

T.I. no.: 2024-19 Updated: -	Topic: Software version 2.6.1
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Date: 12/2/2024	Priority and need for action <input type="checkbox"/> High: as soon as possible <input checked="" type="checkbox"/> Medium: on next visit to the machine <input type="checkbox"/> Low: FYI only
Affected machines: CLUB	
From serial number: -	
From date: right away	

INFORMATION ON BSP 45 AND NEW SOFTWARE VERSION 2.6.1

Firmware version **BSP_45.exe** does not support all hardware versions of the front panels in the field. The affected machines do not recognize the BSP version on the USB stick, which is why the BSP update routine does not start. That is why BSP versions older than **BSP_45_new.exe** cause an error message.

Before the new **v2.6.1** software is installed for machines in the field, the software version of the operating system on the front panel must be checked during the next customer visit. If older BSP versions are in use, the **BSP_45_new.exe** version must be installed.

Installation of BSP_45_new.exe

The **BSP_45_new.exe** file is available for download in the Media Pool. The **BSP_45_new.exe** does not support all hardware versions in the field. We recommend deleting the previously saved **BSP_45.exe** versions from the USB data carriers and the computers and replacing them with the new **BSP_45_new.exe** (Media Pool).

	NOTE
	Once installation is complete and the USB data carrier has been removed, the operating system update will be completed the first time the machine is switched on. This process takes up to two minutes. The display switches off briefly several times during this process.

After **BSP_45_new.exe** is extracted, the following folders must be created on the USB data carrier:

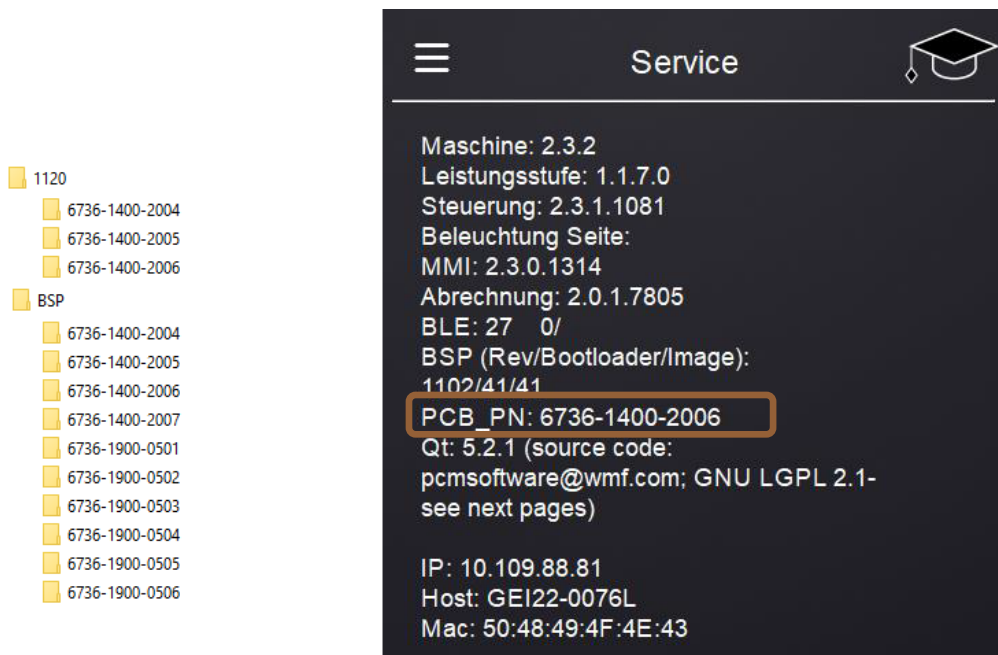


Figure 1: Folder structure on USB data carrier and hardware version

Each subfolder corresponds to a hardware version (PCB_PN) and is displayed in the **Info** menu.

SOFTWARE VERSION 2.6.1

The following new changes from software version 2.4.4 and 2.4.6 exist:

New functions

- Preparation for remote software update
- Common software version for the standard and office machine variants
- New **Flat white** and **2 flat white** factory recipes
- Adjustment option for pump cycle
- Display of the manufacturer logo or a customer logo possible
- Serial accounting system: Multi-credit when using internal e-protocol

Optimizations

- Automatic clean-up of SD card memory
- Memory optimization
- Deactivation of error message 9017 for brewer standardization
- **Supersteam override** function
- Operation with coin changer: **Insert exact change** display

Error correction

- Loading of recipes with Chinese beverage names
- Digital platform: The remote commands now work after uploading the image for beverage dispensing.
- Digital platform: **Delete dispensing image** now deletes the image for beverage dispensing, not the screensaver.



NOTE FOR TECHNICIANS

Problems during or after the software update

If problems occur during or after the software update:

- ▶ Please send a data backup together with an exact description of the error in an e-mail to the contact address below.

Tested update scenarios

The following update tests were successfully carried out as part of the approval test:

Machine	From version	To version
Schaerer Coffee Club: all variants	v2.2.3, v2.3.2, v2.4.4, v2.4.6	v2.6.1

Update of performance level versions

When error 9883 appears during an update, the firmware update of the performance level must be carried out manually.

Call-up

[Service](#) > [Service routines](#) > [Firmware update performance levels](#)

Explanation of the new functions

The new functions added by the software update are explained below.

Preparation for remote software update

In order to be able to install future software versions using remote updates, the machine software must support the **Signed and encrypted software update** feature.

During remote software updates, the new software version is transferred in encrypted form. The machine software must be able to decrypt the encrypted software package in order to then perform a software update.

That means the new software version is the basis for future remote software updates for machines that have a CM gateway installed and are connected to **CoffeeConnect**.

Common software version for the standard and office machine variants

In the past, there were different software versions for the standard and office machine variants. The new software version can be used for both machine variants.

**NOTE****No “Office” option in the menu**

An **Office** option does not exist in the **System > Machine equipment** menu.

- ▶ The equipment details must be set manually.

The following restrictions apply to the office version:

- Only one grinder possible
- No powder portioning device available
- No **PowerSteam** or **SuperSteam** available
- No steam cup warmer available

New “Flat white” and “2 flat white” factory recipes

The new **Flat white** and **2 flat white** factory recipes are available with this software version.

Adjustment option for pump cycle

With the new software version, an option for changing the pump cycle and therefore the performance of the oscillating armature pump has been added in order to have additional influence on the brewing time.

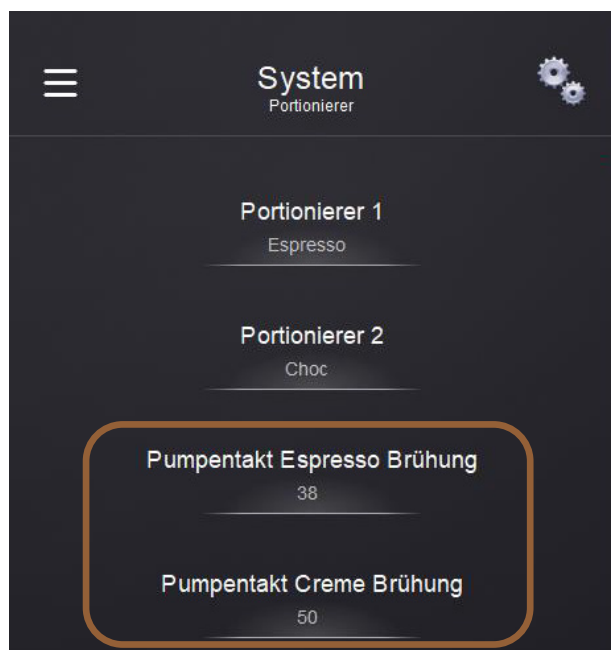


Figure 2: Pump cycle setting

The pump cycle can be set separately for all espresso-based and crème-based beverages after entering the service PIN.

Call-up for adjustment

System > Portioning device > Pump cycle Espresso brewing (default value 38)

System > Portioning device > Pump cycle Crème brewing (default value 50)

The **Schaerer Coffee Club** only has two adjustable values for the pump cycle:

- 38 (lower pump performance)
- 50 (higher pump performance)

Display of the manufacturer logo or a customer logo

With the new software version, it is possible to show the manufacturer logo and/or a customer logo in the coffee machine display.

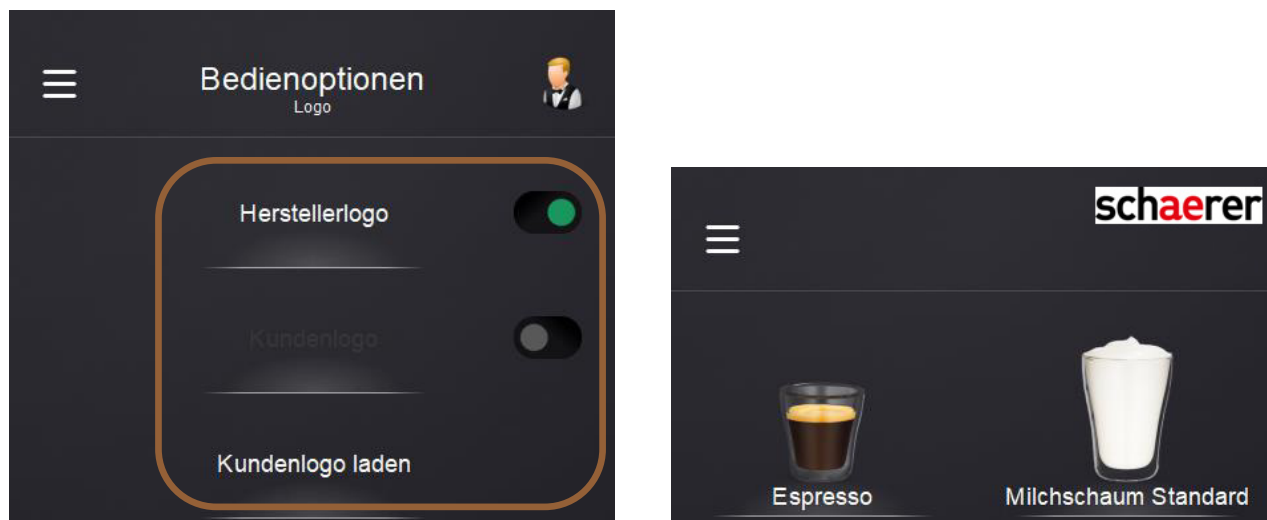


Figure 3: Option for adjusting the logo

Call-up for adjustment

Command options > Logo

The **Customer logo** option is not available until a graphic file with the customer logo has been loaded.

Loading customer logo

- ▶ Insert the USB data carrier.
- ▶ Load the customer logo onto the machine.

The logo must be no higher than a maximum of 80 pixels. Larger logos are automatically scaled to this size.

Serial accounting system: Multi-credit with internal e-protocol

Until now, the **Multi-credit** feature was only available together with the external e-protocol. The new software version also introduces the feature when using the internal e-protocol.

This makes it possible to transfer credit with quantities (up to 99) in one dataset, which increases the performance of the transfer.



Figure 4: Activation of multi-credit

Call-up for adjustment

Accounting system > External accounting system > E-protocol > Multi-credit



NOTE

Change of serial communication

Since activation of the **Multi-credit** feature involves a change in serial communication, this may only be done in consultation with the responsible cash register system technician.

Explanation of optimizations

The optimizations added by the software update are explained below.

Automatic clean-up of SD card memory

Files that are transferred to a machine by a **media package**, for instance, must first be temporarily stored on the machine SD card. Up to now, the files were not deleted from the SD card after the remote action was executed. This could cause the SD card memory to overflow.

As a result, it was no longer possible to correctly generate the restore point on the SD card during a software update. When trying to restore to a previous software version, the **Archive faulty** error message was displayed in these cases and restoration was not possible.

With the new software version, the temporarily saved files are deleted after each completed remote action. Future software updates will also delete all restore points that are older than 30 days.

Memory optimization

If there is not enough memory on the front panel during a software update, the machine may stop at the bean image after the software update.

In some cases, the front panels can be reinstalled using the panel updater, but sometimes they have to be replaced (see **Technical Information 2023-17**).

Two measures for optimizing memory have been added in the new software version:

File size reduction of the update package

During the update process, the new software package is unpacked and copied to the front panel memory. It is necessary to store parts of the previous software in parallel in the memory. These are then deleted at the end of the update process.

The following languages are no longer included to reduce the file size of the update package:

- Bulgarian
- Estonian
- Finnish
- Latvian
- Lithuanian
- Portuguese
- Romanian
- Swedish
- Serbian
- Slovakian
- Slovenian
- Czech
- Hungarian

If a software update is carried out on a machine that is set to one of these languages, the following must be observed:

- The existing language package and the machine language set before the update are retained.
- If new texts have been installed as a result of the update, these are displayed in English or German.
- The new **1100S_languages.gz** language package, which contains all the languages listed above, is available for download from the Media Pool. This language pack can be loaded onto the machine using the **Load language** command:

USB > Load language

Since the language pack is only loaded after a software update, there is no risk of memory overload.

When machines are delivered ex works, make sure that the language of the destination country is pre-installed.

Check for available memory during the update process

With the new software version, several check steps are added to ensure that there is enough free memory available for a software update. If this is not the case, the **There is not enough free memory available** message is displayed and the update is canceled.

To clear the memory, the **1100S_Clear Flash.gz** file can be executed (see **Technical Information 2023-17**).

A software update can then be restarted.

NOTE**Memory check from the next software update**

The described memory check will only be performed from the next update of the machine software. The function is only available if a machine with software version 2.6.1 will be updated to a newer software version.

Deactivation of error message 9017 for brewer standardization

With previous software versions, **error message 9017 for brewer normalization** occurred sporadically when restarting the machine.

This could be caused if the tolerance range of the permissible travel path of the brewing unit is set too small.

In some cases, affected machines worked after repeated restarts; in some cases, the brewing unit had to be replaced.

The tolerance range was adjusted with the new software version 2.6.1.

“Supersteam override” function

The **SuperSteam** override function did not work with earlier software versions.

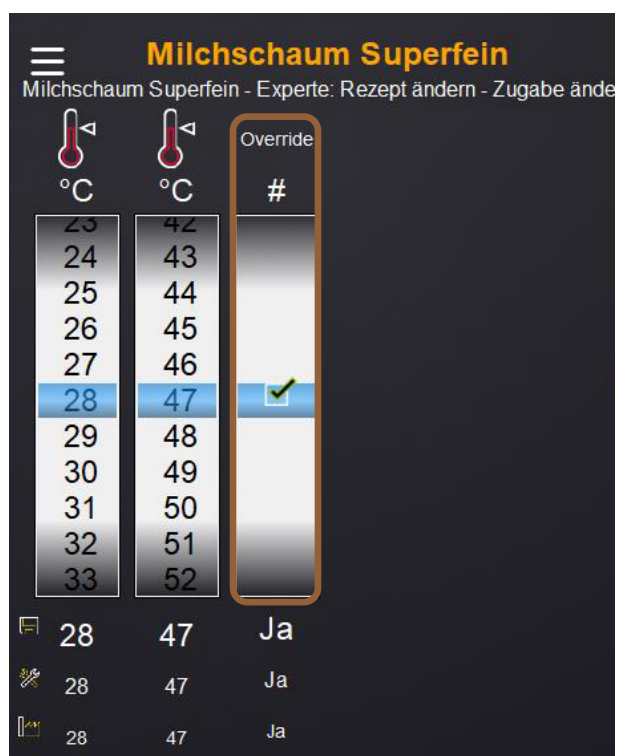


Figure 5: Override function activated

Once the temperature set in the recipe had been reached, it was not possible to continue heating when the **SuperSteam** button was pressed.

This behavior is corrected in the new software version.

Operation with coin changer: “Insert exact change” display

If a machine is operated with a coin changer, the coin changer transmits the level of the change tubes during initialization and after each payment process.

The previous software versions feature the following evaluation logic:

- The level in the change tubes of each of the three smallest accepted coin denominations is more than eight coins:
 - > The machine shows **Please insert coins** on the display.
 - > If there is credit remaining after beverage dispensing, it will be dispensed automatically. Exception: The **Multiple sale** option is active.
- The level in the change tubes of one of the three smallest accepted coin denominations is less than eight coins:
 - > The machine shows **Insert exact change** on the display.
 - > Any remaining credit after beverage dispensing is not automatically dispensed.
 - > However, any remaining credit is dispensed with the coin changer return lever, if possible.

If the coin changer is operated with a change cassette that deviates from the standard version, the machine permanently displays **Insert exact change**.

The new software version now always checks the level of the change tubes with the three smallest coin values and switches accordingly between the **Please insert coins** and **Insert exact change** displays and the associated output logic for remaining credit.

Explanation of error corrections

The errors corrected by the software update are explained below.

Loading of recipes with Chinese beverage names

In the previous software versions, the software sometimes froze when loading recipes with Chinese characters and the machine had to be restarted.

This behavior has been corrected in the new software version.

Digital platform: Remote commands after uploading the image for beverage dispensing

With previous software versions, it was determined that no other remote commands were possible after uploading an image for beverage dispensing through the digital platform.

This behavior has been corrected in the new software version.

Digital platform: Deleting image for beverage dispensing

In previous software versions, it was determined that the screensaver image was deleted when the command to delete the beverage dispensing image was given by the digital platform.

This behavior has been corrected in the new software version. The command now deletes the image for beverage dispensing, not the screensaver.

Service contact

Global Technical Support Team

GBU Professional Coffee Machines

- > Support hotline: +41 32 681 62 75 (10:00-11:30 a.m. CET/ 3:00-4:30 p.m. CET)
- > Support e-mail: technical-support@schaerer.com