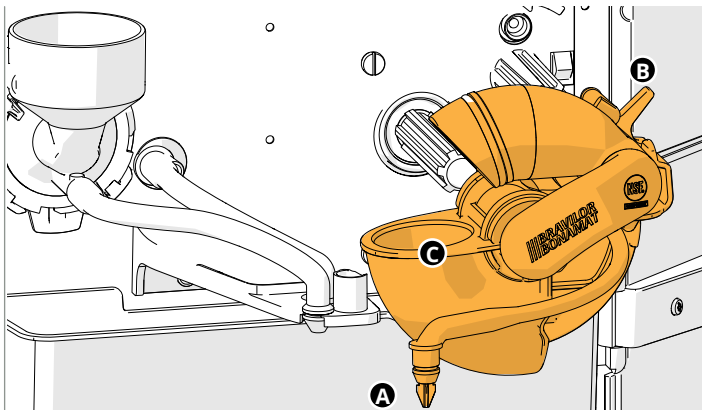


2.7 Remove the brewer motor

- A maintenance kit is available for the periodic replacement of the CIRCO brewer components, the instructions of which are shown in an animation.

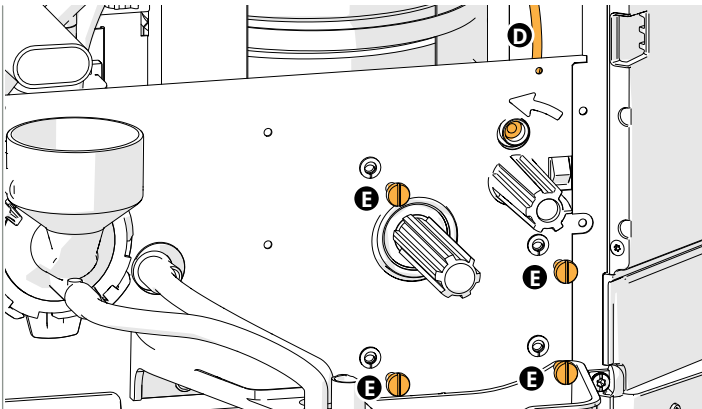
This 'Service kit instructions' animation is on the Sego website and on our You-tube channel in the Sego play list <https://www.youtube.com/user/BravilorBonamatBV/playlists>.



- First remove the grinder as in [section 2.6](#) to make room for removing the brewing motor

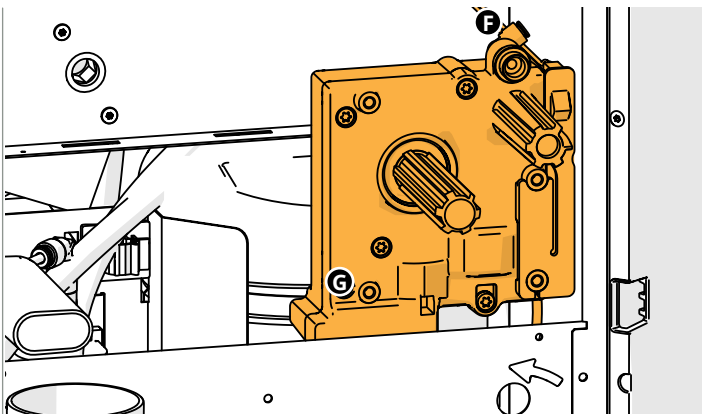
Step 1

- remove the hose outlet **A** from the bracket
- turn the lock **B** counter clockwise
- remove the CIRCO brewer **C**



Step 2

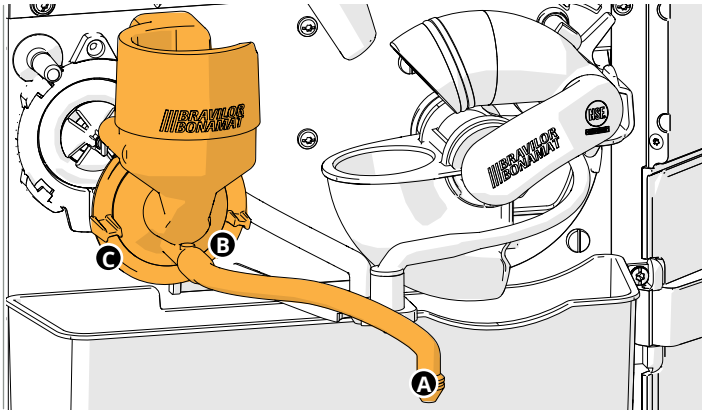
- disconnect the wiring of the brewer switch
- disconnect the hose **D** from the coupling **F**
- remove 4 screws **E** from the brewer motor



Step 3

- take the brewer motor **C** out the machine
- disconnect the motor wiring

2.8 Remove the mixer motor

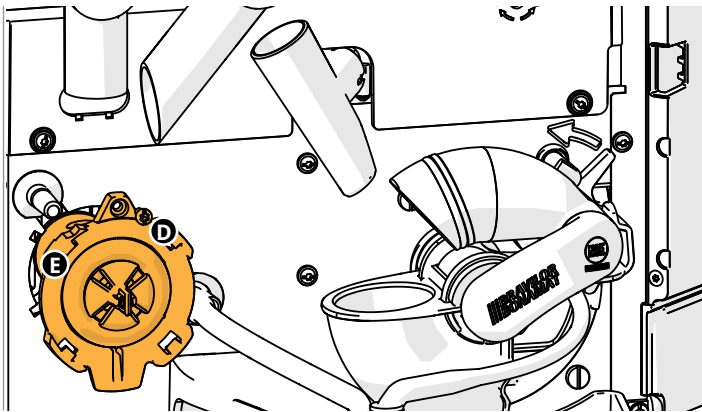


Step 1

- take out the canisters as in [Step 1](#) of [section 2.3](#)

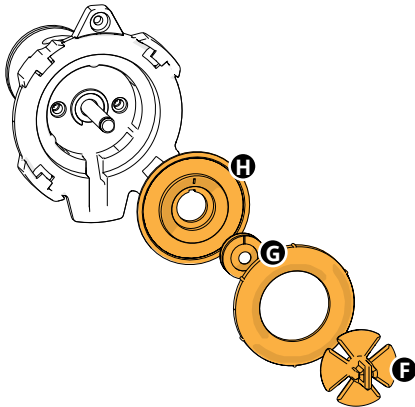
Step 2

- remove the hose outlet **A** from the bracket
- turn the fixation ring **B** counter-clockwise
- remove the mixing unit **C**



Step 3

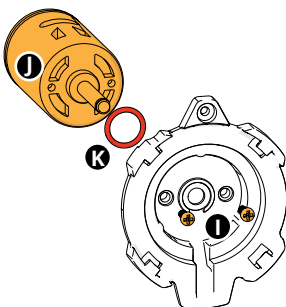
- remove the screw **D** of the mixer motor plate
- detach the mixer motor plate **E** and carefully and pull it towards you



Step 4

- disconnect the wiring
- remove the mixer **F**
- remove both seals **G** and seal holder **H**

► Consider to exchange the seals.

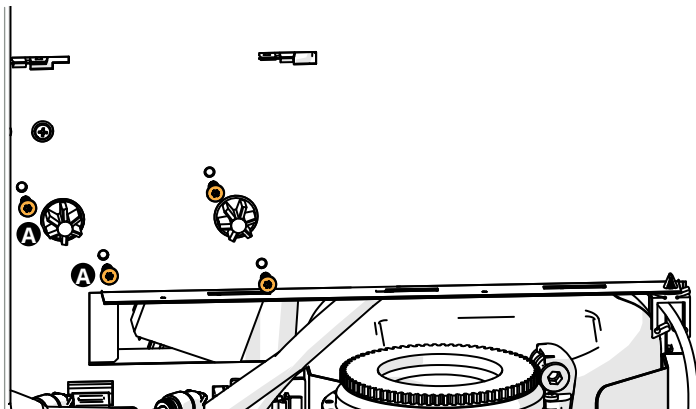


Step 5

- remove the 2 screws **I**
- remove the mixer motor **J**

► Consider to exchange the O-ring **K**

2.9 Remove the canister motor



Step 1

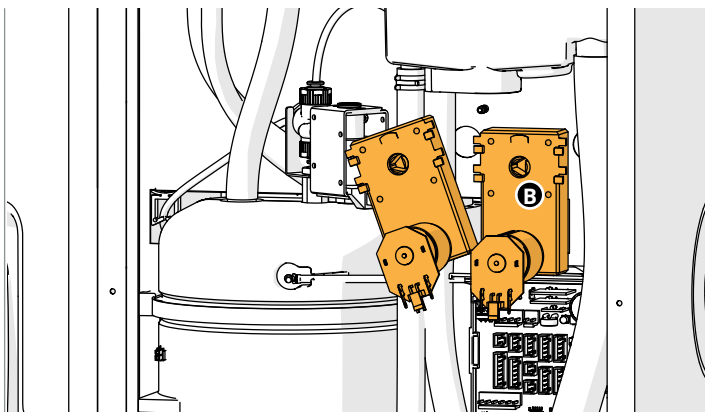
- take out the canisters as in [Step 1](#) of [section 2.3](#)

Step 2

- remove the protective plate/service hatch as in [Step 2](#) of [section 2.3](#)

Step 3

- remove the 2 screws **A** of one of the canister motors

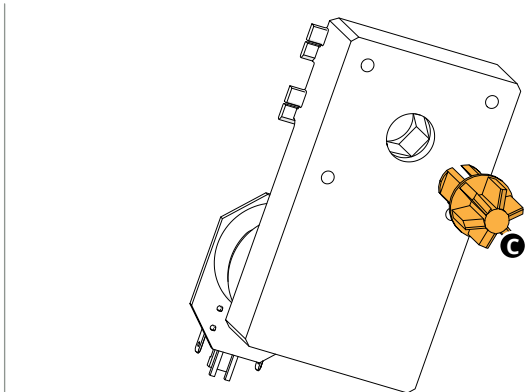


Step 4

- remove the back panel as in [Step 3](#) of [section 2.6](#)

Step 5

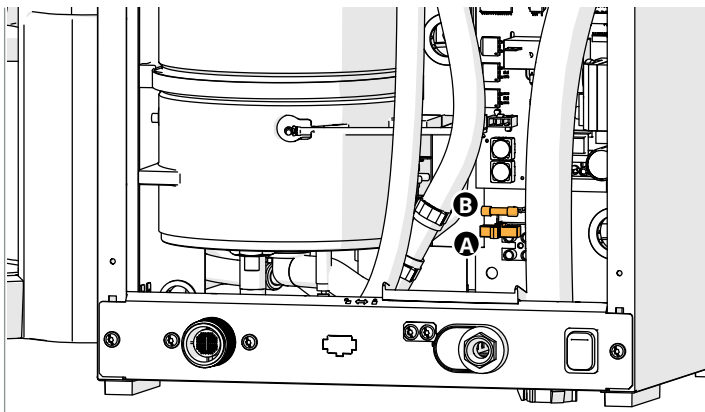
- remove the canister motor **B**
- disconnect the wiring



Step 6

- remove the drive shaft **C**

2.10 Remove the fuse



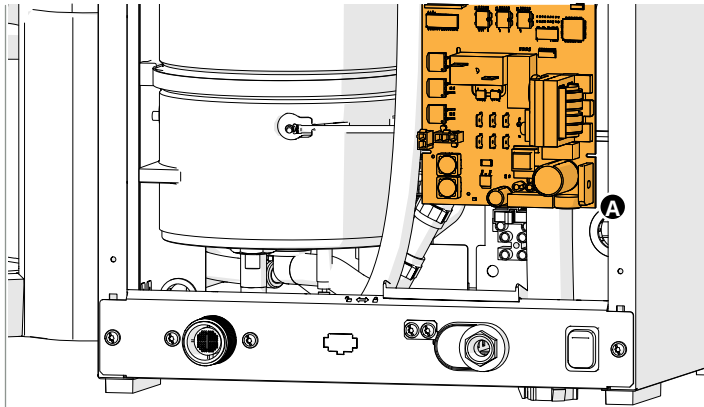
Step 1

- remove the back panel as in [Step 3](#) of [section 2.6](#)

Step 2

- remove the (black) cover **A**
- remove the fuse **B**

2.11 Remove the mainboard



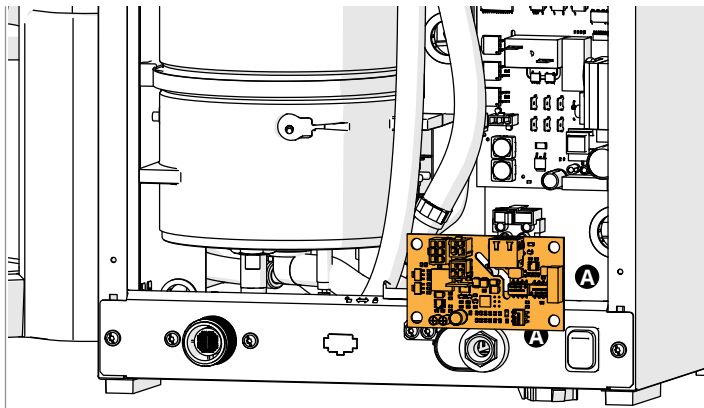
Step 1

- remove the back panel as in [Step 3](#) of [section 2.6](#)

Step 2

- disconnect the wiring
- remove the mainboard **A**

2.12 Remove the (optional) interface board



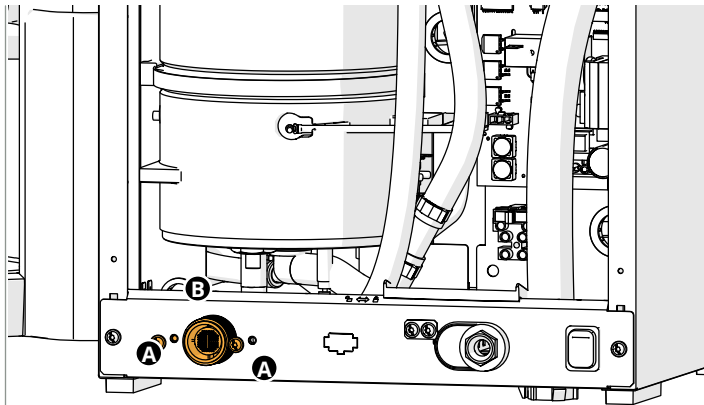
Step 1

- remove the back panel as in [Step 3](#) of [section 2.6](#)

Step 2

- disconnect the wiring
- remove the interface board **A**

2.13 Remove the inlet valve



Step 1

- remove the back panel as in [Step 3](#) of [section 2.6](#)

Step 2

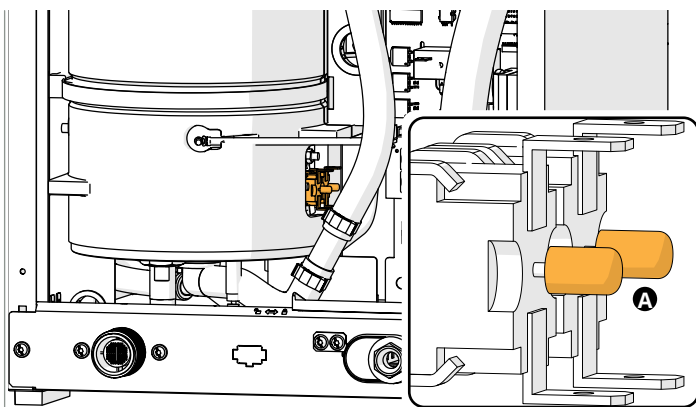
- disconnect the wiring
- remove the 2 screws **A** of the valve bracket
- remove the inlet valve **B**
- disconnect the hose

► *Some water may come out of the hose.*

2.14 Remove the boiler (parts)

► The boiler and their parts can be hot.

2.14.1 Reset the boiler thermostat



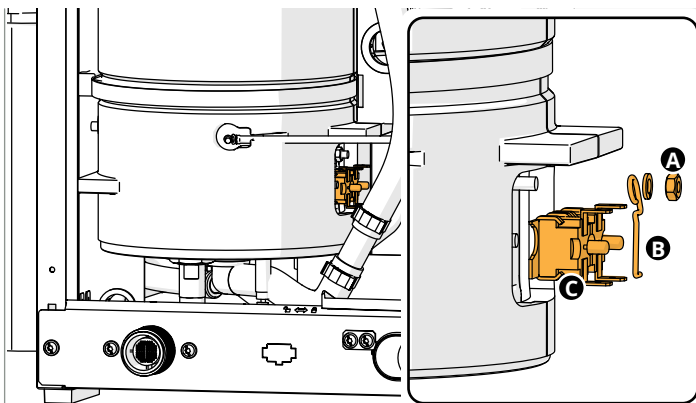
Step 1

- remove the back panel as in [Step 3](#) of [section 2.6](#)

Step 2

- push both switches **A** to reset

2.14.2 Remove the thermostat



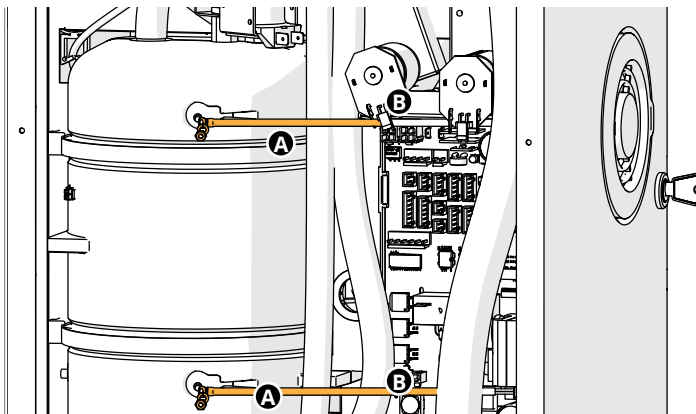
Step 1

- remove the back panel as in [Step 3](#) of [section 2.6](#)

Step 2

- disconnect the wiring
- remove the bolt of the thermostat **A**
- remove the bracket **B**
- remove the thermostat **C**

2.14.3 Remove the temperature sensor



Step 1

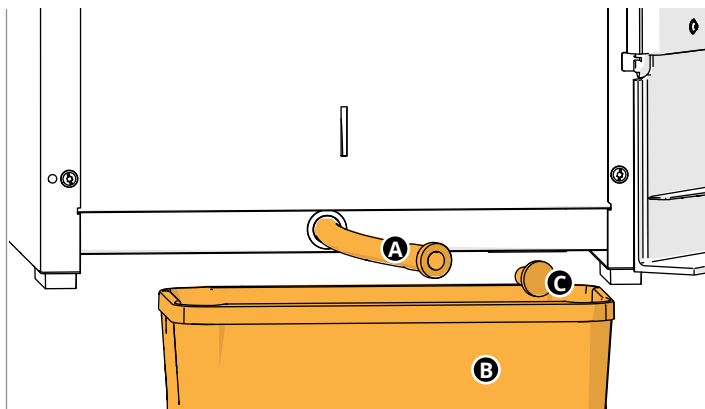
- remove the back panel as in [Step 3](#) of [section 2.6](#)

Step 2

- disconnect the wiring from the mainboard
- remove the bolt **A** of the temperature sensor
- remove the temperature sensor **B**

► Keep in mind that the top sensor on the boiler needs to be attached on the top of the mainboard.

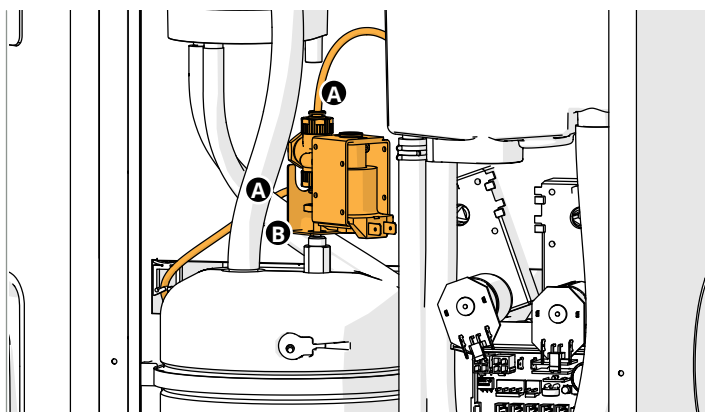
2.14.4 Remove the hot water valve



► When the boiler is drained, hot water comes out of the drain hose, therefore take protective measures.

Step 1

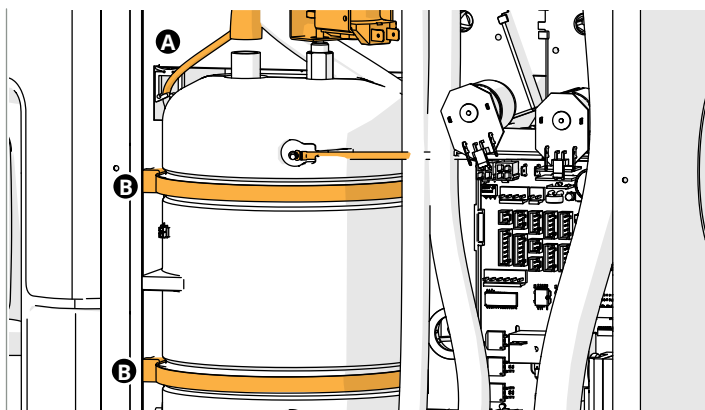
- open the door
- remove the drip tray and waste bin
- pull out the drain hose **A**
- place a container under the drain hose **B**
- remove the tightening plug **C**
- wait until all the water has drained out of the boiler
- replace the tightening plug



Step 2

- disconnect the wiring
- disconnect the 2 thin hoses **A**
- loosen the bolt **B**
- remove the hot water valve

2.14.5 Remove the boiler



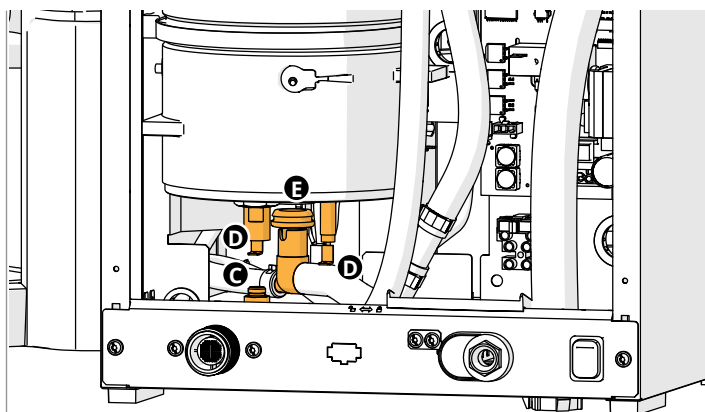
Step 1

- drain the boiler as in [Step 1](#) of [section 2.14.4](#)

► When the boiler is drained, hot water comes out of the drain hose, therefore take protective measures.

Step 2

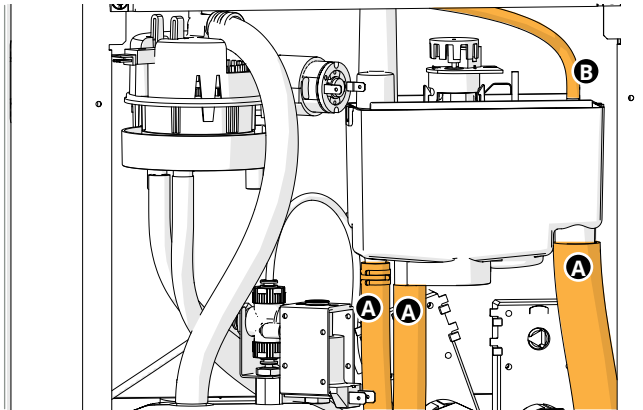
- remove the thermostat, see [section 2.14.2](#)
- remove the temperature sensors from the boiler, see [section 2.14.3](#)
- remove the hot water valve, see [section 2.14.4](#)
- remove the hose on top of the boiler **A**
- loosen the 2 metal boiler clamps **B** and move the boiler up



Step 3

- disconnect the pressure hose **C** and wiring of the elements **D** underneath the boiler
- pull the boiler supply **E** out of the boiler
- open the 2 metal boiler clamps to remove the boiler
- remove the isolation parts

2.15 Remove the pump float tank

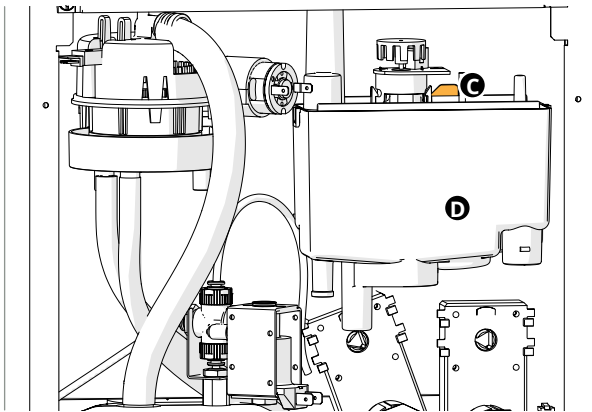


Step 1

- drain the boiler as in [Step 1](#) of [section 2.14.4](#)

Step 2

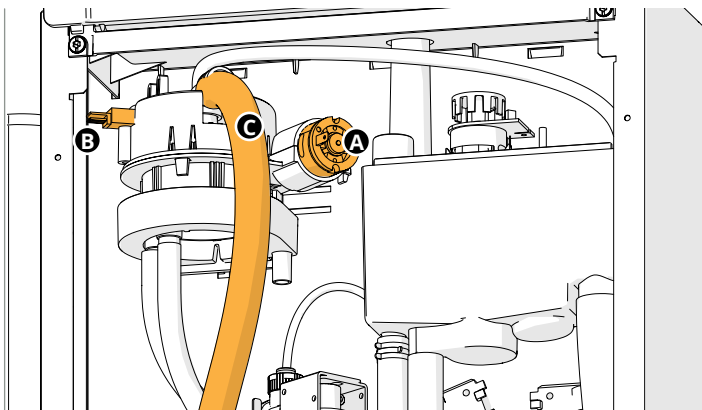
- disconnect the connector of the float from the wiring
- remove the descaler inlet cap
- disconnect the 3 hoses underneath the float tank **A**
- disconnect the aeration hose **B** on top of the float tank
- disconnect the wiring from the pump



Step 3

- push the locking pawl **C** forward
 - move the pump float tank **D** to the left to unlock it
 - remove the pump float tank
- First remove the positioning disc to take out the pump motor.

2.16 Remove the water selector

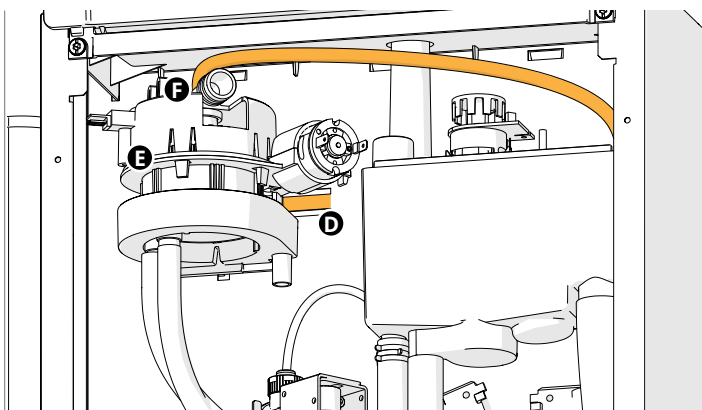


Step 1

- drain the boiler as in [Step 1](#) of [section 2.14.4](#)

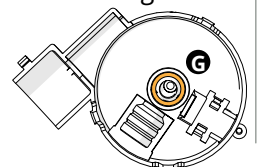
Step 2

- disconnect the wiring from the motor **A**
- disconnect the wiring from the light sensor **B**
- disconnect the hot water supply hose **C**



Step 3

- push the locking pawl **D** forward
 - move the water selector **E** to the right to unlock it
 - disconnect the aeration hose **F**
- Maintenance can be carried out without disconnecting the hoses from the water selector outlet.
- Consider greasing the notch **G** in the lid, where the rotating disc rotates, with food-grade silicone grease.



2.17 Remove the pump set

Step 1

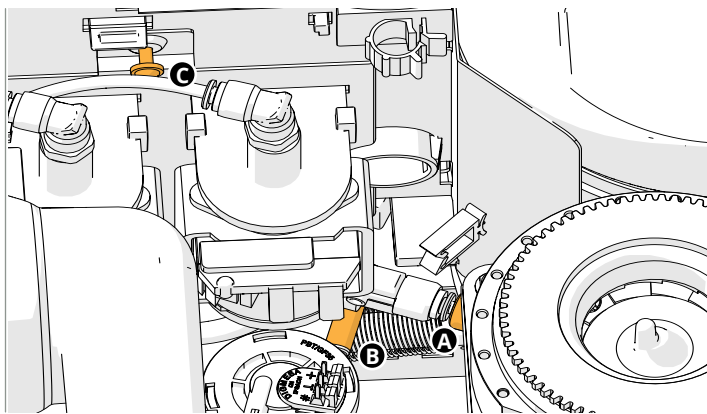
- drain the boiler as in [Step 1](#) of [section 2.14.4](#)

Step 2

- take out the canisters as in [Step 1](#) of [section 2.3](#)

Step 3

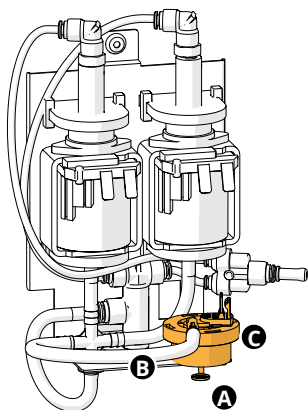
- remove the protective plate/service hatch as in [Step 2](#) of [section 2.3](#)



Step 4

- disconnect the supply pressure hose from the pump set **A**
- disconnect the hose from the water counter **B**
- disconnect the wiring of the water counter and pumps
- remove the screw of the bracket of the pumps **C**
- tilt up the bracket and remove the hose from the water counter
- remove the red pressure hose under the pump
- remove the pump set

2.18 Remove the water counter



Step 1

- remove the pump set as in [section 2.17](#)

Step 2

- remove the starlock **A** under the water counter
- disconnect the hose **B**
- remove the water counter **C**

3. Trouble shooting

3.1 Machine errors

code	description	detection	suspected components
00000	communication error bus system	the bus systems circuit is interrupted	• cable between mainboard and touch screen
			• mainboard
			• touch screen
00001	canister motor runs insufficiently	no rotation of the canister motor detected by the software	• resistance in canister too high due to much powder in canister
			• canister motor
			• wiring
00101	mixer motor runs insufficiently	no rotation of the mixer motor detected by the software	• mainboard
			• mix system clogged
			• mixer motor
00201	low-pressure pump runs insufficiently	light sensor receives not enough pulses for too long a time	• wiring
			• mainboard
			• low pressure pump
00401	grinder runs insufficiently	the software has not received pulses from the hall sensor for too long a time	• blockage (scale) low pressure pump
			• encoder blocked
			• wiring
00402	grinder is incorrectly controlled	if a semiconductor on the mainboard gets defect the grinder runs unjustified	• mainboard
			• coffee (static) around the hall sensor
			• wiring
02001	filling process takes too long	the water inlet valve was open for 20 seconds in succession and the float did not rise	• mainboard
			• coffee (static) around the hall sensor
			• wiring
02001	filling process takes too long	the water inlet valve was open for 20 seconds in succession and the float did not rise	• water tap not opened
			• water supply hose kinked
			• water pressure too low
02001	filling process takes too long	the water inlet valve was open for 20 seconds in succession and the float did not rise	• water flow too low
			• inlet valve
			• wiring
02001	filling process takes too long	the water inlet valve was open for 20 seconds in succession and the float did not rise	• float
			• wiring
			• float

code	description	detection	suspected components
02002	fill up 3 times without selection	a NTC measures a resistance that is lower than normal	• temperature sensor
			• wiring
			• mainboard
02101	break temperature sensor boiler	a NTC measures a resistance that is higher than normal	• temperature sensor
			• wiring
			• mainboard
02102	short-circuit temperature sensor boiler	a NTC measures a resistance that is lower than normal	• temperature sensor
			• wiring
			• mainboard
02201	no pulse detection water selector sensor	the light sensor receives not enough pulses for too long a time	• scale inside water selector
			• motor water selector
			• light sensor
			• wiring
			• mainboard
02202	water selector in wrong position	the hot water selector cannot find its zero position	• scale inside water selector
			• water rotation disc
04301	rotation brewer does not move	the espresso brewer mechanism is not reaching the desired position	• brewer not mounted correct
			• brewer motor defect
			• wiring
04401	water counter gives no pulses	pulses from the flow meter have not been measured for too long a time or when both high pressure pumps do not work	• air in hoses
			• high pressure pumps
			• wiring
			• water counter
10001	general I/O error	the I/O module is reporting an error	• mainboard

3.2 Coin mechanism errors

code	description
07001	coin mechanism missing
07002	coin mechanism defective
07003	coin mechanism blocked
07004	coin mechanism sabotaged
07005	communication error coin mechanism
07006	general error coin mechanism
07101	error in cashless device