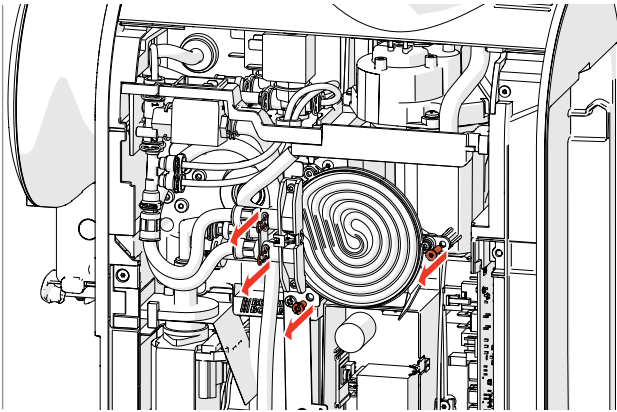
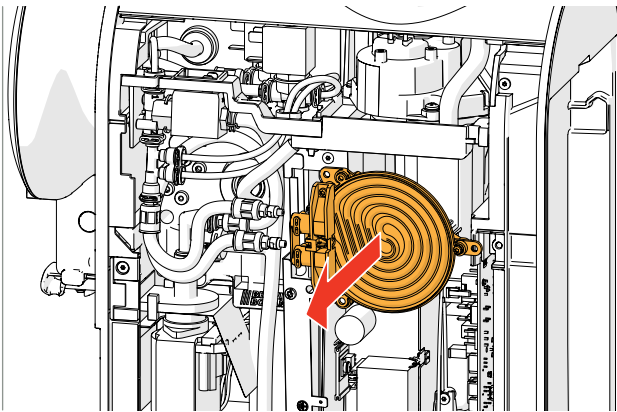


2.10 Remove flash heater



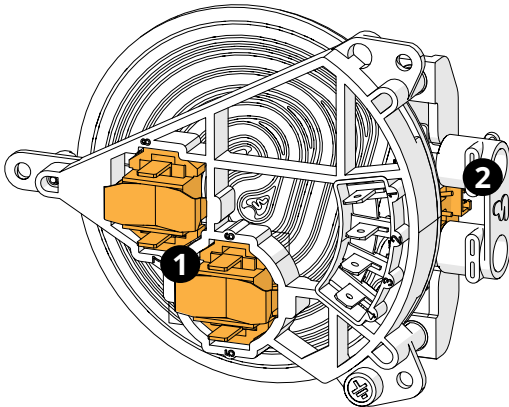
Step 1

- remove the 2 screws
- remove the 2 locking clips to disconnect the hoses (consider to exchange the O-rings)
 - ▶ *The lower connection is the cold water input.*
 - ▶ *The upper connection is the hot water output.*



Step 2

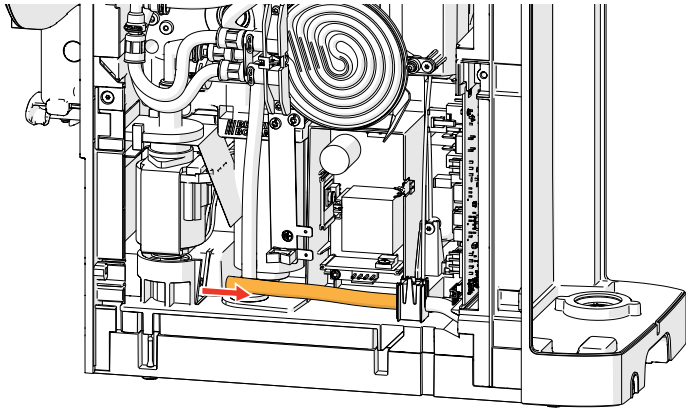
- disconnect the wiring
- remove the flash heater
 - ▶ *Consider to exchange the O-rings.*



1. high temperature safety switches (non reset-able)
2. temperature sensor

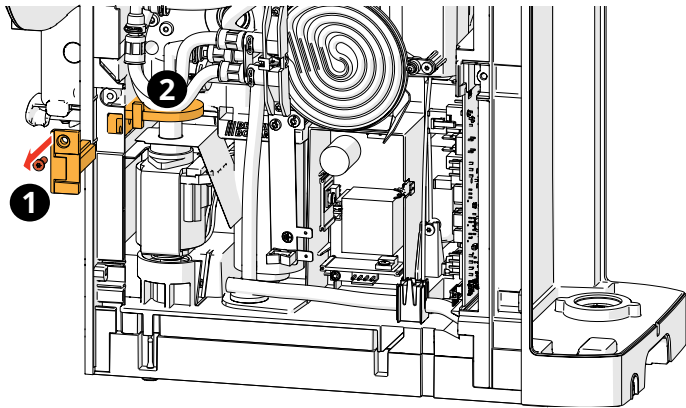
- ▶ *Make sure that the hoses of the flash heater are installed correctly, see section "2.14 Hose positions" on page 22.*
If the hoses are swapped, the Sprso will steam instead of giving hot water when the flash heater is switched on.

2.11 Remove pump



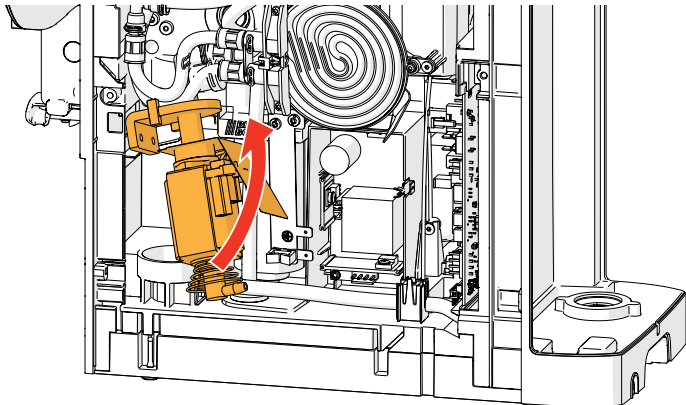
Step 1

- disconnect the hose from the pump



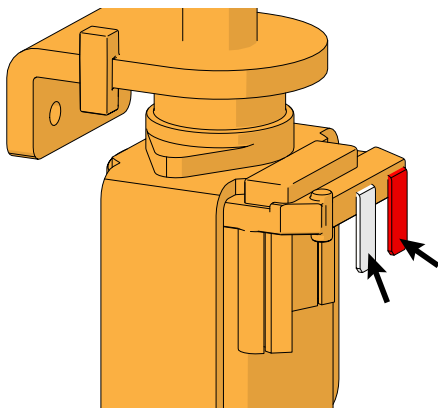
Step 2

1. remove the pump bracket
2. loosen the mounting bracket



Step 3

- disconnect the wiring
- remove the pump

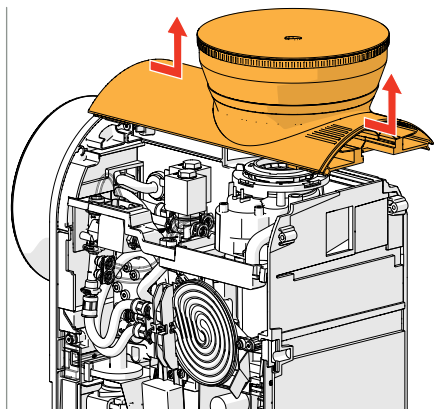


Pump wiring:

- red wire rear
- white wire in front

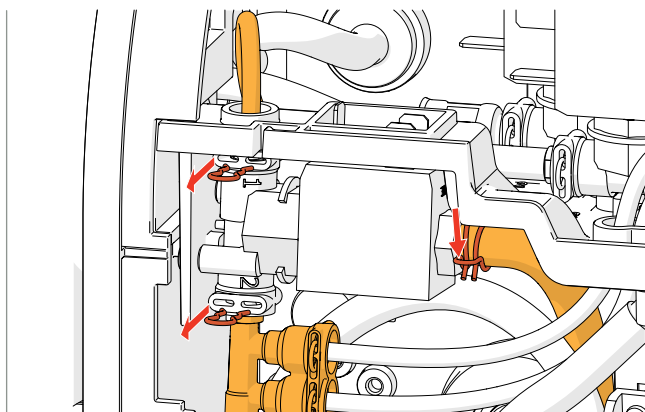
► *Connect the wires of the pump as shown, reversing the wires may result in error 00201.*

2.12 Remove valve set



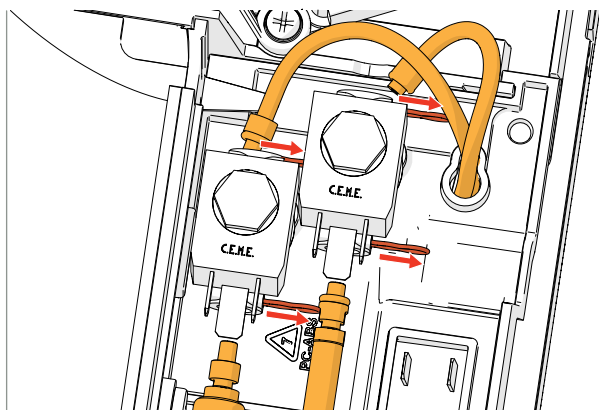
Step 1

- remove both side panels and the back panel
- remove the top of the machine



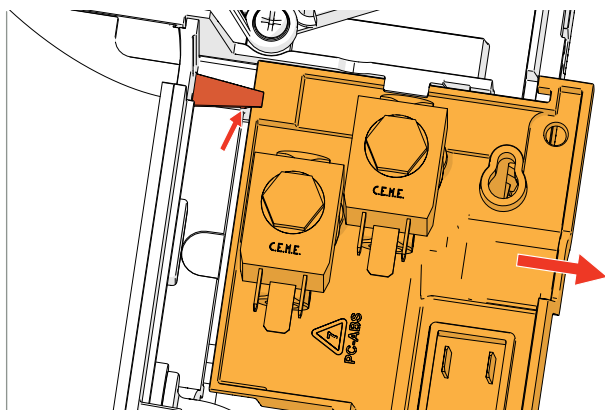
Step 2

- remove the 2 locking clips and the clamp to disconnect the hoses from water valve of the brewer
- Consider to exchange the O-rings.



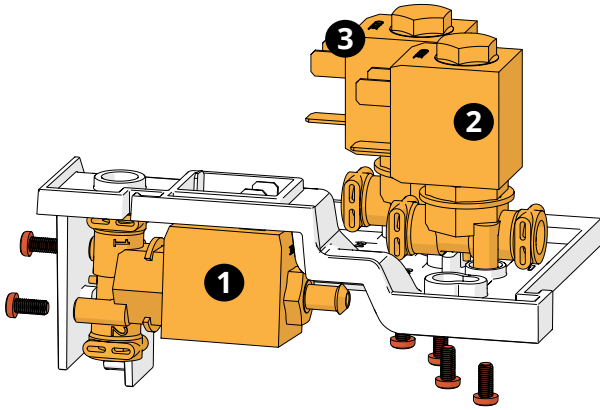
Step 3

- remove the 4 locking clips to disconnect the hoses from the other water valves
- disconnect the wiring



Step 4

- lift the click finger slightly to remove the mounting plate with the valves



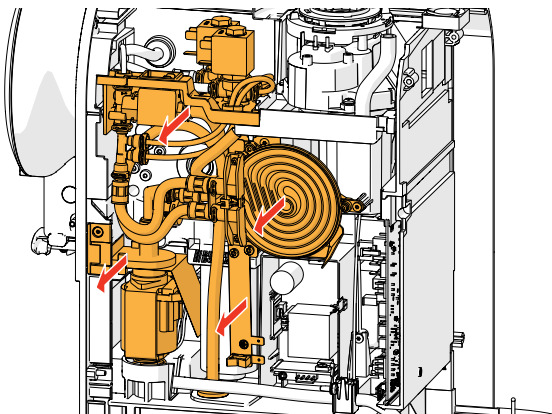
Step 5

- remove the defective valve

1. brewer valve
2. hot water valve
3. steam valve

► Consider to exchange the O-rings.

2.13 Remove brewer motor

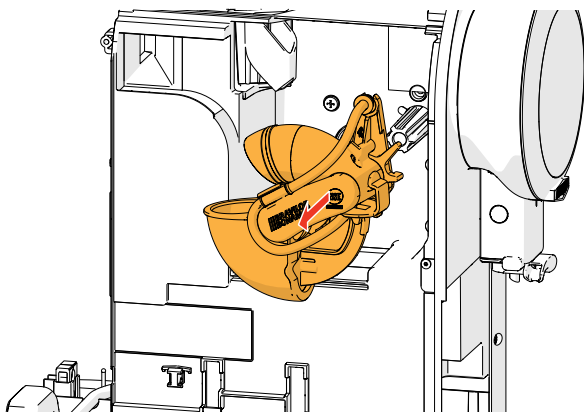


Step 1

- remove all coloured parts

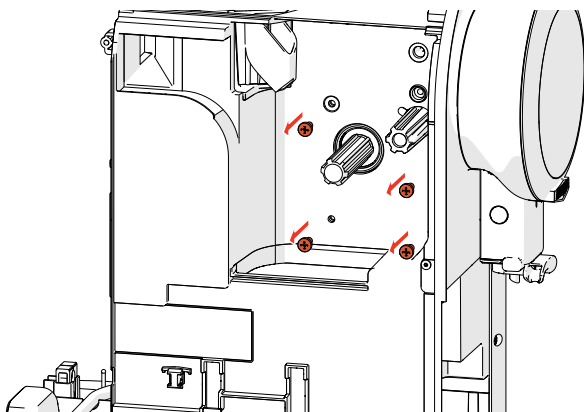
order of removal:

1. pump bracket, see section "2.11 Remove pump" on page 18
 - » no need to disconnect the hoses
2. remove the 2 screws to disconnect the heater, see section "2.10 Remove flash heater" on page 17
 - » no need to disconnect the hoses
3. remove the heater bracket (2 screws)
4. remove the bracket with valves, see section "2.12 Remove valve set" on page 19
 - » only disconnect the hoses to the outlet and inlet of the brewer



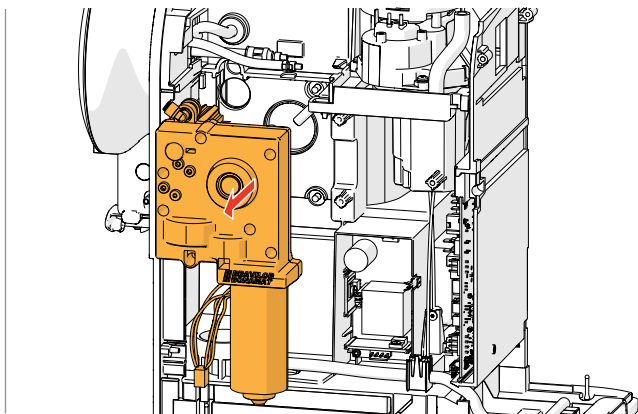
Step 2

- remove the complete CIRCO brewer



Step 3

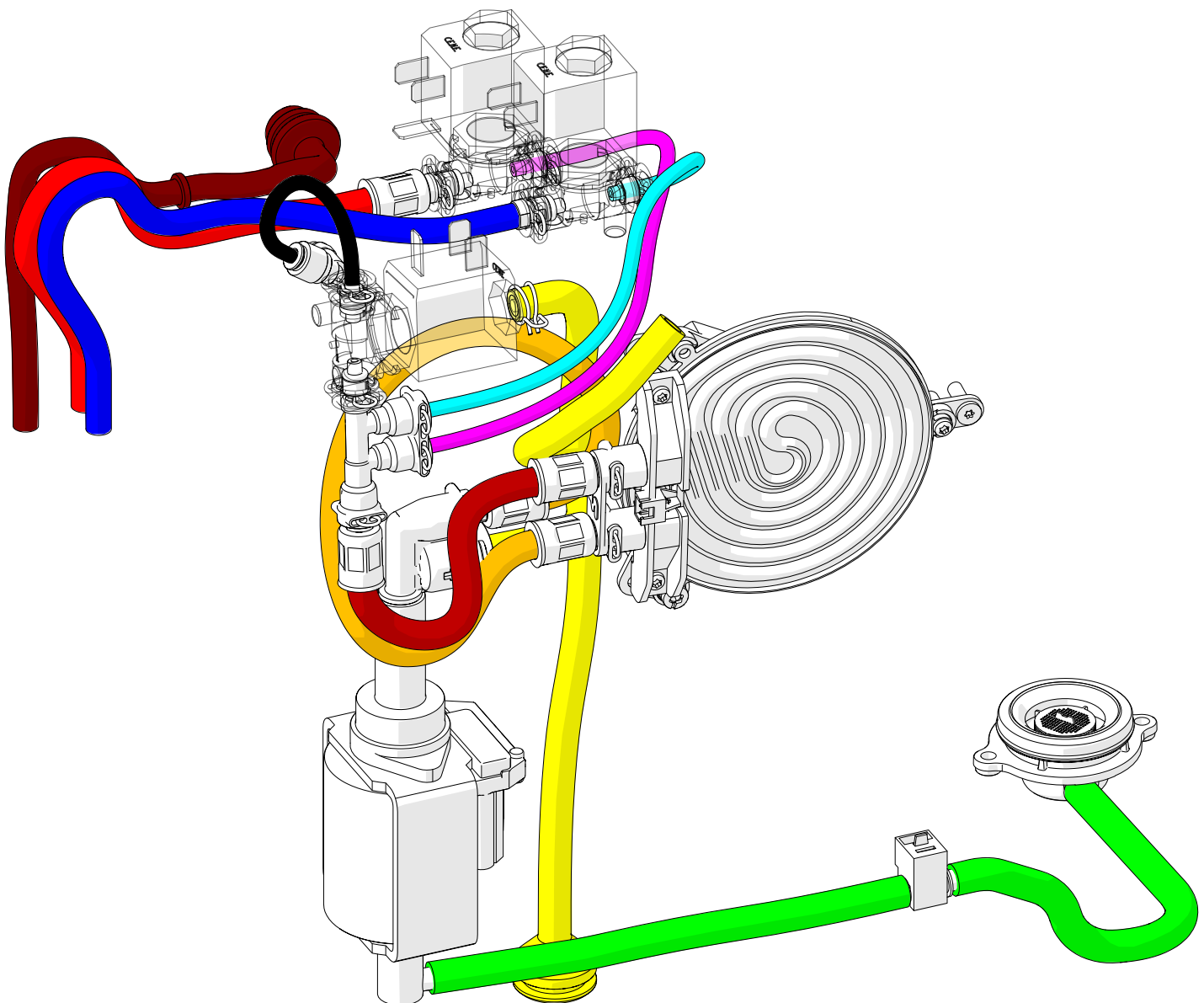
- remove 4 screws

**Step 4**

- disconnect the wiring
- remove the brewer motor

2.14 Hose positions

► *The hoses may not touch the housing, this may cause resonance!*



3. Standard beverage settings (STD)

Standard volume S per drank	Total beverage (ml)	Coffee share (ml)	Milk share (ml)	Hot water share (ml)	Coffee (g)	Dosing order	Pre wet	Contact time (sec.)
Ristretto	20	20	x	x	7	x	on	20
Ristretto x2	40	40	x	x	13	x	on	20
Espresso	30	30	x	x	7	x	on	20
Espresso x2	60	60	x	x	13	x	on	27
Caffè crema	100	100	x	x	7	x	off	27
Caffè crema x2	180	180	x	x	13	x	off	27
Americano	100	30	x	70	7.5	c-w	on	44
Cappuccino	100	30	70	x	7.5	m-c	off	20
Cappuccino dark	100	30	70	x	7,5	c-m	off	20
Espresso macchiato	45	30	15	x	7	c-m	on	20
Latte macchiato	120	30	90	x	7	m-c	on	20
Caffè latte	120	50	70	x	7	c-m	off	20
Hot water	100	x	x	100	x	x	x	x
'Hot Milk'	100	x	100	x	x	x	x	x

Standard volume M per drank	Total beverage (ml)	Coffee share (ml)	Milk share (ml)	Hot water share (ml)	Coffee (g)	Dosing order	Pre wet	Contact time (sec.)
Ristretto	25	25	x	x	8	x	on	20
Ristretto x2	50	50	x	x	15	x	on	20
Espresso	40	40	x	x	8	x	on	20
Espresso x2	80	80	x	x	15	x	on	20
Caffè crema	120	120	x	x	8	x	off	27
Caffè crema x2	200	200	x	x	15	x	off	27
Americano	120	40	x	80	8	c-w	on	20
Cappuccino	120	40	80	x	8	m-c	off	20
Cappuccino dark	120	40	80	x	8	c-m	off	20
Espresso macchiato	65	45	20	x	8	c-m	on	20
Latte macchiato	140	35	105	x	7.5	m-c	on	20
Caffè latte	140	60	80	x	8	c-m	off	20
Hot water	120	x	x	120	x	x	x	x
'Hot Milk'	120	x	120	x	x	x	x	x

Standard volume L per drank	Total beverage (ml)	Coffee share (ml)	Milk share (ml)	Hot water volume (ml)	Coffee (g)	Dosing order	Pre wet	Contact time (sec.)
Ristretto	30	30	x	x	9	x	on	20
Ristretto x2	60	60	x	x	16	x	on	20
Espresso	50	50	x	x	9	x	on	20
Espresso x2	100	100	x	x	16	x	on	20
Caffè crema	140	140	x	x	9	x	off	27
Caffè crema x2	220	220	x	x	16	x	off	27
Americano	140	50	x	90	8.5	c-w	on	20
Cappuccino	140	50	90	x	8.5	m-c	off	20
Cappuccino dark	140	50	90	x	8,5	c-m	off	20
Espresso macchiato	85	60	25	x	9.5	c-m	on	20
Latte macchiato	160	40	120	x	8	m-c	on	20
Caffè latte	160	70	90	x	9	c-m	off	20
Hot water	140	x	x	140	x	x	x	x
'Hot Milk'	140	x	140	x	x	x	x	x

4. Software update instructions

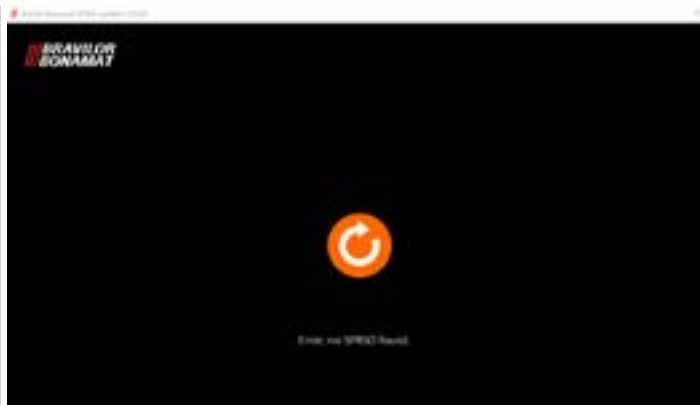
- The update will overwrite all software, including all personal settings (the water and grinder calibration values remain unchanged).

Necessities:

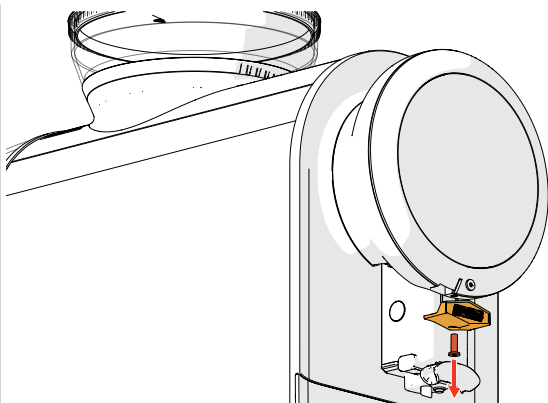
- Windows device (windows 7 or later)
- USB cable (USB-A to USB-C)
- torx 10 screwdriver
- *USB-C to USB-C does not work.*



- download the zip-file from our website
- extract the file to a folder
- right-click on the file to open its properties
- check the **“unlock”** box
- click 'OK' to confirm



- *The Sprso must be connected to the mains.*
- start the application, the screen on the left will appear followed by the next screen



Preparation of the Sprso:

- remove the screw from the brand name buckle
- remove the brand name buckle (the USB-C connection becomes available)
- plug in the USB-C cable on the Sprso
- plug in the USB-A cable on the windows device



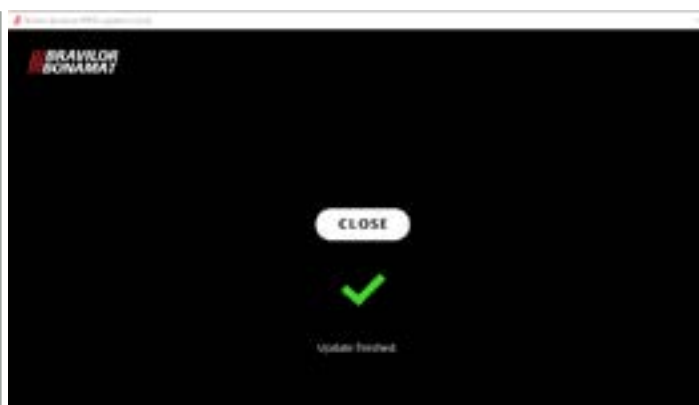
- The update will overwrite all personal settings
- press **“start”** to overwrite the software



- Progress screen:
- wait until the process is finished



Progress screen Sprso



- the procedure is completed and the Sprso will automatically restarts
- press **“close”** to exit the application
- unplug the USB cable
- reattach the brand name buckle
- re-enter your personal settings

5. Troubleshooting

5.1 Warning messages

Nr	Message	Description	Reset condition
ME01	fill or place water tank	no water detected in water tank	• fill water tank and place water tank in correct position
		water tank not present	• place water tank in correct position
		float not in upper position due to:	• check free movement float
		» pollution	• clean
		» leak in the float	• replace float
		» poor conductivity	• clean the float
			• check the ferrite rod, see section 2.8 on page 16
		» I/O board	• replace I/O board
ME02	not applicable		
ME03	close side panel	side/service panel not in correct position	• close side/service panel (in correct position)
		panel switch not activated	• replace switch
			• replace I/O board
ME04	place drip tray + waste bin	waste bin not in place	• place drip tray with waste bin (in correct position)
		waste bin switch not activated	• replace switch
			• replace I/O board
ME05	empty waste bin The icon below is visible on the 'beverage selection screen'. 	waste bin counter exceeded	• remove the drip tray, empty the waste bin inclusive the drip tray, put the parts back in the correct position and confirm the operation on the screen
ME06	not applicable		
ME07	clean milk system	will be displayed when machine flush or start-up flush is active and a milk unit is activated in the software	• only a reminder