ocino

xs Presso-Bean E3
Operating manual
5th edition 03/2006
Software version PFXSED 2A / 03.03.2006



servomat steigler





A wide variety of coffee specialities

Hot drink systems without Cappuccino are today almost unthinkable. First of all the site and taste of wide variety of coffee specialities cheer up the hearts of the consumers and thus revs up the turnover. In the A.R.T. system you can find the following range: Cappuccino Cappuccino Extra MoccaCino Café Au lait Espresso

production.

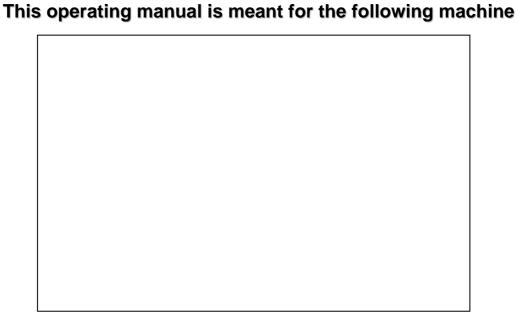
Recipe step program

The high quality of drinks produced with the A.R.T. system can be achieved only with the aid of finely tuned step production program. Coffee, topping/whitener, chocolate and fine filtered hot water are step by step transformed into creamy drinks. Each speciality of coffee has its independent step-by-step

Technical quality control

Our electronic FlashCardmemory guards A+R. The service agent can adjust the feed for some more/less water/product depending upon the customer's requirement. He however does not have any access to R - recipe step production.

The A.R.T. program guarantees a consistent quality of drinks, the level of which is simply determined by the quality of products used.



Identification label of your machine

This manual is an integral part of the machine and must always be available in the vicinity of the machine for reference, till such time as the machine gets disposed off

If the manual gets misplaced or damaged, for reordering you must provide the identification data given on the rating plate of the machine to the manufacturer.

Table of contents

Subject	Page	Chapter
Important notes (Quality)	5-6	1
Cleaning instructions	7-10	2
Technical data	11	3
General information	12-14	4
Overview of machine parts	15-18	5
Unpacking and installation	19	6
Water and filter	20-21	7
Start-up	22-27	8
Installation of a payment system	28-29	9
Machine specifications	30	10
Basic programming functions	31-34	11
Setting the portioning	35-37	12
Portioning list	38-41	13
Set sales price	42	14
Setting the temperature	43	15
Miscellaneous settings	44-46	16
Diagnostics	46	17
Sales data	47	18
Setting MDB functions	48	19
Setting the time	49-50	20
Error Memory	51	21
Service counters	52-54	22
First aid – error messages	55-58	23

1. Important notes

	i important notes	
1.1	Details concerning the quality	
	 The quality of the machine is intended only for production with coffee, cocoa, tee or other such drinks the machine is meant for. 	
	The typical application is as vending machine for customers, guests and employees.	
	 The installation, filling-up and cleaning must be done according to the specifications given in this manual, by our technical partner's staff properly trained by servomat steigler. 	
	 For changing the quality of coffee, or the product quality, a readjustment by servomat's technical partner is a necessary prerequisite. 	
	• The machine must be installed in a dry, closed room free of any external environmental effects (e.g. strong vibration).	
	 The size and capacity, and the associated filling- up/cleaning and servicing costs of model XS E are intended for up to 50 portions per day, maximum 36000 portions in 24 months. 	
	 If the machine is filled up and cleaned by untrained staff an extensive induction by technical partner of servomat is absolutely necessary. 	
	 The manufacturer will not bear any liability for damage caused by acts of vandalism or improper handling (e.g. manipulation attempts with coins, tokens, cashless means of payment. 	
	• Wear parts are those parts which undergo a natural wear and tear or have a normally limited serviceable life. These parts can fail during the statutory period of limitation applicable for claims, i.e. 24 months. However, in legal terms this is not to be seen as a defect. Following parts are covered here:	
	O-rings/lighting devices/V-rings/grinding disk/mixing motors/valves and water heating elements in case of calcification.	
	• The use of water softners/ filters, such as BRITA-water filter is strongly recommended at installation sites where water hardness is more than 9° degree according to German standards. Considerable functions of our coffee machine are directly linked to the water conveying parts, such as valves, boiler, heating elements.	
	 Regular servicing must be done according to the enclosed checklist (minimum twice a year, however, after every 5000 portions). During servicing wear parts must replaced according to the enclosed list in order to ensure overall functioning. 	
	 The guidelines for cleaning and hygiene given this manual must be followed in order to ensure flawless functioning of our machine. 	
	Beimerstetten, den 01.01.2002 Text contents are protected by copyright.	

1. Important notes

Servicing checklist

1.2

Following jobs must be performed within the purview of maintenance guidelines:

Which parts?	What must be done?	
Water tank supply or hard water supply	Clean the water tank and filter set Replace the seal O-ring inside Replace the water filter cartridge Replace the water filter cartridge for hard water	
Boiler	 Dismantle and clean the boiler, decalcify if necessary Replace boiler cover gaskets Clean temperature sensor, decalcify if necessary 	
Valve block	 Dismantle and clean the valve block, decalcify if necessary Replace plungers of all outlet valves 	
Grinder and portioning unit	 Clean grinder and replace grinding disks Clean and check the portioning unit 	
Brewer	 Remove and clean the brewer Replace sieve and plunger O-rings 	
Mixing unit	 Replace and clean the mixing bowl Replace mixer flange O-ring Replace mixer motor V-rings Replace O-ring of mixing bowl bush Replace mixer disk Inspect mixer motor, replace if necessary 	
Fan	 Dismantle the fan and clean Dismantle the fan duct and clean Dismantle the fan duct and clean 	
Product container	 Inspect the products, clean the product containers if necessary Clean the product chutes 	
Drip pan and coffee set container	- Clean drip pan and coffee set container	
Payment / Coin acceptor unit	- Inspect and clean the payment system/ coin acceptor	
Water and electrical plug connections	- Inspect all water and electrical plug connections	
Portioning, temperature and functioning	 Check portioning of water and product Check degree of grinding of coffee, adjust if necessary Check the temperature Final inspection and test run, coin acceptance if necessary 	

2. Cleaning instructions

2.1

General cleaning instructions

This cleaning instruction is an extension of the user instructions given on inner surface of the machine cover. These cleaning instructions constitute instructions for daily, weekly and monthly cleaning. Follow these cleaning instructions. This would ensure more hygiene and lesser malfunctions.

2.2

Daily cleaning

- **1. Fill up instant products:** First of all check the level of all existing products in the machine. Close the red shut-off flap of the product container in advance. Now fill in the product given on the product container. After this again open the red shut-off flap of the product container.
- **2. Fill up coffee beans:** Check the level of the coffee beans, refill in necessary. Kindly ensure that that you use the same quality of coffee filled earlier in the machine.
- 3. Carry out the rinsing program: If you are using a water tank supply, first ensure that there is sufficient water in the tank. Open the doors. Press the program button on the inner side of the machine door. A program menu is shown on the display. Press key 4 on the keyboard to get to the rinsing program. Another menu is shown on the display. Now place a large vessel under the outlet. For cleaning the brewer press key 1. For this, use cleaning tablets recommended by us. During this program, follow the instructions on the display. After the brewer is cleaned the menu appears again. Following this, press keys 2 and 3 multiple times for the individual outlets and mixing bowls. Press individual keys multiple times until around 3 litre of hot water has been used for rinsing. Fill up the water tank again with water.
- **4. Clean the water drip pan:** With the door open, remove the drip pan as follows: lightly press downwards and pull out. Remove the grid from the drip pan and clean both parts under warm running water. After that again set the drip pan properly in place.
- **5. Clean coffee set container:** Empty the coffee set container as before. Clean it using the rinsing solution meant for the purpose. Again dry up the container properly.
- **6. Clean the doors in the product dispensing area:** Clean the doors in the product dispensing area from inside as well as outside. There could be deposits here due to the splashing of the product. Use a damp sponge or cloth to clean these parts.



2.3

2. Cleaning instructions

Weekly cleaning

This cleaning process includes the daily cleaning from item 1 to item 6.

- 7. Clean the mixing bowls: Remove the mixing bowls as follows: Turn the red locking clamp to left. Now you can pull out the mixing bowl. Take out the mixing bowls completely with pipe and discharge angle. If your machine has the tea water function, remove the outlet pipe along with the discharge angle. Clean these parts using the rinsing solution meant for the purpose. Again dry up these parts carefully and reinstall them.
- 8. Clean the water storage tanks: Lift the water storage tank (blue) slightly using the handle, and pull out. Clean the water storage tank by rubbing off the deposits under warm running water. Remove lime deposits with mild vinegar. Afterwards rinse the water tank several times. If you are using a filter set in the water tank clean it the same way.
- **9. Clean the product chutes:** Remove the product chutes from the product container as described below: Press the product chute lightly against the product container and turn it anticlockwise. Clean these product chutes using the rinsing solution meant for the purpose. Again dry up these products properly before reinstallation. Product chutes get clogged if they are wet.

Monthly cleaning

This cleaning process includes the daily and weekly cleaning from item 1 to item 9.

- **10. Clean the product container:** First of all close the red shut-off flaps on the product containers. Take out the product containers by lifting these slightly at the front and then pulling them out. Pour out the remaining product. Remove the product chutes from the product containers. Put the product containers and chutes in a rinsing solution meant for them. Wipe the product containers clean with the help of a sponge. Dry out the product containers properly. Preferably leave them to dry out overnight and install them again next day and fill in.
- 11. Clean coffee beans container: But first close the slide of the product container. Lift the container upwards. Empty the remaining coffee beans from the container. Clean the container using the rinsing solution meant for the purpose. After this ,dry up the container properly and reinstall it. Again open the slide of the container and fill up the coffee beans.
- 12. Clean fan duct: When you have taken out the product containers and the mixing bowls, you can pull out the plastic drawer above the mixing bowls and below the product containers. This is meant to be the suction channel for water vapour suction. Here it is possible that the product also gets sucked along. Clean the fan duct using the rinsing solution meant for the purpose and dry it up properly before reinstallation.

2.4

2. Cleaning instructions

2.5

Cleaning aids



Use Clean Set specially prepared for the machine . (Clean Set for XS E3) $\,$

The Clean SET allows quick and simple cleaning of the machine. Machine specific Clean Sets were put together for XS E2 and XS E3.

The Cleans Set consists of:

- Pre-assembled mixing bowl and outlet pipe for cocoa
- Pre-assembled outlet pipe for water meant for tea
- Product chute for coffee
- Product chute for milk (topping or whitener)
- 6 mm cleaning brush for discharge angle
- 10 mm cleaning brush for outlet pipe 9 x 6
- 5 Litre cleaning bucket
- Yellow sponge cloth
- Scratch-free sponge
- Cleaning tablets for micro espresso brewer
- HACCP cleaner, diluted and ready for use.

Procedure



With the aid of these Clean Sets you can easily replace fouled parts. The machine again becomes immediately operational. Perform steps as in case of daily, weekly and monthly cleaning. Using the Clean Set you can immediately replace these parts placed in a rinsing solution. The machine again becomes immediately operational. The replaced parts should then be sprayed with the HACCP cleaner and must be placed in a rinsing solution diluted with the HCCP. After reaction time of approximately 45 minutes you can rub off these parts with a sponge cloth, rinse them under clear water and allow to dry up well.

For your machine you can order as follows:

Article number Article

100 545 Clean Set for XS E2 machines 100 546 Clean Set for XS E3 machines

In the supplied Clean Set there is an order list which can be subsequently used to order cleaner, brushes, sponge cloths etc..

Remember that:

Cleaning with our Clean Sets is

- quicker and simpler
- fresher and more appetizing
- more hygienic and causes lesser malfunctions.

2. Cleaning instructions

Putting out of operation

If the machine is put out of operation for a short period, for example, during holidays, it is necessary that the machine be cleaned beforehand, and the products and the water be emptied.

Even when you plan to change the location, for example in case of a machine meant for demonstration or testing, kindly proceed as explained in the dismantling instructions. Please follow the instructions for dismantling and putting the machine out of operation, to ensure that you can enjoy CINO XS even after the transport.

2.6

CINO XS is mobile, flexible and easy to transport.

Procedure:

- Run through the rinsing program as described in the cleaning instructions.
- Is your machine "fixed" to the water supply? When not go to item 3.
 - a) Close the water supply (corner valve)
 - Open the rear wall of the machine and remove the cover.
 - c) Now you can see the transparent container filled with water. At the outlet of the container there is a pipe with a stopper. Take a large vessel and open the stopper. Empty the container completely. Again close the pipe.
 - d) Restore power to the system. Briefly press the door contact switch so that the machine goes into operating mode.
 - e) Now activate the rinsing through the tea water pipe. Rinse until there is no more water. The machine is now depressurised. You can now shut down the machine.
 - f) On the bottom side of the machine base there is a drain plug for the pressure boiler. Loosen this screw carefully. Completely empty the pressure boiler. Again close the pipe.
 - g) Again close the rear panel of the machine
- **3.** Empty the water tank and clean it as described in the cleaning instructions. For emptying the cold water tank and the pressure boiler, proceed as described under items 2 b) to g).
- **4.** Empty the product container. Clean the product containers and the product chutes along with the mixing bowls and outlet pipes as explained in the cleaning instructions .
- 5. Empty and clean the drip pan and the coffee set container.
- 6. Clean the drink outlet.
- Reassemble the parts. The machine is now ready for transport / storage.



Empty the cold water tank and the pressure boiler. During transport under 0° C there is a risk of frost build-up.

3. Technical data

3.1

Technical data sheet

	Height (aloned)	520 mm
Dimensions	Height (closed) Width (closed)	520 mm 379 mm
Dimensions	Depth (closed)	470 mm
144.1.14	Leer	38 Kg
Weight	Voll	44 Kg
	Voltage supply	230 Volt 50 Hz 16 A
Electrical Values	Max. power consumption	1250 Watt
	Consumption with approx. 50 cups per day (130 ml)	2,4 Kw/h
	Primary 230 V (black) +/- 10% 220 VA	230 Volt 50 Hz
Transformer	Secondary 8.5 V (red) 10VA / 26 V (green) 90VA /	8,5 V / 26 V / 30 V
	30V (blue) 120VA	
	Voltage supply	24 V DC
Grinder	Output	50 W / 2600 UpM
	Fuse	5,0 A time-lag
	Voltage supply	220 V 50 Hz
Pump	Output (Model 1106)	48 W
•	Electromagnetic heavy-duty pump	max. 7 bar
	Heating element power	1100 W
Pressure boiler	Capacity	0.5 litre
	Heating –up time	approx. 2 minutes
	Voltage supply	24 V DC
Product motor	Running speed	90 rpm
1 Todast Motor	Truming speed	30 16111
	Voltage supply	24 V DC
Mixer motor	Running speed	16000 rpm
mixer meter	Training opood	Todoo Ipiii
	Voltage supply	24 V DC
Coffee portioning unit	Min/ max coffee portion	7 – 9 Gr.
conce pertiening unit	Willy max conce person	7 0 01.
Coffee container	Coffee beans capacity	Approx. 1kg
Const Container	Solido Soulio dapadity	Approx. mg
Cocoa container	Cocoa product capacity	approx. 0.7 kg
Jooda Joinamoi	a coost product supusity	approx. o kg
Milk container	Topping/ coffee whitener capacity	approx. 0.4 kg
Individual container	Tea / soup capacity	approx. 0.4 kg
	I	

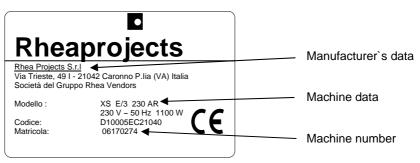
4. General information concerning the machine

Rating plate

4.1

The rating plate is an important label meant for information. Please always mention the model and machine number for any spare part order placement.

The rating plate is located inside the right side of machine. The rating plate is defined as follows:



Definition of machine data

xs	Machine type	XS
E/3	Model - Design	E = Bono / espresso 3 = Number of instant Product container

Kindly note

4.2

You can take good care of following parts by proper operation, and avoid breakdowns:

and avoid breakdowns.		
		- Grind not too fine
Pump:	Idle run and dynamic pressure can damage the pump.	- The sieves of the brewer must not be blocked
		- Do not fill up any hot water in the water tank
Grinder:	There is blockage or sticking.	- Grind not too fine
Gilliaci.	There is blockage of sticking.	- Clean periodically
Brewer:	There is blockage as the cleaning program is not carried out	- Carry out the cleaning program daily
		- Clean the sieve carefully

4. General information concerning the machine

4.3

Safety notes



This machine is manufactured keeping in mind the safety aspects. Nevertheless, independent installation and operation of the machine may only be entrusted to those persons who have completed 18 years of age. Only that person is suitable for the job, who on account of his training and experience is qualified to handle such equipment, and is familiar with the relevant safety and accident prevention regulations, and thus is in a position to identify and avert danger.

Before start-up this operating manual must be read in its entirety in order to ensure safe a start-up and a flawless operation.

Caution:

Disconnect the mains plug before carrying out any maintenance jobs!

The machine was manufactured in compliance with the following European safety regulations:



- EN 60 335 - 1

" Safety of electrical household appliances and similar products".

4.4

Warning notes



 Caution: there are hot parts on this machine. The temperature can be more than 90°C for specific parts on the machine.



- Never operate the machine with a defective power supply.
- Never immerse the machine in water.
- J
- For cleaning the machine without cleaning program always pull out the mains plug from the socket.



 Never allow children to work on the machine unsupervised

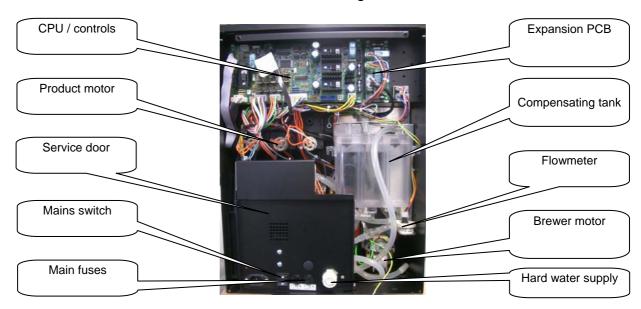
4. General information concerning the machine

	Safety devices	4.5
•	Door contact switch	0
•	Manually connected safety thermostat for the boiler	0
•	Time controlled protection for the pump	U
•	Time controlled protection for the geared motor of the coffee brewer set	U
•	Time controlled protection for the coffee grinder	U
•	Brewer water inlet protection exists	0
•	Brewer protection not correctly installed or does not exist	0
	Accessories	4.6
	A wide range of accessories and special parts are available to derive additional benefits from the machine: The installation kits are delivered along with the installation instructions that must be followed to ensure the safety of the machine.	①
•	XS coin unit kit	Art. no. 100503
•	XS AQUA module	Art. no. 100501
•	XS Multicontainer cabinet	Art. no. 100500
•	XS Multi-Table base	Art. no. 100517
•	XS front panel (various designs)	
•	XS accessoires (cups, pots, spoons, tablets, sugar candy, cup warmer)	
•	XS BONO basic spare parts set (all necessary parts)	
•	XS BONO cleaning tablets for MICRO-espresso brewer	

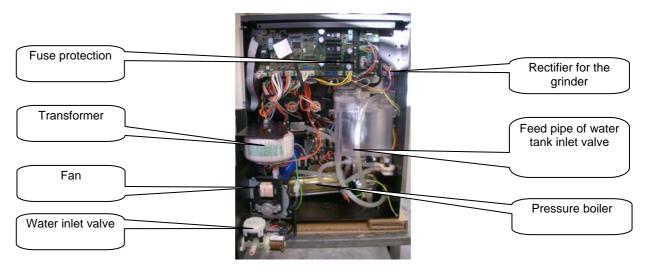
5.1

Rear panel view

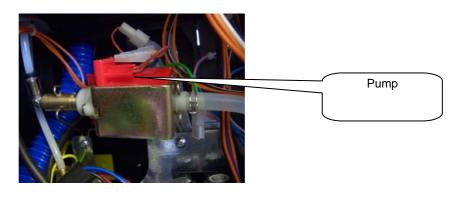
Rear casing



Rear casing (with open service door)



Rear casing (pump)



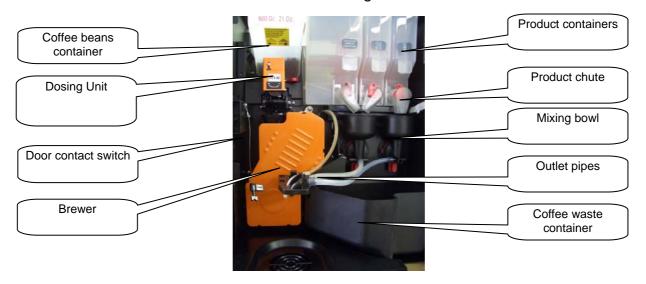
Front view

5.2

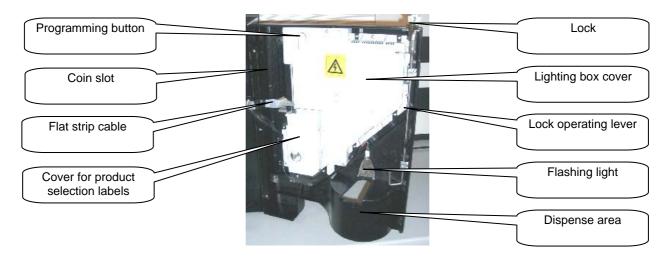
Outer casing



Inner casing

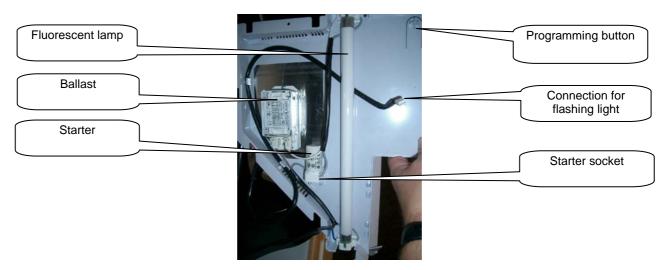


Inner doors



5.3 Lighting

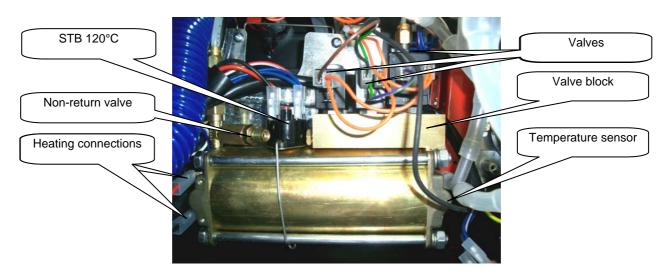
Inner door lighting



Flashing light on inner and outer doors



Pressure boiler



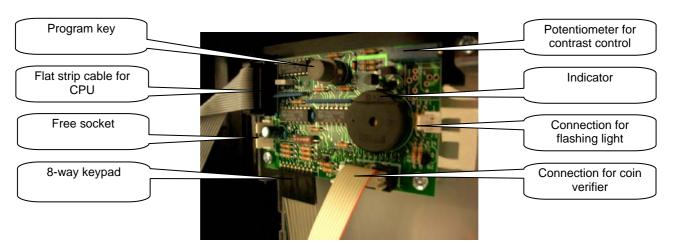
Rear view

5.4

Control unit (CPU)



Display unit PCB



Inner doors



6. Unpacking and installation

6.1

Instructions for installation



Flawless operation of the machine is guaranteed in closed rooms with a room temperature not less 5°C. The machine should not be used in rooms where there is splash water.

Caution:

As some products are sensitive to heat and humidity, it can lead to malfunctions during the machine operation if the room temperature exceeds 30°C or if the air humidity exceeds 80%.

If such conditions prevail, the parts which come in direct contact with the products must be cleaned daily.

6.2

Selection of installation site



While selecting the place of installation please bear in mind that easy access must be ensured for operating, servicing and loading the machine.

6.3

Installation

- After carefully removing the packing check whether the machine is in a flawless condition. Check whether all parts of the machine are correctly installed.
- •

The machine keys are located on the drip pan.

- V
- While selecting the place of installation ensure that a flat,
 vibration-free base is available and there is sufficient place for operation.
- V

 The machine must be installed with proper vertical and horizontal alignment so that the door closes flawlessly.

- •
- The machine must neither be exposed to frost and humidity, nor to the direct sun light.

A minimum distance of 10 cm
 must be maintained between the wall and the rear panel of the machine.

- **V**
- The machine comes with a mains cable having a shockproof plug. A 220V A.C. shockproof socket with 16A fuse is required.

7. Water and filter

Quality of water

The German Coffee Association e.V. has compiled the following basics for the optimisation of safety and quality.

Among other things, following criteria form a prerequisite for highly aromatic coffee content (naturally by using high-grade roasted coffee):

- Water fresh in taste = oxygenous
- ph value of 6.5 7.5
- Total hardness between 7 12° hardness (dH) according to German standards
- Carbonate hardness between 3 4° kH

Water filter

Our water filter systems perform twofold work:

- The activated charcoal removes substances that cause smell and spoil taste, e.g. chorine and chloride compounds as well as their residues
- 2. The ion exchanger * reduces, among other things, lime deposits (Carbonate hardness) and specific heavy metals which could appear depending upon the place of installation.



Conclusion: More aroma, less lime deposit, reduced servicing and operating costs, minimum downtime.

Espresso systems function at specially high temperature and high water pressure. Therefore, our mobile machines with tank systems are normally fitted with tank filter.

* Aforementioned

materials are food

charcoal with silver

growth of bacteria is

impregnating the active

grade. By

restrained.

Capacity of a filter cartridge BC 06

Procedure for the replacement of Aqua-Aroma filter cartridge:

- Unscrew filter cartridge
- 2. Put in the new filter cartridge and tighten easily
- 3. Check the filter system for leaky places.

Carbonate hardness	Capacity	Number of cups / tumblers *	
Carbonate hardness in degrees	In litres	130 ml	150 ml
6° kH	700	5300	4600
8° kH	520	4000	3400
10° kH	420	3200	2800
12° kH	350	2600	2300
14° kH	300	2300	2000
16° kH	260	2000	1700
18° kH	240	1800	1600

* Capacity data does not include any rinsing and cleaning

Recommended filter system:

BRITA Aqua Quell 06BC filter cartridge

BRITA connection head for 06BC filter cartridge

ιŪ



7.1

7.2



Instructions for the installation of Aqua-

Recommended

table Capacity.

Aroma filter cartridge:

6 months or refer to

maximum usage period

7. Water and filter



Water system



Inlet valve:

The inlet valve for the water tank is suitable only for depressurised area. The inlet valve is a sensitive part when the water is not being filtered. Due to dust in the non-filtered water the valve may no more open or close. It can very quickly lead to malfunctions.



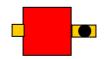
Compensating tank:

Here in the cold water section the water level is refilled with the aid of sensors (probes). On dispensation of a drink the inlet valve is opened immediately and the compensating tank is refilled up to the short probe. The long probe is used only as an antipole. In case of non-filtered water the probes can get dirty and as a result it can lead to malfunctions.



Flowmeter (water counter):

The water counter keeps track of water for all coffee based drinks. The instant water (cocoa and milk) is measured only through the time entry. The water counter registers turns via 2 magnets located in the impeller. In the controls these impulses are converted into ccm.



Pump with bypass:

The pump feeds between 7 and 9 bar. The pump is factory fitted with a thermal cut-out device to prevent over heating.



Pressure boiler:

In the pressure boiler there is a heating element and a sensor. There is no water level probe in the boiler. Therefore, the boiler, when it gets empty, must be filled up manually using the rinsing program of a mixing bowl. On the boiler there still a pressure relief valve which opens at 18 bar and diverts the excess pressure via overflow pipe. The boiler can be emptied via the drain plug at the bottom of the machine base.



Discharge valves:

The discharge valves consist of a measuring block and 3 valves. The valve block is fixed with 2 screws on the pressure boiler. The valves of the mixing bowl 1 and 2 are identical. The coil of the coffee valve is somewhat larger and it is equipped with a excess pressure function. If the counter pressure of the brewer is too large the pressure is diverted to the overflow pipe.

a checklist.

8. Start-up

Start-up with hard water supply

- 1. The machine keys can be found fixed on the grid on the drip pan. Loosen it and open the machine doors.
- 1.



2. Now you can open the top casing cover upwards. Remove the document folder lying above the product containers. This includes an operating manual, circuit diagram legend, product nameplates and

8.1

- 3. Remove the power cable from inside, first plug it into the power module at the rear end and then into the socket. Kindly ensure that the power switch is at "0". Do not switch on the machine yet.
- 3.
- 4.
- 4. Connect the machine to the mains water supply using a suitable food grade pipe with a ½" BSP connection (Not supplied). It is recommended that an inline water filter is also fitted between the mains water connection and the machine.



Do not switch on the machine yet.

5. Fill up coffee beans. Remove beforehand the coffee bean container and open the slide. Without coffee the machine shows malfunction "OFF 9".





6. You can now set the power switch to ON. The machine is still out of operation as the door contact switch has not been activated. Leave it still deactivated. Follow further instructions.

If you need to install a coin acceptor kit or a water filter kit, you can do that now. Here follow the instructions in the Supplied technical documentation.



Do not switch on the machine yet.

8.2

Main water supply connection with filter



In high pressure systems we recommend the installation of a water filter to prevent scaling.

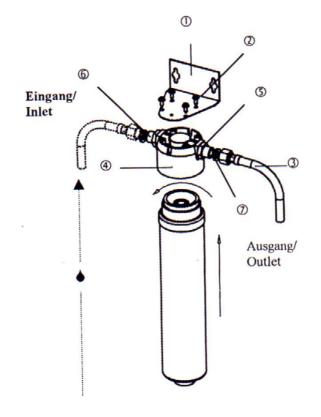
At the mains water supply is an inlet pressure of minimum 1 bar necessary. If this is not the case then a pump must be installed.

Please note!

Assembly instructions water filter BC 06

Installation:

- 1. Unplug the appliance! Turn off the water supply.
- 2. Fix the wallbracket (1) with screws (2) onto the Filter head (4). Important: Note direction of flow. The top of the Filter head is labelled: IN and OUT.
- **3.** Mount the wallbracket (1) with Filter head (4) in the intended position.
- **4.** Fix the hoses to the inlet (6) and outlet (7) connections.
- **5.** Affix the new filter cartridge to the underside of the Filter head (4) and screw it into position.
- **6.** Open the water supply and check for leaks.
- 7. Turn on the appliance.



Important notes:

- **1**. The filter system must not be installed in direct sunlight.
- **2.** Do not use aggressive cleaning agents.
- **3.** The filter system must be installed outside all danger zones.
- **4.** Do not use any sharp tools or objects during the assembly or when changing the cartridge.
- **5.** Do not install near an open flame or a source of heat.

Technical data:

Size: height: 40,60 cm diameter: 6,35 cm Max. flowrate: 3,0 Litre / min Max. temperature: 35° C / 95'

Max. temperature: 3,0° Little / Hilli Max. temperature: 35° C / 95° F Capacity: 420 Litre at 10° kH

Filter head connection: 3/8" outside thread.

Max. water pressure: 8,0 bar



BRITA connection head for 06 BC Article no. 799 051

BRITA AquaQuell filter cartridge 06 BC Article no. 799 052

Recommendation for the first thorough cleaning

8.3

Before filling up the products ensure that the product containers are clean. There could be packaging dust. If this is so proceed as follows:

Remove all product containers from the machine



Remove the cover

Remove the product chute





Remove the clamp for the portioning spiral

Remove the product portioning spiral





Remove the stirring wheel

Remove the mixing bowls





Remove the mixer disks

Remove the product outlet pipes



Put the parts in a rinsing solution with HACCP. Rub off the product containers and mixing bowls properly. Allow the parts to dry up properly. Reassemble the parts.



Again fill up the water in the water tank and switch on the machine.



8.4

Filling up the product

Fill up coffee beans. Remove beforehand the coffee bean container and open the slide. Without coffee the machine shows malfunction "OFF 9".





Close the red shut-off flaps on the product chutes. Open the cover of the product container.

Fill in the product as described on the product container.





Open the red shut-off flaps.

(i)

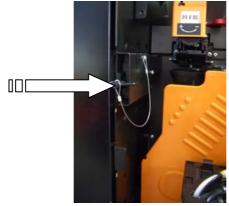
Now begin the automatic rinsing of the machine so that the product, that trickled into the mixing bowls, is rinsed away. To prevent clogging follow this procedure each time the machine is filled up.

For this proceed as follows:

Switching on the machine

8.5

Take the door contact key and turning it clockwise insert it into the door contact switch.



The machine starts. The display shows the software version of the machine in the first 3 seconds.

PFXSED 2A 03-03-06 XS E3 plus

After this the display shows:

During this period the machine checks whether everything is ok.

After this the machine automatically goes into the installation mode and the display shows:

The compensating container is filled up with water.

switching on.... please wait

After this the display shows:

The pressure boiler is filled up with water when the water is seen at the dispense area press button 1. The machine then knows that it is safe to start to heat the boiler

Installation - - - taste 1=STOP

refilling water

wait

After the successful installation, for approx. 3 seconds the display shows:

After this, the machine restarts and goes into the heating-up phase. To the set value is 90° C. The machine is ready for operation once this value is reached (in about 3 mins)

The display then alternately shows:

Ende Installation

wait temperature

> rheavendors XS

> > place your cup

and:

8. Start-up

8.6

Cleaning with the rinsing program

1=PROGR 3=FREE

Press the programming button on the inner side of the door. The display alternately shows:

2=DATI 4=CLEAN 5=MAINT

cleaning sel 1 – 2 – 3 Press selection button 4 on the keyboard. The display shows:



Brewer cleaning with cleaning tablets

cleaning 1

Now for the brewer press key 1. The display shows:

The lower brewer stamp runs on the highest point, so that it's flush with the surface of the brewer chamber. Then approx. 20ml water get rinsed. The coffee remainders in the brewer chamber and on the lower sieve will be rinsed away and the water runs into the coffee grounds container. This procedure will be repeated again. The brewer runs now again into its end position (open position) and the brewer chamber will be filled with approx. 35ml water.

put pastille and push P8

The display shows:

You are now requested to throw in the cleaning pill. **Daily cleaning with the cleaning pill is absolutely necessary.** Throw the cleaning pill in the brewer funnel and press button 8.

cleaning 1

The display shows:

Now the dissolving time of the cleaning pill runs. This time amounts to approx. 90 sec.. After the dissolving time the brewer runs again into its end position. That means, the upper brewer stamp immersed briefly into the water of the brewer chamber. After that, the water with the dissolved pill runs off into the coffee grounds container. This procedure is repeated, so that the brewer chamber will be rinsed out again. The cleaning-program for the brewer is now finished and the display shows:

cleaning sel 1 – 2 – 3

This cleaning must be done daily.

Rinsing of the mixing bowl/ daily care

cleaning 2

Now for the mixing bowl 1 press key 2. The display shows:

Now the mixing bowl is put through a rinsing cycle. After this the menu of the rinsing program again reappears.

cleaning 3

Now for the mixing bowl 2 press key 3. The display shows:

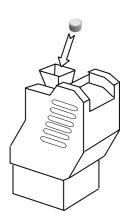
Now the mixing bowl is put through a rinsing cycle.

After this the menu of the rinsing program again reappears.

To again exit the rinsing program press the programming key on the inner side of the door.



- Remove the drip pan and put a large vessel under the outlet.
- Carry out multiple rinsing cycles for each selection.
- The rinsing program must be carried out daily.



9.1

9. Installation of a payment system

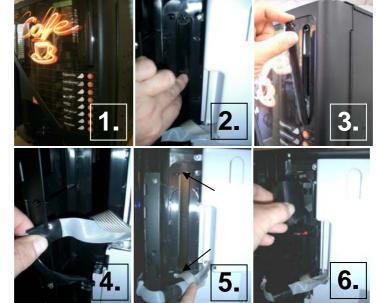
Installation of a NRI G13 coin acceptor KIT

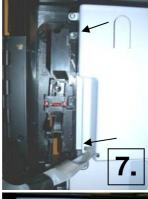
To install a coin acceptor kit, proceed as follows:

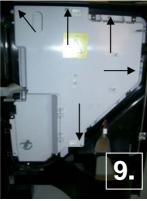
The kit consists of:

- 1 Coin acceptor unit NRI G13
- 1 Coin acceptor unit clamp
- 1 Coin slot
- 1 Lockable cash counter
- 4 Screws
- 1 short cash counter bolt
- 1 long cash counter bolt
- 1. Remove coin slot
- **2.** From inside push the coin slot outwards at the centre.
- 3. Remove the coin slot
- **4.** Remove the flat strip cable from the clamp.
- **5.** Now you can see the fixing points.
- **6.** Now take the clamp and position it on the fixing points.
- **7.** Now fix the clamp with two bolts at the top and at the bottom.
- **8.** Now position the coin slot from outside and fix this with 2 screws.
- **9.** To insert the coin acceptor unit, now you must remove the lighting box. Loosen the 5 screws.
- **10.** Now remove the lighting box and while doing so disconnect the cable for the flashing light on the display.













9. Installation of a payment system

9.1

Installation of a NRI G13 coin acceptor KIT

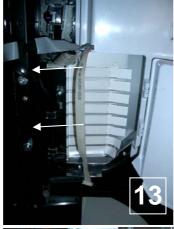
To install a coin acceptor kit, proceed as follows:

- 11. Remove the lighting box carefully pushing it downwards. There are still some cables on it that you do not need to pull out.
- **12.** Now plug the flat strip cable of the coin acceptor unit into the display unit.
- 13. Put the lighting box back in position. Again plug in the cable for the flashing light. Pay attention to the cable routing. Now install the cup clamps. Short end up, long end down.

 14. Now plug the other end of the flat strip cable into the coin collector unit.
- **15.** Push the count collector unit laterally from the right side into the clamp till the clamping lever locks in place.
- **16.** Now suspend the cash counter from the clamps.
- **17.** Test whether the coin return key is functioning.











To test the coin acceptance you must first enter the prices in the program. Coin acceptance is not possible without setting the prices. For further details kindly refer to the technical documentation supplied along with the kit.



10. Machine specifications

Arrangement of product containers

10.1

D 1

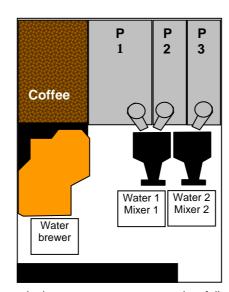
- Chocolate container
- wide portioning spiral
- Portioning motor 85 rpm

P 2

- Milk container
- narrow portioning spiral
- Portioning motor85 rpm

P 3

- Individual container
- wide portioning spiral
- Portioning motor 85 rpm



In program mode the components are named as follows:

Product 1 - Chocolate product

Product 2 - Milk product (coffee whitener/topping)

Product 3 - Individual product (tea or Soup)

Water 1 - Chocolate / milk water

Water 2 - Individual water

Mixer1 - Chocolate / milk mixer

Mixer2 - Individual mixer

Water Brewer - Coffee water

Options

10.2

The options are fixed. The labels are enclosed in the machine documents. Also see section 13.2 Portioning list.

You have the option to select between the configurations 00, 01 and 02.

Take care that the labels and the product containers are installed properly.

Cappuccino 1	Cappuccino 1	CreMoca 1
Espresso 2	Espresso 2	Cappuccino 2
Café au Lait	Café au Lait	Café au Lait
MoccaCino 4	MoccaCino 4	MoccaCino 4
Black Coffee 5	Black Coffee 5	Black Coffee 5
Latte Macchiato 6	Latte Macchiato 6	White Coffee 6
Chocolate 7	Chocolate 7	Chocolate 7
Individual 8	Individual 8	Individual 8
Configuration Std 00	Configuration Std 01	Configuration Std 02

11.1

Flash Card controls



No EPROM is installed in this control system. Updates are done via a "FLASH CARD". The Flash Card controls have an internal Flash memory.

Flash Card

The Flash Card is a storage medium with a 1 MB memory chip. **TIP** If you program a Flash Card, you must fix a label on it so that there is no room for confusion.





Flash Card Interface

The Flash Card interface is an optional accessory.

RJ45 interface for connection with the CPU



SLOT for FLASH-CARD

Label for inscription

Artikelnummer: ELT0030068

Article number: SCH0004500

Flash Card Interface Box

With the box you have the option to keep the Flash Card interface box mobile. But you also have the option of fixing the interface on the door.





Article number: 0020040238

Flash Card Editor

With the aid of the Flash Card editor you can transfer your data from the machine to the PC and administer, or you can even download software updates from our internet site and transfer them on to the Flash Card. In addition to this, sales data can be transferred from the machine to the Flash Card and using the editor it can be converted into an Excel file.

We have put together a kit for you.
The Flash Card kit consists of:

- 1 x Software Editor RHEAction
- 1 x Flash Card Reader
- 2 x Flash Card 1 MB





Article number: 500000

What do I use the Flash Card for?

11.2

You can use the Flash Card for multiple functions:

You can program new software updates with a Flash Card on the machine.

You can save your set data on a FLASH CARD on the machine and program another machine.

You can save you set data on a FLASH CARD on the machine and save them on the PC.

With the editor you can configure your Flash Card as sales card and read the sales data from the machine. With the editor you can save this data into an Excel file and have a look at it.

How do I carry out an update?

11.3

For this you need a Flash Card with the associated data and a Flash Card interface box.

①

1. Open the door.

- Insert the Flash Card in the SLOT meant for it the Flash Card interface box.
- 3. Switch on the machine from the door contact key. The file contents are displayed.
- 4. The display shows:

"Programming MASTER".

- 6. After 15 sec. appears the following flashing message: "Programming DATA EA ROM".
- 7. After 15 sec. appears the following message: "Programming OK"
- Switch off the machine from the door contact and remove Flash Card.
- 9. Restore power to the system. Check the parameters, prices, temperature and fan operating time.

Rheavendors Group B 1C Programming master Programming EAROM data Programming OK

Saving the machine data

For this you need a Flash Card with the associated data and a Flash Card interface box.

- 1. While the machine is in operating state insert the Flash Card into the SLOT meant for it on the Flash Card interface box.
- Press the programming button twice in succession. The display shows:
- 3. After a few seconds the display shows:
- 4. The download is now over. Remove Flash Card and switch the machine off and on.

11.4





Prerequisite for downloading is that the configuration file for the respective machine be available on the FLASH CARD.

A prerequisite for an

configuration files of the relevant machine

update is that the master and

type must be

available on the

FLASH CARD.

11.5

General functions



On pressing the programming button on the display PCB on the inner side of the door you reach the machine program. See picture:



On pressing the programming button following information alternately appears on the display:





For ending the

counter status query, press

programming key.

Using the selection button you can now select the desired program item. The program points are defined as follows:

1=PROGRAMMING

2=COUNTER

3=FREE SALE

4=CLEANING

On pressing button -1- you reach the programming module by entering codes 8 - 7 - 6.

On pressing button -2- you reach the sales counter. Here you can read the sales data. The counters are automatically shown in continuation.

Total selections - Partial - Total money
N Tests - Total selection 1 - Total selection 2

Total selection 3 - Total selection 4 - Total selection 5
Total selection 6 - Total selection 7 - Total selection 8

On pressing button -3- you reach the free sale You can again exit the free sale by pressing the programming key.

On pressing button -4- you reach the

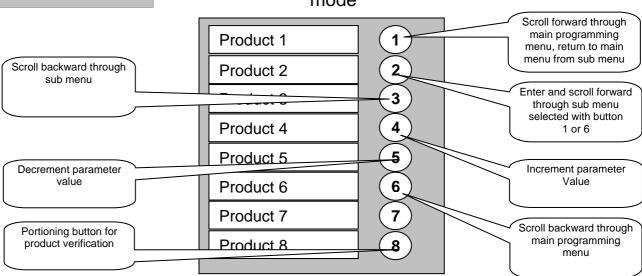
cleaning program. Using buttons 1-2-3 you can specifically start the cleaning program for the brewer and/ or mixing unit and the pipes. You can exit the cleaning program by pressing the programming button.

5=PROGRAMMING **MAINTENANCE**

On pressing button 5 you reach the service counter. In this regard read section 22.1. On pressing the programming button you go back to the sales mode.

11.6

Selection buttons in the programming mode



Program overview

11.7

On pressing the programming key and then entering the code you get into programming mode. Using the selection buttons "1" and "2" you can go to the individual menus.



Selection button 1	Selection button 2	see chapter no.
Programming button 1	For set points see section 13.2 Portioning list	12.1
till		
Programming button 8	For set points see section 13.2 Portioning list	12.1
Programming prices	Set sales price	14.2
Programming coins	Value of coin A to coin F (only pulse generator)	14.3
Programming temperature	Temperature boiler Temperature first coffee Free	15.1 15.2
	Definition first coffee	15.3
Programming miscellaneous	Machine code A Machine code B Message number Coin mech type Free Fan time	16.1 16.1 16.2 16.3
	Beep time Decimals number Language Grinder mode	16.5 16.6 16.7 16.8
	First installation Enable Snack Free Standard data Standard data load	16.9 16.10 16.11 16.12
Diagnostics	Habil. display temperature Voltage Test QTY coffee	17.1 17.2 17.3
Sales audit	Total selections Partial Total money N tests Total Vends sel. 1 to 8 Number of free sales, sel. 1 to 8	18.1 18.2 18.3 18.4 18.5 18.6
Programming MDB	Ejection tubes $4-5-7-8$ Habil. escrow max. credit max. rest Type sell Token value Coin rest a0 to Coin rest p0 Coin no rest a0 to coin no rest p0 Tubes MDB	19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1
Programming clock	Switching on Switching off Cleaning Hour Day Month Year	20.2 20.3 20.4 20.5 20.6 20.7 20.8
Reg. out of service	No. 1 to no. 20	21.1
Programming maintenance	Counter down Counter filter H ₂ O Counter brewer coffee Counter coffee ground	22.2 22.3 22.4 22.5

12. Portioning

12.1

Programming the portioning

For altering the portioning proceed as follows:



Press the programming button. The display shows alternately the program menu:

2=DATI 4=CLEAN 5=MAINT



Press button 1. Now you are requested to enter the program CODE.

Press buttons 8 – 7 – 6 in succession



After successful entry the display shows:

PRODUCT 2

3.0

PROGRAMMING BUTTON 1 - - - -

0=inhib.

Press button -2-. Until the display shows:

The display "Product 2" corresponds to the , product code explained in detail on the portioning sheet. The Display "3.0" corresponds to the operating time for this product in terms of time (corresponds to approx. 3 seconds).

To change the quantity of the product proceed as follows:

Button 4 – Change of time value upwards (higher)

Button 5 – Change of time value downwards (lower)

Remove the mixing bowl, so that you can place a measuring vessel underneath

To check your settings press button " 8 " to draw a test portion of the selected product.



On pressing button – 2 –. The display shows: Here you can set the quantity of water for product 2. Ensure sufficient after-run time (subsequent rinsing) of water.

MIXER 2 0=inhib. 8.0

On pressing button -2 –. The display shows: Here you can set the operating time for mixer motor 2.

Subsequently press button -2- and repeat this process for the other controlled products.

PROGRAMMING BUTTON 2 - - - - When you have programmed button 1 press button 1. The display shows:

Now repeat the process as described earlier up to button 8.

12.2

Exit the programming mode



You are in the program and have set all options according to your wish. Now press button 1. after this the program key to switch from the programming mode to the sales program. The display then shows END OF PROGRAMMING.

You must finish programming by pressing the "program button" to save settings

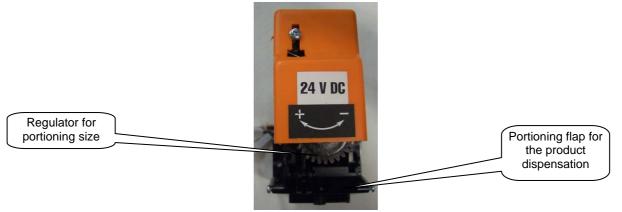
12. Portioning

Portioning of coffee

12.3

The portion of coffee is manually set though the portioning unit. You have the option to set the portion from 7 gr. to approx. 9 gr. To check the portioning kindly proceed as follows:





TIP

You must not dismantle the brewer completely. Leave the water supply pipe connection.

Remove the drip pan

Loosen the brewer from the clamp and put it on the machine base so that you have sufficient place to put a vessel underneath.



Press button 1 till the display shows the following: menu item:



Now press button 2 till the following menu item appears on the display:

TEST QTY COFFEE SEL 4

TIP

During the initial start-up the portioning unit is filled up. Therefore, before pressing key 8 place a vessel under the portioning unit.

Under this option you can draw out a sample portion of coffee by pressing button 4. The grinder starts and fills up the portioning unit.

The portioning unit then automatically dispenses coffee.

Weigh out the product.

Too little? Too much? Change the portioning by shifting the regulator towards + or – and again press button 4. till you have the desired figure in grams.

You are in the program and have set all options according to your wish. Now press button 1, after this the program button to switch from the programming mode to the sales program. The display then shows:

END PROGRAMMING	
wait	

12. Portioning

12.4

Setting for the degree of grinding of coffee

You can vary the gap between the grinding disks by turning the adjusting rings, it determines the degree of grinding of coffee.



Clockwise rotation: (in clockwise direction)

Distance becomes smaller = fine grinding



TIP

To start with always make the setting for a coarse grinding. Very fine grinding could block the brewer.

For new setting please proceed as follows:

Close the slide of the coffee container. Remove the coffee container, Remove the rest of the beans in the grinder using the portioning mode or a suction unit, so that no more beans are left in the grinder. The setting of the degree of grinding is done in grid pitches. To find an orientation point during the initial start-up, please turn the grinder in the clockwise direction up to the limit stop Now again turn the grinder approx. 30 grid pitches in the anticlockwise direction. Now you have set a coarse grinding. Draw out a black coffee from the installed brewer. The optimum degree of grinding can be worked out on the basis of brewing time. Here measure the brewing period. The optimum brewing period for a black coffee with 150ml is approx. 28 – 33 seconds. The brewing period is calculated from the pump start to the end. If the brewing period is longer the grinding is too fine. If the brewing period is shorter the grinding is too coarse. With that you can change the setting ring of the grinder in respective direction. Make changes only in fine steps. Only after 3 test portioning steps does the actual degree of grinding become active.

Be in mind that the portioning must be checked again when the degree of grinding is changed. Therefore, after setting the degree of grinding check the portioning once again. Anticlockwise rotation: (in anticlockwise direction)

Gap gets larger coarser grinding



TIP

Only after approx. 3 test portioning steps does the actual degree of grinding in the brewer become active.

12.5

Which coffee beans?

With the configuration of the machine you have the option to make the setting for the "espresso" beans or for the "light" beans.



Espresso beans = dark beans. In this case the following setting applies: Brewing period for black coffee approx. 30 seconds
Brewing period espresso approx. 10 – 15 seconds



that both drinks are of good quality.



TIP
Light beans = German
quality of coffee beans . In
this case the following
setting applies:
Brewing period for black
coffee approx. 20 seconds

13. Portioning list

Explanation on portioning list

13.1

For each key you have the option to change the portioning of the time of the product motor, mixer motor and valve required and controlled for the purpose.

Button functioning:

Here you can activate or deactivate the selected button. Normally the button is always functioning.

FUNCTIONING

You can use button 4 and 5 to change this value

Button inhibited:

You have the option to deactivate the individual butons. With this option no drink is dispensed in the sales mode.

Programming partial:

Programming total:

Programming partial means: Only those parameters that have a function are visible.

Programming: PARTIAL



Programming total means: All functions, even those that do not have a function, are visible.





You can use button 4 and 5 to change this value

What can you do with programming partial or total?:

With programming partial option, if you set a parameter to "0" and then exit programming, this parameter is not visible when the "programming partial" option is selected the next time.

You can again access the parameter by selecting the programming total option for this key. Now again enter a value for this parameter. Again set the programming partial option to see whether this value is visible.

Mixer speed:

You have the option to influence the speed of the mixer motors. Standard setting of the mixer motor speed can be found in the portioning list. Setting options from 00 to 05.



Mixer speed ... 00:

The mixer limiting is deactivated, which means that the motor is running on full power.

Explanation regarding the setting of the mixer speed:

The voltage supply is reduced, which means that the motor runs slower. Thus the speed is reduced. The given speeds are based on measurements without load.

Setting	00	01	02	03	04	05
Voltage Volt DC	24 V	21 V	18 V	15 V	12 V	9 V
Speed rpm	16000	13500	11000	8000	5800	3200



These are approximate values.

13. Portioning list

13.2

Portioning List cino xs Presso-Bean E3

Standard Data 00

150ml using Topping

Selection number	1	2	3	4	5	6	7	8
Selection Name	Cappuccino	Espresso / CreMoca	Café au Lait	MoccaCino	Black Coffee	Latte Macchiato	Chocolate / Chocomilk	ndividual
Functioning / Inhibited	Functioning	Functioning	Functioning	Functioning	Functioning	Functioning	Functioning	Functioning
Partial / Total	Partial	Partial	Partial	Partial	Partial	Partial	Partial	Partial
Coffe Water cc:	40	30	60	40	110	30		
Coffee Before / After	After	Before	Before	Beforee	Before	After		
free								
Time Product 1	0.0			1.7			4.4	
Start Delay Product 1	2.0			2.0			1.0	
free								
Time Product 2	3.0	0.0	2.5	3.0		5.0	0.0	
Start Delay Product 2	1.0	0.5	0.5	1.0		0.5	3.0	
free								
Time Product 3								3.0
Start Delay Product 3								1.0
free								
Time Product 4 *						00 *		
Start Delay Product 4 *						00 *		
free								
Time Water 1	5.5	00	3.5	5.5		6.5	8.0	
Start Delay Water 1	0.0	00	0.0	0.0		0.0	0.0	
free								
Time Mixer 1	7.0	00	5.0	7.0		5.0	10.0	
Start Delay Mixer 1	0.5	0.5	0.5	0.5		4.0	0.5	
Speed Mixer 1	00	00	00	00		00	00	
Time Water 2								8.0
Start Delay Water 2								00
free								
Time Mixer 2								10.0
Start Delay Mixer 2								0.5
Speed Mixer 2								
Freevend Quantity	00	00	00	00	00	00	00	00
Selection name number	1	2	4	5	6	7	8	10

* IMPORTANT NOTE:

Running time/starting time for product 4 is are virtual parameters. Here you can apply a time, in order to create a pause in the preparation of the drink Latte Macchiato, so that the milk foam can strengthen before the espresso is dispensed. Maximum response time of the two parameters is per 25 seconds, i.e. you know a maximum break of approx.. 50 seconds. With this feature a very nice Latte Macchiato can be produced.

13. Portioning List

Portioning List cino xs Presso-Bean E3

13.2

Standard Data 01

180ml using Topping

Selection number	1	2	3	4	5	6	7	8
Selection Name	Cappuccino	Espresso / CreMoca	Café au Lait	MoccaCino	Black Coffee	Latte Macchiato	Chocolate / Chocomilk	Individual
Functioning / Inhibited	Functioning	Functioning	Functioning	Functioning	Functioning	Functioning	Functioning	Functioning
Partial / Total	Partial	Partial	Partial	Partial	Partial	Partial	Partial	Partial
Coffe Water cc:	4.5	3.0	6.5	4.5	12.0	3.5		
Coffee Before / After	After	Before	Before	Before	Before	After		-
free								
Time Product 1	0.0			2.0			4.8	
Start Delay Product 1	2.0			2.0			1.0	
free								
Time Product 2	3.5	0.0	3.0	3.5		5.6	0.0	
Start Delay Product 2	1.0	0.5	0.5	1.0		0.5	3.0	
free								
Time Product 3								3,0
Start Delay Product 3								1,0
free								
Time Product 4 *						00 *		
Start Delay Product 4 *						00 *		
free								
Time Water 1	6.0	00	4.0	6.0		7.0	9.0	
Start Delay Water 1	0.0	00	0.0	0.0		0.0	0.0	
free								
Time Mixer 1	7.5	00	5.5	7.5		6.0	11.0	
Start Delay Mixer 1	0.5	0,5	0.5	0.5		4.0	0.5	
Speed Mixer 1	00	00	00	00		00	00	
Time Water 2								9,0
Start Delay Water 2								0,0
free								
Time Mixer 2								11,0
Start Delay Mixer 2								0,5
Speed Mixer 2								00
Freevend Quantity	00	00	00	00	00	00	00	00
Selection name number	1	2	4	5	6	7	8	10

* IMPORTANT NOTE:

Running time/starting time for product 4 is are virtual parameters. Here you can apply a time, in order to create a pause in the preparation of the drink Latte Macchiato, so that the milk foam can strengthen before the espresso is dispensed. Maximum response time of the two parameters is per 25 seconds, i.e. you know a maximum break of approx.. 50 seconds. With this feature a very nice Latte Macchiato can be produced.

13. Portioning list

13.2

Portioning List cino xs Presso-Bean E3

Standard Data 02

150ml using whitener

Selection number	1	2	3	4	5	6	7	8
Selection Name	Cremoca	Cappaccino	Café au Lait	MoccaCino	Black Coffee	White Coffee	Chocolate / Chocomilk	Individual
Functioning / Inhibited	Functioning	Functioning	Functioning	Functioning	Functioning	Functioning	Functioning	Functioning
Partial / Total	Partial	Partial	Partial	Partial	Partial	Partial	Partial	Partial
Coffe Water cc:	3.0	4.0	6.0	4.0	11.0	6.0		
Coffee Before / After	Before	After	Before	Before	Before	Before	-	
free								
Time Product 1		00		1.7			4.4	
Start Delay Product 1		2.0		2.0			1.0	
free								
Time Product 2	1.8	2.4	1.5	2.4		1.8	00	
Start Delay Product 2	0.5	1.0	0.5	1.0		0.5	3.0	
free								
Time Product 3								3,0
Start Delay Product 3								1,0
free								
Time Product 4 *								
Start Delay Product 4 *								
free								
Time Water 1	3.0	5.5	3.5	5.5		3.5	8.0	
Start Delay Water 1	0.5	0.0	0.0	0.0		0.0	0.0	
free								
Time Mixer 1	4.5	7.0	5.0	7.0		5.0	10.0	
Start Delay Mixer 1	0.5	0.5	0.5	0.5		0.5	0.5	
Speed Mixer 1	00	00	00	00	00	00	00	
Time Water 2								8,0
Start Delay Water 2								0,0
free								
Time Mixer 2								10,0
Start Delay Mixer 2								0,5
Speed Mixer 2								00
Freevend Quantity	00	00	00	00	00	00	00	00
Selection name number	3	1	4	5	6	12	8	10

IMPORTANT NOTE: In this dosing list all menu options are specified, which are changeable.

In the PARTIAL programming mode the only visible parameters are those that have a running time greater than zero. These parameters are recommended for the selection.

In the TOTAL programming mode all parameters are visible. For each selection there are over 40 parameters. That means with 8 selection buttons is over 240 parameters for an equipment programming to be considered would have. In order to make for you programming clearer, we integrated the point of program programming PARTIAL.

The standard data 00/01/02 have the default values, which are suitable for most customers.

14. Set sales price

Price allocation

14.1

The machine allows 8 price allocations which are assigned permanently to 8 selection keys. You can sell at 8 different prices.

Price 1 Button 1 Price 2 Button 2 Price 3 Button 3 Price 4 Button 4 Price 5 Button 5 Price 6 Button 6 Price 7 Button 7 Price 8 -Button 8

14.2

Set sales price



In programming using button 1 select the list "Programming prices". The display shows:

PRICE 1 0.00

Now, press button -2-. The display shows:

With button -4 – and -5 – you can set your desired sales price.



Press button 2 after you have set price 1.

The display shows:

Repeat the procedure as described earlier up to Price 8.

The sales price must be adjusted according to the smallest coin value used in the coin acceptor unit.

Price setting "0" implies free vend. If a coin acceptor unit is connected no coin collection takes place

14.3

Fix the value of the coins



In programming using button 1 select the list "Programming coins". The display shows:



Now, press button -2-. The display shows:

This function is supported only in connection with the pulse generator.

The basic setting for the coin set is programmed as follows:

Coin A = £0.05

Coin B = £0.10

Coin C = £0.20

Coin D = £0.50

Coin E = £1.00

Coin F = £1.00 (desired value of the token)

On pressing button 4 and 5 you can increase or decrease the value of the coin.

15. Setting the temperature

15.1

Boiler temperature

In programming using button -1 select the list "Programming temperature". The display shows:

PROGRAMMING TEMPERATURE----

Now, press button -2-. The display shows: Using selection button 4 and 5 you can set the heating temperature of the boiler. The set-point should not be well over the basic value of 90 $^{\circ}$ C.



15.2

Temperature increase °C

Press button -2-. The display shows:



The temperature increase activated when for a long time no coffee is drawn out. This could calcify the brewer parts and take away the heat. Due to this the drink would appear not to be quite hot.

TIP

With this parameter you can set the temperature level for the heating cycle set in the temperature increase. Optimum set-point: 98°C. Standard setting: 0°C

15.3

Time for temperature increase

Press button -2-. The display shows:

With this parameter you can set a heating cycle of 0 – 90 minutes for the temporary temperature for every first coffee. Optimum set-point: **20 minutes** Standard value: 0 minutes **0 – 90 minutes**



Solution for temperature problems

If product is dispensed in "thick-walled" porcelain or earthenware cups, it is possible that the drink appears to be somewhat "cold". If the cups are not pre-heated, they draw out heat from the drink and lower its temperature. In this regard we recommend a cup warmer to heat the cups.





Cup warmer

Article number: 119 054

16. Miscellaneous settings

Machine ID number

16.1



In programming select key -1- select the list "Miscellaneous programming". The display shows:



Press key -2-. The display shows: Here you can enter the machine number.



If a slave machine is connected to the XS, you can give an additional machine number.

Information

16.2



You have the option to select from multiple messages in the display.

Now, press button -2-. The display shows:

With button -4 – and -5 – you can set your desired display information.

Allow yourself a break

place

your cup

- 0 = rheavendors XS place your cup
- 1 = take a relax moment place your cup
- 2 = enjoy a break time place your cup

3 = Freely programmable

- 4 = enjoy a break time place your cup
- 5 = rheavendors at your service place your cup
- 6 = insert coins place your cup
- 7 = message 7 place your cup



Setting "3" can be freely programmed with the Flash Card editor.

Payment system

16.3

coin-mech type PAR. SING. VEND.

Press button -2-. The display shows:

With button -4 – and -5 – you can set your desired payment system.

Payment system

Par. Sing. Vend.

Pulse generator (e.g. G13) for single sale

Par. Mult. Vend.

Pulse generator (e.g. G13) for multiple sales

Executive

Coin changer, cashless (e.g. cash card)

(i)

Exec. Price Hold

for price setting via the payment system. (coin changer)



MDE

Coin changer, cashless (e.g. cash card)

Take care that your payment system is set correctly. In case of incorrect setting the display shows:

16. Miscellaneous settings

16.4

Fan after-run time

Press button –2-. The display shows: Here you can set the after-run time of the fan, how long should the fan run after the product has been selected.

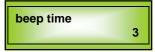
Standard setting here is 5 Min.

16.5

Time signal

Press button -2-. The display shows:

Determine the length of the signal tone from the electronic controls of the CPU on selection of products and/ or confirmation of coin acceptance.

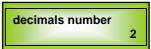


16.6

Decimal position

Press button -2-. The display shows:

Setting of the decimal point according to English and/or European coin value (x . xx). **Setting = 2**



16.7

Language

Press button –2-. The display shows: Setting the language for the menu. By pressing buttons 4 and/or 5 you can select between 3 different languages.



16.8

Grinder type

0 = Grinding after drink dispensation

1 = Grinding before drink dispensation (for next portion)

Default setting here is 0.

grinder mode 0= after 1=before 0

16.9

First installation

This function is automatically activated at the time of initial start-up (pressure boiler and compensating container are filled up with water, temperature is set at 90 degrees, error messages in the error memory are deleted). With buttons 4 and 5 you can again activate or deactivate this function. This must be done if the boiler is to be drained. (before draining)



0 = Initial installation activated

1 = Initial installation deactivated

16. Miscellaneous settings

Enable Snack

16.10

Habil. snack 0=no 1=yes 0 There is the possibility to connect our mini Snack or Micro Snack under counter machine as a Slave. If you activate this programming option then additional parameters for price settings, temperature settings and error messages appear in programming. If the slave machine is not connected then this value must be set at '0'

Standard data

16.11

Standard data 0-1-2 00 Press button –2-. The display shows: Here you can specify which standard values you wish to access.

00 = Configuration 00

01 = Configuration 01

02 = Configuration 02

Set the value with button 4 and 5.

You must carry out the next step to write the new standard data settings to memory.

While updating with a Flash Card automatically the values from standard data 00 are loaded.

Load standard data

16.12

Standard data 4=load You can now load your predefined standard data. Keep button 4 pressed till "SAVING OVER" appears on the display. Now the new standard values are written into the memory.

17. Diagnostics menu

Display temperature

17.1

These options are important and useful tools for the service engineer.

(i)

HABIL. DISPLAY TEMPERA. 1=YES 0 Now, press button -2-. The display shows:

1 = permanent temperature display on the display

 $0 = \underline{no}$ temperature display on the display

After the test again deactivate this display so that the other display information can be shown.

Voltage

17.2

VOLTAGE volt: 24,8

Now, press button -2-. The display shows: Here you can read the output voltage from the transformer.

Test Coffee portion

17.3

TEST QTY COFFEE SEL 4 Now, press button -2-. The display shows: Under this option you can draw out a sample portion of coffee by pressing button 4. The grinder starts and fills up the portioning unit.

The portioning unit then automatically dispenses coffee.

also see section 12.3

18. Sales data

18.1

Total counter



Press button 2. The display shows:

This counter registers all sales in the sale and free sales mode. This counter status cannot be reset.



18.2

Partial counter

Press button 2. The display shows:

This intermediate counter registers all sales in terms of numbers of pieces in sales mode. This counter status can be reset by pressing button 4 for a long time.



18.3

Money counter

Press button 2. The display shows:

This counter registers all sales in terms of coin value in sales mode. This counter status can be reset by pressing button 4 for a long time.



18.4

Test counter

Press button 2. The display shows:

This counter registers all sales in terms of coin value Free sale mode. This counter status can be reset by pressing button 4 for a long time.



18.5

Counter for selection 1 to 8

Press button 2. The display shows:

This counter registers all vends in terms of number of sold drinks per selection. This counter status can be reset by pressing button 4 for a long time.



Proceed as described earlier for all other selections (up to selection 8) to read or reset counter statuses.

18.6

Freevend counter, selections 1 to 8

Press button 2. The display shows:

This counter registers all vends in terms of number of Freevend (whilst executive key switch is enabled) drinks per selection. This counter status can be reset by pressing button 4 for a long time



Proceed as described earlier for all other selections (up to selection 8) to read or reset counter statuses.

18.7

Reading the sales data with a Flash card



The sales data can be read even with a Flash Card. For this, you need a Flash Card Editor. With the Flash Card Editor the sales data is converted into an Excel file. In this regard, read the documentation for the Flash Card Editor.

19. MDB settings

MDB Parameter

19.1

PROGRAMMING MDB Change the MDB settings according to the following table.

Use button 2 to move in the CODE area and with buttons 4 and 5 change the values.

CODE	Explanation	Set standard value
Coin key 4 – 5 – 7 – 8	Channel payment by pressing the button $4-5-7-8$ ($4=0.50 \in$, $5=0.20 \in$, $7=0.10 \in$, $8=0.05 \in$)	
EE	0 = Ready for change 1 = Purchase obligation	1
C MAX CREDIT	Maximum credit in Cent 0 = infinite 500 = Value in Cent = 5 €	0
R MAX remaining cash	Maximum remaining cash in Cent 0 = infinite 500 = Value in Cent = 5 €	0
SS	0 = Single sale (Singlesale) 1 = Multiple sale (Multisale)	0
Token	Value or free sale impulse of the token Free sale impulse is = 0. Message on the display: Free sale Value of the token which is programmed in the coin acceptor unit e.g. 100 = 1 € Message on the display: 1.00	0
CIN	Blocking the individual coin channels A B C D E F G H I J K L M N O P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	All coins are activated
	0 = Active 1 = Blocked	0-0-0-0-0-0-0-0-0-0-0-0-0-0-0
СН	Receipt group with display "put in counted cash" BLOCK EURO (€) A B C D E F G H I J K L M N O P 5 10 20 50 100 200	Kindly note that: While using a token, activate the corresponding channel. (TK)
	0 = Active 1 = Blocked	
MDB channel capacity	Total contents in the channels	Value in EURO
	These settings are required only for coin changer.	

20. Clock

20.1

Clock functions



Press button 1. The display shows:

The machine has an internal clock. You have the option to set various switching functions. The clock becomes active only after you have entered the time.

PROGRAMMING - - -CLOCK

20.2

Switching On

Press button 2. The display shows:

Here you can enter the switch-on time for the machine. (e.g. 06.00). On setting this parameter to 00.00 this setting is again deactivated.



20.3

On setting this parameter

to 00.00 this setting is

again deactivated.

Switching Off

Press button 2. The display shows:

Here you can enter the switch-off time for the machine. (e.g. 18.00). Drinks can be sold only between the switch ON and switch OFF time. When the switch-off time is reached the machine shows in the display: Shall again be ready for sale from 06.00 onwards.



20.4

Automatic cleaning

takes place only when

minimum 5 portions are sold within 24 hours.

Cleaning

Press button 2. The display shows:

Here you can set the switch-on time for automatic cleaning (e.g. 07.00).



When the clock reaches 7.00 the automatic cleaning starts with the following display:

The display changes and it shows: Now a cleaning cycle with approx. 60 ml water

is being used for the brewer.

The display changes and it shows: Now a cleaning cycle with approx. 60 ml water is being used for the hot water pipe.

The display changes and it shows: Now a cleaning cycle with approx. 60 ml water is being used for the mixing bowl.

After the automatic cleaning is over the machine goes back into the sales mode.

The automatic cleaning can be again deactivated by setting the parameter to 00.00.



CLEANING 1

CLEANING 2

CLEANING 3

cino xs Presso-Bean E3

Version PFXSED 2A

20. Clock

Hour

20.5



Press button 2. The display shows: Here you can set the current time.

Day

20.6



Press button 2. The display shows: Here you can enter the current date.

Month

20.7



Press button 2. The display shows: Here you can enter the month.

Year

20.8



Press button 2. The display shows: Here you can enter the current year.

21. Error memory

21.1

Error messages

The machine stores the last 20 error messages. The Individual error messages can be deleted by pressing button -4-.



Now, press button -2-. The display shows:



Explanation of error messages:

The last fault is always shown as n. 1.

n. 1 = Error message no. 1

OFF 31B = error code (see section 23.1)
07:12 = Time of the error message
16-11-2001 = Date of the error message



Press button -2- once again. The display shows the next error message: n. 2 = Error message no. 2.



On pressing button -2 – you can retrieve all error messages up to number 20.

If the memory is full with 20 error messages and a fresh error message appears, the error messages are shifted back by one number (n. xx) and the error message (n. 20) is deleted from the memory.

If all locations in the fault memory are not full as yet, the display shows:



If you want reliable values in the error messages, please ensure that the time, day, month and year are set properly.



22. Service counters

Service messages

The machine has service counters that help in a flawless servicing and inspection of the machine. The counters are activated as follows:



22.1

Product Counter

22.2

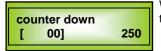


Now, press button -1-. The display shows::

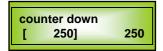


Press now the key - 2 -. in the display appear:

This counter serves for control, when the products are sold out.



With the keys 4 and 5 gives you the number of vends to start the timer at (max. value 10000). Here as example:



Confirm the input with the key 8. In the display appears:

The counter is now activated.



The counter registers now all vends. It counts back to the value "1". When the counter reaches "1" it stops and no more vends can be made. It does not count up to the value "0" back.



The counter is at the value "1" all product selection are inhibited and the display shows:



After you filled up the products, reset the counter with the key 8 as described again to the value stopped before. The announcement "SERVICE OFF 99" expires then

filter

WATER FILT.COUNT

filter

filter

001

00]

4800]

02]

cnt.

H20

4800

H20

4800

H20

4800

cnt.

22. Service counters

22.3

Water Filter Counter

Now, press button -2-. The display shows:

This counter is used to find out when should the water filter be replaced.

Using buttons 4 and 5 you can enter the number (depending upon the filter used) of portions. (max. value 10000). For example:

Confirm the entry with button 8. The display shows:

The counter is now active.

The counter now registers all sales. It counts back up to value "2". As soon as the counter reaches 2 its value remains unchanged and it is still possible to sell. It does not count back to value "0".

If the value of the counter reaches below "50", in addition to the set information the display shows the following:

While replacing the water filter, as explained, again reset the counter with button 8 to the value set earlier. The display "Water filt. count" then vanishes.





REPLACE

22.4

Brewer Counter

Now, press button -2-. The display shows:

This counter is used to find out when the brewer should be cleaned.

Using buttons 4 and 5 you can enter the number (Standard value approx. 500) of portions. (max. value 9999). For example:

Confirm the entry with button 8. The display shows:

The counter is now active.







22. Service counters

Brewer Counter

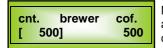
22.4



The counter now registers all sales. It counts back up to value "2". As soon as the counter reaches 2 its value remains unchanged and it is still possible to sell. It does not count back to value "0".



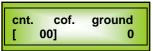
If the value of the counter reaches below "50", in addition to the set information the display shows the following:



Now start the cleaning program of the brewer and reset the counter with button 8 as described above. The display "Brewer count." then vanishes.

Coffee Waste Counter

22.5



Now, press button -2-. The display shows:

This counter is used to find out when should the the coffee set container be emptied.

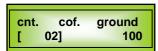


Using buttons 4 and 5 you can enter the number (Standard value approx. 100) of portions. (max. value 9999). For example:



Confirm the entry with button 8. The display shows:

The counter is now active.



The counter now registers all sales. It counts back up to value "2". As soon as the counter reaches 2 its value remains unchanged and it is still possible to sell. It does not count back to value "0".



If the value of the counter reaches below "50", in addition to the set information the display shows the following:



Empty the coffee set container and reset the counter with button 8 as described above.

The display "Coffee set count." then vanishes.

23. Trouble Shooting (error messages)

23.1

Error messages

With the aid of electronic controls the machine controls a large number of functions and in case of specific faults adjusts the sale automatically. The display then shows the message: OFF (Code) To delete the fault display the machine must be switched off and switched on.



Display-CODE	Cause	Fault elimination	TIP
		Incorrect payment system	
		Defective adapter cable	
SERVICE OFF 2	Payment system malfunction	Power breakdown in data cable from coin unit to CPU	
		Coin unit defective	
SERVICE OFF 2B	No payment system power supply	Examine fuses	Possibly caused by defective mixer motor
SERVICE OFF 5A	The right EAROM memory on the CPU is defective.	Replace memory.	
SERVICE OFF 5B	The left EAROM memory on the CPU is defective.	Replace memory.	
1/5W WASSED		Water tank empty	Pull out overflow pipe
KEIN WASSER OFF 6A	no water	Inadequate water supply (inlet valve is defective)	at the inlet valve, allow collected water to drain out from the pipe
NO WATER OFF 6B	Water loss in the boiler, although no sales	Check boiler for leakage	
OTT 0B	took place.	Check pipe joints	
	Brewer blocked	Start cleaning program for the the brewer	
SERVICE		Remove and clean the brewer	
OFF 7	The brewing period was exceeded	Grinding set to too fine	
	CACCCCCC	Flowmeter is defective	
SERVICE	No water in system or high	Check pump	
OFF 7B	pressure boiler after installation phase.	Check flowmeter	
	μιαδε.	Check Coffee water valve	
SERVICE	The brewer does not move to its	Check the micro-switch on the brewer motor	
OFF 8	end position.	Voltage for brewer motor leakage	
SERVICE OFF 8 A	The micro-switch for the brewer is blown out	The brewer is not installed or not installed properly.	
OFF 6 A	15 Slowii Out	The micro-switch is defective	

23. Trouble shooting (error messages)

	23.1					
	Error messages					
Display CODE	Cause	Fault elimination	TIP			
SERVICE OFF 8 B	The micro-switch for the water supply to the brewer has triggered	The water supply pipe for the brewer was not installed or not installed properly The micro-switch is defective				
		The coffee beans container is empty				
NO COFFEE OFF 9	The time span for filling up the portioning unit was	The slide on the beans container is closed				
	exceeded	The grinding disks are blunt and must be replaced				
		The 6.3A fuse is blown out				
		Defective doser micro-switch				
SERVICE	Loss of programmed inputs or program memory malfunction RAM	Load standard data				
OFF 10	WITHOUT data.	Replace the RAM				
SERVICE	Water loss without any sale	Leakage in the compensating tank				
OFF 14	Boiler level control not ok	Inspect the micro-switch on the compensating container				
SERVICE OFF 16	The programming key on the display unit is stuck or defective	Check the key and replace when necessary				
SERVICE OFF 17	A key of the keyboard is stuck or the keypad is defective	Check the keyboard and if necessary, replace the keypad				
SERVICE OF SALVOLT A	6.3A fuse on the CPU	CPU defective				
OFF 24 VOLT A	is blown out	One motor has a defect				
	24 Volt Voltage supply not available	Transformer is defective				
	avaliable	Transformer plug is defective				
	Strip conductors on the CPU broken	CPU defective				
		One motor has a defect				
SERVICE OFF 24 VOLT B	One transistor in the power supply on the	Replace transistor				
OFF 24 VOLT B	CPU is defective	Replace CPU				
SERVICE OFF 31 A	Boiler is too hot	CPU defective (Triac for heating element short-circuits)				

23. Trouble shooting (error messages)

23.1 Error messages

Display-CODE	Cause	Fault elimination	TIP
SERVICE OFF 31 B	Boiler is too cold	Safety temperature limiter	
OIT STB		CPU defective (Transistor defective)	
SERVICE OFF 24 C	Temperature sensor does not measure	Temperature sensor is defective	
OFF 31 C		Power supply to temperature sensor interrupted	
SERVICE OFF 99	Product Counter on "0"	Reactive counter see section 22.2	
ERR 12 Volt O AN 6	Transistor voltage missing	No program loaded	Reload software using Flash card

23. Trouble shooting

Causes of malfunctions without error messages

23.2

For the malfunctions described here no error messages are displayed on the display unit.



Fault	Possible Cause	Solution	
The machine is out of operation, no part gets	Power supply had broken down	Check input voltage and restore when necessary	
any power	Main fuse has blown out	Replace fuse	
The machine is out of operation, nothing can be seen on the display unit	The fuse for 8.5 Volt on the CPU is defective	Replace fuse	
but a few parts continue to get power	The display unit is not properly connected to the CPU	Check plug connection	
The machine is on, however, neither product nor water is being dispensed	One of the 24 Volt fuses is defective. Transformer output voltage	Replace fuse	
The machine is on, there	Product containers are not put in place properly	Put the product container properly in place	
is water but no product		Replace product motor	
being dispensed	Product motor is defective	Triac PCB is defective	
	Plug connection is loose	Check cable connection	

