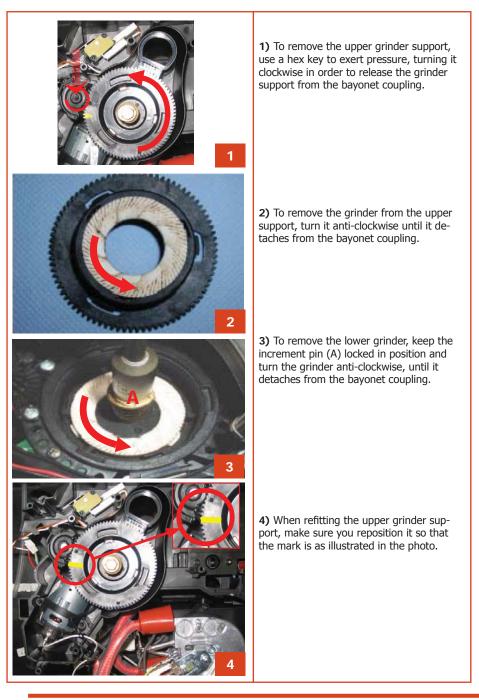
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#### 7.11. Disassembling the coffee grinder



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#### 7.12. Grinder adjustment/assembly and disassembly

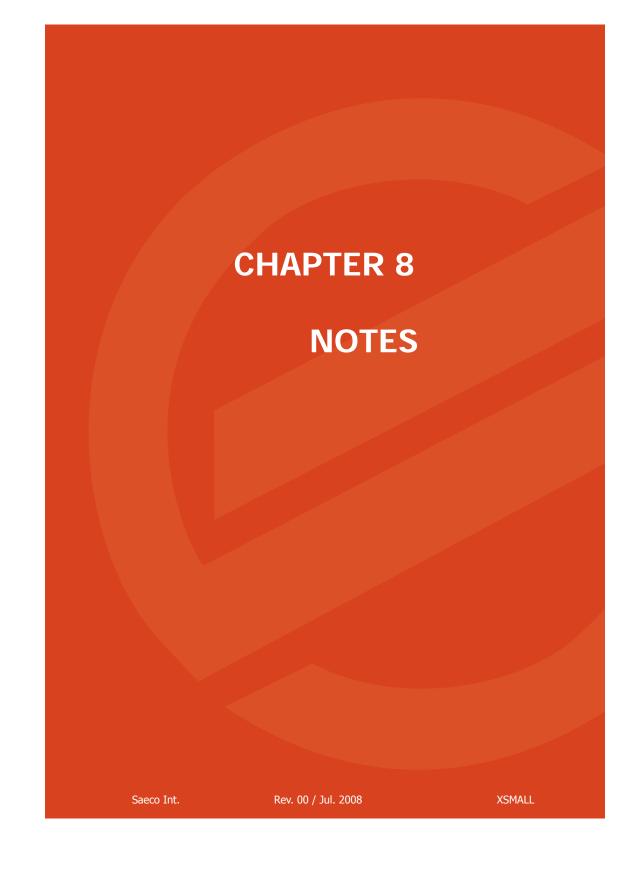


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08 NOTES

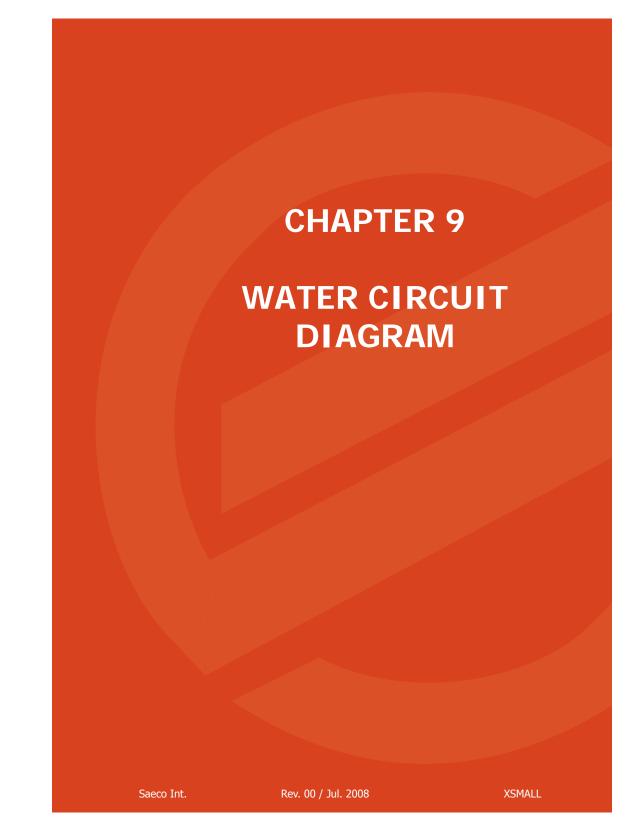
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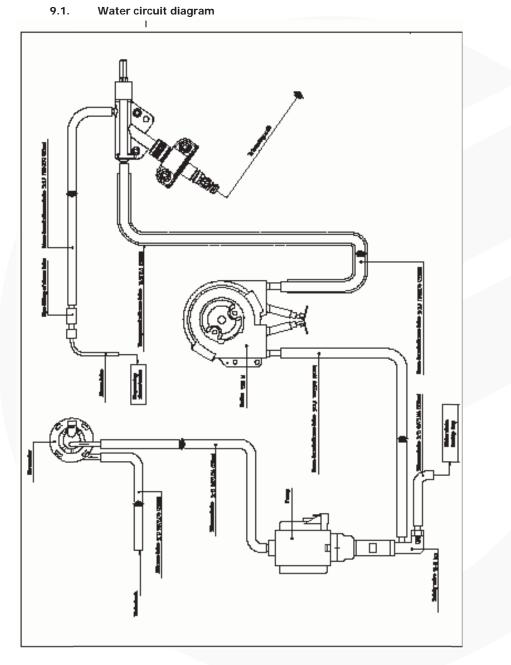
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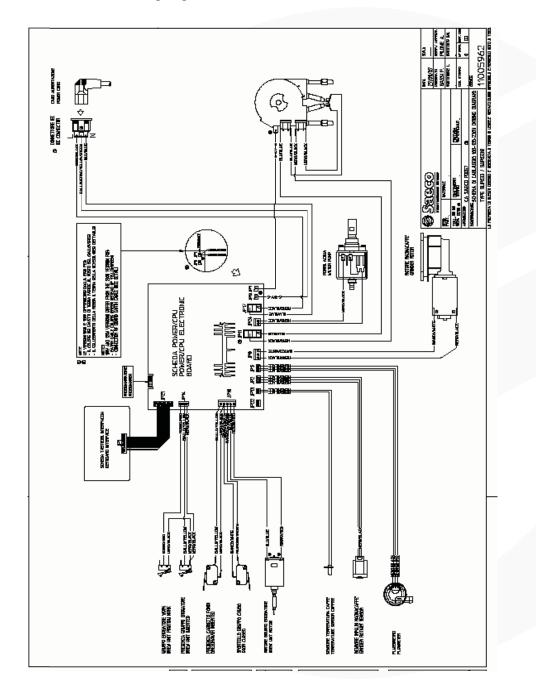
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9.1.

# **CHAPTER 10 ELECTRICAL DIAGRAM** XSMALL Saeco Int. Rev. 00 / Jul. 2008



#### 10.1 Wiring diagram