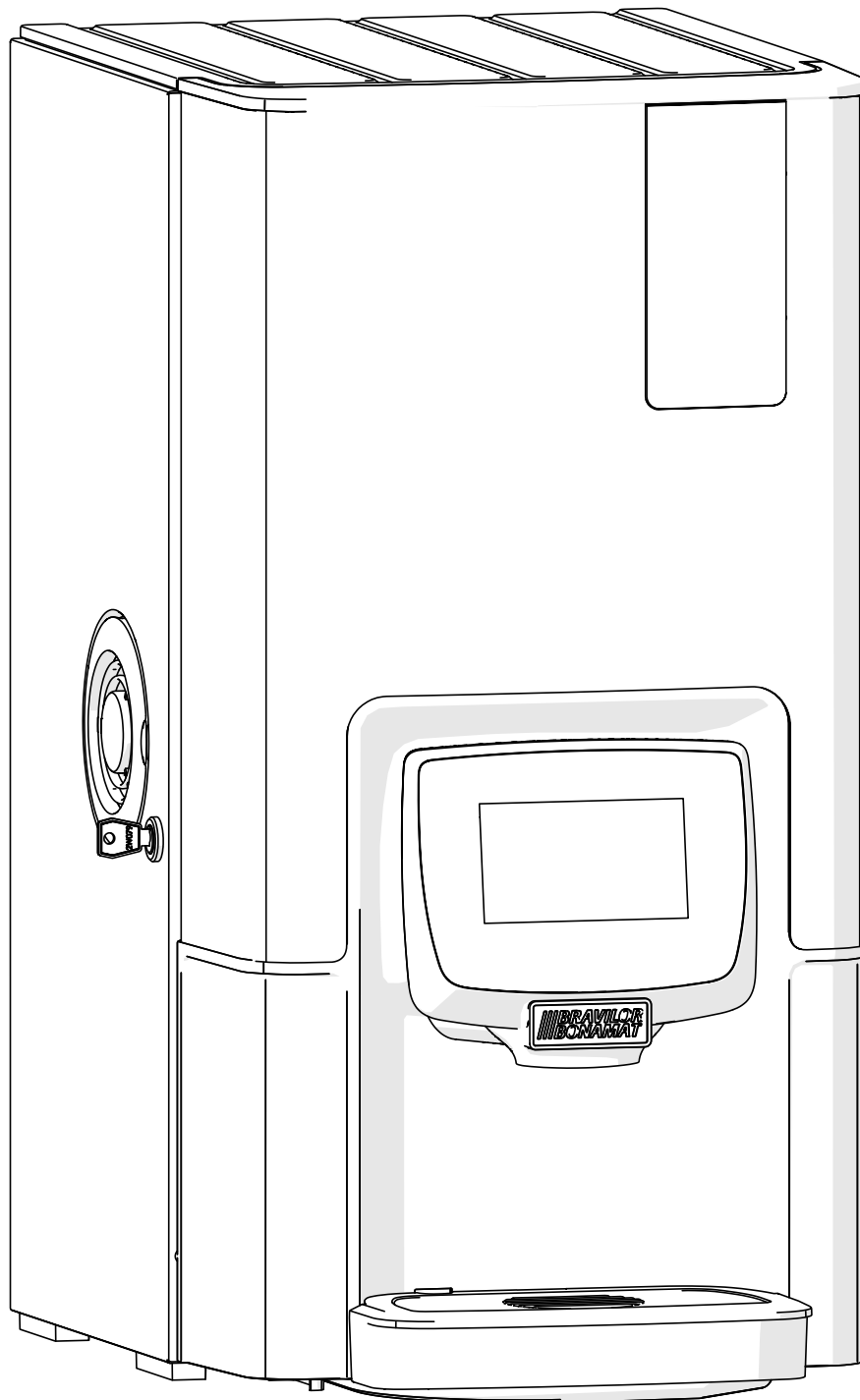


Sego

TECHNICAL MANUAL



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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.

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1. Installation requirements

To enable a smooth and simple installation of the Sego 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 machine:
- Sego
 - » Standard : 1x 230V, 2190W, 13amp (or higher)
 - » North America : 1x 120V, 1440W, 12amp (or higher)
- 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 1 - 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.
 - » Cacao and/or topping (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.*

2. 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 comes out of the drain hose, therefore take protective measures.

Necessities:

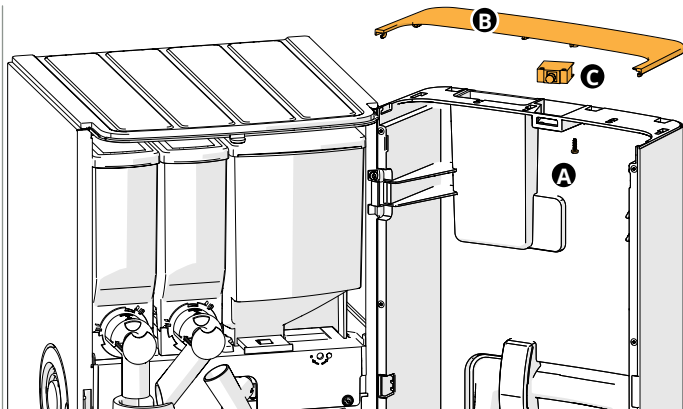
- Philips screwdriver
- screwdrivers torx 10 and 15
- small adjustable wrench
- open-end wrench / socket wrench: M3 and M4
- curved nose pliers
- combination-pliers

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>*

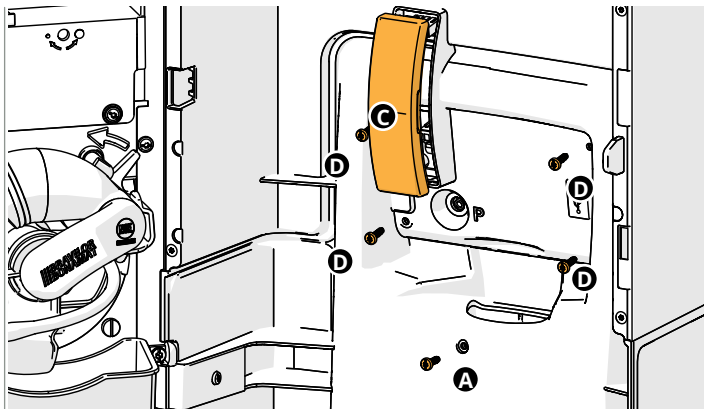
2.1 Remove the door safety switch



Step 1

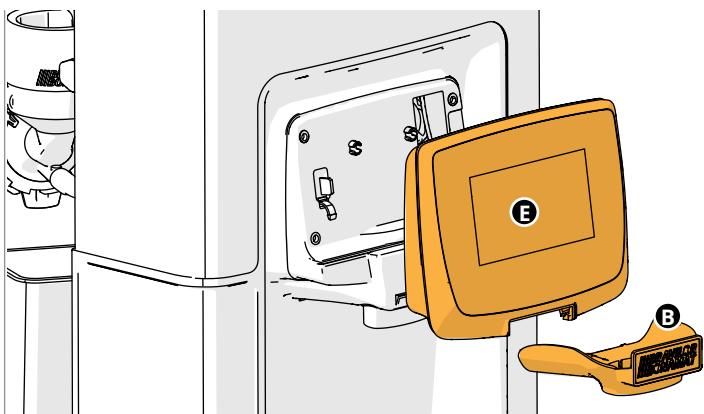
- open the door
- remove the screw of the door lid **A**
- remove the lid of the door **B**
- remove the safety switch **C**
- disconnect the connector of the wiring

2.2 Remove the service panel



Step 1

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



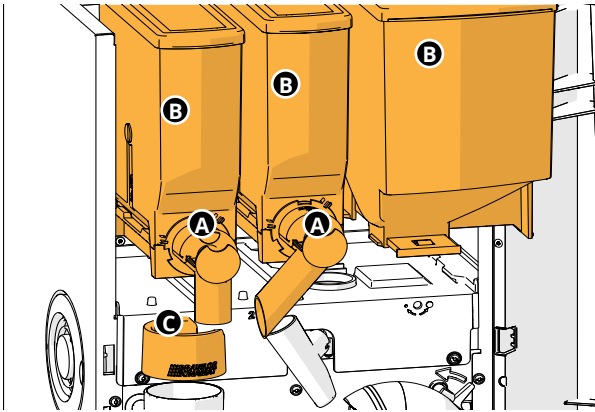
Step 2

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

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

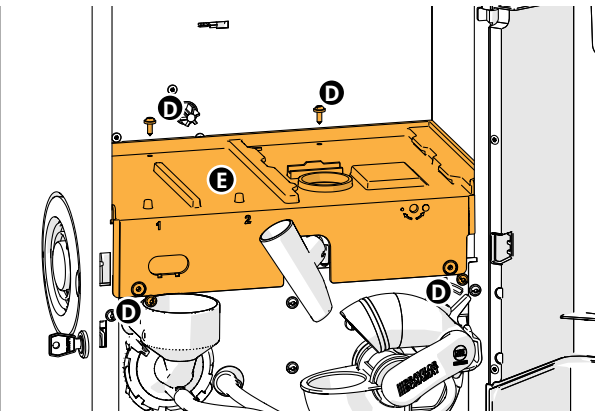
- go to www.bravilor.com and log in with your login name and password
- select Sego machine
- download the software on the USB-stick
- mount the new service panel
- insert the USB-stick with the software in the machine (USB-slot in the door)
- set the time and date
- enter the serial number (see ID-plate – 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

2.3 Remove the fan motor



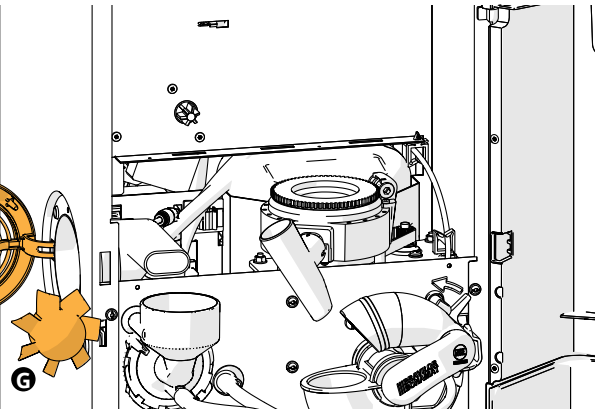
Step 1

- 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**



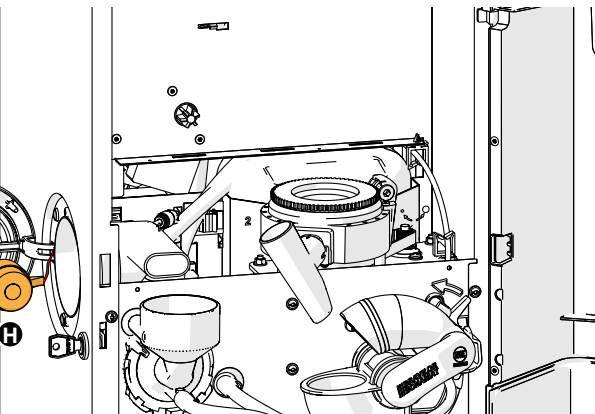
Step 2

- 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

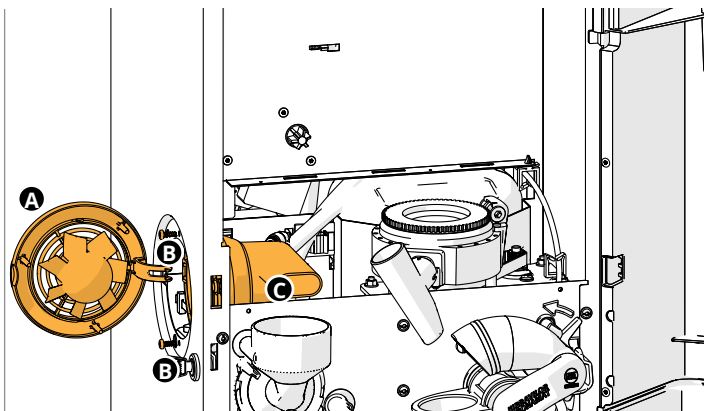
- open the fan grid **F**
- remove the fan rotor **G**



Step 4

- disconnect the connector through the service hatch
- lead the wiring with the connector through the opening to the outside
- remove the fan motor **H**

2.4 Remove the fan housing



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

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

2.5 Remove the grinding discs

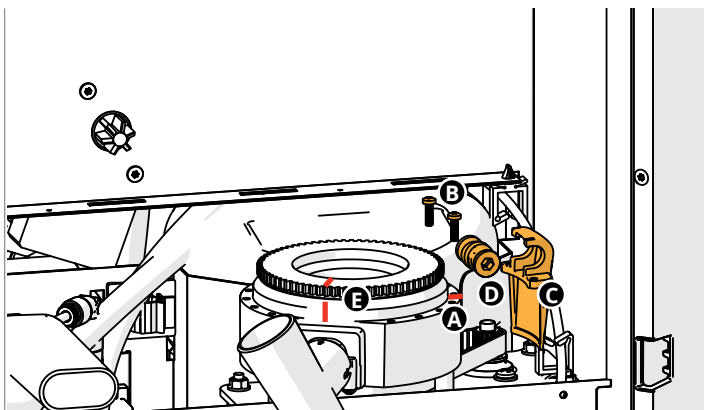
- ▶ Use a vacuum cleaner to remove all existing coffee beans.
- ▶ Wear gloves to protect your hands.
- ▶ Always replace both disks at the same time.
- ▶ When reassembling the machine, ensure that the grinding discs do not touch before switching on the machine.

Step 1

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

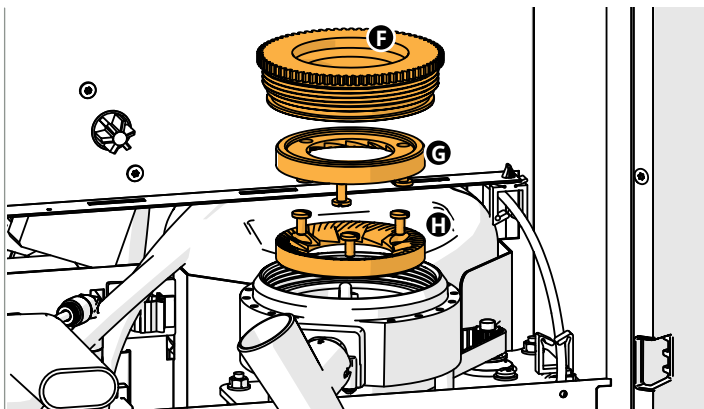
Step 2

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



Step 3

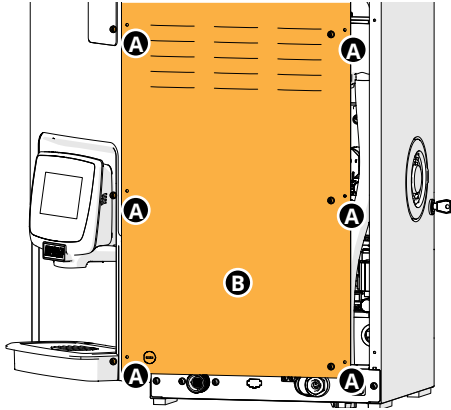
- mark the position **A** of the bracket for the setting wheel
- remove 2 screws **B** of the bracket
- remove the bracket **C** and the setting wheel **D**
- mark the adjusting wheel on top, for example in the middle of the grinder outlet **E**, so that the position is known



Step 4

- remove the adjusting wheel **F**
 - ▶ Count the amount of rotations to open the grinder, this for reassembling.
- remove the 3 screws **G** of the upper grinding disc and remove it
- remove the 3 screws **H** 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.

2.6 Remove the grinder



Step 1

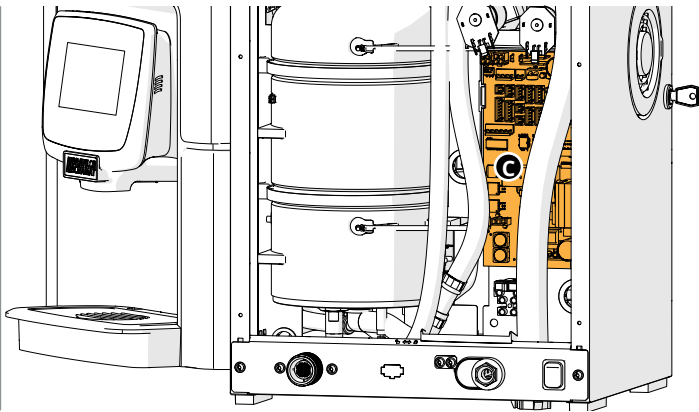
- take out the canisters as in [Step 1](#) of [section 2.3](#)

Step 2

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

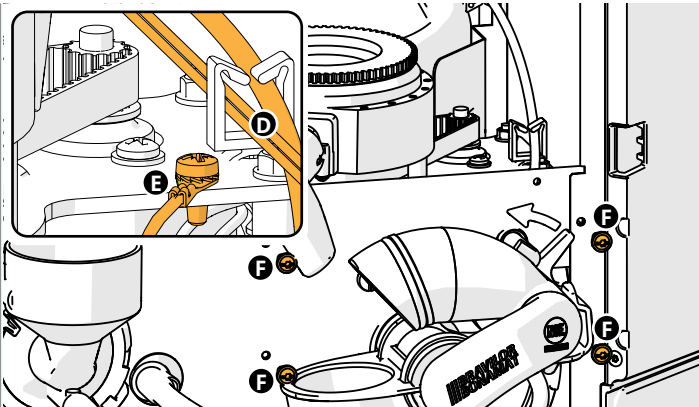
Step 3

- remove the 6 screws **A** of the back panel
- remove the back panel **B**
- disconnect the connector from the mainboard



Step 4

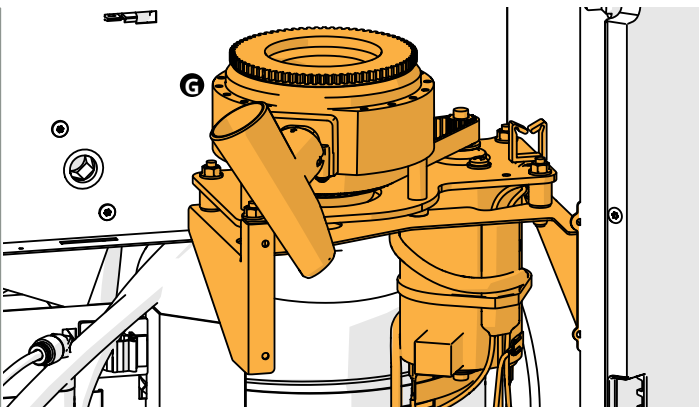
- disconnect the grinder wiring and 'Hall sensors' from the mainboard **C**



Step 5

- remove the wiring and the water hose **D** from the cable clip on the right side of the grinder
- remove the screw from the earth wire **E**
- remove the 4 screws **F** of the grinder bracket

► To make it easier to reach all 4 screws you may remove the CIRCO brewer, see [section 2.7 Step 1](#)



Step 6

- remove the bracket with grinder **G** through the service hatch

► Do not forget to connect the earth wire during installation.