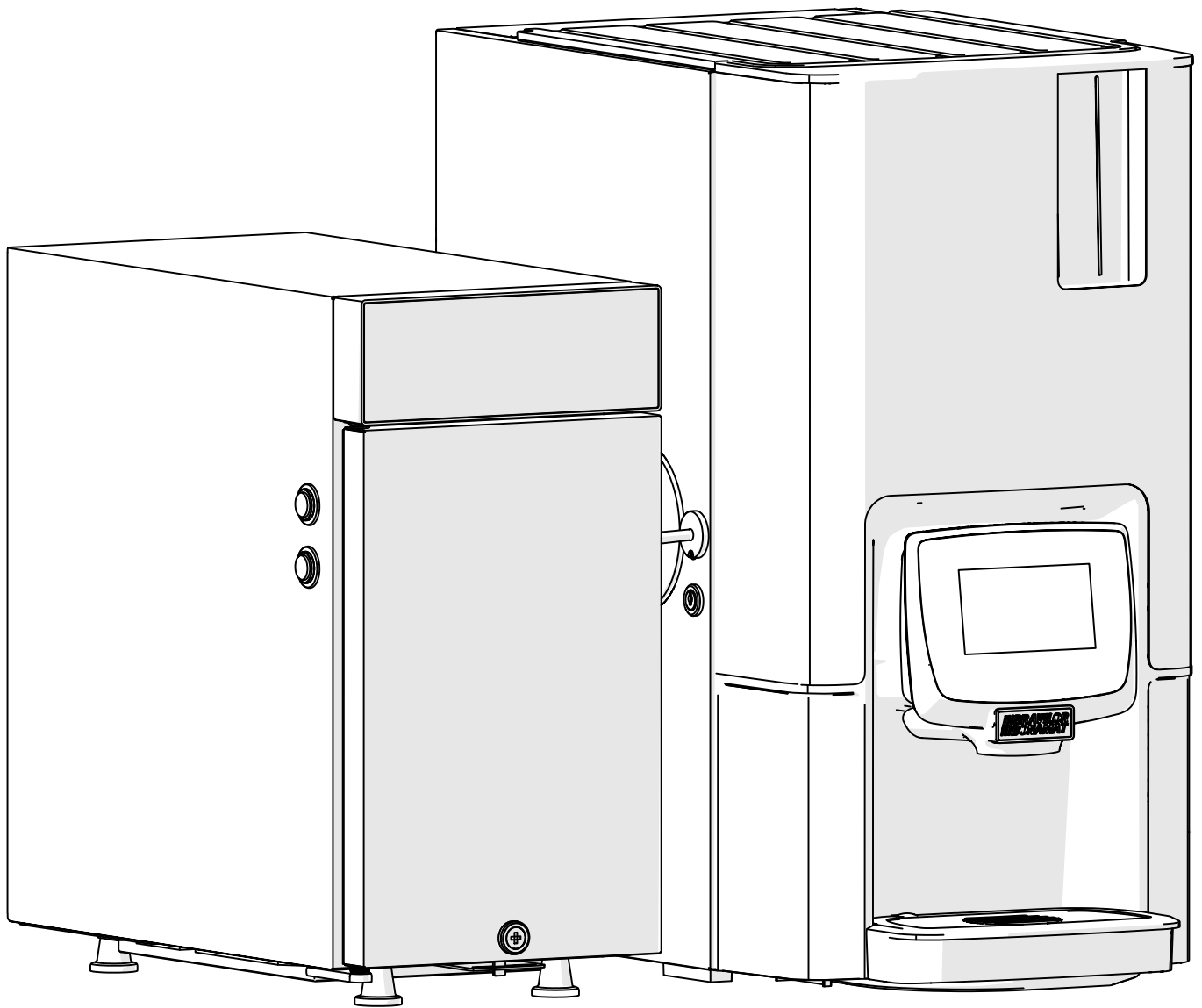


Sego L

TECHNICAL MANUAL



All rights reserved.

No part of this document may be copied and/or published by means of printing, photocopying, microfilming or by any other means whatsoever without the prior written consent of the manufacturer. This also applies to the included drawings and/or diagrams.

The information in this document is based on data that was available at the time the design, the material characteristics and the operating methods were published, meaning that this document is subject to change.

For this reason, the instructions are merely a guideline for the installation, maintenance and repair of the machine shown on the front cover.

This document applies to the standard version of this machine.

The manufacturer therefore declines all liability for any damage arising from specifications that deviate from the standard version of the machine delivered to you.

This document has been compiled with the utmost care. However, the manufacturer cannot be held liable for any errors it contains or the consequences thereof.

Table of contents

1. General	1
2. Installation requirements	1
3. Spare parts replacement	2
3.1 Remove the door safety switch	2
3.2 Remove the service panel	3
3.3 Remove the fan motor	4
3.4 Remove the fan housing	5
3.5 Remove the grinding discs	5
3.6 Remove the grinder	6
3.7 Remove the brewer motor	7
3.8 Remove the mixer motor	8
3.9 Remove the canister motor	9
3.10 Reset the pressure safety switch	9
3.11 Remove the steam boiler (parts)	10
3.11.1 Remove the water detection sensor	10
3.11.2 Remove the steam valve	11
3.11.3 Remove the steam boiler	11
3.12 Remove the relay	12
3.13 Remove the fuse	12
3.14 Remove the interface board	12
3.15 Remove the control board milk foamer	13
3.16 Remove the mainboard	13
3.17 Remove the inlet valve	13
3.18 Hot water boiler parts	14
3.18.1 Reset the boiler thermostat	14
3.18.2 Remove the temperature sensor	14
3.18.3 Remove the thermostat	14
3.18.4 Remove the hot water valve	15
3.19 Remove the hot water boiler	16
3.20 Remove the pump float tank	17
3.21 Remove the water selector	17
3.22 Remove the pump set	18
3.23 Remove the water counter	18
3.24 Remove the air restriction	19
3.25 Remove the milk foamer	19
3.26 Replace the double milk suction hose	19

4. Trouble shooting	20
4.1 Machine errors	20
4.2 Coin mechanism errors	22
4.3 Machine messages	23
4.4 Other problems	24
4.4.1 Coffee related	24
4.4.2 Instant ingredients related	24
4.4.3 Milk related	25
4.4.4 Machine related	26
5. Special functions	27
5.1 Master PIN-code	27
5.2 Reset the counters	27
5.3 Overriding the first install program	27
5.4 Overriding the start-up procedure of the machine	27
6. Explanation of the labels	28
6.1 Draining	28
6.2 Milk level	28
7. Recipes	29
7.1 Standard beverages/recipes	29
7.2 Premix beverages	30
7.3 Premix beverages with fresh milk	31
8. Accessories	32
8.1 Raiser set	32
8.2 Drainage set	35
8.3 Counter cut-out for raiser set	37

1. General

- ▶ *Always read the safety instructions (700.403.347).
To avoid possible damage, these safety instructions must be read, understood and followed.*
- ▶ *Manuals are subject to change, scan the QR code to retrieve current information.*



2. Installation requirements

To enable a smooth and simple installation of the Sego L please ensure the customer has the following prepared:

- Ensure the electrical supply is situated within 1 meter of the machines proposed location.
- Ensure the power supply is correct for the ordered machines:
- Sego L
 - » 1x 230V, 2190W, 13amp (or higher).
- Milk fridge (optional) an extra power socket is needed
 - » 1x 230V, 115W (has its own power connection cord).
- Ensure that the machine fits the proposed location.
- The water supply must be cold potable (drinking) water terminating in a shut off valve with a male 3/4" connection. This must be within 1 meter of the machines proposed location.
- The water pressure must be between 2 - 10 bar.
NOTE: Water pressure must be measured as standing pressure AFTER any fitted water filtration.
- The machine must be immediately available to the engineer within a reasonable distance of the proposed install site.

What the engineer can do:

- Upon arrival the fully trained engineer will complete the following;
 - Unpack the machine and inspect for transit damage.
 - Install the machine in the proposed location.
 - Connect the power and water supply to the machine.
 - Connect a water filtration system if ordered.
 - Commission the machine and complete a function test ensuring full operation.
 - Set the machine up to a standard recipe if no pre set recipe has been specified in advance.
 - Make adjustments to beverages taste and size (based on the person on site presented as the management representative).
 - Setup the recommended dosage of the soluble ingredient of each drink.
 - Check if the water volume dosage is correct, if not, a calibration must be performed.
 - Train staff on machine maintenance, cleaning and operation.
 - Leave the area tidy .
- ▶ *Always follow the local and national safety regulations and standards for electrical devices during installation.*
 - ▶ *Read the safety book carefully. The safety book is provided with the machine or can be downloaded from the Bravilor Bonamat site*

Ingredients you may need:

- Ingredients should be selected based on taste profiles and site requirements.
We do however provide the following direction:
 - » Roasted whole coffee beans.
 - » Fresh Milk (frothable milk for cappuccino)
 - » Hot chocolate (or other soluble ingredient)*
 - * Only use instant ingredients that are suitable for vending machines (contains a flowing agent).
 - * Use the recommended dosage as indicated on the packaging.
- ▶ *Always follow the local and national safety regulations and standards for electrical devices during installation.*
 - ▶ *The contents of the safety booklet supplied with the machine must be known to both the installer and the customer.*
 - ▶ *The operator instructions can be downloaded from the Bravilor Bonamat site.*

3. Spare parts replacement

► **Precautionary measures**

- » Always unplug the machine to turn off the power before opening it.
- » Turn off the water tap and disconnect the water supply hose.
- » The service area can have sharp edges, wear gloves and long sleeves.
- » When the Sego is drained, hot water and/or steam comes out of the drain hoses, therefore take protective measures.

Necessities:

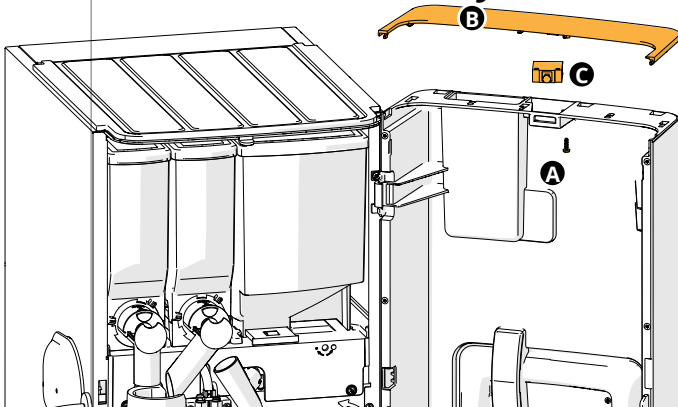
- Philips screwdriver
- screwdrivers torx 10 and 15
- small adjustable wrench
- open-en wrench / socket wrench: M3 and M4
- curved nose pliers
- combination-pliers

Reassembly remarks:

- see the exploded views for the service part numbers
- see the electric diagram for the wiring connections

- *The (cleaning) animations can be found on the Sego website.
These animations can also be found on our You-tube channel:
<https://www.youtube.com/user/BravilorBonamatBV/playlists>*

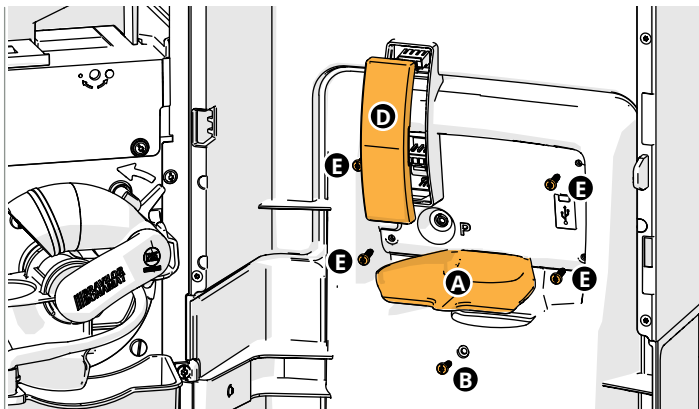
3.1 Remove the door safety switch



Step 1

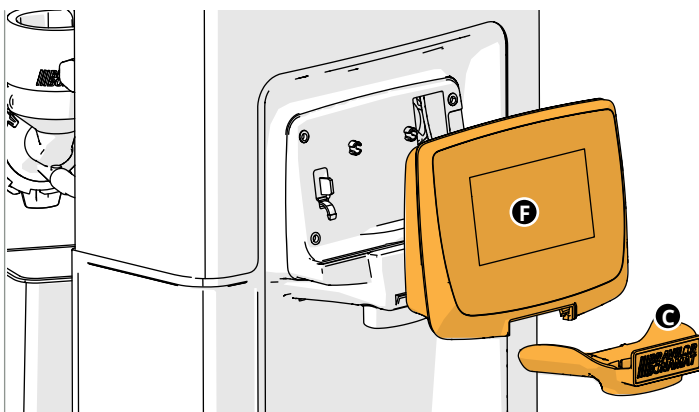
- open the door
- remove the screw of the door lid **A**
- remove the lid of the door **B**
- remove the safety switch **C**
- disconnect the connector of the wiring

3.2 Remove the service panel



Step 1

- open the door
- remove the yellow insert part **A**
- remove 1 screw from the chrome (coloured) outlet cover **B**
- remove the chrome outlet cover **C**
- remove the wiring cover **D**
- disconnect the wiring



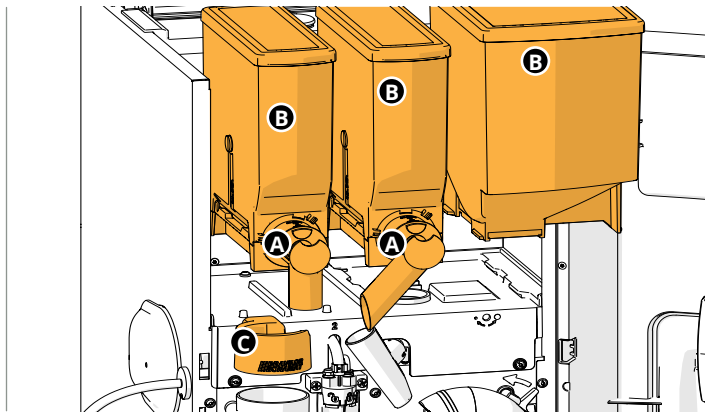
Step 2

- hold the touch screen and remove the 4 screws on the inside of the door **E**
- pull the service panel towards you **F**

► *The service panel is delivered without software, you need to download the software yourself on an USB-stick from our website.*

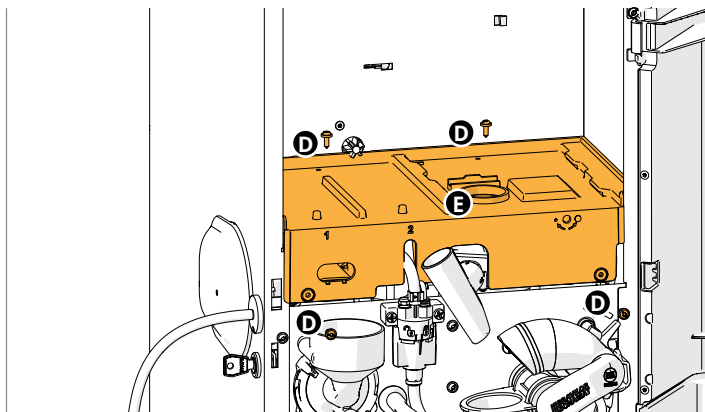
- go to www.bravilor.com and log in with your login name and password
- select Sego machine
- download the software on the USB-stick
- mount the new service panel
- insert the USB-stick with the software in the machine (USB-slot in the door)
- set the time and date
- enter the serial number (see ID-plate – 02000*****)
- the software is now loaded from the USB-stick (this may take several minutes)
- the machine will start up with the installation program
- remove the USB-stick
- run the complete installation program
- the machine is now ready for use again

3.3 Remove the fan motor



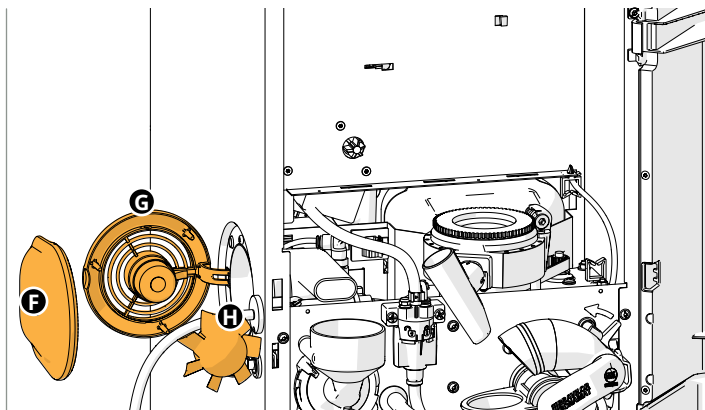
Step 1

- open the door and lid
- close the “yellow” slider of the canister outlets **A**
- take all the canisters out of the machine **B**
- remove the condense reservoir of the mixing unit **C**



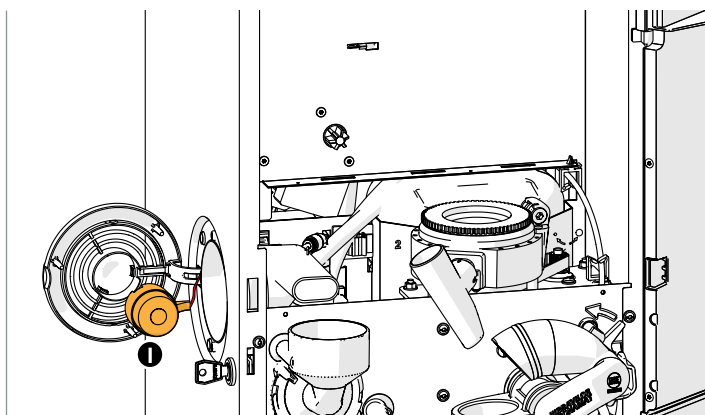
Step 2

- remove 4 screws from the protective plate **D**
 - remove the protected plate (service hatch) **E**
- The service area can have sharp edges, wear gloves and long sleeves.



Step 3

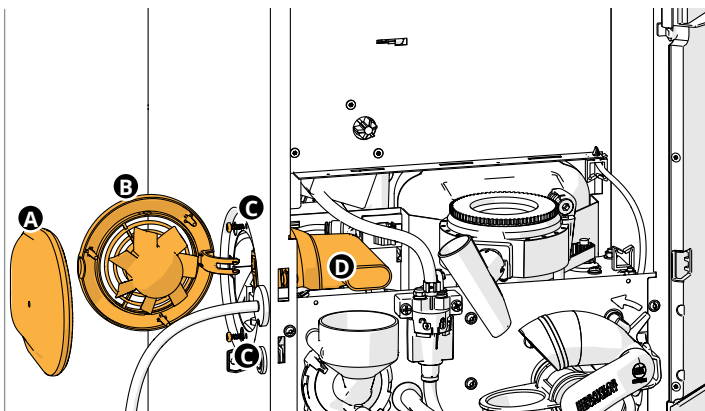
- remove the fan cover **F**
- open the fan grid **G**
- remove the fan rotor **H**



Step 4

- lead the wiring with the connector through the opening to the outside
- remove the fan motor **I**

3.4 Remove the fan housing



Step 1

- take out the canisters as in [Step 1](#) of [section 3.3](#)

Step 2

- remove the protective plate/service hatch as in [Step 2](#) of [section 3.3](#)

Step 3

- remove the fan cover **A**
- open the fan grid **B**
- disconnect the connector through the service hatch
- remove the fan grid
- remove 2 screws from the fan housing **C**
- remove the fan housing **D**

3.5 Remove the grinding discs

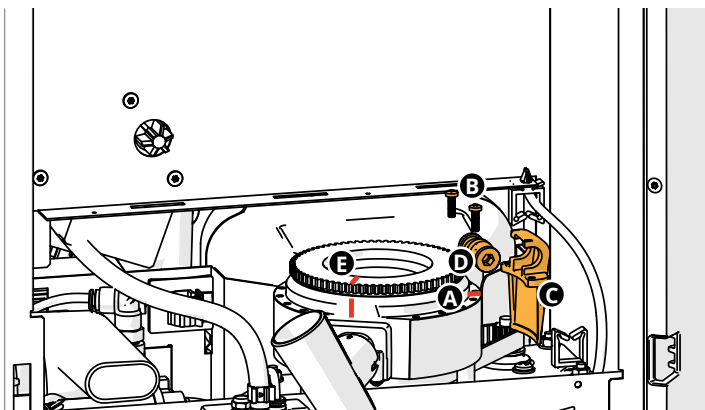
- ▶ Use a vacuum cleaner to remove all existing coffee beans.
- ▶ Wear gloves to protect your hands.
- ▶ Always replace both disks at the same time.
- ▶ When reassembling the machine, ensure that the grinding discs do not touch before switching on the machine.

Step 1

- take out the canisters as in [Step 1](#) of [section 3.3](#)

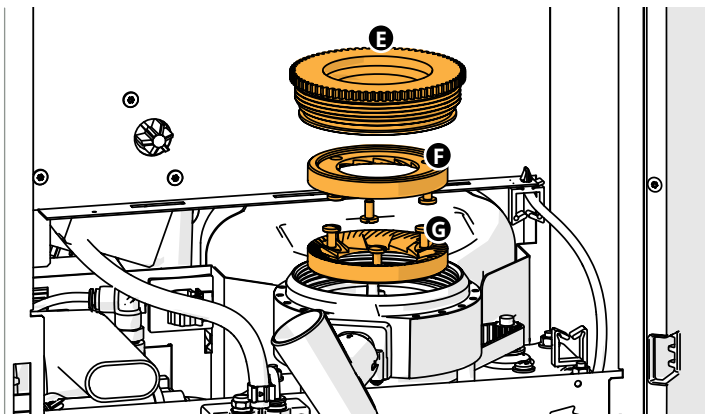
Step 2

- remove the protective plate/service hatch as in [Step 2](#) of [section 3.3](#)



Step 3

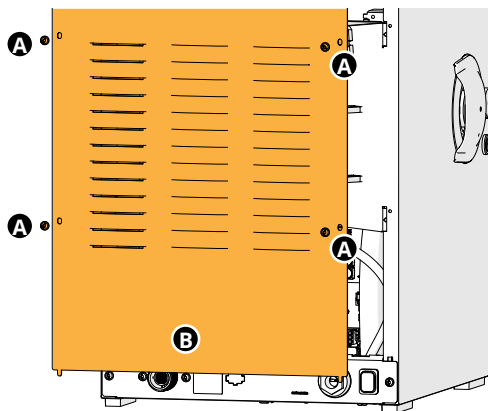
- mark the position **A** of the bracket for the setting wheel
- remove 2 screws **B** of the bracket
- remove the bracket **C** and the setting wheel **D**
- mark the adjusting wheel on top, for example in the middle of the grinder outlet **E**, so that the position is known



Step 4

- remove the adjusting wheel **E**
 - ▶ Count the amount of rotations to open the grinder, this for reassembling.
- remove the 3 screws **F** of the upper grinding disc and remove it
- remove the 3 screws **G** of the lower grinding disc and remove it
 - ▶ Press and hold the drive belt slightly to hold the grinding wheel in place, then loosen the screws.

3.6 Remove the grinder



Step 1

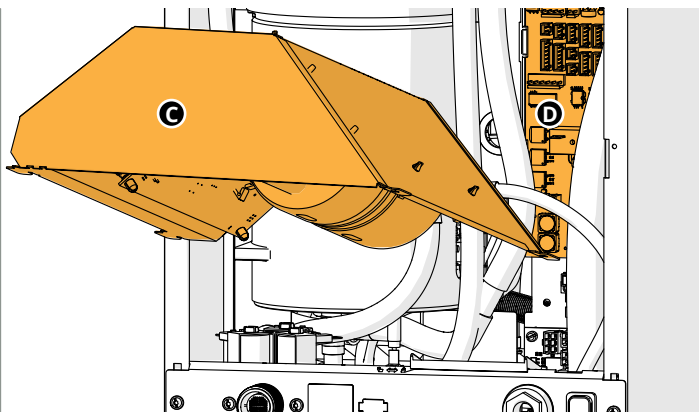
- take out the canisters as in [Step 1](#) of [section 3.3](#)

Step 2

- remove the protective plate/service hatch as in [Step 2](#) of [section 3.3](#)

Step 3

- remove the 4 screws **A** of the back panel
- remove the back panel **B**

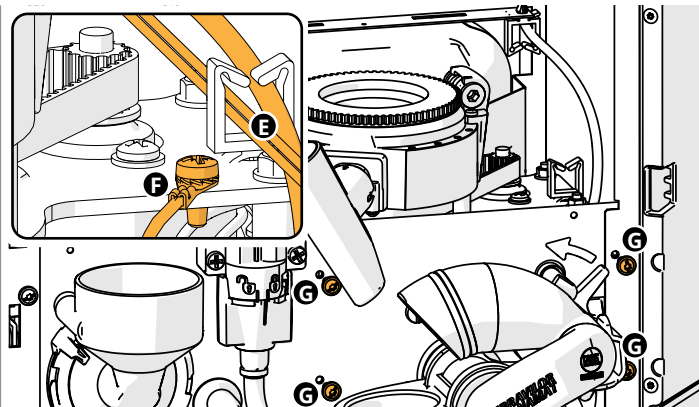


Step 4

- detach the entire mounting plate with components **C** carefully and pull it towards you
 - ▶ Loosen the steam hose from the milk foamer (at the front of the appliance) to get more manoeuvring room.
 - ▶ Disconnect the wire(s) from the control board milk foamer that are blocking the movement.

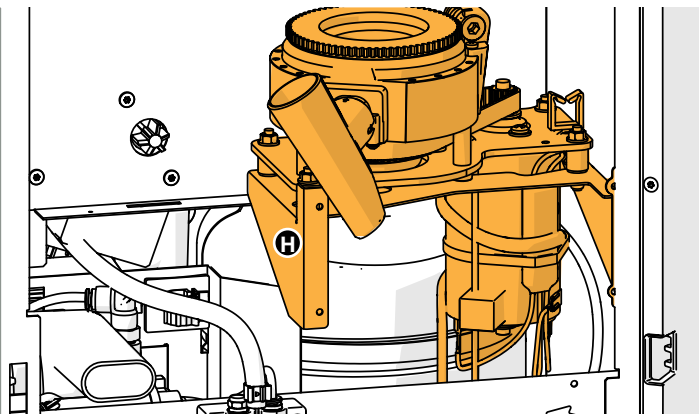
Step 5

- disconnect the grinder wiring and 'Hall sensors' from the mainboard **D**



Step 6

- remove the wiring and the water hose **E** from the cable clip on the right side of the grinder
- remove the screw from the earth wire **F**
- remove the 4 screws **G** of the grinder bracket
 - ▶ To make it easier to reach all 4 screws you may remove the CIRCO brewer, see [section 3.7 Step 1](#)



Step 7

- remove the bracket with grinder **H** through the service hatch
 - ▶ Do not forget to connect the earth wire during installation.