

T.I. no.: 2015-04 Updated: -	Topic: PIN and button combinations
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<b>Date:</b> 09.03.2015
<b>Affected machines:</b> All
<b>From serial number:</b> -
<b>From date:</b> -

Priority	
	High
	Medium
x	Low

Need for action	
	As soon as possible
	On next visit to the machine
x	FYI only

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## OVERVIEW

Due to the high degree of variation, this document summarises and describes all PIN and button combinations.

### NOTE

Print document in colour so that the differences can be seen.

## PIN CODES

### Small coffee machines





COFFEE MACHINE	INFORMATION	ACTION	REMARKS
SIENA	-	6845	System parameters PIN
SCJ	-	00002	System parameters PIN

### Schaerer coffee machines







COFFEE MACHINE	INFORMATION	ACTION	REMARKS
SCP	15.08.2014	48051	Service PIN
SCF, SCV	15.08.14	48051	Service PIN
SCA buttons / TouchIT	-	SERVICE card + PIN	Service PIN
	-	9119	System parameters PIN
SO II / Euroca 2	-	SERVICE card + PIN	Service PIN
SCC	-	SERVICE card + PIN	Service PIN
	-	SERVICE card + 9876	Master PIN
SM NG	-	SERVICE card + PIN	Service PIN

# SCHAERER COFFEE MACHINES


## SCF / SCV

FUNCTION	ACTION	REMARKS
1st start-up (Clearflag)	▶ Field sequence [MENU] ▶  ▶ Enter PIN ▶  ▶ [Service routines] ▶ [First-time start-up].	<p>Clears the pending cleaning instructions.</p> <ul style="list-style-type: none"> <li>• This does <b>not</b> clear the error list.</li> <li>• Resets descaling instruction.</li> <li>• Completely resets cleaning (counter and cleaning module).</li> <li>• All processes are reset (brewing, etc.)</li> </ul>
Factory->CS/Customer (config. reset)	▶ Field sequence [MENU] ▶  ▶ Enter PIN ▶  ▶ [Machine data] ▶ [Standards] ▶ [Factory -> CS/Customer].	<p>Resets the system configuration back to factory settings (first-time clearing).</p> <p><b>Attention!</b> This will also clear the counter!! See also the document "Effects of Auto-Detect"</p> <p>▶ The system parameters must be checked.</p>

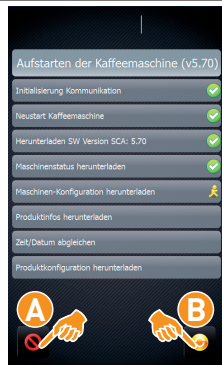
## SCA buttons

FUNCTION	ACTION	REMARKS
Clearflag	<input checked="" type="checkbox"/> Machine in standby. ▶ Press and hold  button for 10s.	Clears the pending cleaning. See programming manual for details.
Cleaning	▶ Press and hold the  button.	Begins cleaning, remove the grounds container within 5s.
Rinsing	▶ Briefly press the  button.	Begins rinsing of the coffee pipe and steam nozzle.
Milk Smart rinsing	▶ Briefly press the  button twice.	Begins rinsing of the milk hose.
Temperatures	▶ Press and hold the  button.	Displays the boiler and booster temperatures.
Brewing times	<input checked="" type="checkbox"/> Machine in standby. ▶ Press and hold a beverage button for 4s.	Displays various settings and information. The menu closes automatically after 6s of no activity.
Restart	<input checked="" type="checkbox"/> Machine is ready for use. ▶ Press the  button until <input checked="" type="checkbox"/> the display shows "Please wait for restart".	The machine restarts. This restart can be considered a disconnection from the mains.

## SCA TouchIT

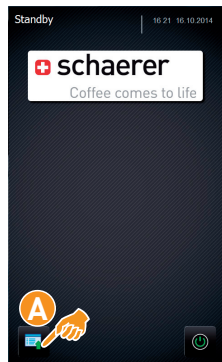
FUNCTION	ACTION	REMARKS
Clearflag		<input checked="" type="checkbox"/> Machine in standby. ▶ Press the hidden field until the "Clearflag" message is displayed. <input checked="" type="checkbox"/> Pending cleaning is cleared. See programming manual for details

## Boot loader and restart



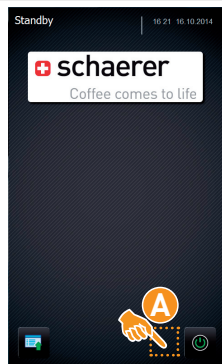
- The machine starts.
- ▶ Field [A] opens the boot loader.
- ▶ Field [B] restarts the machine.

## Quick menu



- Machine in standby.
  - ▶ Field [A] opens the quick menu.
- This allows you to configure various settings or read information.
- Time and date.
  - Software version.
  - Error and cleaning statistics.

## Restart = mains disconnection



- Machine in standby.
- ▶ Press and release hidden field [A].
- Once the field is released, the machine restarts. This restart can be considered a disconnection from the mains.



## SO I

FUNCTION	ACTION	REMARKS
Clearflag	<ul style="list-style-type: none"> <li>▶ Press the [☺] button.</li> <li><input checked="" type="checkbox"/> Machine is in standby.</li> <li>▶ Press and hold the [☹] button, then press the [☺] button.</li> </ul>	Clears the pending cleaning instructions.
Cleaning	▶ Press and hold the [☼] button for approx. 5 seconds.	Begins cleaning, remove the grounds container within 5s.
Rinsing	▶ Briefly press the [☼] button once.	Begins rinsing of the coffee pipe.
Milk Smart rinsing	▶ Briefly press the [☼] button twice.	Begins rinsing of the milk hose.
Temperatures	▶ Press the [☺] and [☹] buttons at the same time.	Displays the boiler and booster temperatures.

Brewing times	<ul style="list-style-type: none"> <li>▶ Press the [☺] button.</li> <li>☑ Machine is in standby.</li> <li>▶ Press the [⊕] and [⊖] buttons at the same time.</li> <li>▶ Switch on the machine with the [☺] button.</li> </ul>	For coffee beverages, the duration of the extraction time is displayed (extraction = coffee/water contact time). The dispensing time is displayed for other beverages.
Config. reset	<ul style="list-style-type: none"> <li>▶ Insert SERVICE card.</li> <li>☑ "General parameters" is shown on the display.</li> <li>▶ Press and hold the [⊕] and [☺] buttons.</li> <li>☑ "Config. reset" is shown on the display.</li> <li>▶ Remove the SERVICE card.</li> </ul>	Resets the system configuration back to factory settings. The machine will then be filled. <ul style="list-style-type: none"> <li>▶ The system parameters must be checked.</li> </ul>

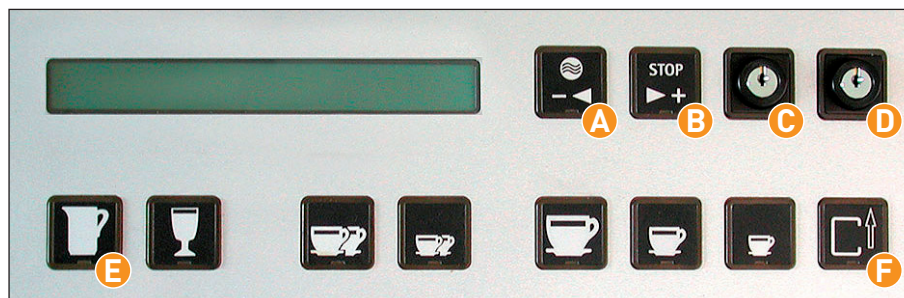
## SO II / Euroca 2

FUNCTION	ACTION	REMARKS
Clearflag	<ul style="list-style-type: none"> <li>▶ Press the [☺] button.</li> <li>☑ Machine is in standby.</li> <li>▶ Press and hold the [☺] button, then press the [☺] button.</li> </ul>	Clears the pending cleaning instructions.
Cleaning	<ul style="list-style-type: none"> <li>▶ Press and hold the [☺] button for approx. 6 seconds.</li> </ul>	Begins cleaning, remove the grounds container within 6s.
Rinsing	<ul style="list-style-type: none"> <li>▶ Press and hold the [☺] button for approx. 5 seconds.</li> <li>☑ "Cleaning – remove container" appears on the display.</li> <li>▶ Briefly press the [☺] button again.</li> </ul>	Begins rinsing of the coffee pipe.
Temperatures	<ul style="list-style-type: none"> <li>▶ Press the [⊖] and [2*] buttons at the same time.</li> <li>☑ The information appears on the display.</li> <li>▶ Exit by pressing both buttons again.</li> </ul>	The following information is displayed: <ul style="list-style-type: none"> <li>• Machine number.</li> <li>• Software version.</li> <li>• Beverage counter (C/HW).</li> <li>• Boiler and booster temperatures.</li> </ul>
Brewing times	<ul style="list-style-type: none"> <li>▶ Press and hold the [⊕] and [⊖] buttons one after the other.</li> <li>▶ Exit the display with the [☺] button.</li> </ul>	The following information is displayed: <ul style="list-style-type: none"> <li>• Name of the programmer.</li> <li>• Machine operating time.</li> <li>• Current extraction time.</li> </ul>
Config. reset	<ul style="list-style-type: none"> <li>▶ Insert SERVICE card.</li> <li>☑ "General parameters" is shown on the display.</li> <li>▶ Press and hold the [⊕] and [⊖] buttons at the same time.</li> <li>☑ "Config. reset" is shown on the display.</li> <li>▶ Remove the SERVICE card.</li> </ul>	Resets the system configuration back to factory settings. The machine will then be filled. <ul style="list-style-type: none"> <li>▶ The system parameters must be checked.</li> </ul>
Water meter, filter change date	<ul style="list-style-type: none"> <li>▶ Insert SERVICE card.</li> <li>☑ "General parameters" is shown on the display.</li> <li>▶ Press the [☺] and [2*] buttons at the same time.</li> <li>☑ The information is shown on the display for 3 seconds.</li> </ul>	From software version 4.02 and later, you can display the number of litres which have passed through the filter and the date of the last filter change.

DISPLAY	OPERATOR SERVICE	SELF-SERVICE
		
FUNCTION	ACTION	REMARKS
Clearflag	<input checked="" type="checkbox"/> Machine cleaning is in progress. ► Press the "Cleaning in progress" display text.	Clears the pending cleaning instructions.
Cleaning	► Press and hold field [C] for 4 seconds.	Begins cleaning, remove the grounds container within 5s.
Rinsing	► Press and hold field [A] for 4 seconds.	Begins rinsing of the coffee pipe and steam nozzle.
Temperatures	► Press and hold field [B] for 4 seconds. <input checked="" type="checkbox"/> The diagnostics will be displayed.	Displays various information, such as temperatures, machine number and software version.
Switching off	Switch the machine to standby with field [D].	

## SM Multilayer

### Button overview (key switch)

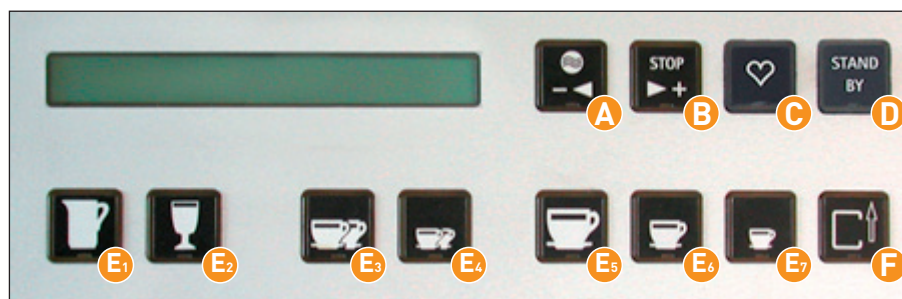


### Functions

FUNCTION	ACTION	REMARKS
1st level	▶ Turn programming key [C] to 12 o'clock.	This level contains the beverage functions.
2nd level	▶ Turn programming key [C] to 9 o'clock.	This level contains the CHEF card functions.
3rd level	▶ Press button [B] and turn programming key [C] to 9 o'clock	This level contains the service functions.
4th level	▶ Press buttons [A] and [B] at the same time and turn programming key [C] to 9 o'clock.	This level contains system functions.
Coffee test	<ul style="list-style-type: none"> <li>▶ Open panel.</li> <li>▶ Press buttons [E] and [F] at the same time.</li> <li><input checked="" type="checkbox"/> The swivel arm will move forwards.</li> <li>▶ Turn programming key [C] to 6 o'clock.</li> <li>▶ Close the panel.</li> </ul>	
Cleaning	<ul style="list-style-type: none"> <li>▶ Open panel.</li> <li>▶ Press buttons [E] and [F] at the same time.</li> <li><input checked="" type="checkbox"/> The swivel arm will move forwards.</li> <li>▶ Clean the area behind the swivel arm.</li> <li>▶ Press buttons [E] and [F] at the same time.</li> <li><input checked="" type="checkbox"/> The swivel arm will move backwards.</li> <li>▶ Press button [A] and add cleaning powder.</li> </ul>	
Temperatures	▶ Press buttons [A] and [B] at the same time and turn programming key [C] to 9 o'clock.	These will be displayed in the Inputs/Outputs menu.
Brewing times	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Machine is in standby.</li> <li>▶ Press and hold buttons [A] and [B].</li> <li>▶ Switch on the machine with key [D].</li> </ul>	The brewing times for each beverage are shown on the display.
Config. reset	<ul style="list-style-type: none"> <li>▶ Press button [B] and turn programming key [C] to 9 o'clock.</li> <li>▶ Press and hold buttons [A] and [F] at the same time.</li> <li>▶ Turn programming key [C] to 12 o'clock.</li> </ul>	Resets the system configuration back to factory settings. The machine will then be filled. <ul style="list-style-type: none"> <li>▶ The system parameters must be checked.</li> </ul>
Turbo button	<ul style="list-style-type: none"> <li>▶ Press and hold buttons [A] and [B] at the same time.</li> <li><input checked="" type="checkbox"/> Until the entire line is filled with dots.</li> </ul>	Coffee is pre-ground for the following beverage.
Accounting	<ul style="list-style-type: none"> <li>▶ Turn programming key [C] to 3 o'clock.</li> <li>▶ Turn programming key [C] to 12 o'clock.</li> </ul>	Switches accounting on. Switches accounting off.
Clearing the cleaning counter and error messages	<ul style="list-style-type: none"> <li>▶ Press buttons [A] and [B] at the same time and turn programming key [C] to 9 o'clock.</li> <li>▶ Press buttons [A] and [B] at the same time.</li> <li>▶ Turn programming key [C] to 9 o'clock.</li> </ul>	
GARNI, duration/sensor control	▶ Turn programming key [C] to 3 o'clock.	
Button block	<ul style="list-style-type: none"> <li>▶ Turn programming key [C] to 6 o'clock.</li> <li>▶ The beverage buttons are lit.</li> <li>▶ Select the desired beverage button within 5s in order to lock or unlock it.</li> </ul>	Illuminated beverage buttons are enabled. If a beverage button is not selected within 5s, the machine displays a timeout.

## SM Compatibility

### Button overview (card reader)

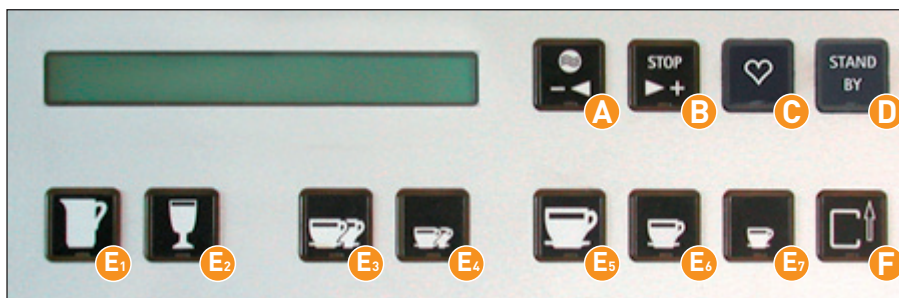


### Functions

FUNCTION	ACTION	REMARKS
Reference grinding	<ul style="list-style-type: none"> <li>▶ Insert the COFFEE TEST card.</li> <li>▶ Open the panel and insert screwdriver.</li> <li>▶ Press buttons [E<sub>1</sub>] and [F] at the same time.</li> <li>☑ The swivel arm will move forwards.</li> <li>▶ Press buttons [A] and [B] at the same time.</li> <li>▶ Follow the instructions on the display.</li> </ul> <p><b>If compatible:</b></p> <ul style="list-style-type: none"> <li>▶ Open panel.</li> <li>▶ Press buttons [E] and [F] at the same time.</li> <li>☑ The swivel arm will move forwards.</li> <li>▶ Turn programming key [C] to 6 o'clock.</li> <li>▶ Press buttons [A] and [B] together.</li> <li>▶ Follow the instructions on the display.</li> </ul>	<p>Begins the coffee test. The COFFEE TEST card can be simulated with the SERVICE card.</p>
Cleaning	<ul style="list-style-type: none"> <li>▶ Open panel.</li> <li>▶ Press buttons [E] and [F] at the same time.</li> <li>☑ The swivel arm will move forwards.</li> <li>▶ Clean the area behind the swivel arm.</li> <li>▶ Press buttons [E] and [F] at the same time.</li> <li>☑ The swivel arm will move backwards.</li> <li>▶ Press button [A] and add cleaning powder.</li> </ul>	
Temperatures	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [F] at the same time.</li> </ul>	I/O display and temperatures.
Brewing times	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [E<sub>1</sub>] at the same time.</li> </ul>	
Time and date	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [E<sub>2</sub>] at the same time.</li> </ul>	Time, date and weekday display.
Ultrasound sensor	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [E<sub>3</sub>] at the same time.</li> </ul>	Displays the measurement value of the milk monitoring ultrasound sensor.
Software version	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [E<sub>4</sub>] at the same time.</li> </ul>	
Vacant stack sizes	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [E<sub>5</sub>] at the same time.</li> </ul>	Displays the vacant stack sizes.
SlavePrint version	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [E<sub>7</sub>] at the same time.</li> </ul>	Displays the SlavePrint version for machines with CS.
Watchdog	<ul style="list-style-type: none"> <li>▶ Press and hold buttons [B] and [F] at the same time for 6 seconds.</li> </ul>	<p>If neither the buttons nor the key switch have any effect, this "jam" can be corrected by the Watchdog function.</p> <ul style="list-style-type: none"> <li>● Only use if the solder bridge of the Watchdog is set.</li> </ul>
Turbo button	<ul style="list-style-type: none"> <li>▶ Press and hold buttons [A] and [B].</li> <li>☑ Until the entire line is filled with dots.</li> <li>▶ Confirm.</li> </ul>	<p>Coffee is pre-ground for the following beverage. If the "Quattro-grind" option is enabled in compatibility mode, the "Turbo" function will be disabled.</p>
Accounting	<ul style="list-style-type: none"> <li>▶ Switch accounting on or off with the PROGRAM card.</li> </ul>	

## SM New Generation

### Button overview (card reader)



### Functions

FUNCTION	ACTION	REMARKS
Reference grinding	<ul style="list-style-type: none"> <li>▶ Insert the COFFEE TEST card.</li> <li>▶ Open the panel and insert screwdriver.</li> <li>▶ Press buttons [E<sub>1</sub>] and [F] at the same time.</li> <li>☑ The swivel arm will move forwards.</li> <li>▶ Press buttons [A] and [B] at the same time.</li> <li>▶ Follow the instructions on the display.</li> </ul> <p><b>If compatible:</b></p> <ul style="list-style-type: none"> <li>▶ Open panel.</li> <li>▶ Press buttons [E] and [F] at the same time.</li> <li>☑ The swivel arm will move forwards.</li> <li>▶ Turn programming key [C] to 6 o'clock.</li> <li>▶ Press buttons [A] and [B] together.</li> <li>▶ Follow the instructions on the display.</li> </ul>	<p>Begins the coffee test. The COFFEE TEST card can also be simulated with the SERVICE card.</p>
Cleaning	<ul style="list-style-type: none"> <li>▶ Open panel.</li> <li>▶ Press button [A].</li> <li>▶ Clean the boiler chamber.</li> <li>▶ Close panel and open again.</li> <li>☑ Swivel arm is in forward position.</li> <li>▶ Clean the area behind the swivel arm.</li> <li>☑ Further steps as per cleaning instructions.</li> </ul>	
Temperatures	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [F] at the same time.</li> </ul>	I/O display and temperatures.
Brewing times	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [E<sub>1</sub>] at the same time.</li> </ul>	
Time and date	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [E<sub>2</sub>] at the same time.</li> </ul>	Time, date and weekday display.
Ultrasound sensor	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [E<sub>3</sub>] at the same time.</li> </ul>	Displays the measurement value of the milk monitoring ultrasound sensor.
Software version	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [E<sub>4</sub>] at the same time.</li> </ul>	
Vacant stack sizes	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [E<sub>6</sub>] at the same time.</li> </ul>	Displays the vacant stack sizes.
SlavePrint version	<ul style="list-style-type: none"> <li>▶ Press buttons [B] and [E<sub>7</sub>] at the same time.</li> </ul>	Displays the SlavePrint version for machines with CS.
Watchdog	<ul style="list-style-type: none"> <li>▶ Press and hold buttons [B] and [F] at the same time for 6 seconds.</li> </ul>	<p>If neither the buttons nor the key switch have any effect, this "jam" can be corrected by the Watchdog function.</p> <ul style="list-style-type: none"> <li>• Only use if the solder bridge of the Watchdog is set.</li> </ul>
Button block	<ul style="list-style-type: none"> <li>▶ Use the KEY BLOCK card.</li> </ul>	The KEY BLOCK card can be simulated with the SERVICE card.
Turbo button	<ul style="list-style-type: none"> <li>▶ Press and hold buttons [A] and [B] at the same time.</li> <li>☑ Until the entire line is filled with dots.</li> <li>▶ Confirm.</li> </ul>	Coffee is pre-ground for the following beverage. If the "Quattro-grind" option is enabled in compatibility mode, the "Turbo" function will be disabled.
Accounting	Switch accounting on or off with the PROGRAM card.	

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