

**LA CIMBALI**

# ELECTIVE

**MANUALE DEL TECNICO**

**ENGINEER'S MANUAL**

**MANUEL DU TECHNICIEN**

**TECHNIKERHANDBUCH**

**MANUAL DEL TÉCNICO**

**MANUAL DO TÉCNICO**



(rev. 1838)



Copia aggiornata in formato elettronico del presente manuale è disponibile accedendo al sito indicato a fondo pagina, utilizzando le credenziali sotto riportate.

An updated, electronic version of the manual can be accessed from the website shown at the bottom of the page, using the credentials below.

Une copie actualisée du présent manuel est disponible au format électronique en accédant au site indiqué en bas de la page, en utilisant les identifiants communiqués ci-dessous.

Eine aktuelle elektronische Kopie dieses Handbuchs können Sie auf der am Seitenende aufgeführten Website herunterladen. Bitte nutzen Sie die angegebenen Zugangsdaten.

Autenticándose en el sitio web indicado al final de la página con las credenciales que se ofrecen a continuación es posible acceder a la copia actualizada del presente manual en formato electrónico.

A cópia atualizada em formato eletrónico deste manual está disponível acedendo ao site indicado no fundo da página, utilizando as credenciais indicadas abaixo.



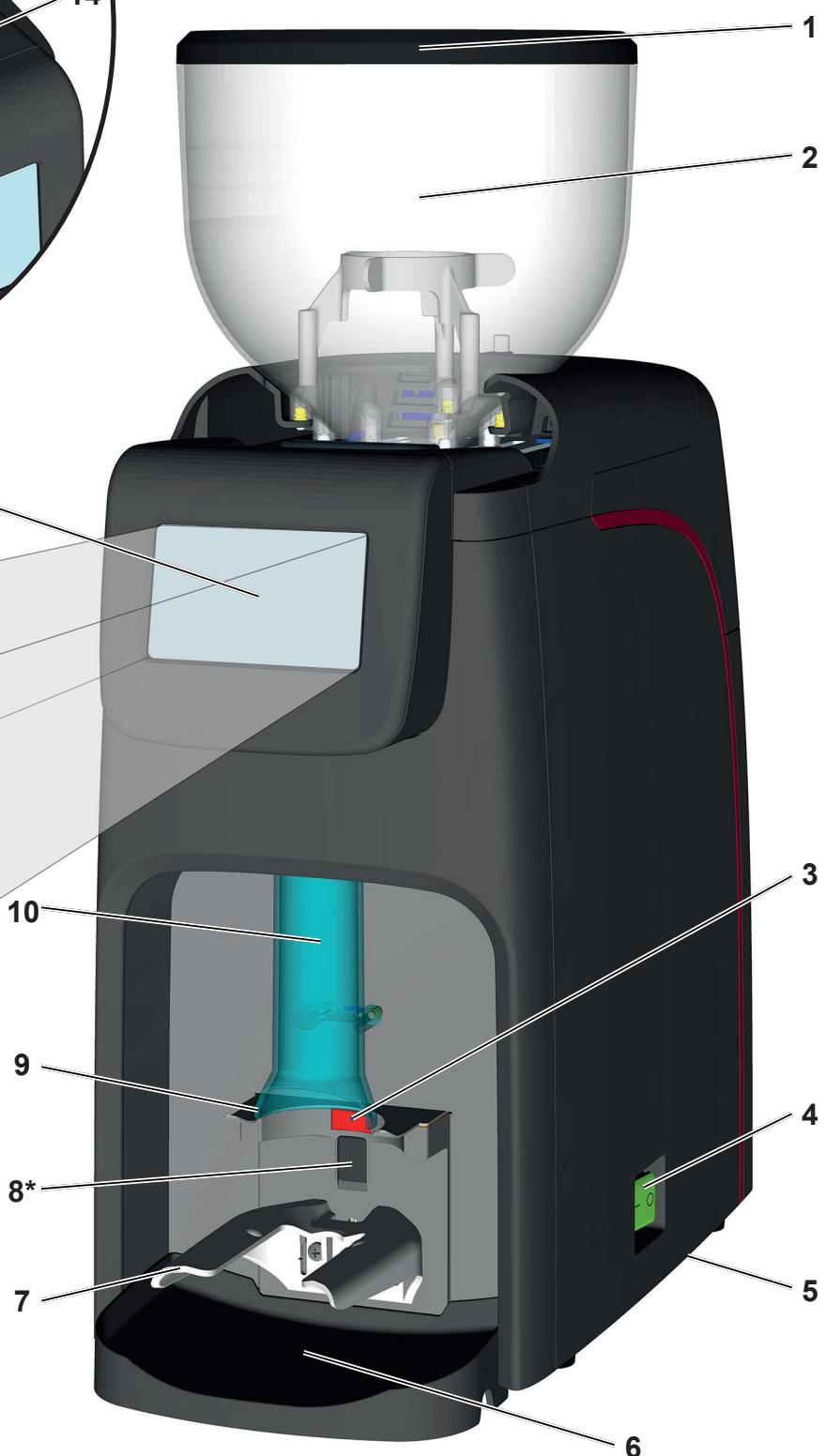
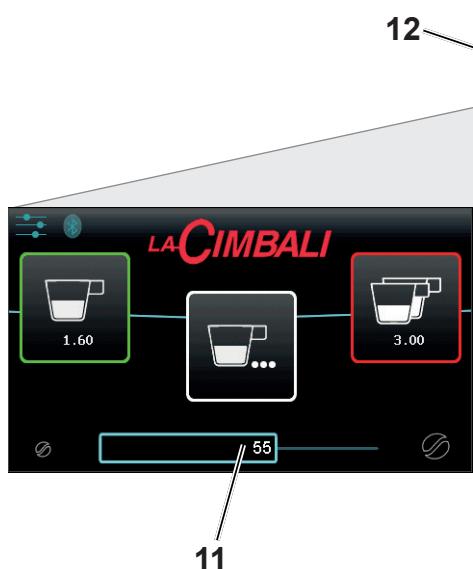
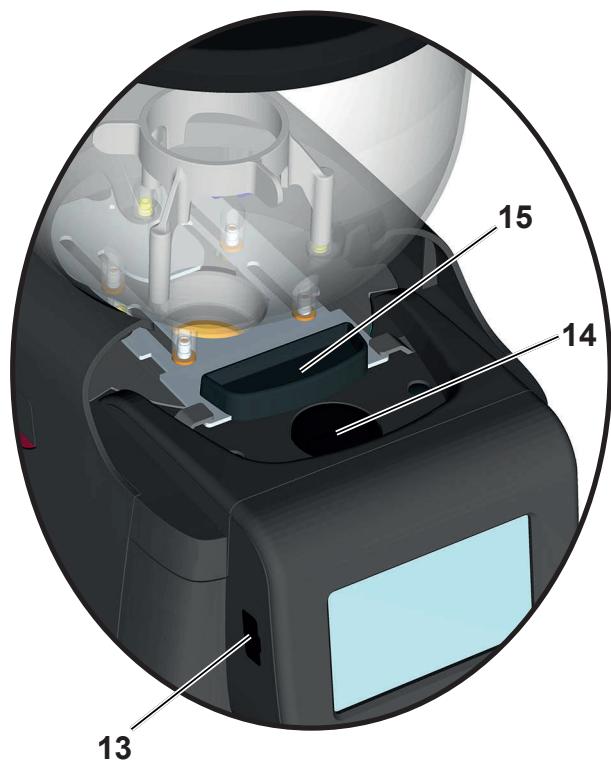
<https://order.gruppocimbali.com/explorer/spareparts/page/login>

User ID: guest  
PW: Entr@nc3

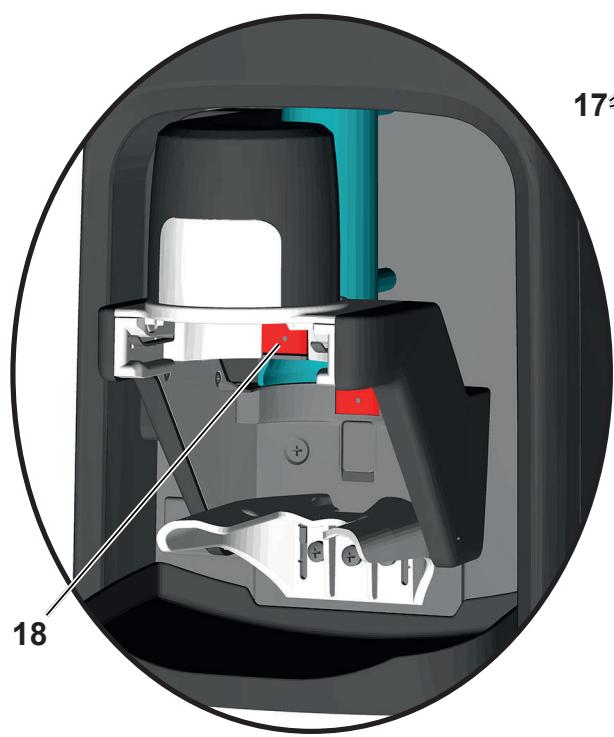
 GRUPPO CIMBALI

Please sign in

## ELECTIVE



ELECTIVE TAMPER



16

17

18



**IT LEGENDA**

- 1 Coperchio tramoggia
- 2 Tramoggia caffè in grani
- 3 Sensore presenza portafiltro
- 4 Interruttore generale
- 5 Targa dati
- 6 Vassoio raccolta macinato
- 7 Forcella supporto portafiltro
- 8\* Sensore riconoscimento portafiltro
- 9 Forcelle di sostegno metalliche
- 10 Condotto caffè macinato
- 11 Indicatore riferimento macinatura
- 12 Display "Touch Screen"
- 13 Ingresso USB
- 14 Tappo d'ispezione condotto caffè
- 15 Serranda tramoggia
- 16\* Pressino
- 17\* Guide portafiltro (pressatura caffè)
- 18\* Sensore presenza portafiltro (pressatura caffè)

I componenti - \* - sono applicati solo in alcune configurazioni di prodotti.

**EN LEGEND**

- 1 Receptacle lid
- 2 Coffee beans receptacle
- 3 Filter-holder presence sensor
- 4 On-off switch
- 5 Data label
- 6 Ground coffee collection tray
- 7 Filter basket bracket
- 8\* Filter-holder recognition sensor
- 9 Metal support forks
- 10 Ground coffee duct
- 11 Grinding reference indicator light
- 12 "Touch Screen" Display
- 13 USB Port
- 14 Coffee duct inspection cap
- 15 Receptacle door
- 16\* Coffee tamper
- 17\* Filter holder guides (coffee pressing)
- 18\* Filter-holder presence sensor (coffee pressing)

The components - \* - are applied only in some produit configurations

**FR LEGENDE**

- 1 Couvercle trémie
- 2 Trémie café en grains
- 3 Capteur de présence porte-filtre
- 4 Interrupteur général
- 5 Plaquette d'informations
- 6 Plateau de recueil du café moulu
- 7 Fourche support porte-filtre
- 8\* Capteur de reconnaissance porte-filtre
- 9 Fourches métalliques de soutien
- 10 Conduit de café moulu
- 11 Indicateur de référence du moulage
- 12 Ecran "Touch Screen"
- 13 Porte USB
- 14 Bouchon d'inspection conduit café
- 15 Fermeture trémie
- 16\* Pressoir
- 17\* Guides porte-filtre (pressage café)
- 18\* Capteur de présence porte-filtre (pressage café)

Les composants - \* - sont montés seulement dans quelques configurations de produits

**DE LEGENDE**

- 1 Abdeckung Trichter
- 2 Trichter zur Kaffeebohneneinfüllung
- 3 Erhebungssensor Filterhalter
- 4 Hauptschalter
- 5 Typenschild
- 6 Tablett zur Sammlung des gemahlenen Kaffees
- 7 Filterhaltergabel
- 8\* Erkennungssensor Filterhalter
- 9 Gabelstücke aus Metall
- 10 Leitung gemahlener Kaffee
- 11 Bezugsmarke Mahlwerk
- 12 Display "Touch Screen"
- 13 USB-Port
- 14 Kontrollstopfen Kaffeleitung
- 15 Trichterverriegelung
- 16\* Andräcker
- 17\* Filterhalter Führungsschiene (Kaffeepressing)
- 18\* Erhebungssensor Filterhalter (Kaffeepressing)

Bauteile - \* - sind nur bei einigen Produkt-Konfigurationen angebracht

**ES LEYENDA**

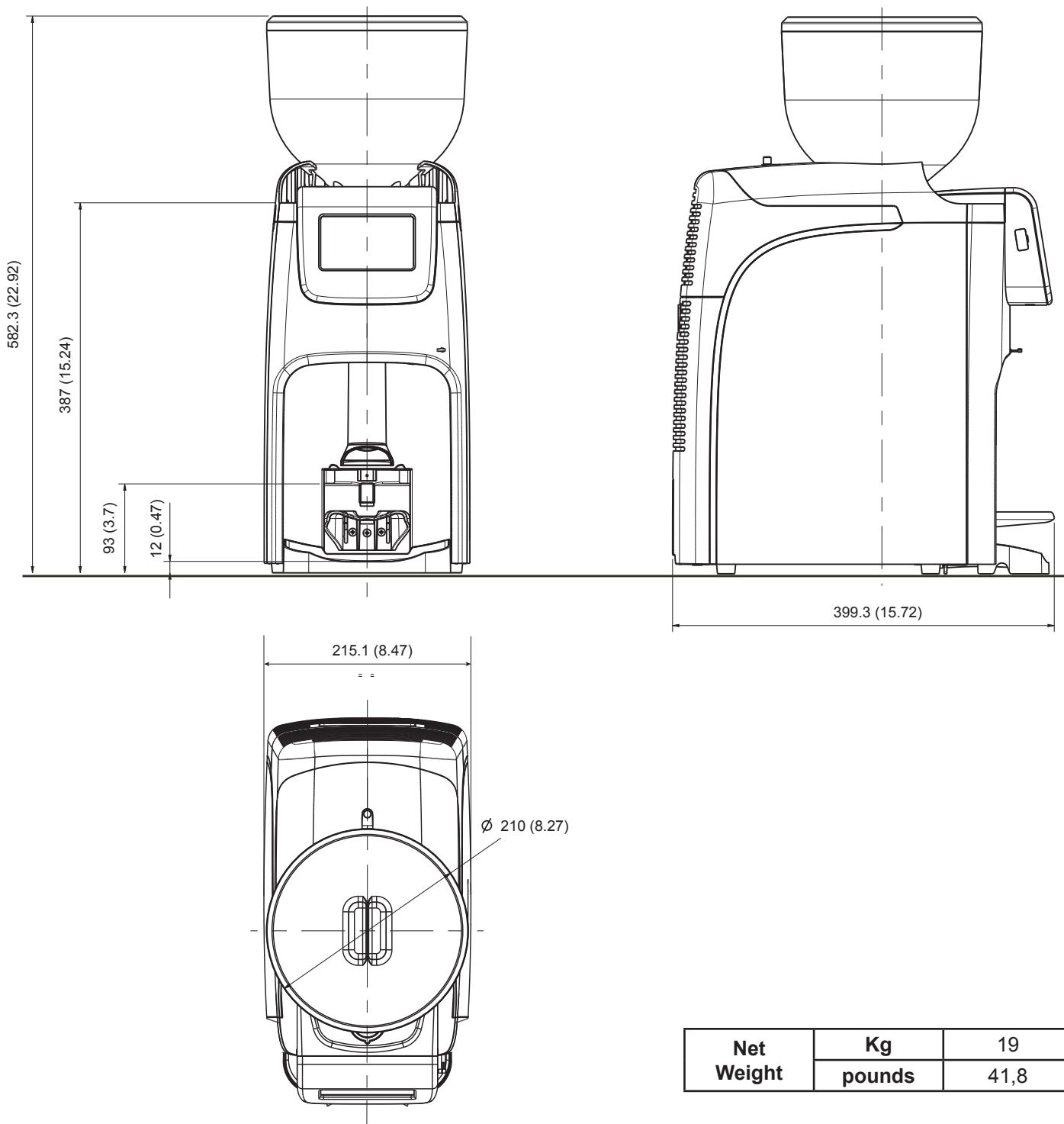
- 1 Tapadera tolva
- 2 Tolva café en granos
- 3 Sensor presencia portafiltro
- 4 Interruptor general
- 5 Tarjeta datos
- 6 Bandeja recogida café molido
- 7 Horquilla soporte portafiltro
- 8\* Sensor reconocimiento portafiltro
- 9 Horquillas de sujeción metálicas
- 10 Conducto café molido
- 11 Indicador referencia café molido
- 12 Display "Touch Screen"
- 13 Puerto USB
- 14 Tapón de inspección conducto café
- 15 Cierre tolva
- 16\* Prensa
- 17\* Guías portafiltro (prensado café)
- 18\* Sensor presencia portafiltro (prensado café)

Los componentes - \* se aplican sólo en algunas configuraciones de productos

**PT LEGENDA**

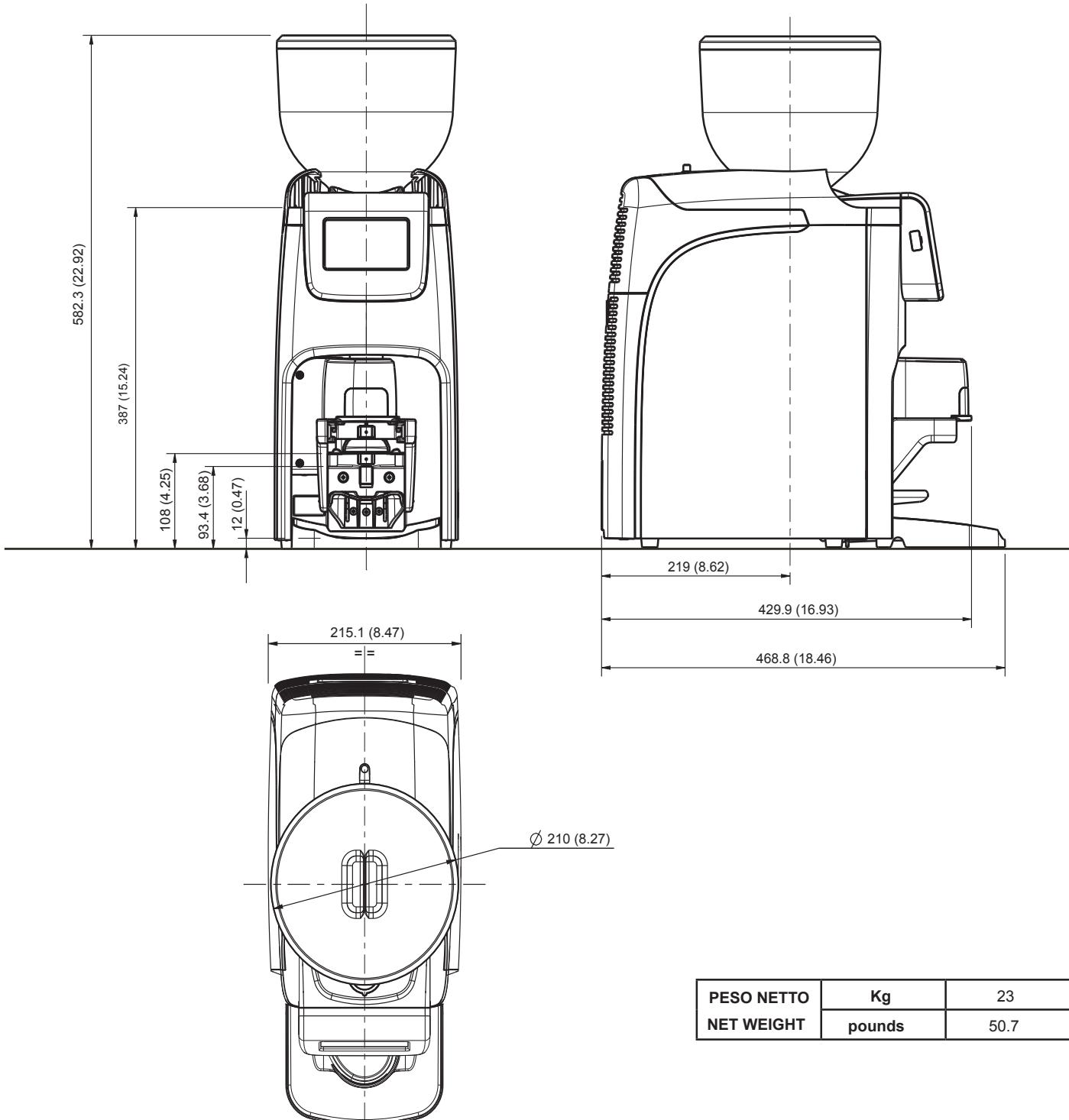
- 1 Tampa tremonha
- 2 Tremonha café em grão
- 3 Sensor de presença do porta-filtro
- 4 Interruptor geral
- 5 Placa dados
- 6 Tabuleiro recolha café moído
- 7 Forquilha suporte porta-filtro
- 8\* Sensor de reconhecimento do porta-filtro
- 9 Garfos de suporte metálicos
- 10 Conduto do café moído
- 11 Indicador de referência moedura
- 12 Display "Touch Screen"
- 13 Porta USB
- 14 Tampão de inspeção da conduto do café
- 15 Grade tremonha
- 16\* Pisa-café
- 17\* Guias porta-filtro (calcamento do café)
- 18\* Sensor de presença do porta-filtro (calcamento do café)

Os componentes - \* - são aplicados só em algumas configurações de produtos.



<b>Net Weight</b>	<b>Kg</b>	19
	<b>pounds</b>	41,8

MACINADOSATORE GRINDER/DISPENSER	ALIMENTAZIONE ELETTRICA POWER SUPPLY	POTENZA INSTALLATA INSTALLED POWER	SERVIZIO MOTORE DUTY CYCLE	SEZIONE CAVO ALIMENTAZIONE SUPPLY CABLE SECTION
	200 - 240 V 50/60 Hz	320 W	15s ON / 20s OFF	min. 3 x 0,75 mm <sup>2</sup>



PESO NETTO NET WEIGHT	Kg pounds	23 50.7
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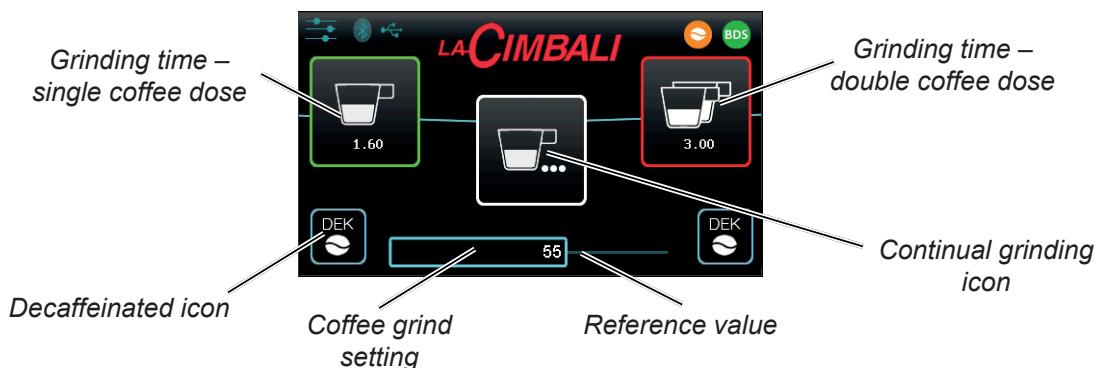
MACINADOSATORE GRINDER/DISPENSER	ALIMENTAZIONE ELETTRICA POWER SUPPLY	POTENZA INSTALLATA INSTALLED POWER	SERVIZIO MOTORE DUTY CYCLE	SEZIONE CAVO ALIMENTAZIONE SUPPLY CABLE SECTION
	200 - 240 V 50/60 Hz	320 W	15s ON / 20s OFF	min. 3 x 0,75 mm <sup>2</sup>

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## Description display symbols



The times set for (single and double) coffee doses are shown on the display as well as a bar that indicates the grind setting and the respective reference value.

Bluetooth connection symbol:  
BLUE = connected to Bluetooth network

Maintenance due

USB port present

Warning symbol (notification)

(1) Indicates the grinder/dispenser number

Warning symbol (malfunction)

Lack of coffee (notice)

DEK Decaffeinated icon

BDS (Barista Driving System) symbol:  
GREEN = system on stand-by  
RED = grinder/dispenser locked by BDS

DEK Decaffeinated icon (grinder/dispenser locked)

Note. The dose icons , , can be customised.  
The following references are fixed:



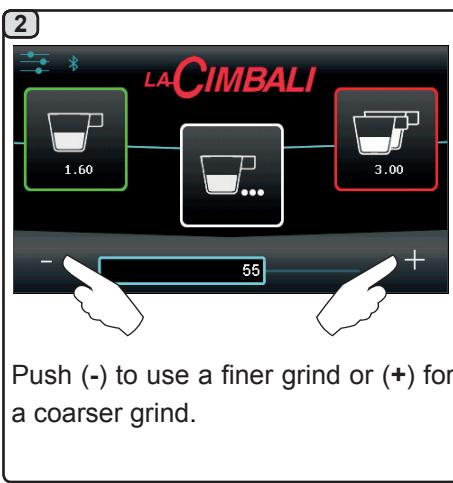
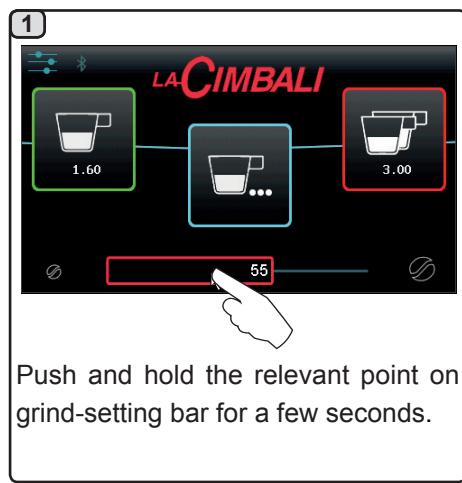
example 1

left: single dose, green;  
right: double dose, red;  
central: continual grinding, white.



example 2

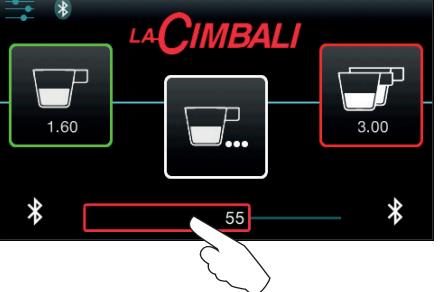
left: double dose, yellow;  
right: continual grinding, white.  
central: single dose, blue.

**Grinder adjustment**

N.B.: grinding level is changed within a pre-set limit with increments of 1 with respect to the set value.

English

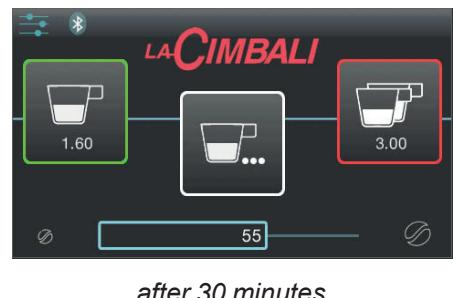
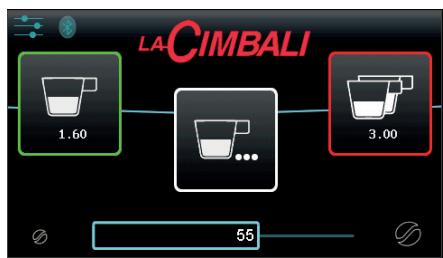
The manual adjustment of the grinders is not possible in the following cases:

<b>1</b> <b>If the “user MENU” is not enabled</b>  <p>Pressing on the bar makes the lock symbols appear :</p>	<b>2</b> <b>If grinding control via bluetooth is enabled</b>  <p>Pressing on the bar makes the symbols appear :</p>
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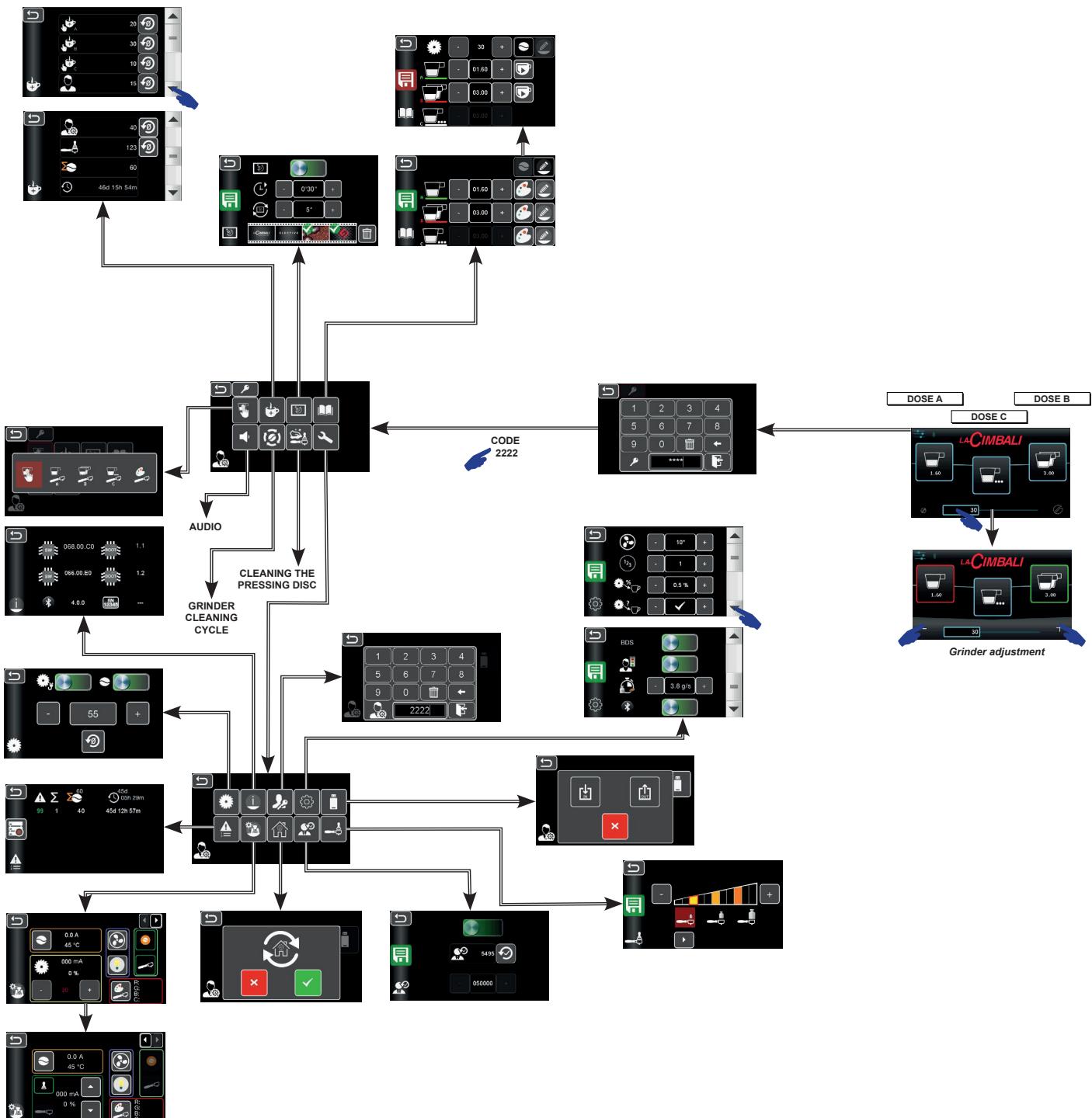
**Display Brightness**

After a period of inactivity the display brightness is reduced, first after 30 minutes of inactivity and then again after 60 minutes.

Full brightness resumes at first use.



## Data flow chart - Technician programming



- Push the desired icon to select.
- Push the icon to confirm any changes made to the values .
- Push the icon to leave the values unchanged and return to the previous screen.
- After a few seconds of inactivity the main screen will appear on the display .

# TECHNICIAN PROGRAMMING

Access to "USER MENU" programming inactive

English

Access the programming menu by pressing:

1) the key :



*Only if "USER MENU" inactive.*



2) typing the password and pressing :



Return to the previous menu or exit the programming menu by pressing the key .

## Access to "USER MENU" programming active

Access the programming menu by pressing:

1) the key  :

*Only if "USER MENU" active.*



2) the key  :



3) typing the password and pressing  :

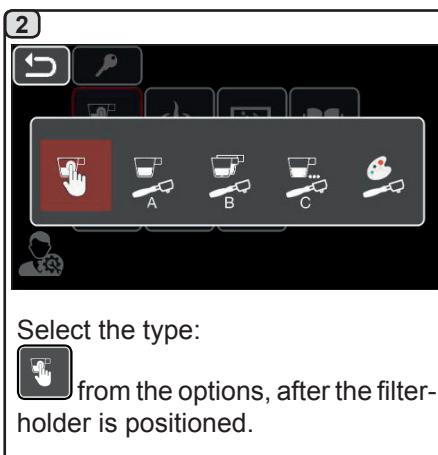
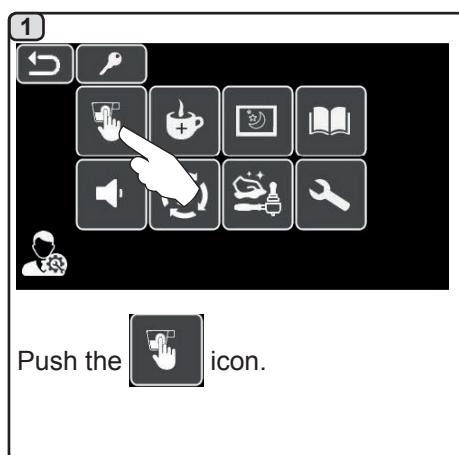


Return to the previous menu or exit the programming menu by pressing the key .

# TECHNICAL MENU

English

## Pre-selection



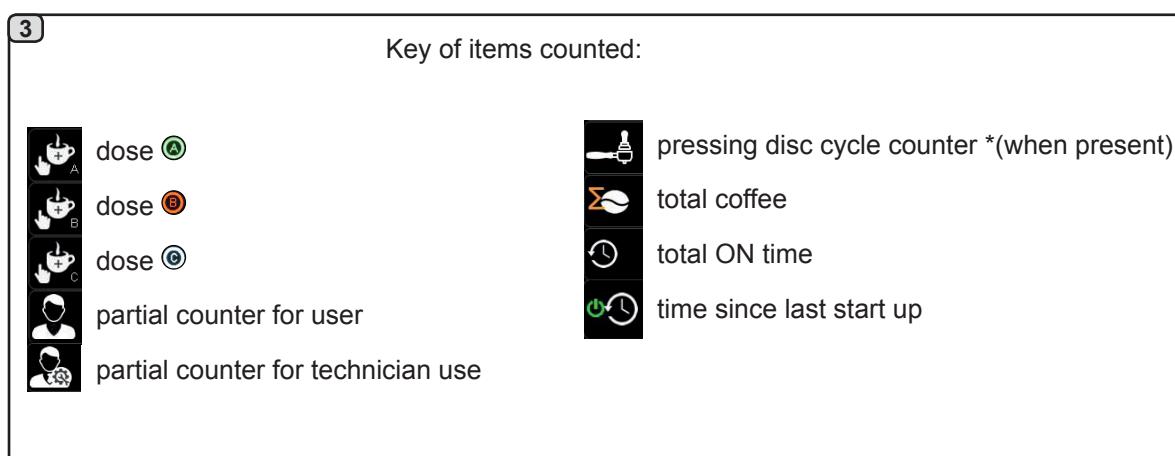
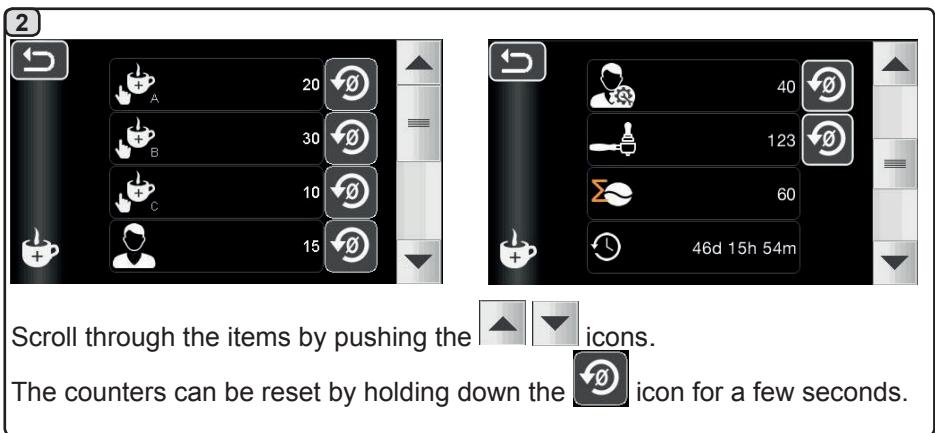
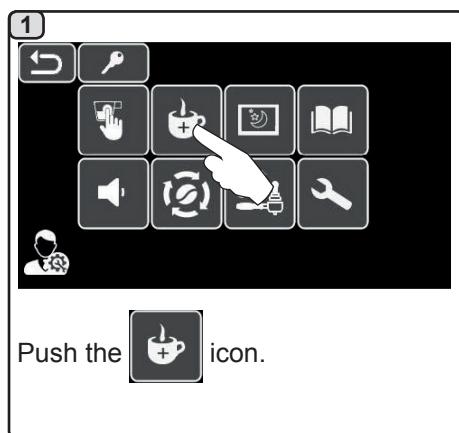
the single dose is dispensed as soon as the filter-holder is positioned;

the double dose is dispensed as soon as the filter-holder is positioned;

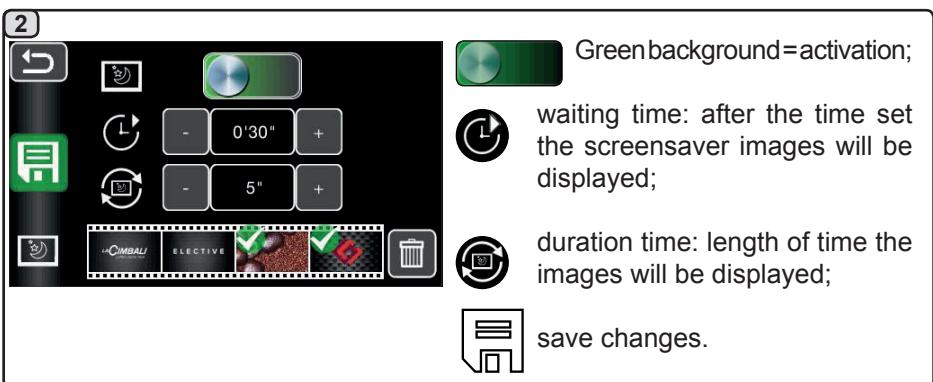
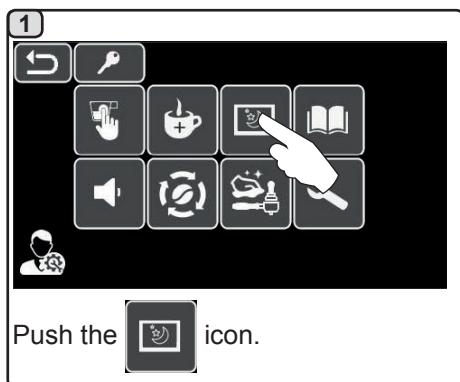
grinding continues after the filter-holder is positioned.

automatic recognition of the filter holder based on colour.

## Counters



## Screensaver



## Screensaver - Logo

The standard Cimbali logos are shown on the grinder/dispenser display after a period of inactivity which can be defined on the "Screensaver" menu.  
The grinder/dispenser is supplied with the logos shown in the pictures:



The user can add further (1 or 2) custom logos to the display.

To create a customised logo, proceed as follows:

1 Using any graphics program (e.g. Paint), create a file that meets certain characteristics; the prerequisites for bitmap images to be used as a logo are:

**CustImg1.bmp**

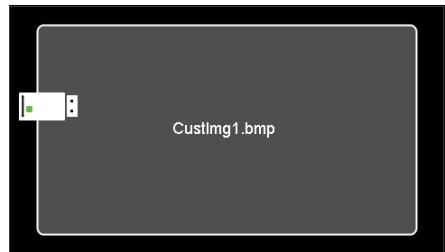
- width equal to **480 pixels**;
- height equal to **272 pixels**;
- colour **bmp 24 bit**.

Copy the "**CustImg1.bmp**" and/or "**CustImg2.bmp**" files that you want to display onto a USB pen drive.

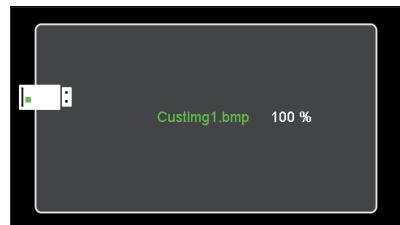
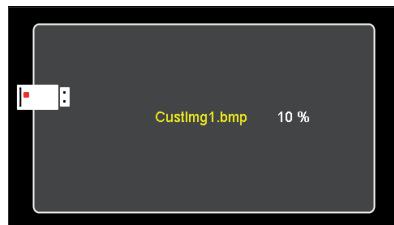
2 Insert the USB pen drive in the port on the grinder/dispenser:



The name of the file to be uploaded will appear on the display:



3 Select the name on the display and wait for the file to load:



4

Once loading is complete, remove the USB pen drive from the grinder/dispenser.

Now the customised logo will appear according to the settings selected in the dedicated menu.

Note: if the screensaver is activated, the logos can be seen immediately, without waiting for the period of inactivity, by pressing the brand name on the display:



### **Screensaver - Managing customised Logos: display**

To be able to display the customised logos loaded by the user ("CustImg1.bmp" and/or "CustImg2.bmp") as Screensavers, it is necessary for the images to be associated with a tick .

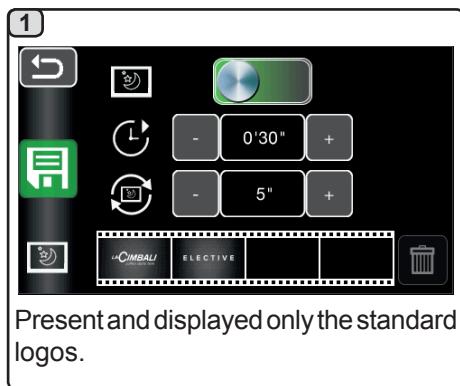
Vice versa, if they bear the sign "X"  they will not appear on the display.

To alternate the tick  and "X"  signs it is sufficient to press on the image.

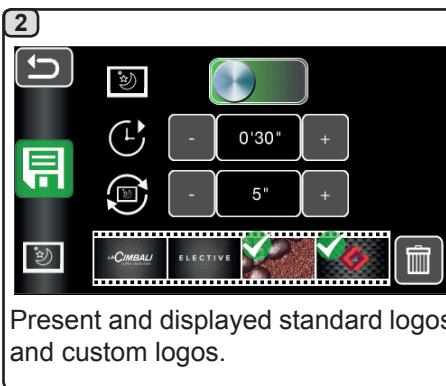


*CustImg1.bmp*      *CustImg2.bmp*

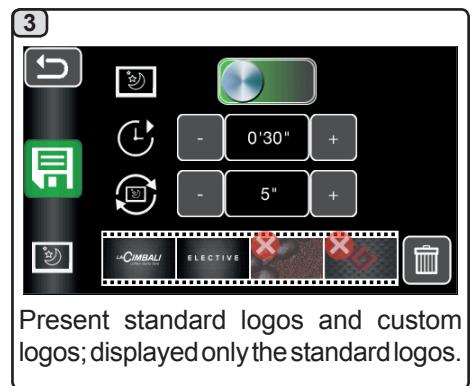
By way of explanation a few examples are presented below:



Present and displayed only the standard logos.



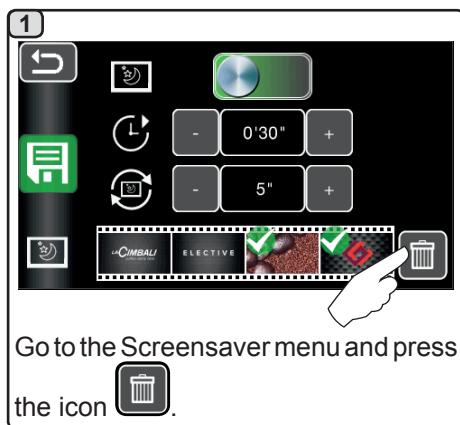
Present and displayed standard logos and custom logos.



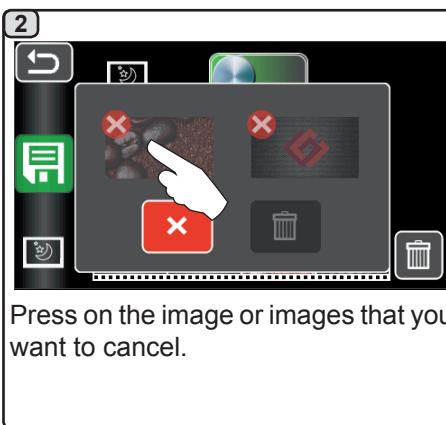
Present standard logos and custom logos; displayed only the standard logos.

### **Screensaver - Managing customised Logos: cancellation**

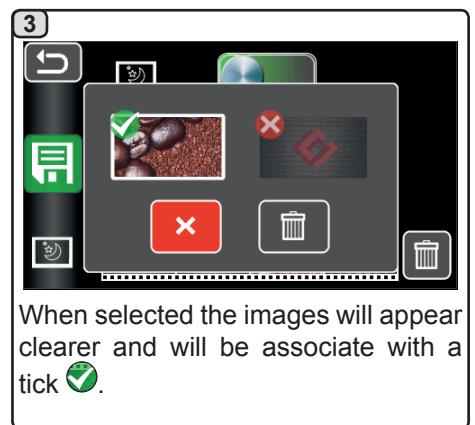
To be able to eliminate custom logos loaded previously by the user ("CustImg1.bmp" and/or "CustImg2.bmp"), proceed as indicated below:



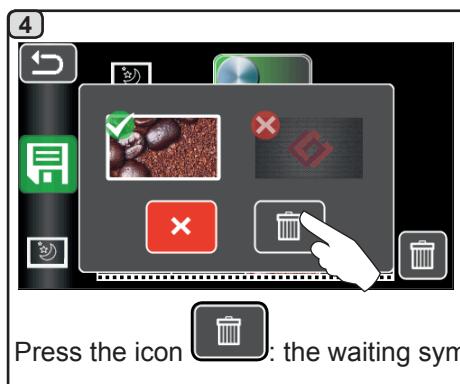
Go to the Screensaver menu and press the icon .



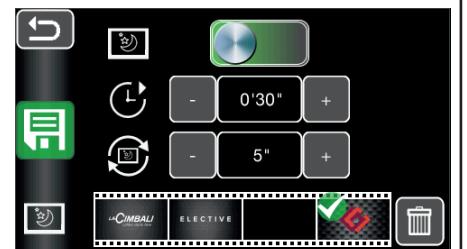
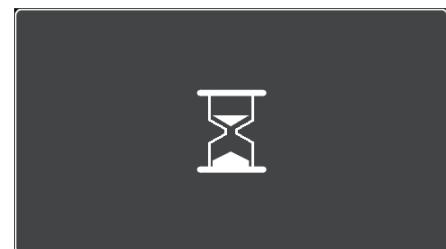
Press on the image or images that you want to cancel.



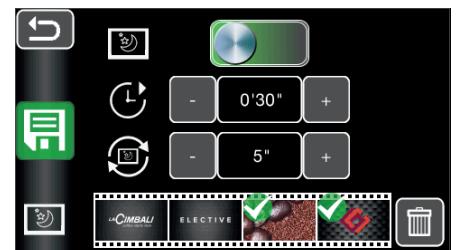
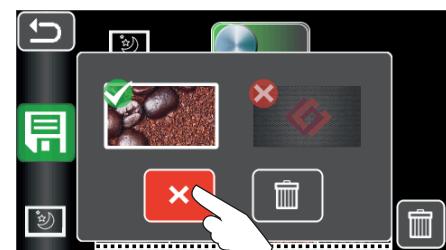
When selected the images will appear clearer and will be associate with a tick .

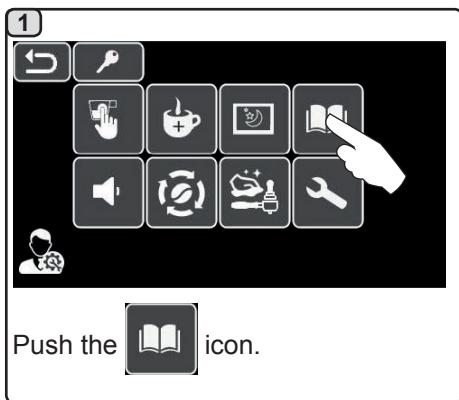


Press the icon : the waiting symbol will appear for a few moments and the images chosen will be cancelled.



NOTE. Press the icon  to cancel the operations and go back to the Screensaver menu.

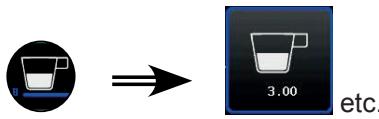


**Doses - Grinders - Tests**

Push to change the grinding times.

Push the icon to change the colours associated with the doses.  
Example:

Push the icon to change key type:  
-single -double -continuous -disabled.



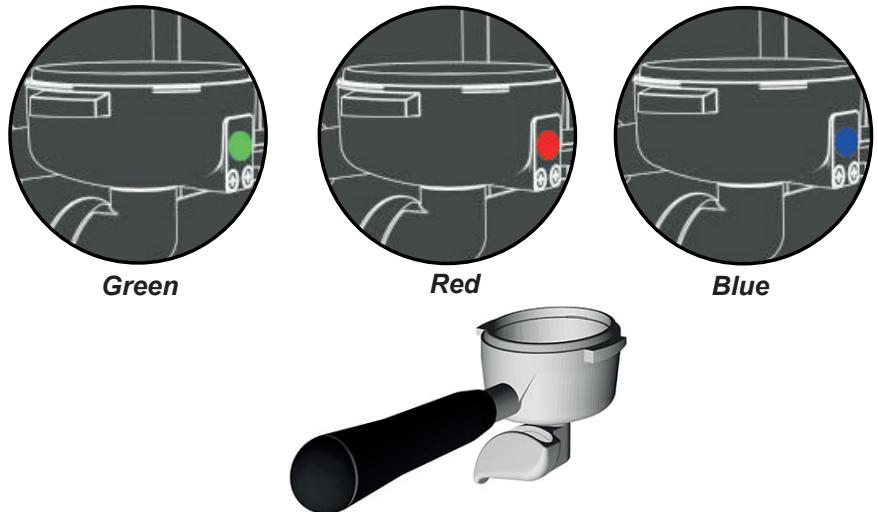
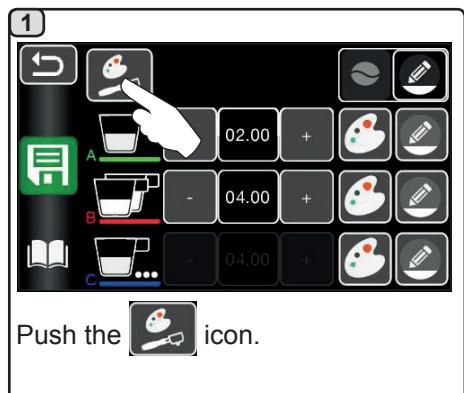
etc.

Push the icon to test the doses and, if necessary, adjust the grinders.

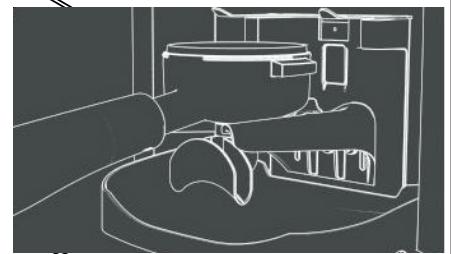
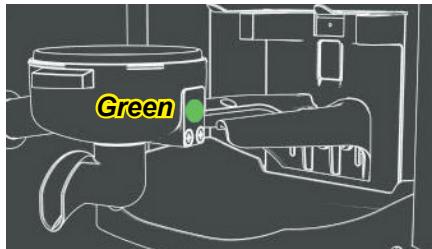
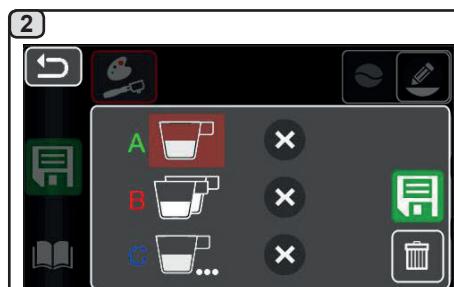
Push the icon by to reduce or increase the grinding gauge.

Push the icon to test the dose keys. Save any changes made by pushing .

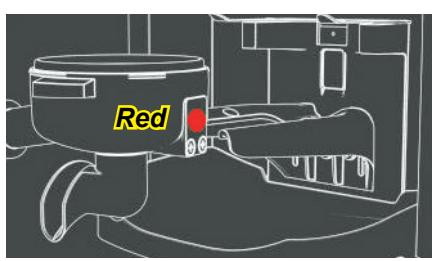
**Filter holder colour association**



**Example**



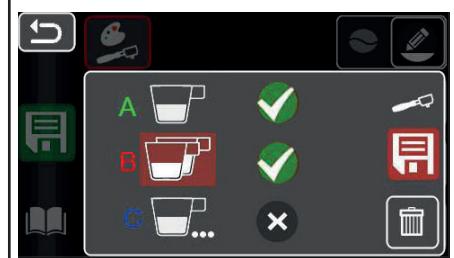
The filter holder will be recognised automatically by the colour sensor.



The filter holder will be recognised automatically by the colour sensor.

Push the [filter holder] icon.

Position the double dose filter holder in the guider for colour recognition.



After completing operations confirm the values by pushing the [document] key or exit and leave the previous data using the [exit] key.



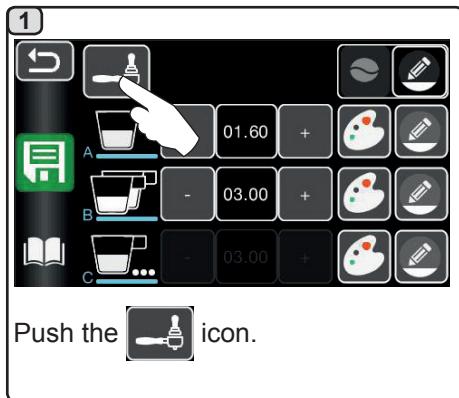
Filter-holder recognition;



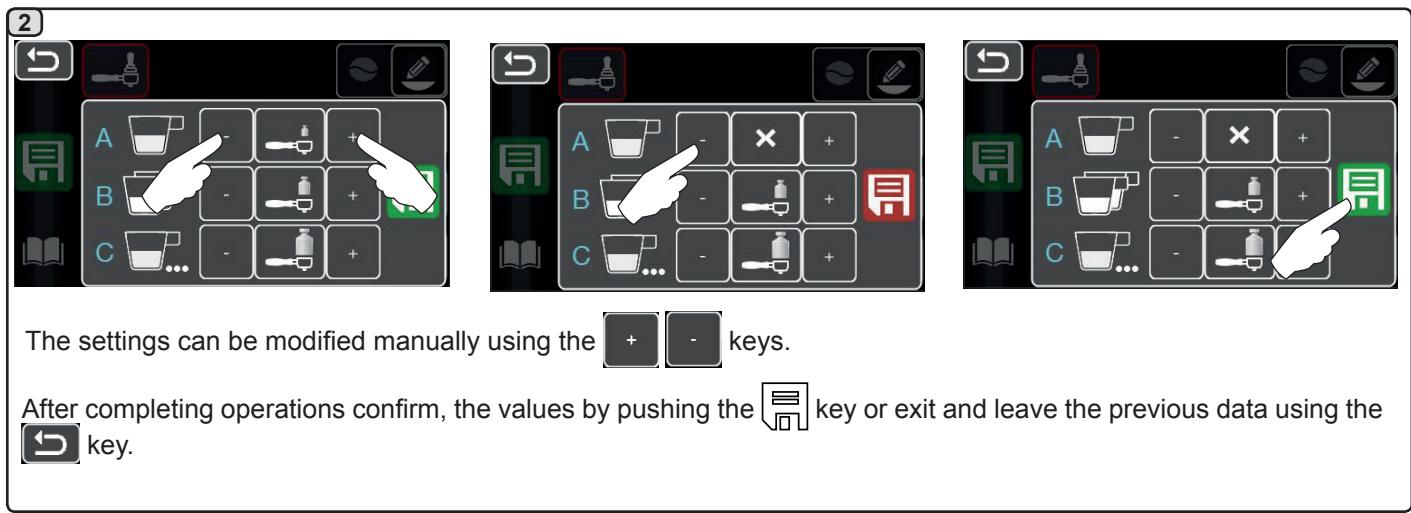
cancel operation (Reset);



colour recognition.

**Key/pressing disc association**

English

**Programmable pressing levels with the possibility to associate key/pressing.**

- minimum pressing;
- average pressing;
- maximum pressing;
- pressing not active.

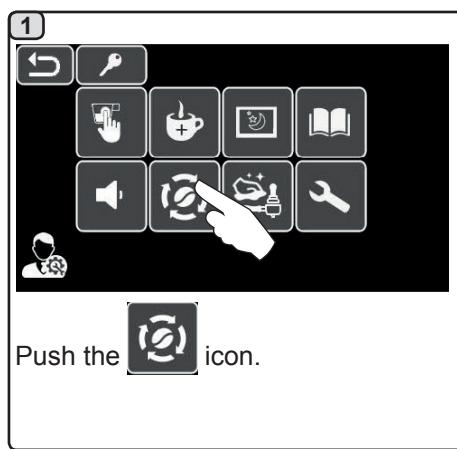
**Audio**

audio on

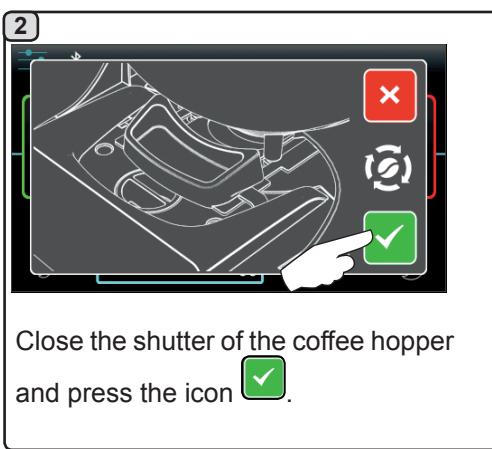


audio off

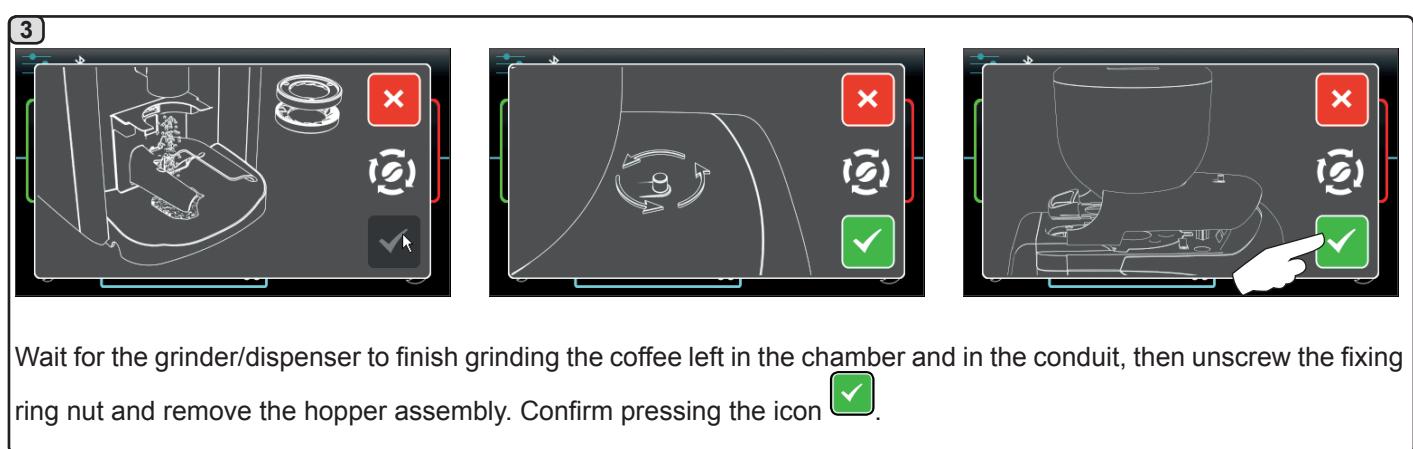
Press the icons / respectively to deactivate or activate the acoustic signals of the grinder/dispenser.

**English****Grinder cleaning (Operations to be carried out every 2 weeks).**

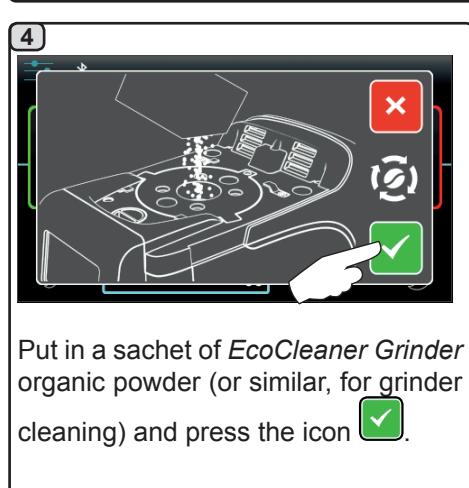
Push the icon.



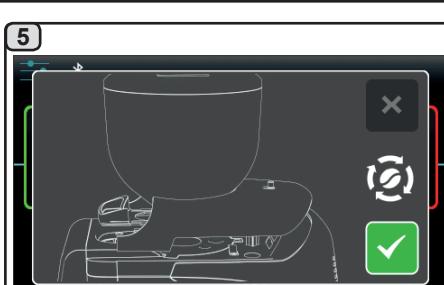
Close the shutter of the coffee hopper and press the icon .



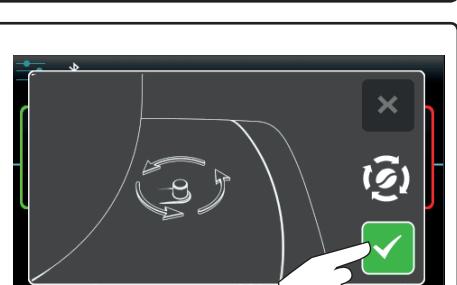
Wait for the grinder/dispenser to finish grinding the coffee left in the chamber and in the conduit, then unscrew the fixing ring nut and remove the hopper assembly. Confirm pressing the icon .

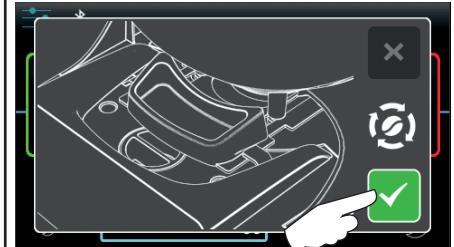
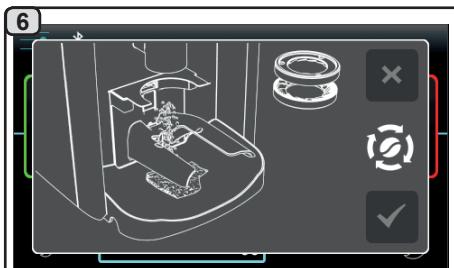


Put in a sachet of *EcoCleaner Grinder* organic powder (or similar, for grinder cleaning) and press the icon .

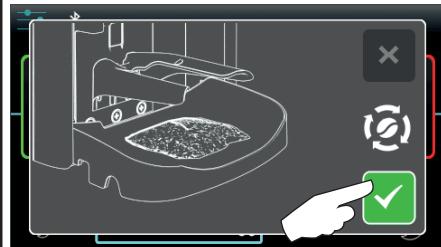
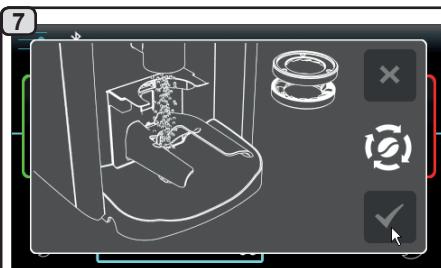


Reposition the hopper assembly and screw up the fixing ring nut. Confirm pressing the icon .

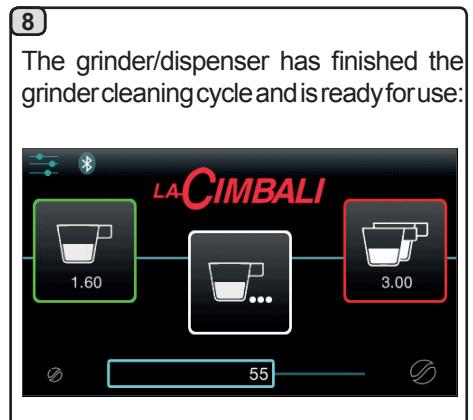




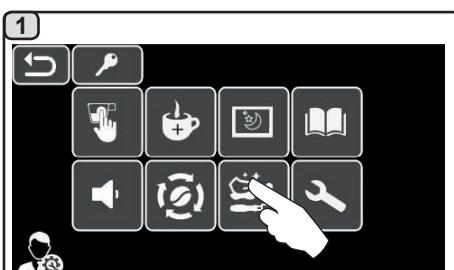
Wait for the grinding of the organic powder, then open the shutter of the coffee hopper. Confirm pressing the icon .



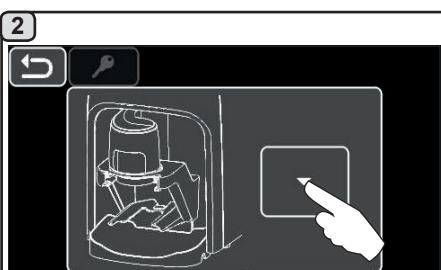
Wait for the grinding of a small dose of coffee that must be eliminated, then confirm pressing the icon .



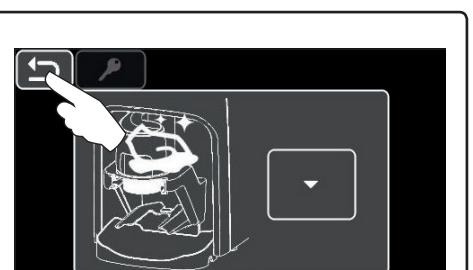
**Pressing disc cleaning (when present)** (This operation must be carried out at the end of the working day).



Press the icon.



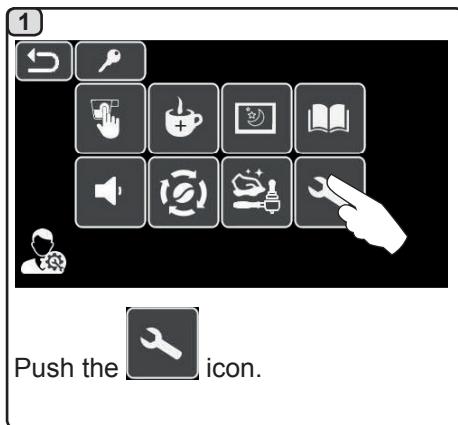
Press the icon to lower the motorised pressing disc; then carry out cleaning operations.



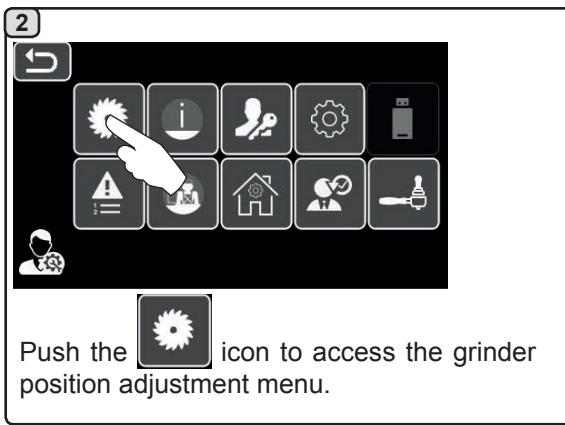
At the end of the cleaning operations press the icon to exit. The pressing disc will automatically return to the resting position.

**Grinder position adjustment**

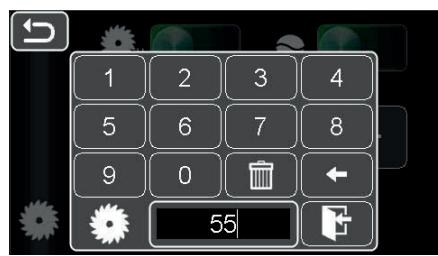
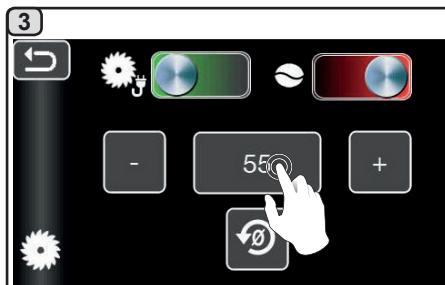
English



Push the icon.



Push the icon to access the grinder position adjustment menu.



The grinder position values can be changed using the keys.

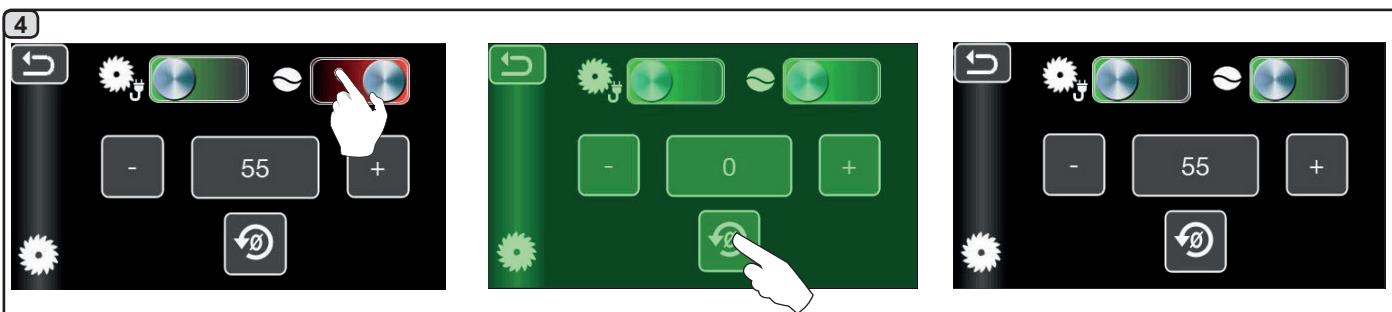
Alternatively, push a value and the numeric keyboard will appear. Insert the desired value and confirm it with the key.

**Grinders** - (grind position in "notches", from the min/max that can be set).

Grinder adjustment motor power supply: YES / NO.

Grinding machine motor activation: YES / NO.

grind position reset and open icon.

**Zero grinders**

To zero the grinders, move the switch from the red to the green background.

Push the icon until the grinders are just touching.

At this point push the icon for a few seconds to perform a reset and automatic opening at the standard value.

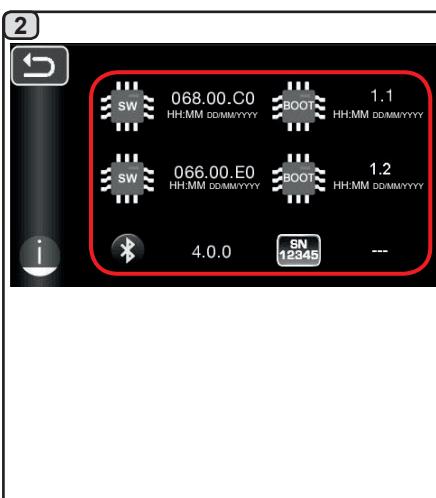
To set zero grinders without automatic opening, carry out a reset with the grinder adjustment motor power supply switch set to OFF .

Note: this operation can only be done if there is no coffee in the related hopper.

English

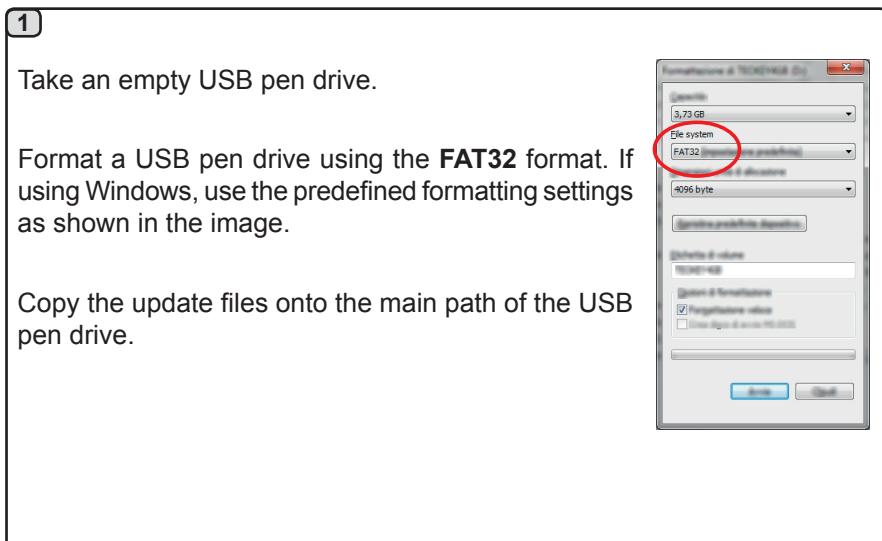
**Grinder/dispenser data info.**

Push the icon.



Key to symbols used:

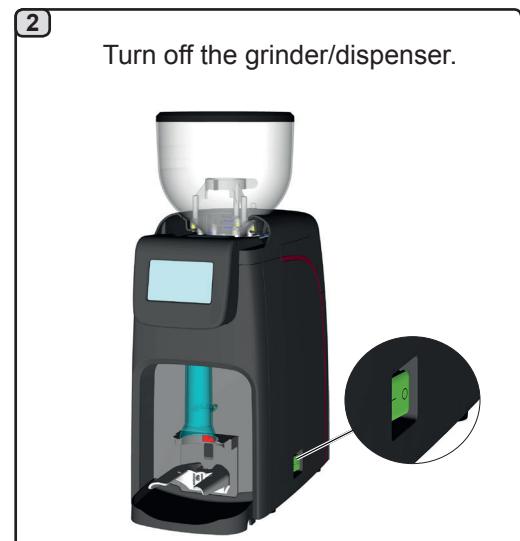
- 068.00.C0;Firmware CPU Master;
- 066.00.E0;Firmware Inverter board;
- Display; 1.1;
- Inverter; 1.2;
- Bluetooth; 4.0.0
- Serial Number; ...

**Updating software with USB pen drive**

Take an empty USB pen drive.

Format a USB pen drive using the **FAT32** format. If using Windows, use the predefined formatting settings as shown in the image.

Copy the update files onto the main path of the USB pen drive.



Turn off the grinder/dispenser.

- 3 Insert the USB pen drive, with the software update to be loaded onto the grinder/dispenser.



- 4 Turn the grinder/dispenser on again: when it restarts, the software update will begin.



Do not turn the grinder/dispenser off during the update!

- 6 When the update is complete, the display automatically restarts and the following screen appears:

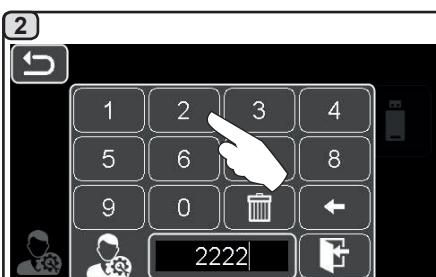


Remove the USB pen drive.

### **Password**



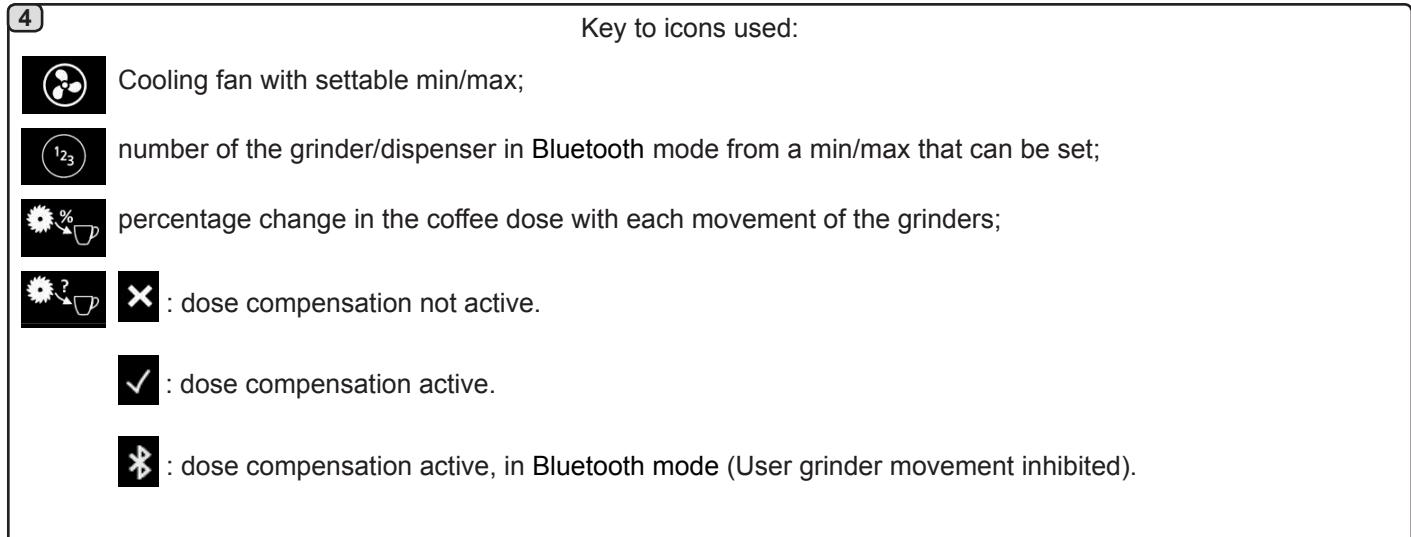
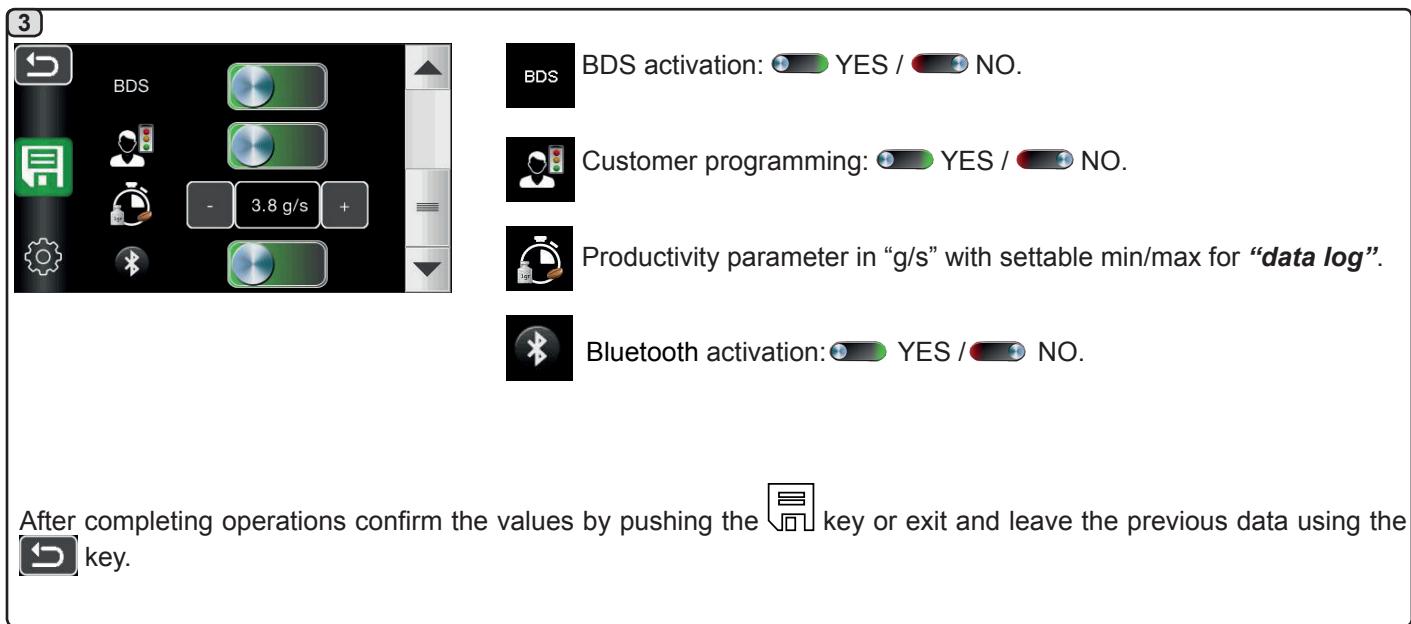
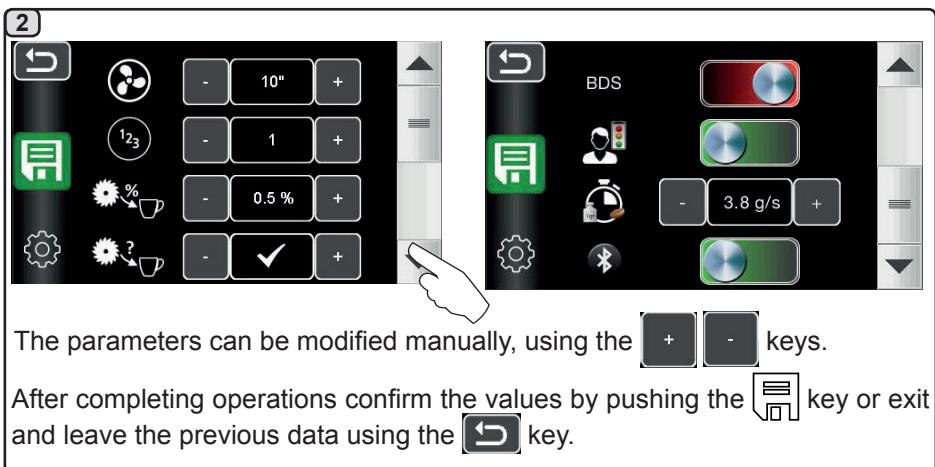
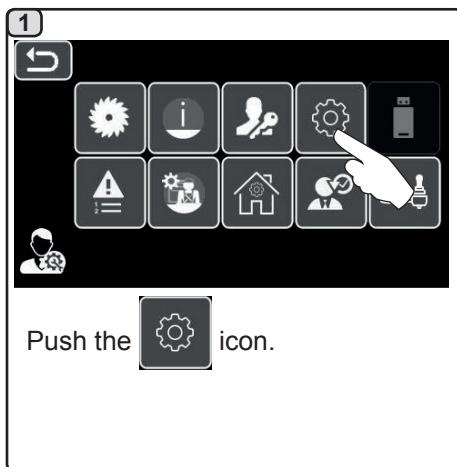
Push the  icon.



Change the password with the numeric keyboard:  
Once the password has been set, confirm the selection with the  icon.

#### **Standard Password Reset:**

- **4590** Reset the passwords.
- **7290** Reset the bluetooth module.

**Configuration**

## **BDS (Barista Driving System)**

The BDS System is composed of a coffee machine and by one or two motorised grinder/dispensers connected via Bluetooth.

Every dispensing button on the machine can be configured based on the type of recipe and the relative grinder/dispenser.

The purpose of the BDS System is to guide the user in coffee grinding and dispensing operations, making the operations simple and intuitive.

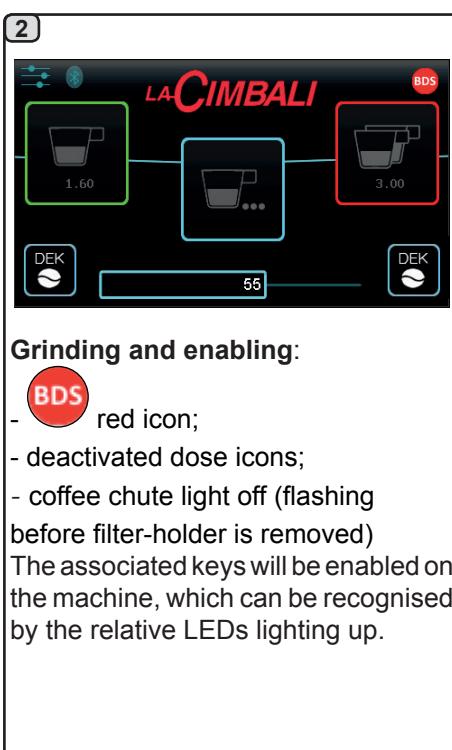
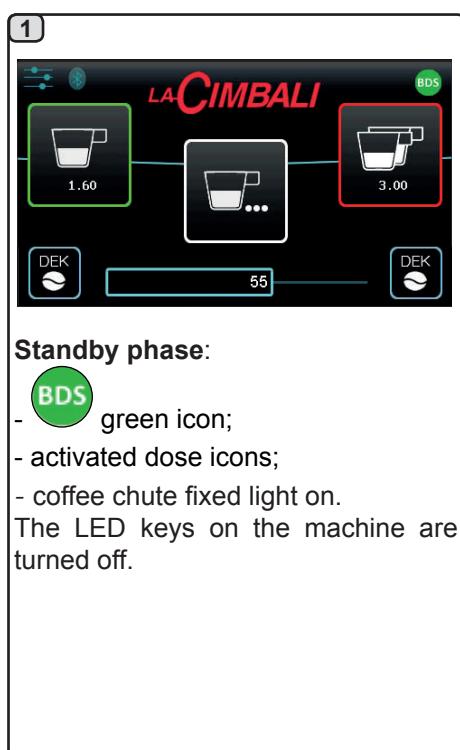


### **OPERATING LOGIC**

The barista positions the filter-holder and selects the dose.

The grinder/dispenser dispenses the correct quantity of ground coffee and at the same time signals to the machine which selection to enable for the preparation of the beverage.

The barista at this point only needs to attach the filter-holder and push the enabled key to dispense.



Dispensing will remain active for 2 minutes.

During this time, the grinder/dispenser used will be blocked and therefore unable to grind a second dose of coffee.

It will automatically release when the enabled key is pushed or when the two minutes of waiting time elapse.

**Data IN/OUT**

- 1** Insert the USB pen drive in the port on the grinder/dispenser:



**2**

◀

Push the icon.

◀

**3**

Key to icons used:

Function which makes it possible to transfer the programming data from grinder/dispenser to USB pen drive and vice versa.



to export grinder/dispenser data to a USB port (recipes, settings, custom logos, etc.)



to import data from a USB port.

**Malfunct. Archive**

**1**

◀

Push the icon.

**2**

◀

Push the icon for a few seconds to reset the malfunction archive.

◀

**3**

Key to symbols used:

malfunction code

number of occurrences

total coffee at the time of the last fault

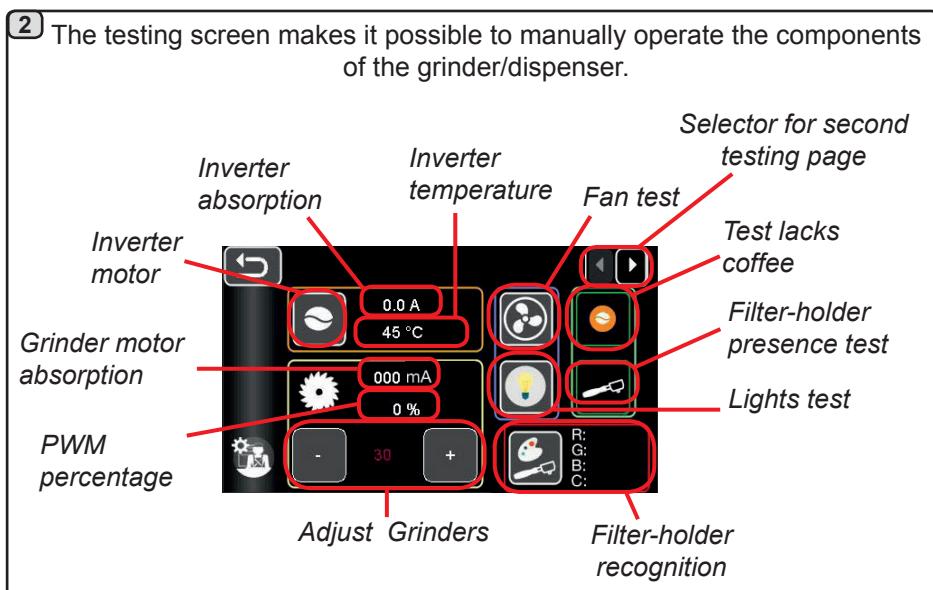
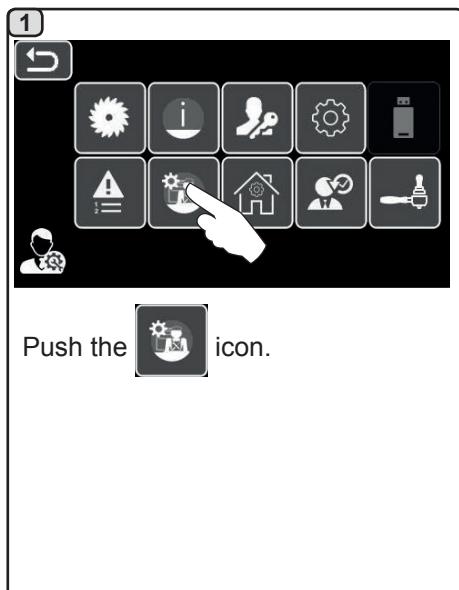
total ON time at the time of the last fault

total coffee (grinder/dispenser)

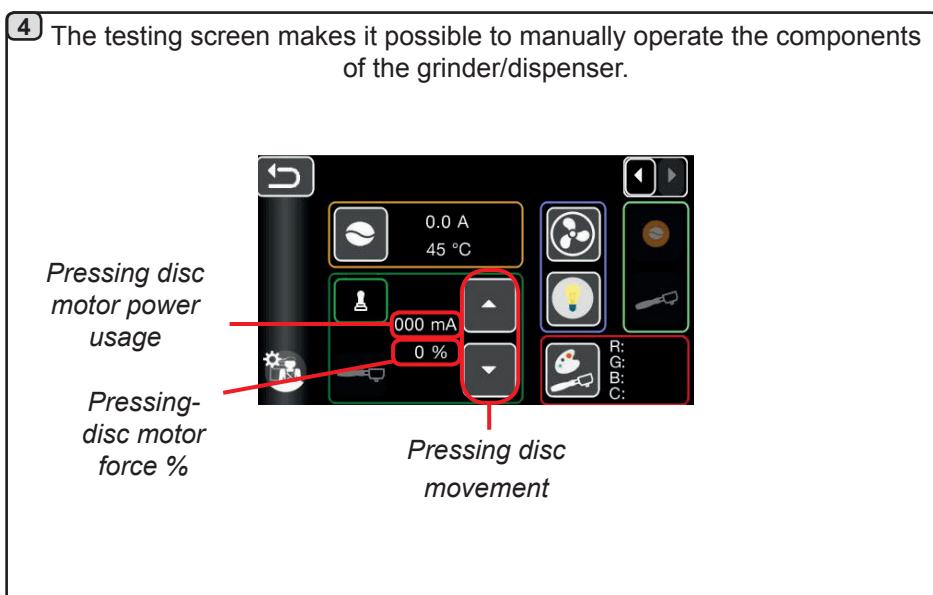
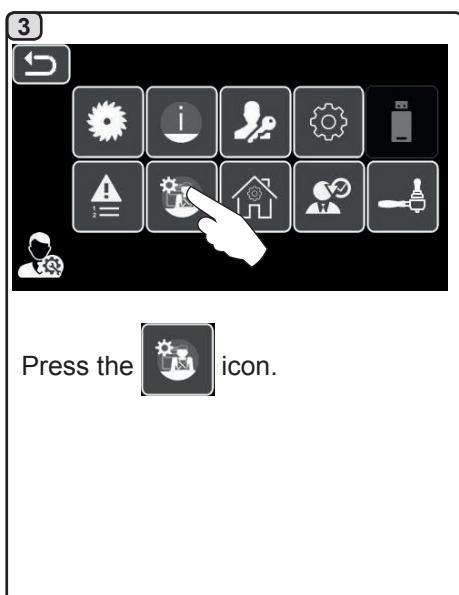
total ON time (of the grinder/dispenser)

**Note:** if the number of occurrences is indicated in red, this means that it has reached or exceeded the maximum number of occurrences displayable.

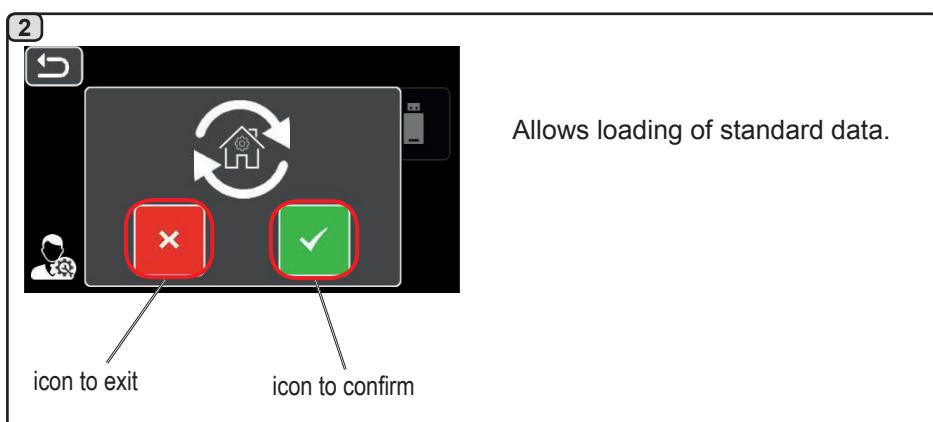
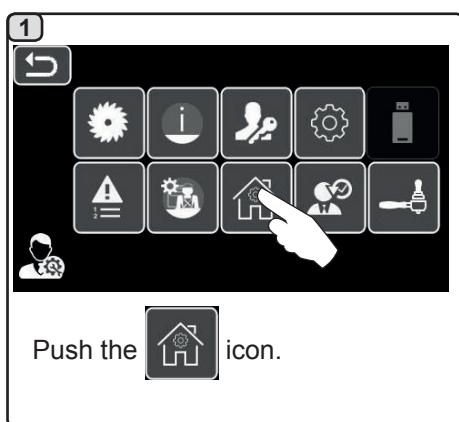
### **Manual Commands**

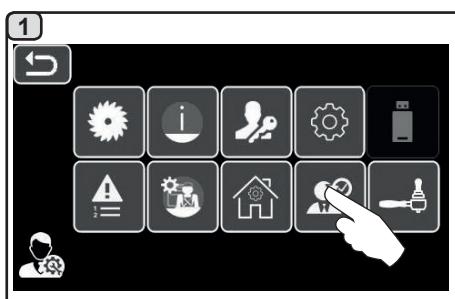


### **Automatic pressing disc Manual Commands (when present)**

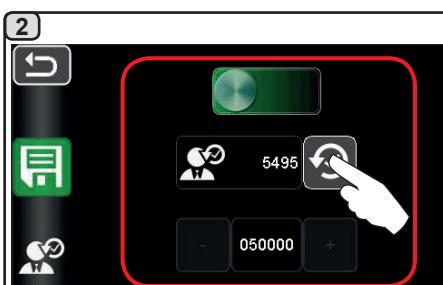


### **Standard Data**



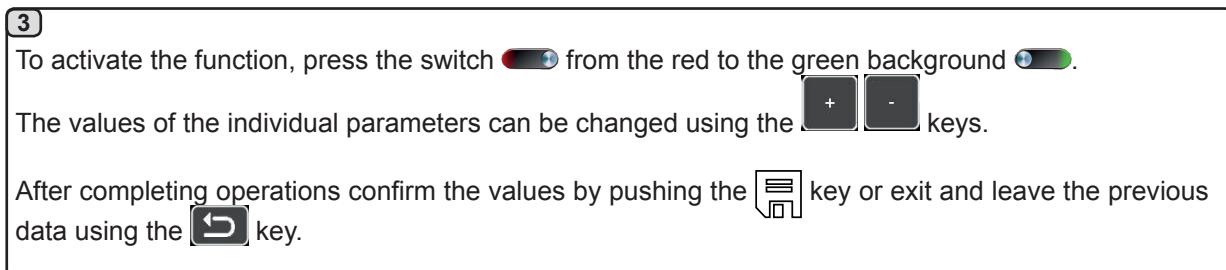
Maintenance

Push the icon.

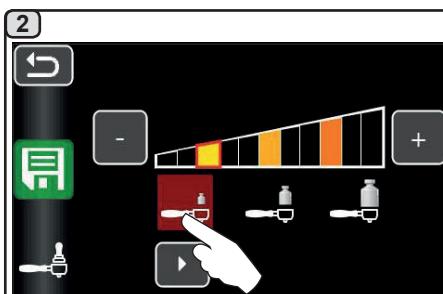


Push the symbol for a few seconds to load the number of maintenance cycles.

Max cycles - the number of cycles from a min/max that can be set.

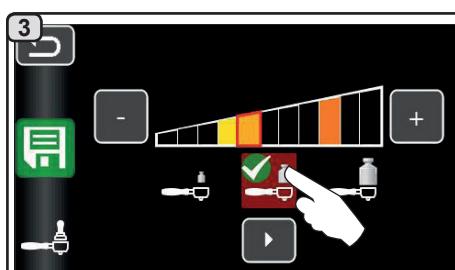
Programmable pressing levels (when present)

Press the icon.



Press the icon to modify the pressing levels.

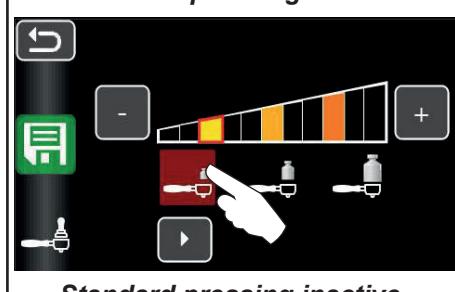
The values of the individual parameters can be changed using the keys.



Push the / icon for a few seconds to activate or deactivate the standard pressing function.

Press the icon to test the pressing.

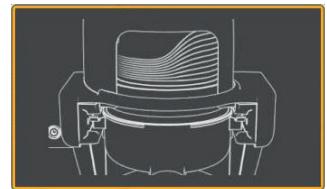
After completing operations confirm the values by pushing the key or exit and leave the previous data using the key.



**Standard pressing active**

If the function is active the level of pressing applied is set to the medium value, also indicated by the colour of the animation frame.

**Note:** standard medium pressing data.



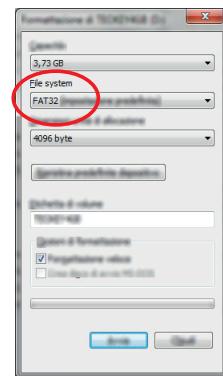
**Touch-display test**

1

Take an empty USB pen drive.

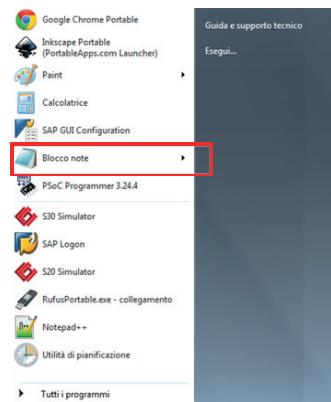
Format a USB pen drive using the **FAT32** format. If using Windows, use the predefined formatting settings as shown in the image.

Create a folder named **GC**, in this folder create a text file with generic content (e.g. "test") and save it as **TFTTest.cim**.

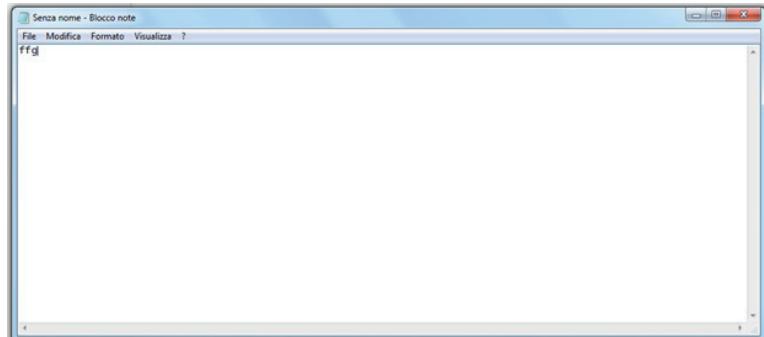


2

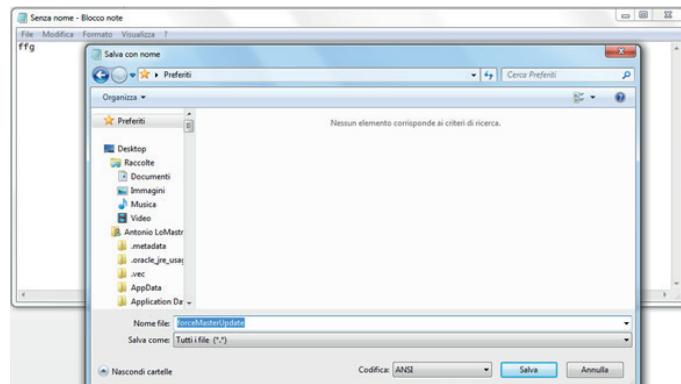
Click the Windows symbol in the lower left part on your PC screen. The following menu will open. Select Notepad (in RED in the figure)



Press any character, number or letter you choose (one is enough)



Save the file and name it **TFTTest.cim** in the **GC** folder (be careful with UPPERCASE and LOWERCASE letters)



Copy the file created onto a USB drive (previously formatted).

3

Insert the USB pen drive in the dedicated port in the grinder/dispenser:



Main page

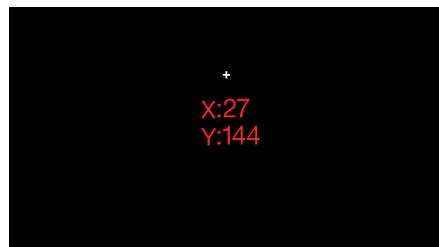


4

Ensure that the information on the display is green, with no pressure on the screen;



if the information is red, check for any undesired pressure on the edge of the screen.



At the end of the operation remove the USB pen drive to go back to the main page.



Main page



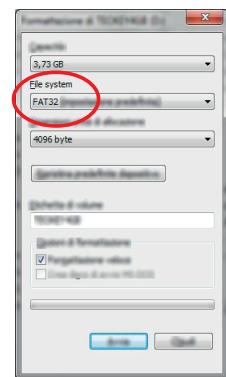
**Display calibration**

1

Take an empty USB pen drive.

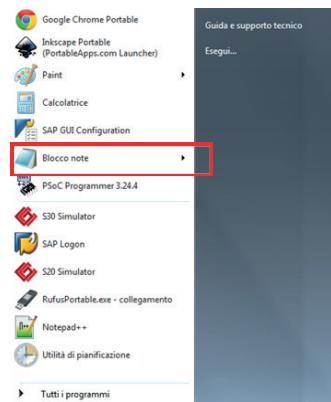
Format a USB pen drive using the **FAT32** format. If using Windows, use the predefined formatting settings as shown in the image.

Create a folder named **GC**, in this folder create a text file with generic content (e.g. "calib") and save it as **TFTCalib.cim**

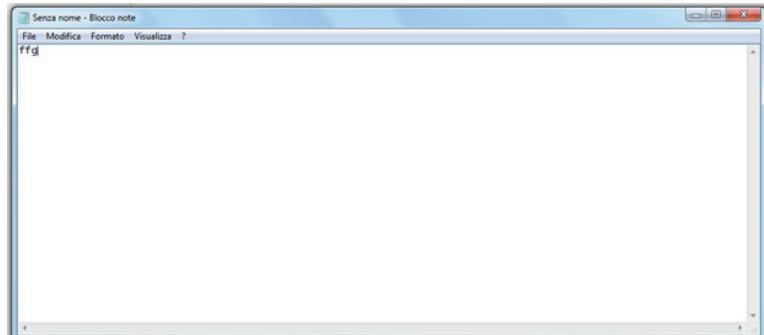


2

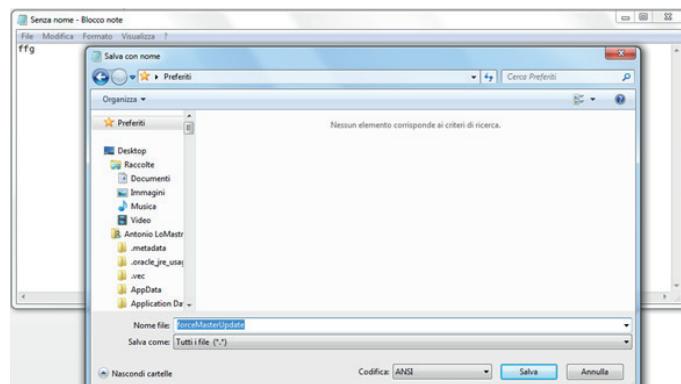
Click the Windows symbol in the lower left part on your PC screen. The following menu will open. Select Notepad (in RED in the figure)



Press any character, number or letter you choose (one is enough)



Save the file and name it **TFTCalib.cim** in the **GC** folder (be careful with UPPERCASE and LOWERCASE letters)



Copy the file created onto a USB drive (previously formatted).

3

Insert the USB pen drive in the dedicated port in the grinder/dispenser:

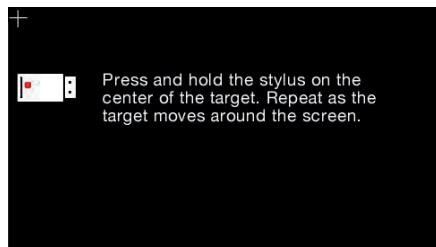


Main page



4

The following message will appear on the display:



Using a pen hold down the centre of the cross; repeat the operation at all the points where the cross appears.

At the end of the operation remove the USB pen drive to go back to the main screen.



Main page



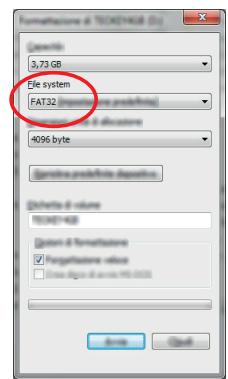
## Updating inverter with USB pen drive

1

Take an empty USB pen drive.

Format a USB pen drive using the **FAT32** format. If using Windows, use the predefined formatting settings as shown in the image.

Copy the update files onto the main path of the USB pen drive.



2

Insert the USB pen drive in the dedicated port in the grinder/dispenser:



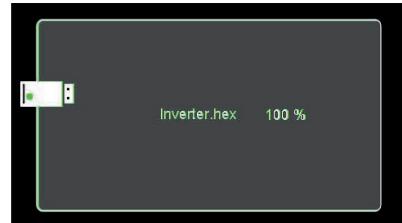
Main screen



3 The following message will appear on the display:



4 Select the message on the display and wait for the file to load:



5

At the end of the operation remove the USB pen drive to go back to the main screen.



Main screen



## Diagnostic messages

English

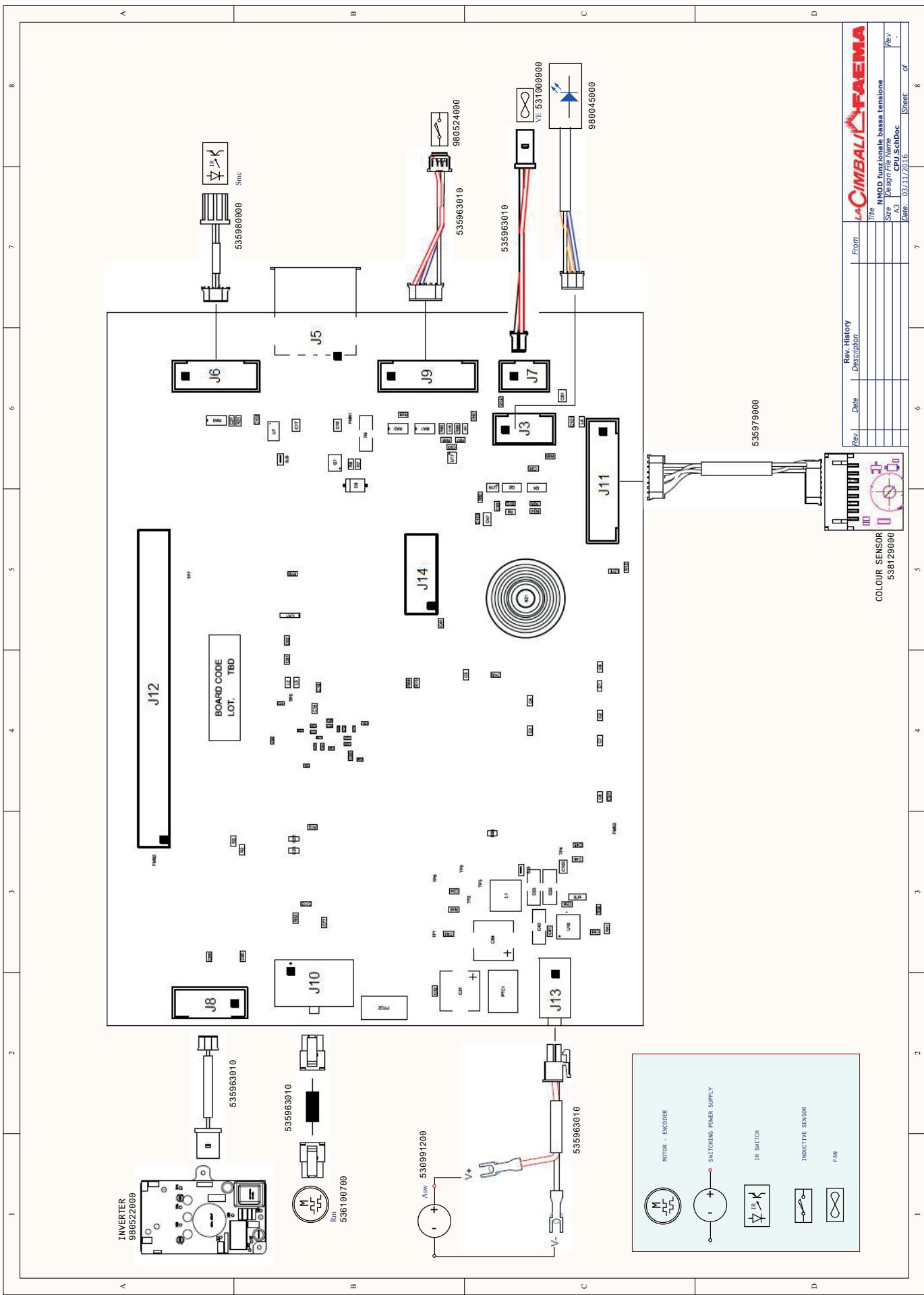
CODE FAULT	DESCRIPTION	POSSIBLE CAUSES	INTERVENTIONS
008	<b>Automatic coffee-pressing mechanism timeout.</b>	<ul style="list-style-type: none"> <li>• Motor faulty.</li> <li>• Mechanical block.</li> </ul>	1 Enter the manual commands 2 Activate the hand-held pressing disc command a) the motor starts: check the correct operation of the limit stop b) the motor does not start: check that the power supply voltage is reaching the motor, activating the manual command. • If the power is on: check the wiring and the motor • If there is no power on output from the board, check the presence of short circuits in the wiring or the motor. If there are none replace the board.
012	<b>Inverter board too hot.</b>	<ul style="list-style-type: none"> <li>• Low appliance aeration.</li> </ul>	• Check air circulation. • Check for proper appliance aeration (consult the user and installation manual)
013	<b>Inverter voltage pilot error.</b>	<ul style="list-style-type: none"> <li>• Inverter board faulty.</li> </ul>	• Replace board.
014	<b>Inverter board overload.</b>	<ul style="list-style-type: none"> <li>• Motor blocked or under strain.</li> </ul>	• Check grinding chamber. • Check grinder adjustment.
015	<b>Inverter board overload high.</b>	<ul style="list-style-type: none"> <li>• Motor blocked.</li> <li>• Inverter board faulty.</li> </ul>	• Check motor. • Replace board.
020	<b>USB power-supply malfunction</b>	<ul style="list-style-type: none"> <li>• USB-port current-consumption too high</li> </ul>	• Check the status of the USB port and its connections in order to identify possible causes of excessive consumption (e.g. short-circuit). • Once the cause of the malfunction is fixed the USB port should restore itself automatically and return to normal operation. • If the problem persists, replace the CPU board.
021	<b>Grinder adjustment movement anomaly.</b>	<ul style="list-style-type: none"> <li>• Gearmotor blocked.</li> <li>• Gearmotor faulty.</li> </ul>	1) Turn on grinder regulator motor from manual control panel. 2) If the gearmotor works, check wiring. 3) If the gearmotor does not work, check the voltage to the motor. 4) If there is power, check for possible mechanical blocks. 5) Replace the gearmotor. 6) Check or replace the DISPLAY board.
025	<b>Automatic pressing mechanism motor driver malfunction.</b>	<ul style="list-style-type: none"> <li>• Short circuit in wiring or motor.</li> </ul>	Check that voltage is reaching the board. Check the power supply (protection). Check the wiring.
027	<b>Grinder regulator motor driver malfunction.</b>	Short circuit in wiring or motor.	Check the wiring, check/replace motor, check/replace board.
030	<b>Inverter board communication anomaly.</b>	<ul style="list-style-type: none"> <li>• No communication with inverter board.</li> </ul>	• If the red LED on the INVERTER board stays on, this means the board is functional but is not communicating with the DISPLAY. • Check the communication wiring between the two boards. • Replace board

## Diagnostic messages

English

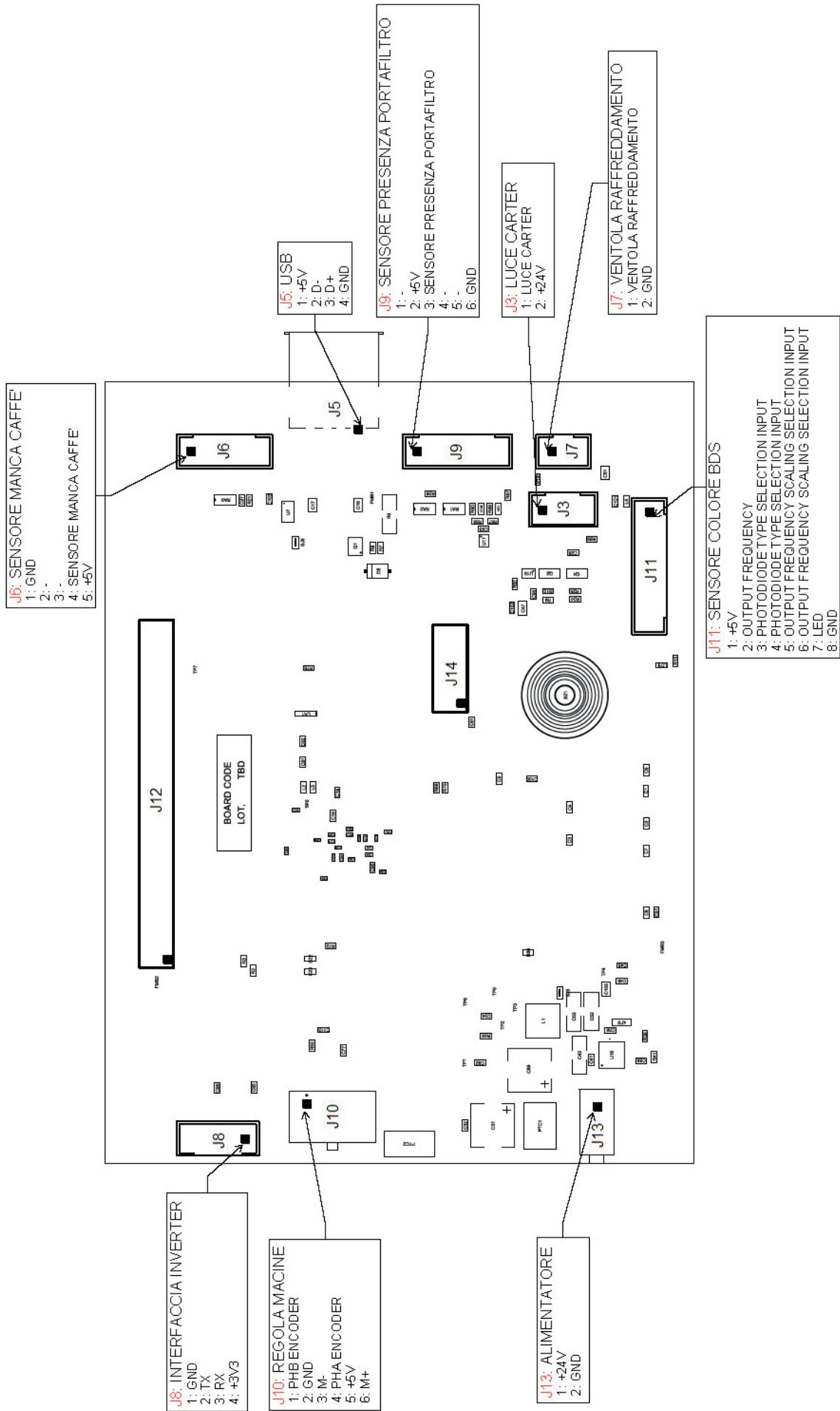
CODE FAULT	DESCRIPTION	POSSIBLE CAUSES	INTERVENTIONS
088	<b>Data integrity error EEPROM.</b>	<ul style="list-style-type: none"> <li>Integrity error, EEPROM memory data.</li> </ul>	<ul style="list-style-type: none"> <li>Turn the grinder/dispenser off and on again. If the error continues, replace the DISPLAY board.</li> </ul>
089	<b>Data integrity error RAM.</b>	<ul style="list-style-type: none"> <li>Integrity error, RAM memory data.</li> </ul>	<ul style="list-style-type: none"> <li>Turn the machine off and on again. If the error continues, replace the DISPLAY board.</li> </ul>
091	<b>Filter holder removed during pressing.</b>	<ul style="list-style-type: none"> <li>Filter holder removed during pressing.</li> <li>Filter holder presence sensor faulty.</li> </ul>	<ul style="list-style-type: none"> <li>Position the filter holder correctly during pressing.</li> <li>Check filter holder presence sensor functionality on test panel.</li> </ul>
096	<b>Maintenance due.</b>		<ul style="list-style-type: none"> <li>The machine has displayed the message to warn the user that maintenance must be performed.</li> </ul>
097	<b>Reset password.</b>	<ul style="list-style-type: none"> <li>The password has been reset.</li> </ul>	
098	<b>Malfunction archive reset.</b>	<ul style="list-style-type: none"> <li>The malfunction archive has been reset.</li> </ul>	
099	<b>Loading standard data.</b>	<ul style="list-style-type: none"> <li>Factory settings have been loaded.</li> </ul>	
104	<b>Filter holder not automatically detected.</b>	<ul style="list-style-type: none"> <li>Presence of dirt.</li> <li>Filter holder presence sensor faulty.</li> </ul>	<ul style="list-style-type: none"> <li>Position the filter holder correctly.</li> <li>Check that the filter holder presence and recognition sensors are working on the test panel.</li> </ul>

## WIRING DIAGRAM

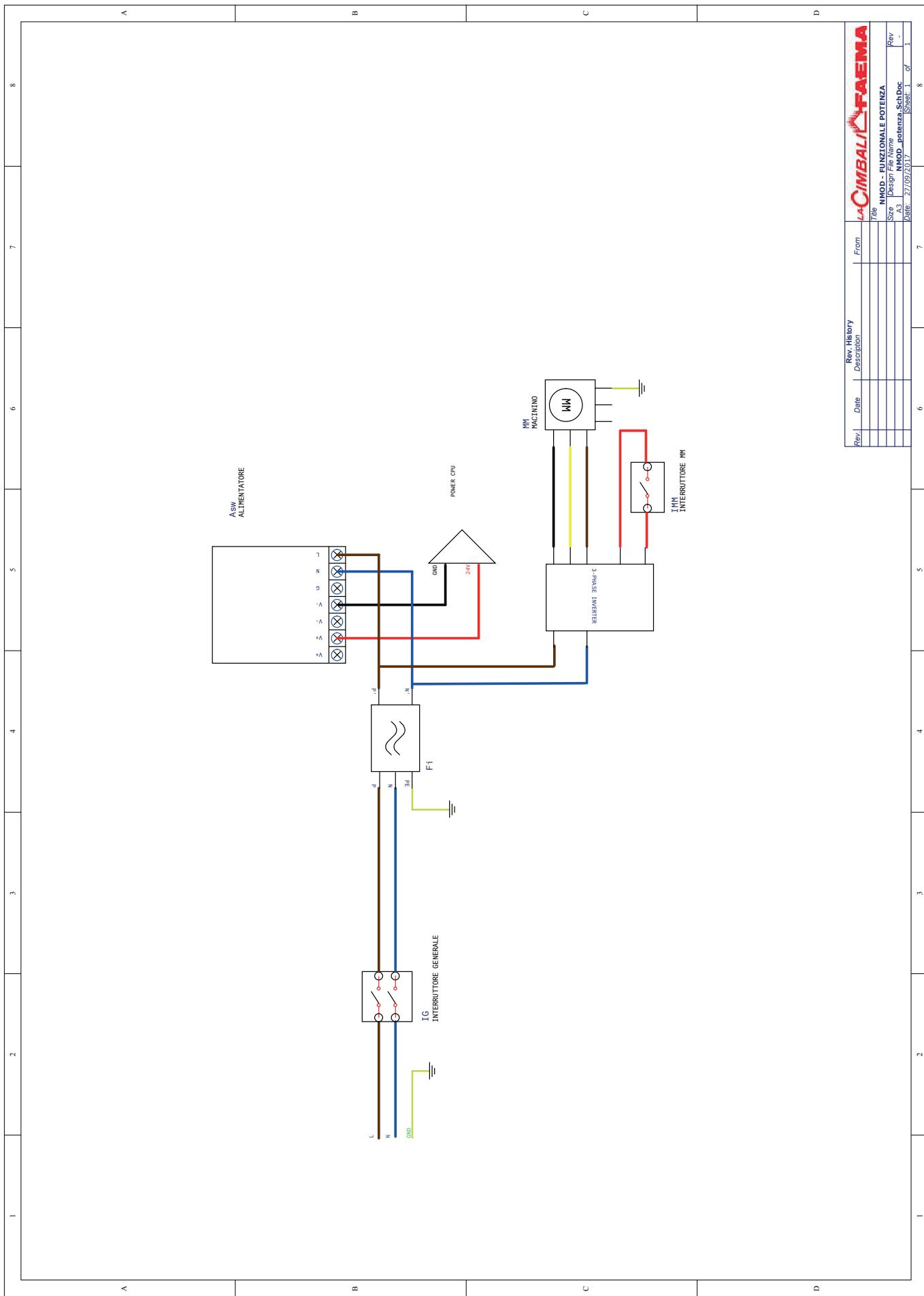


## WIRING DIAGRAM

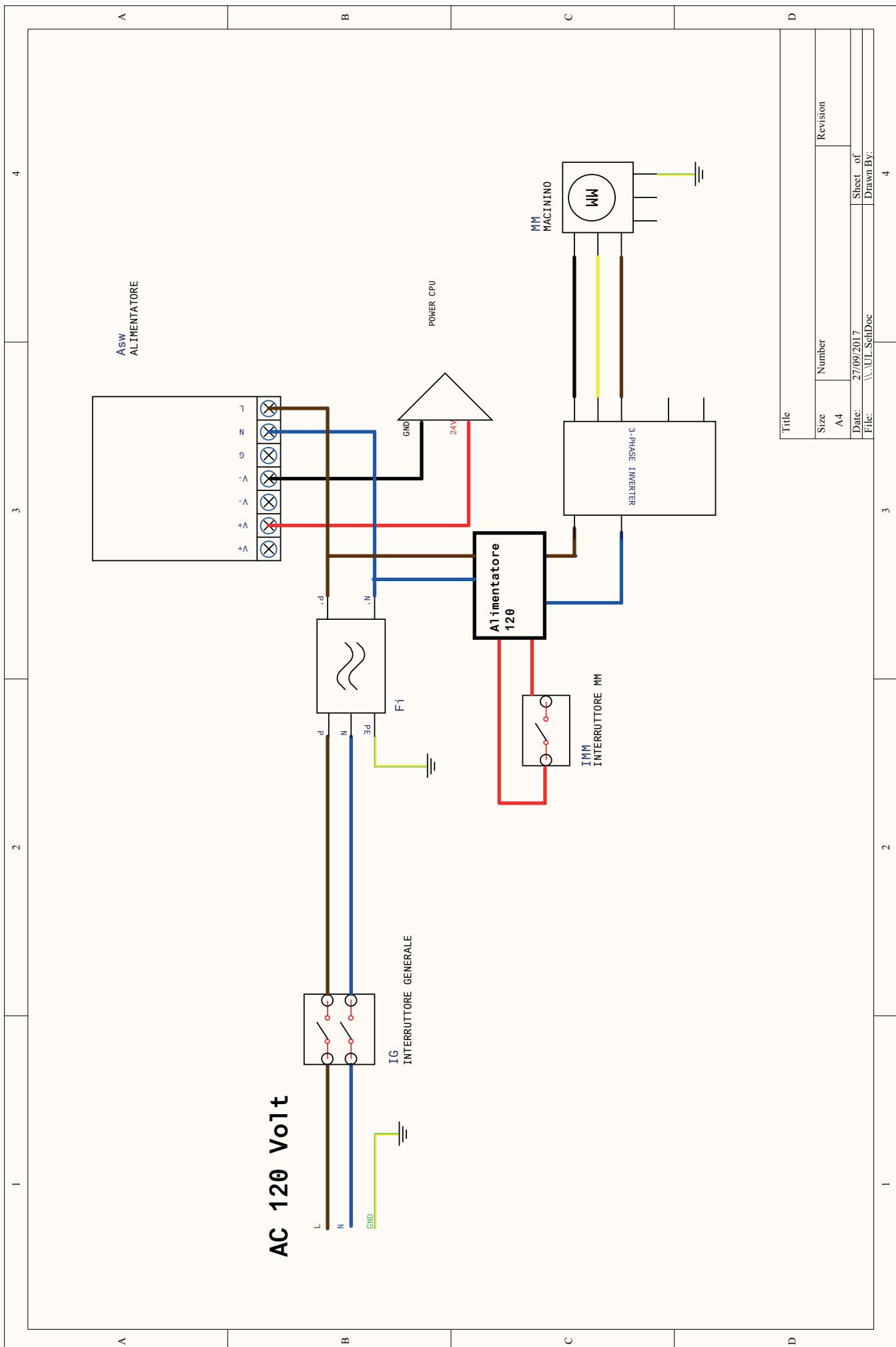
LA CIMBALI



## WIRING DIAGRAM



## WIRING DIAGRAM



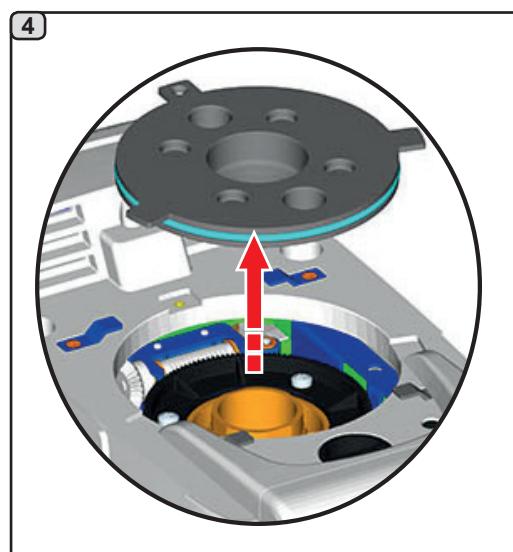
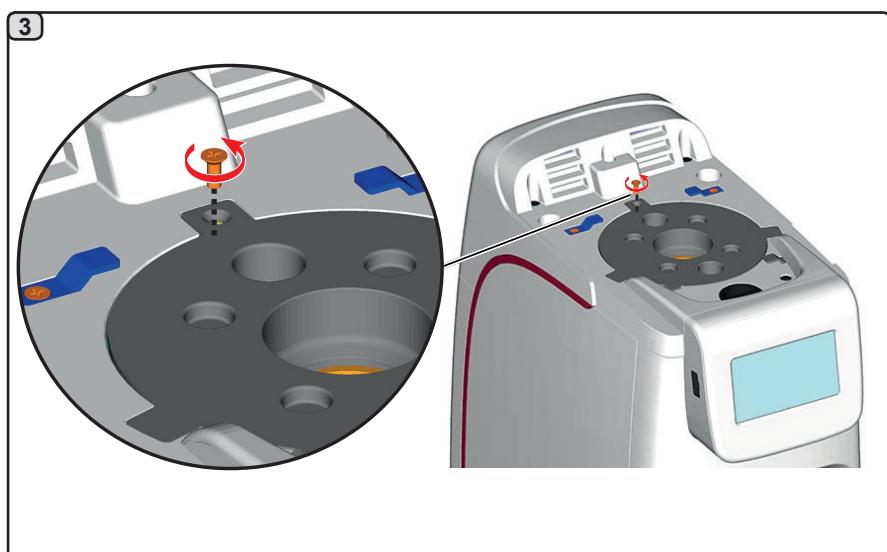
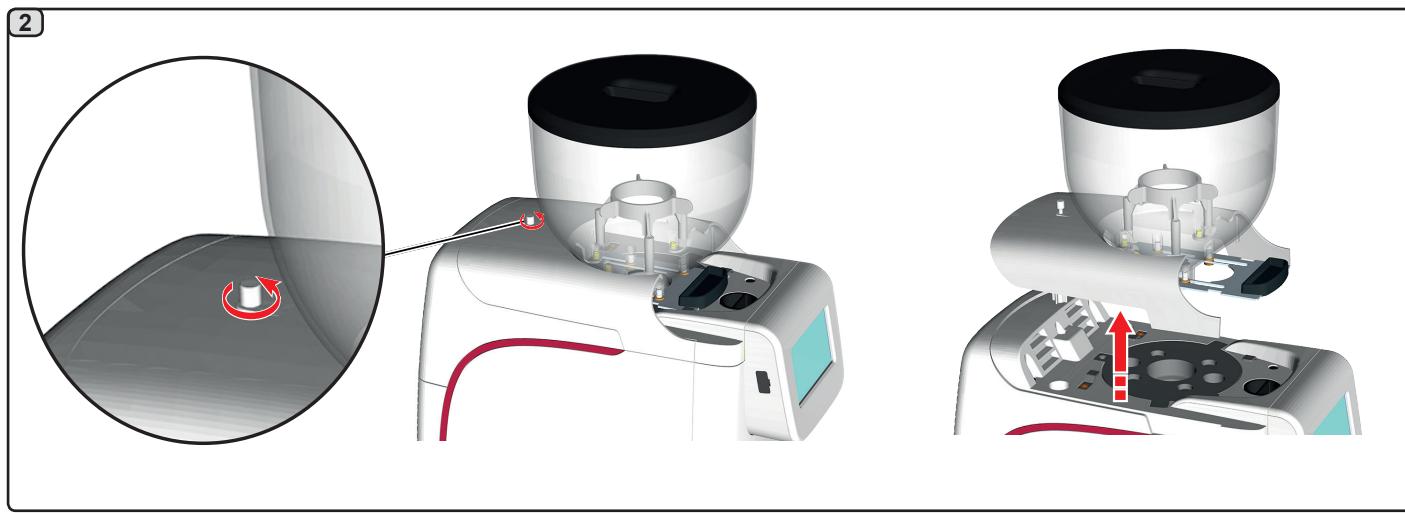
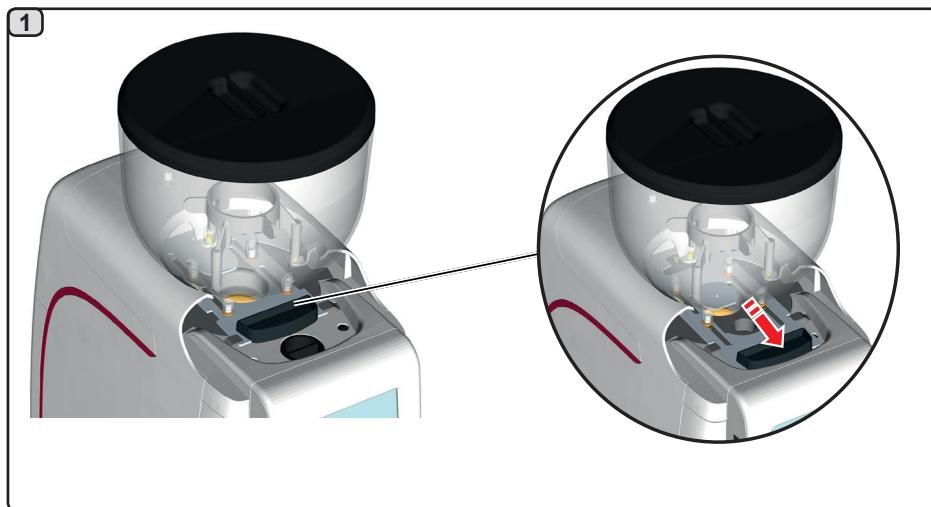
## DISMANTLING AND ADJUSTMENTS

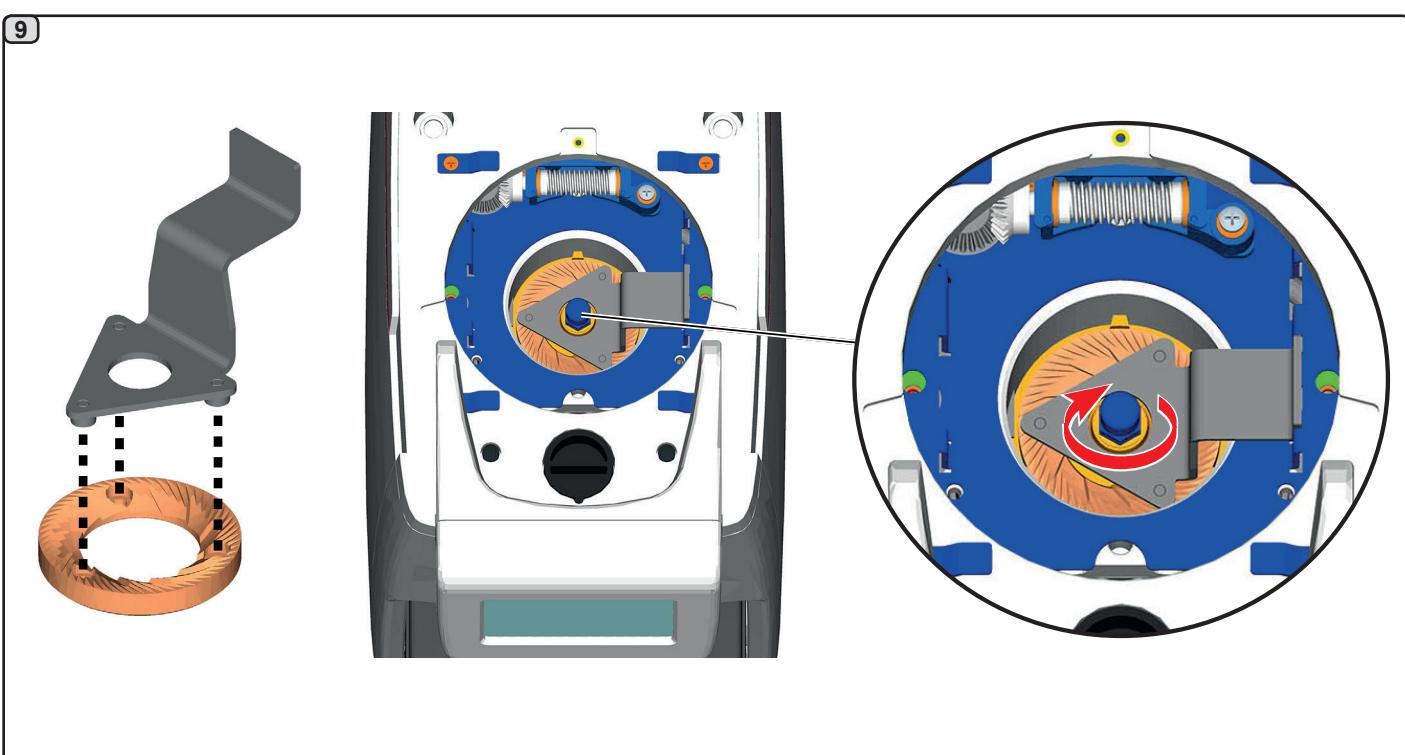
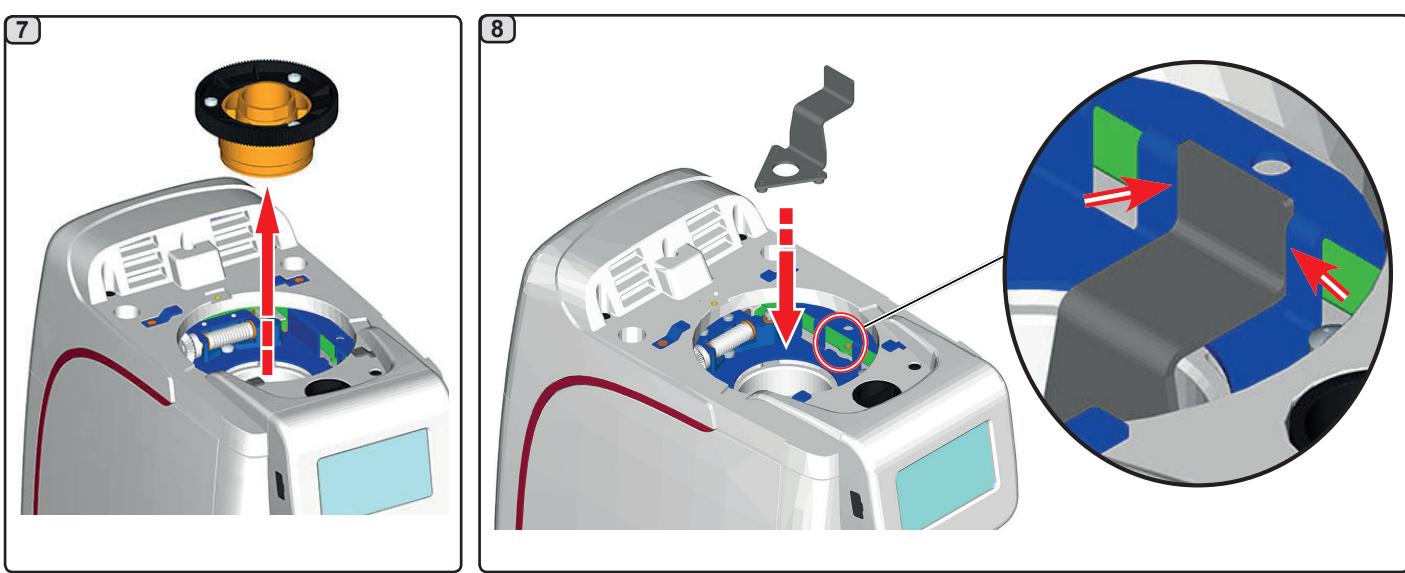
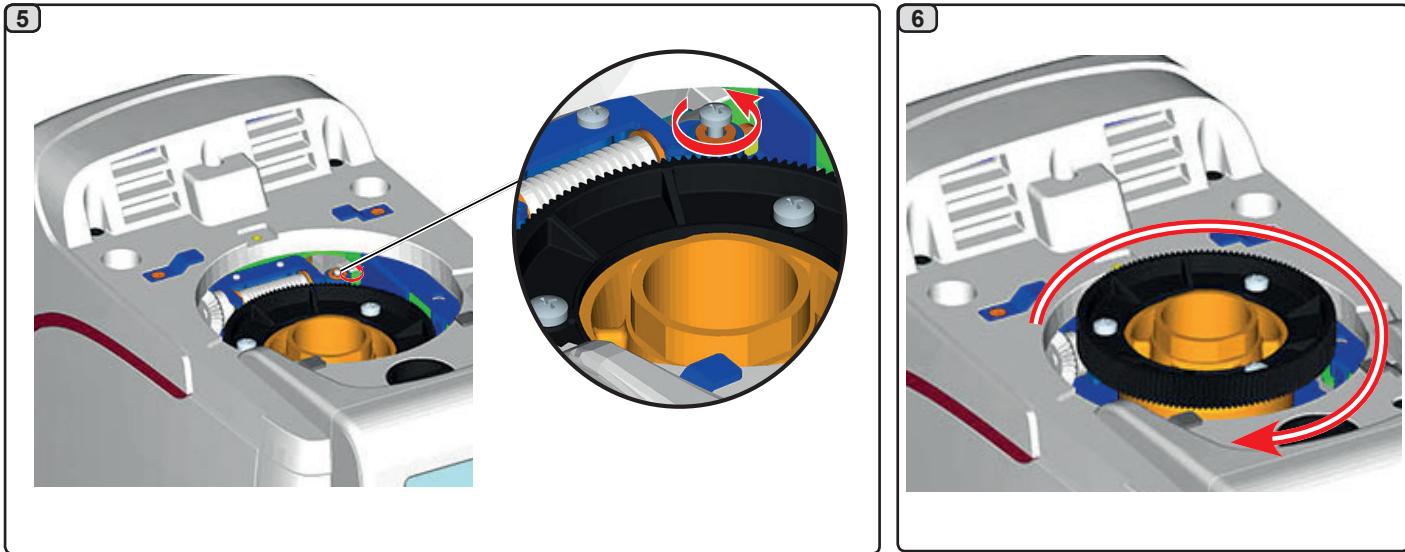


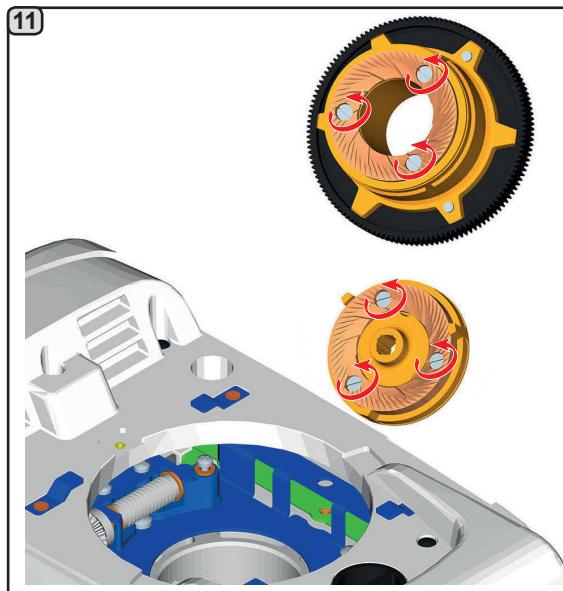
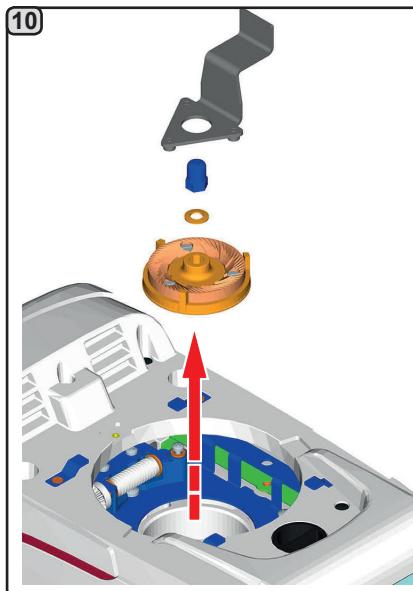
**ALL OPERATIONS MUST BE PERFORMED WITH THE MACHINE SWITCHED OFF.**  
**ALWAYS USE THE NECESSARY SAFETY EQUIPMENT (SHOES/GLOVES).**

## Grinder replacement

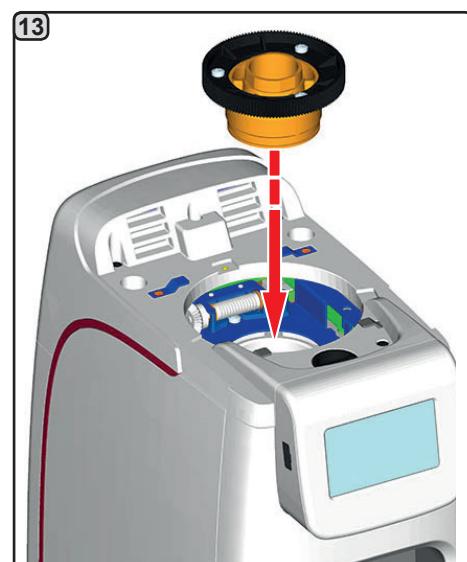
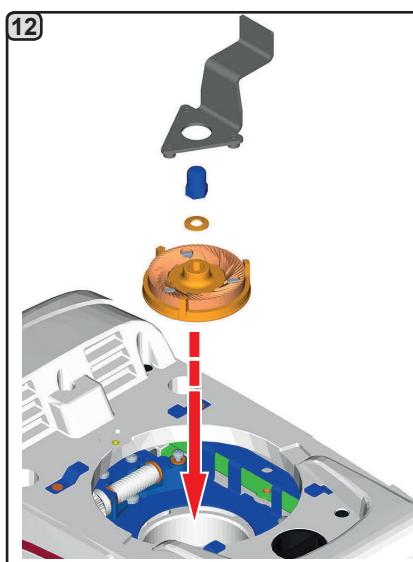
English







Sostituire le macine.  
Replace the grinders.  
Remplacer les moulins.  
Das Mahlwerk austauschen.  
Sustituir las muelas.  
Sustituir las muelas.



Riposizionare la ghiera di supporto nel macinadosatore avvitandola parzialmente in senso antiorario.

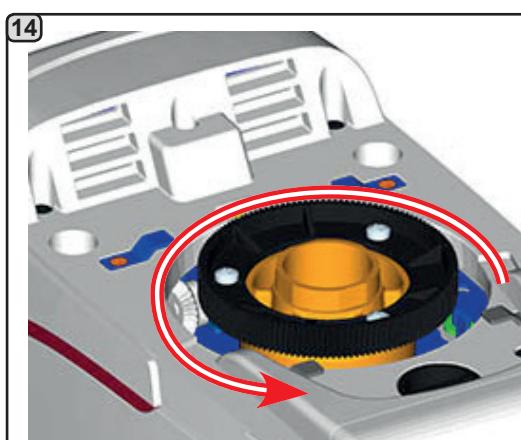
Reposition the support ring nut in the grinder/dispenser, partially turning it counter-clockwise.

Repositionner la bague de support dans le moulin-doseur en la vissant partiellement dans le sens contraire des aiguilles d'une montre.

Die Halterungsmutter wieder in das Mahl- und Dosierwerk einsetzen und gegen den Uhrzeigersinn nicht komplett anziehen.

Colocar la virola de soporte en el moledor-dosificador enroscándola parcialmente en sentido contrario a las agujas del reloj.

Colocar o anel de suporte no moinho doseador, aparafulando-o parcialmente no sentido inverso aos ponteiros do relógio.



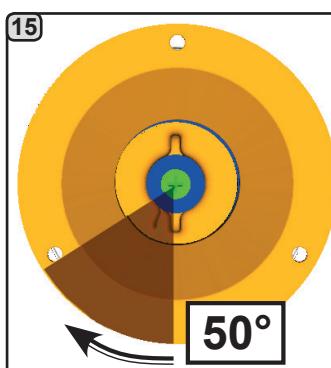
Avvitare la ghiera fino allo sfioramento delle macine, quindi ruotarla in senso orario di circa 50°.  
Screw on the ring nut until it just touches the grinders, and then turn it clockwise approximately 50°.

Visser la bague jusqu'à ce que les moulins se touchent légèrement, puis la tourner dans le sens des aiguilles d'une montre d'environ 50°.

Die Ringmutter anziehen, bis sich die Mahlsteine berühren und dann im Uhrzeigersinn um ca. 50° drehen.

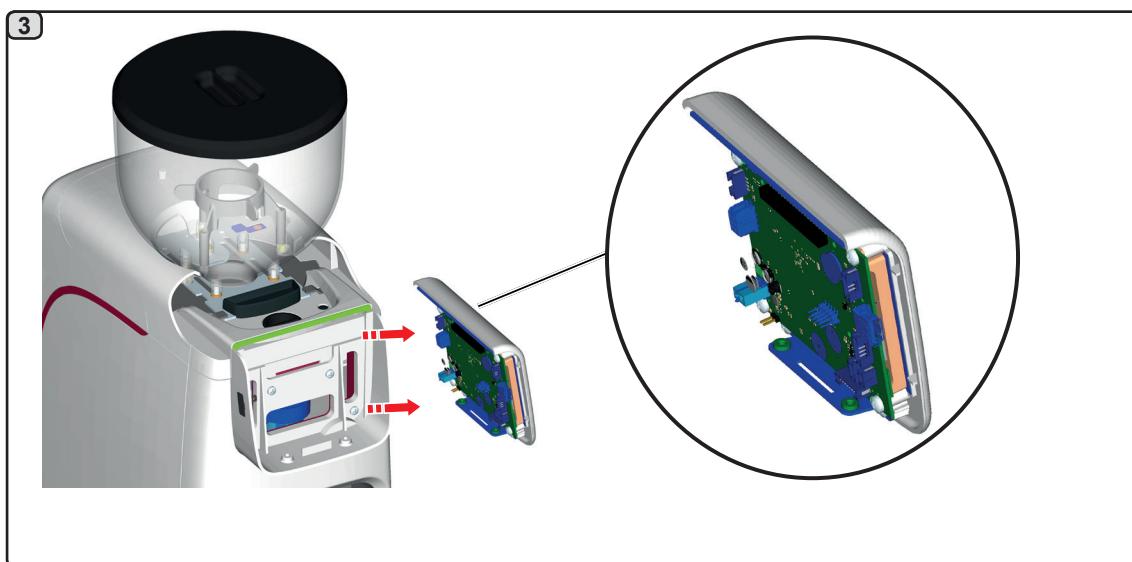
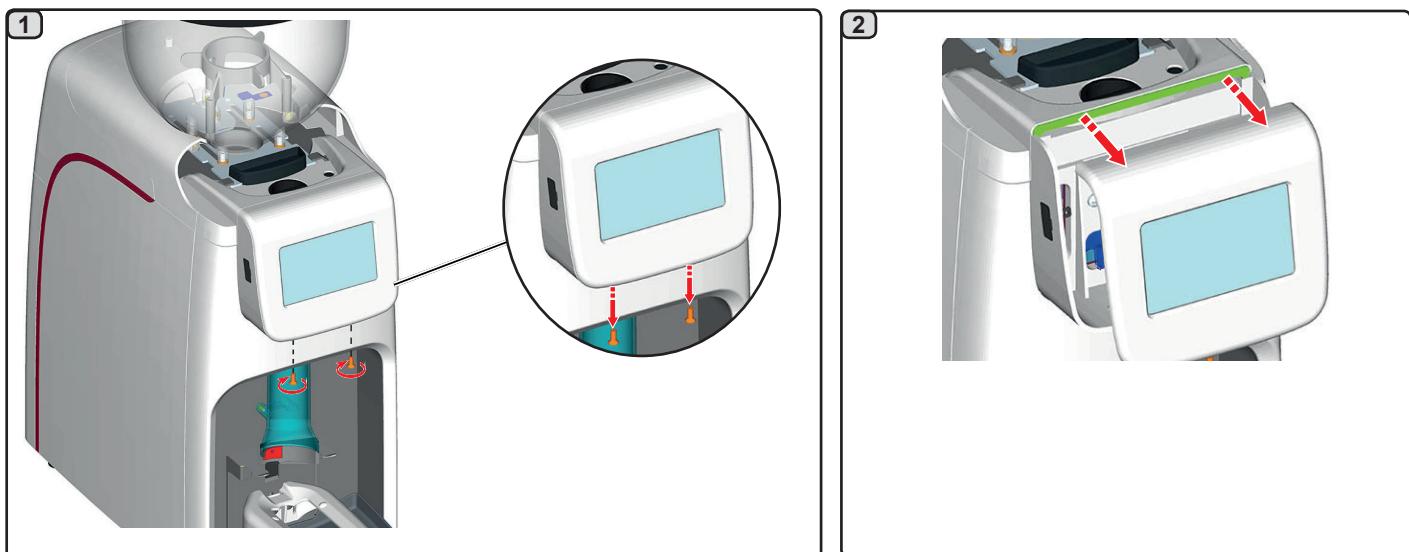
Enroscar la viruela hasta rozar las muelas y hacerla girar unos 50° en sentido horario.

Aparafusar o anel até tocar nas mós, depois rodá-lo no sentido dos ponteiros do relógio, aproximadamente 50°.



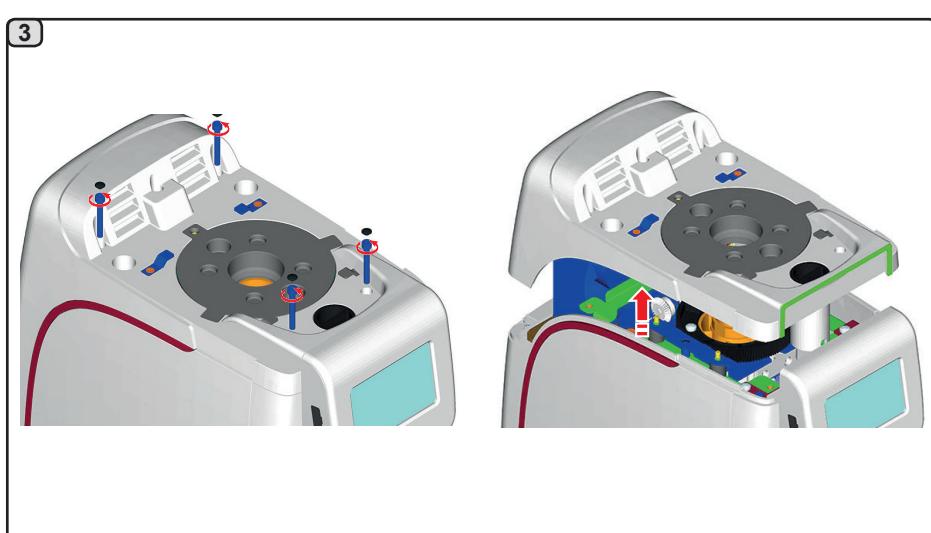
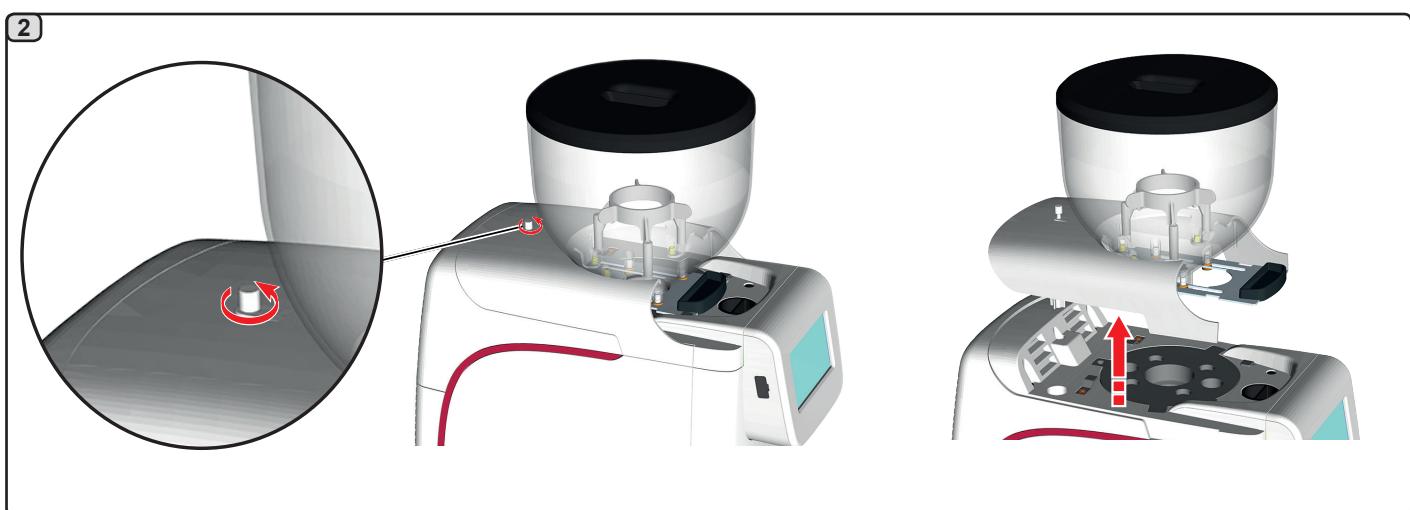
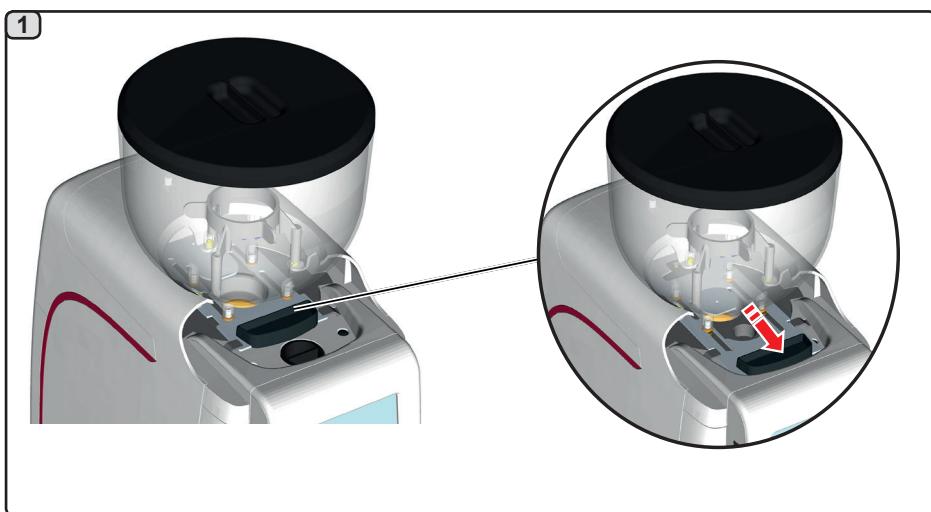
## display panel

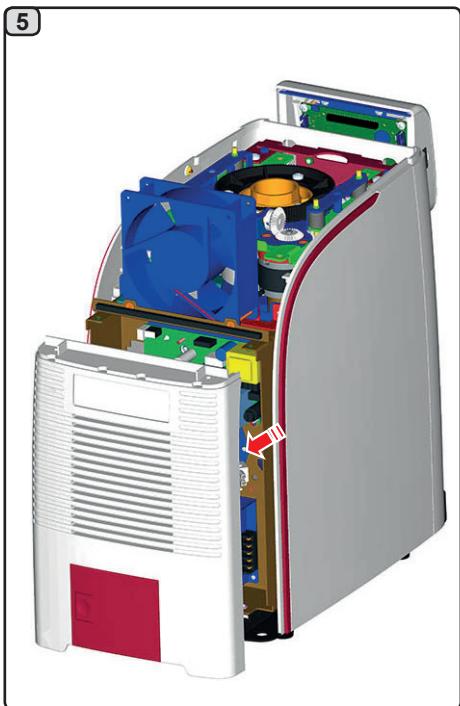
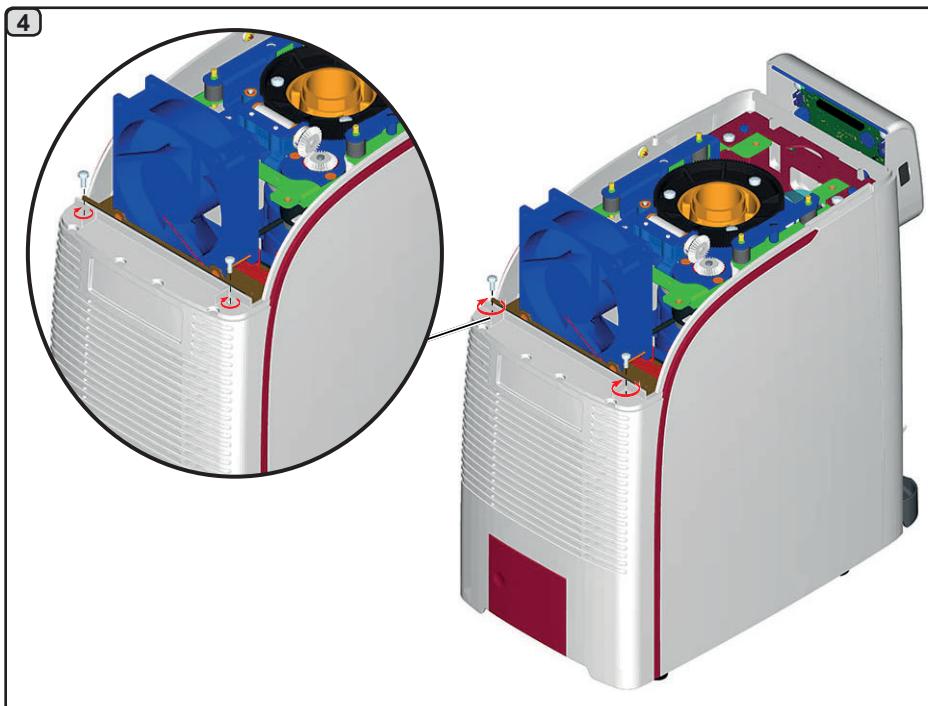
English



## Junction Box

English





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