

# Enea OD BT

**MANUALE DEL TECNICO**

**ENGINEER'S MANUAL**

**MANUEL DU TECHNICIEN**

**TECHNIKERHANDBUCH**

**MANUAL DEL TÉCNICO**

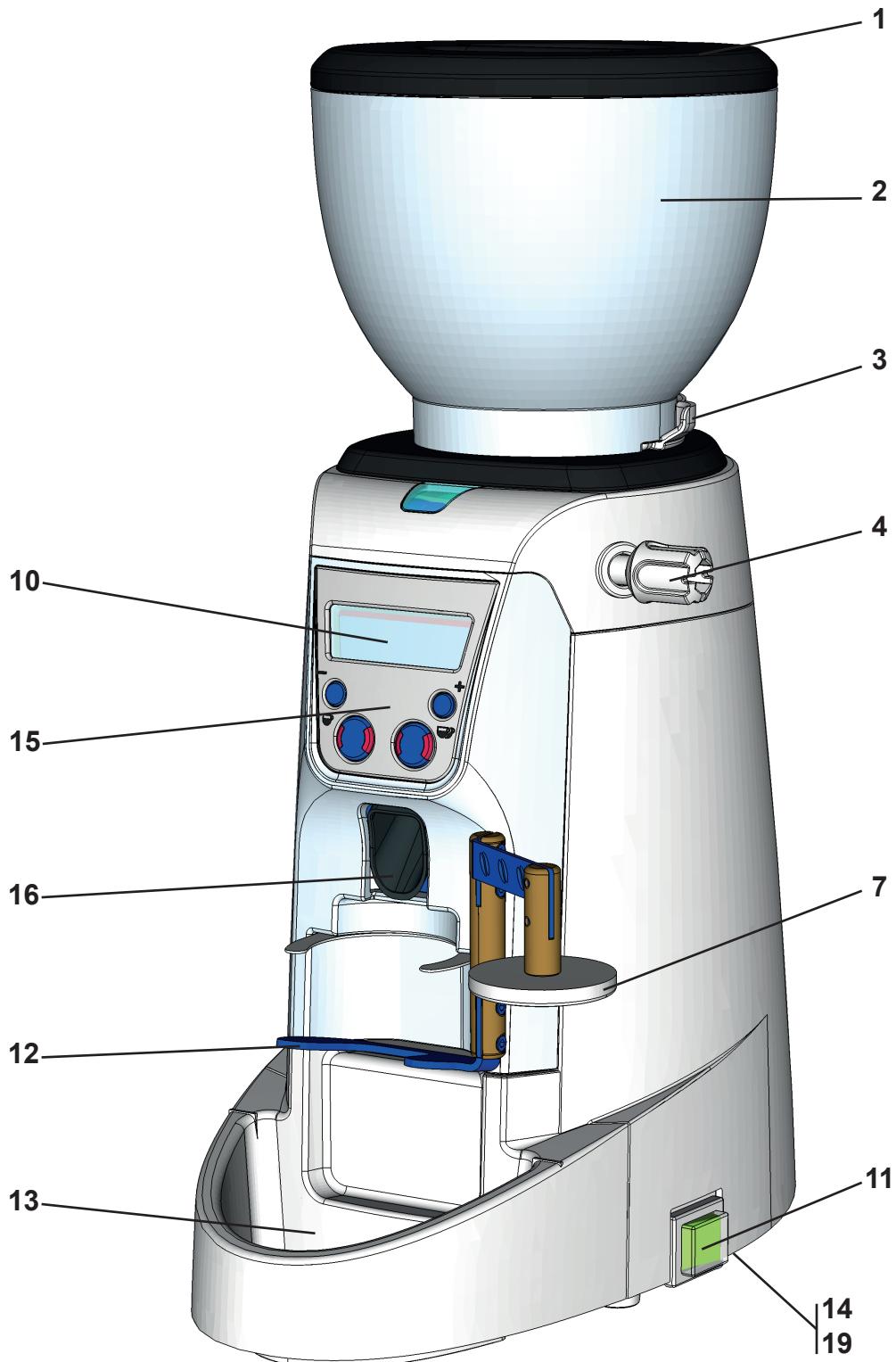
**MANUAL DO TÉCNICO**



(rev. 1839)

**Descrizione - Description - Description - Beschreibung  
Descripción - Descrição**

## **Enea On Demand Bluetooth**



Kg  
Pounds 9,5  
21

**IT****LEGENDA**

- 1** Coperchio tramoggia
- 2** Tramoggia caffè in grani
- 3** Serranda tramoggia
- 4** Vite regolazione macine
- 7** Pressino
- 10** Display
- 11** Interruttore generale / Lampada spia ON
- 12** Forcella supporto portafiltro
- 13** Vassoio raccolta macinato
- 14** Targa dati
- 15** Pulsantiera
- 16** Scivolo caffè macinato
- 19** Morsetto equipotenziale

**EN****LEGEND**

- 1** Receptacle lid
- 2** Coffee beans receptacle
- 3** Receptacle door
- 4** Machine adjustment screw
- 7** Coffee tamper
- 10** Display
- 11** On-off switch / ON indicator light
- 12** Filter basket bracket
- 13** Ground coffee collection tray
- 14** Data label
- 15** Pushbutton Panel
- 16** Ground coffee chute
- 19** Unipotential terminal

**FR****LEGENDE**

- 1** Couvercle trémie
- 2** Trémie café en grains
- 3** Fermeture trémie
- 4** Vis de réglage de moulage
- 7** Pressoir
- 10** Ecran
- 11** Interrupteur général / Lampe témoin ON
- 12** Fourche support porte-filtre
- 13** Plateau de recueil du café moulu
- 14** Plaquette d'informations
- 15** Clavier
- 16** Rampe de café moulu
- 19** Câble équipotentiel

**DE****LEGENDE**

- 1** Abdeckung Trichter
- 2** Trichter zur Kaffeebohneneinfüllung
- 3** Trichterverriegelung
- 4** Schraube zur Mahlwerkeinstellung
- 7** Andrücker
- 10** Display
- 11** Hauptschalter / Kontrolleuchte 'Gerät eingeschaltet'
- 12** Filterhaltergabel
- 13** Tablett zur Sammlung des gemahlenen Kaffees
- 14** Typenschild
- 15** Druckknopftafeln
- 16** Kafferutsche
- 19** Klemme equipotentialer Anschluß

**ES****LEYENDA**

- 1** Tapadera tolva
- 2** Tolva café en granos
- 3** Cierre tolva
- 4** Perno regulación molinillo
- 7** Prensa
- 10** Display
- 11** Interruptor general / Indicador luminoso ON
- 12** Horquilla soporte portafiltro
- 13** Bandeja recogida café molido
- 14** Tarjeta datos
- 15** Botoneras
- 16** Rampa café molido
- 19** Borne equipotencial

**PT****LEGENDA**

- 1** Tampa tremonha
- 2** Tremonha café em grão
- 3** Grade tremonha
- 4** Parafuso regulação das mós
- 7** Pisa-café
- 10** Display
- 11** Interruptor geral / Lâmpada piloto ON
- 12** Forquilha suporte porta-filtro
- 13** Tabuleiro recolha café moído
- 14** Placa dados
- 15** Quadro de botões
- 16** Escorregão do café moído
- 19** Borne equipotencial

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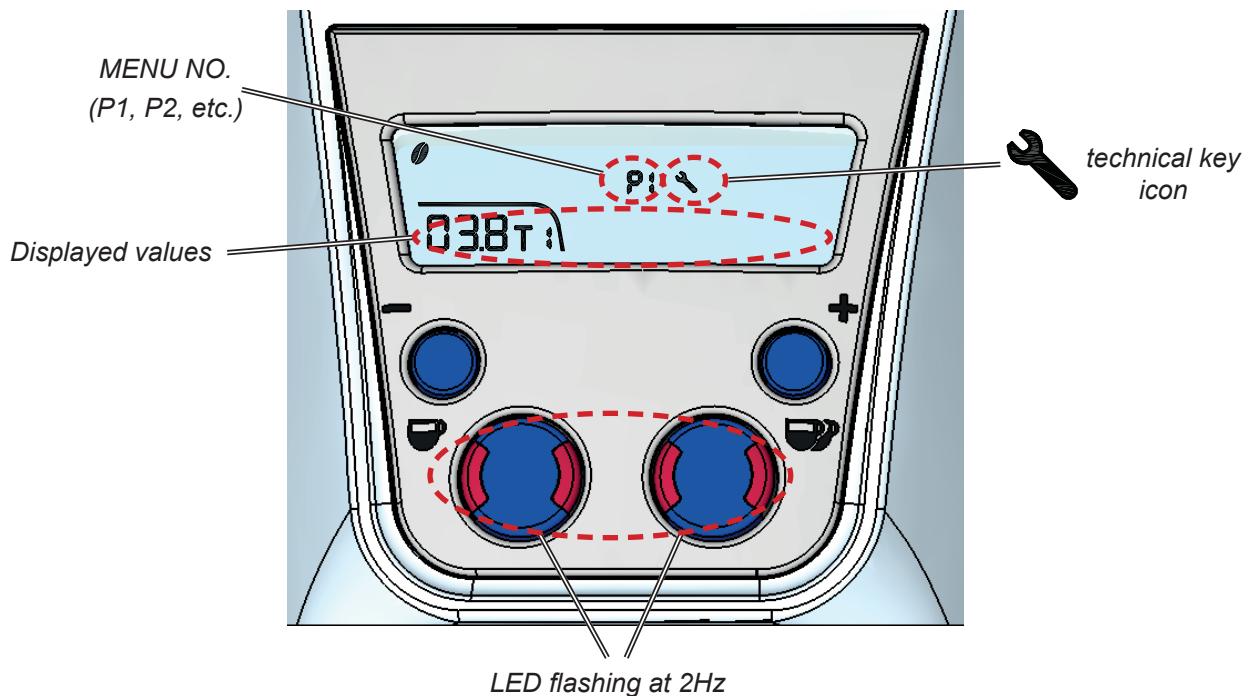
## Technical Programming Menu

English

**To access programming,**

**press the  $\pm$ ,  $=$ ,  $\mp$  keys in rapid succession, holding the last one for 5 seconds.**

**The menu is as follows:**



The (technical key) appears on the display.

The MENU can be changed with the  $=$  and  $\mp$  keys

By pressing the key (single cup), ACTIVE edit is activated (LED stops flashing and edit value starts flashing)

The value can be edited with the  $=$  and  $\pm$  keys (the value does not flash while it is being edited)

Pressing the key (single cup) allows you to exit without saving (Return to MENU)

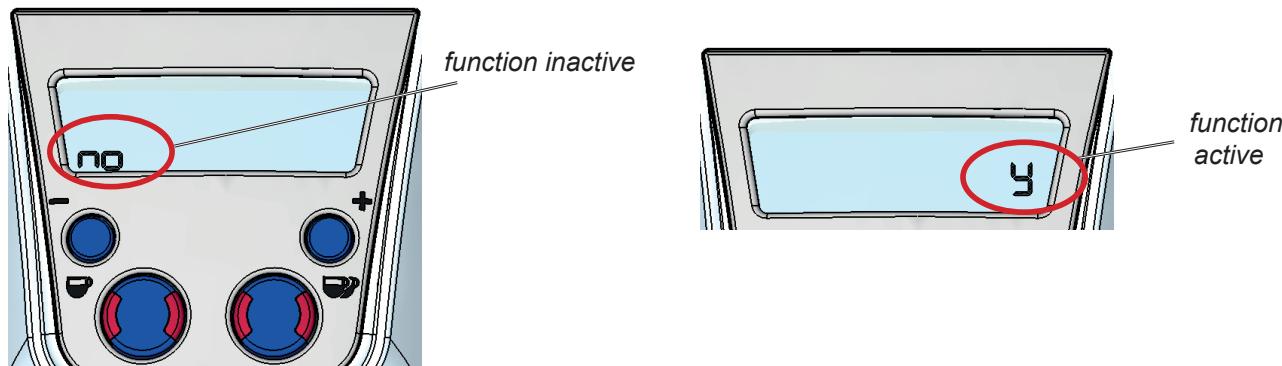
Pressing the key (double cup) allows you to save and exit (Return to MENU)

To exit the technical MENU, press and hold the key (double cup) for 5 seconds (the LED will stop flashing and you will be taken to the normal work screen)

**Note:** If 20 seconds pass without pressing a key when not working on the main screen, the programming screen closes automatically without saving, returning to normal functioning.

## Technical Menu Table

<b>MENU</b>	<b>Function</b>	<b>Range</b>	<b>Step</b>	<b>Default</b>	<b>Notes</b>
P1	Edit key 1 cup dose	1 ÷ 15 s.	0.1 s	4 s	
P2	Edit key 2 cups dose	1 ÷ 15 s.	0.1 s	8 s	
P3	Zero Grinders	no ÷ Y		no	Y = Zero Grinders
P4	Dose Correction	0 ÷ 10 %	0.1 %	3.5 %	0 = disabled
P5	Edit Maintenance Limit	10000 ÷ 99900	100	50000	
P6	Grinder/dispenser no.	0 ÷ 9		0	For Bluetooth function
P7	Reset maintenance	no ÷ Y		no	Shows maintenance limit value
P8	View/Reset 1 cup key counter	-		0	
P9	View/Reset 2 cups key counter	-		0	
P10	View/Reset Manual Dispensing Counter	-		0	
P11	View Total Dispensing Counter	-		0	
P12	Bluetooth module version display	-		4.0.0	
P13	Load standard data	no ÷ Y			Y = load data
P14	BDS Function	no ÷ Y		0	Y = function active



### Automatic dose adaptation system.

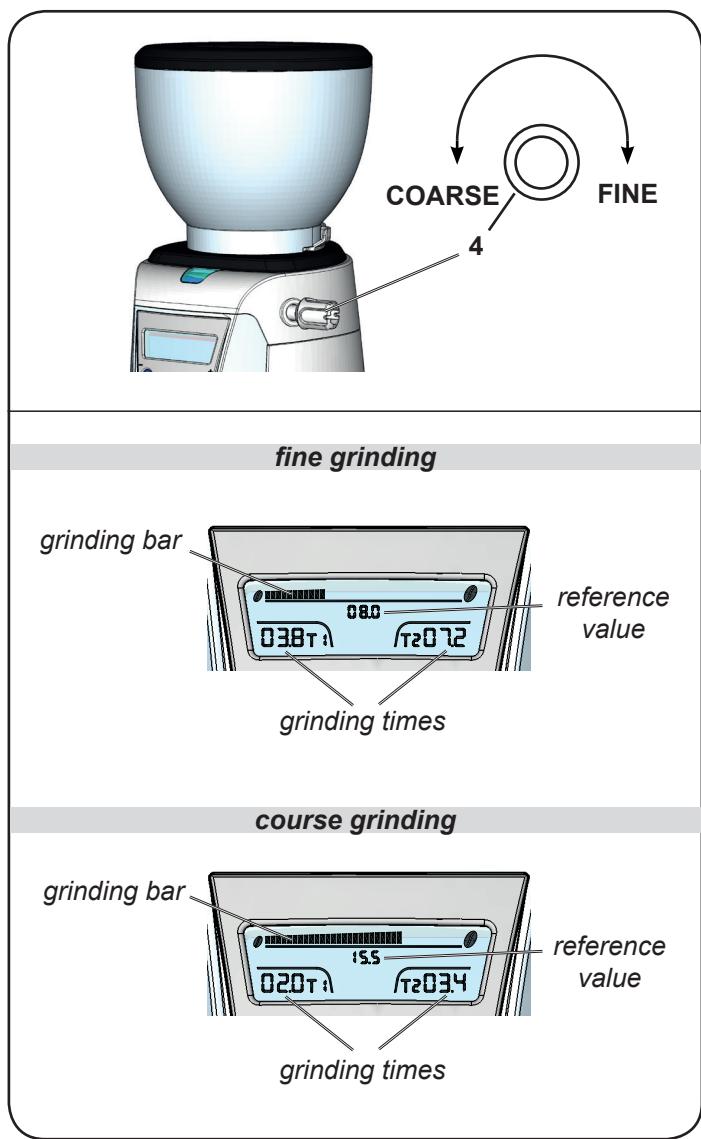
With every grinder adjustment, the grinding time of the coffee doses is automatically adapted based on the pre-set grind settings.

Adjusting the grinders to obtain a different grinding level is carried out using the screw (4) and variations appear on the display according to the following logic:

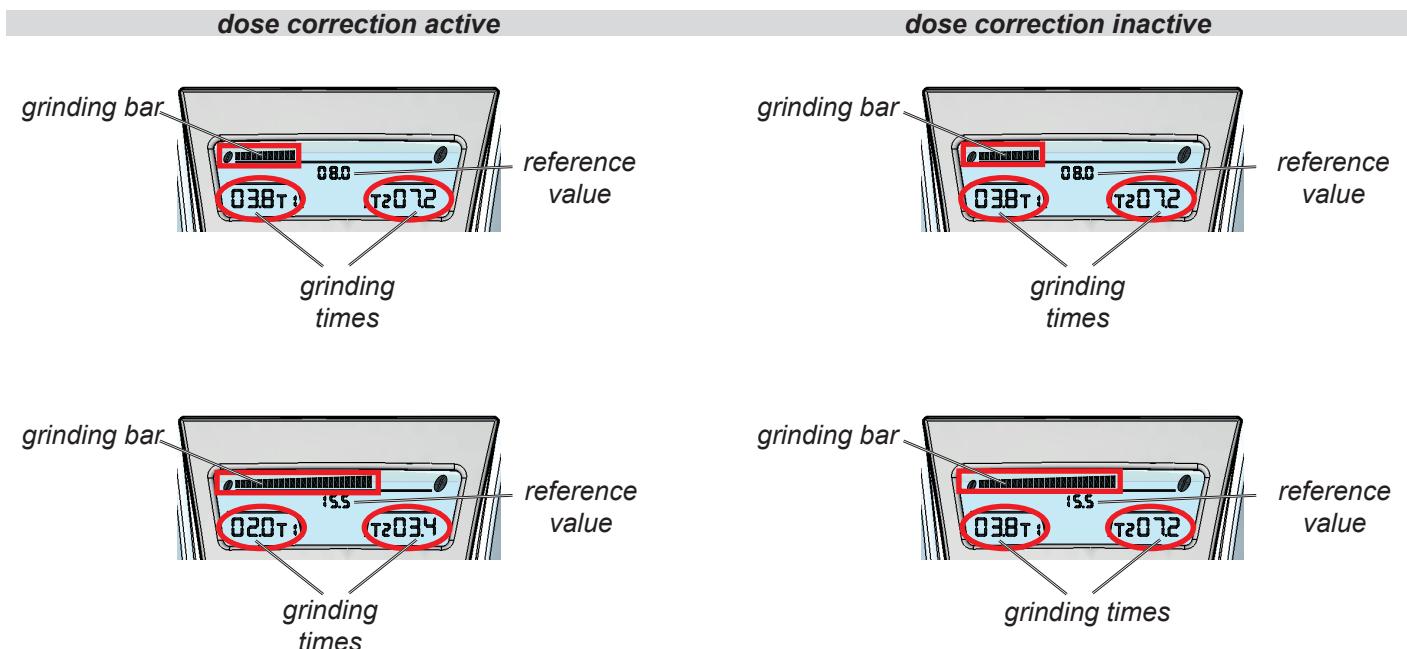
- *fine grinding* > grind bar reduced, low reference value;
- *course grinding* > grind bar increased, high reference value;

If the coffee dispensing takes a very long time, this means that the coffee used is too finely ground. In this case, it is necessary to turn the ring nut (4) anti-clockwise in order to obtain a coarser grinding level (number indications increasing: 2 - 3 - 4 - ....).

If the coffee dispensing is very quick, this means that the coffee used is too coarsely ground. In this case, it is necessary to turn the ring nut (4) clockwise in order to obtain a finer grinding level (number indications decreasing: 4 - 3 - 2 - ....).



**NOTE:** when the “**Dose Correction**” function is NOT enabled.  
the grinding time of the coffee doses remains unchanged with each grinder adjustment.



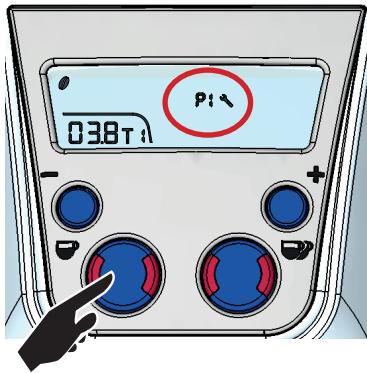
## Ground coffee dose adjustment

### single dose

To edit these dose adjustment parameters (P1):

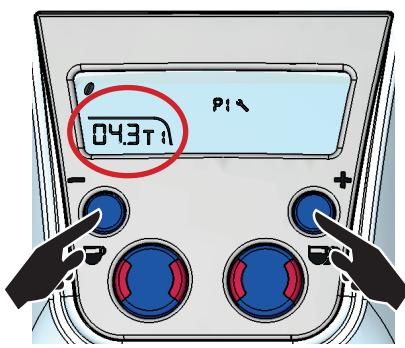
English

1



Press the key (single dose);

2



edit the single dose time using the and keys.  
(in the example, it has increased by 0.5 seconds);

3



at the end of the operation, confirm your choices by  
pressing the key (double dose);

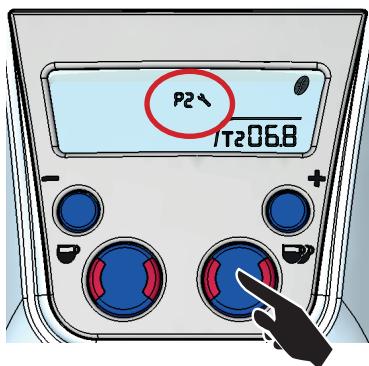
4



or exit, leaving the previous choices, by pressing the  
key (single dose).

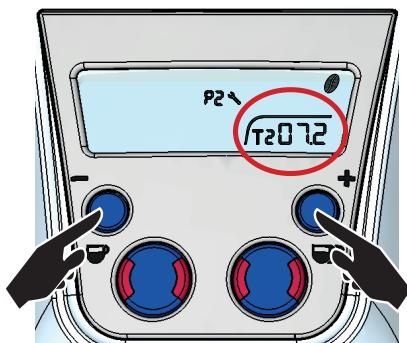
To edit these dose adjustment parameters (P2):

**1**



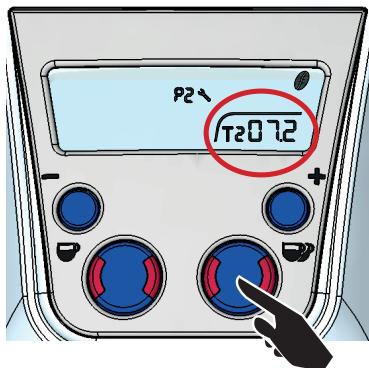
Press the key (double dose);

**2**



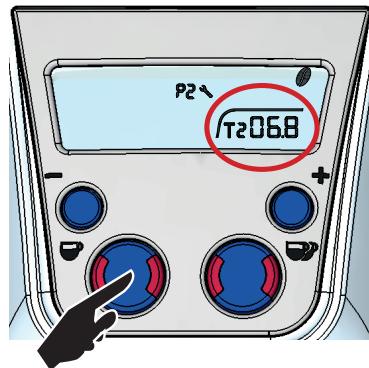
edit the double dose time using the and keys.  
(in the example, it has increased by 0.4 seconds);

**3**



at the end of the operation, confirm your choices by  
pressing the key (double dose);

**4**

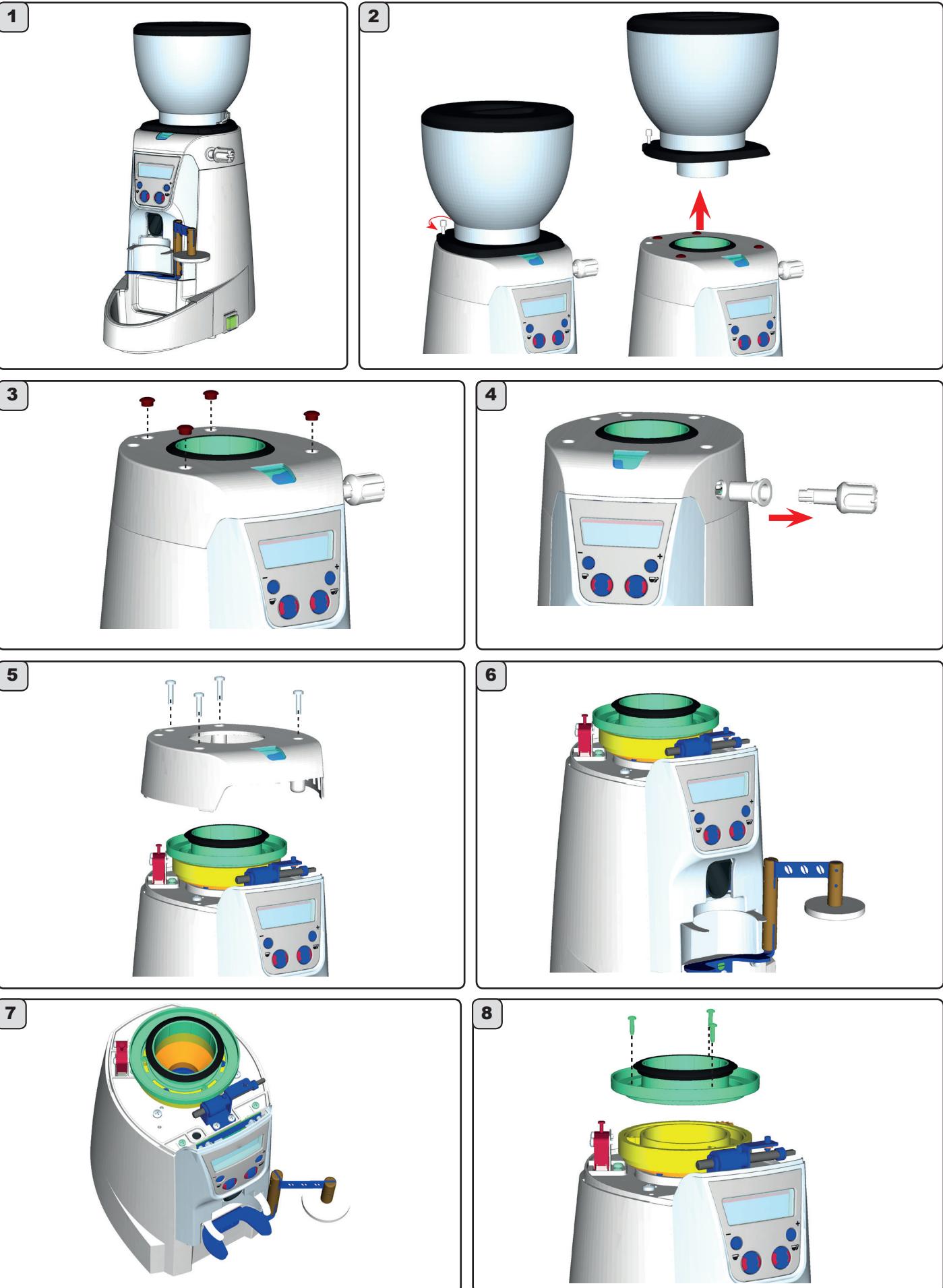


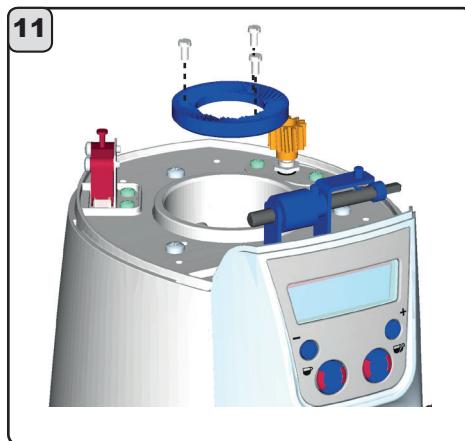
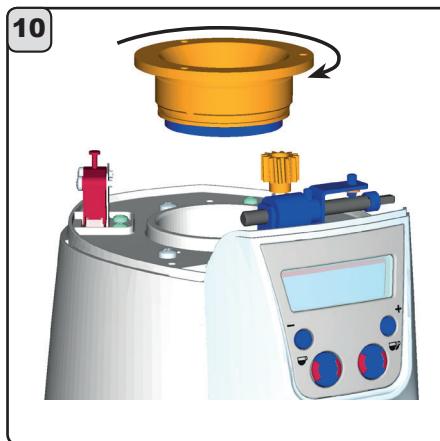
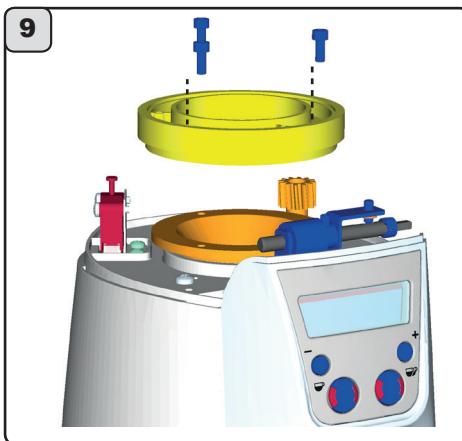
or exit, leaving the previous choices, by pressing the  
 key (single dose).

## “Zero” grinders

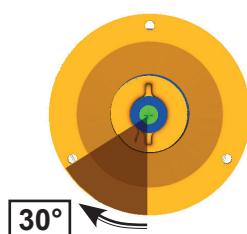
“Zero” grinders procedure (P3):

English

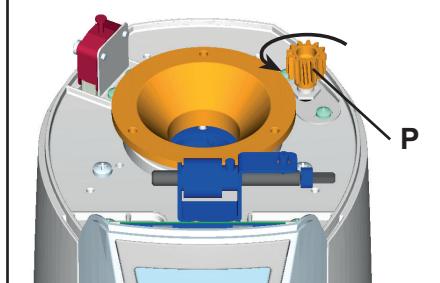




Replace the grinders and reposition the supporting ring nut (**A**) in the grinder/dispenser, partially turning it counter-clockwise. Turn on the grinder/dispenser; the maintenance icon  will appear on the display.



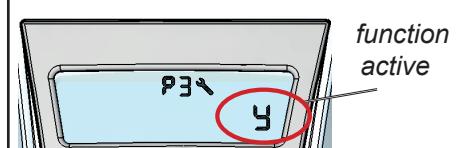
Screw on the ring nut (**A**) until it just touches the grinders, and then turn it clockwise approximately 30°.



Turn the potentiometer (**P**) clockwise as far as it will go, then turn it anti-clockwise for roughly 2 full turns.



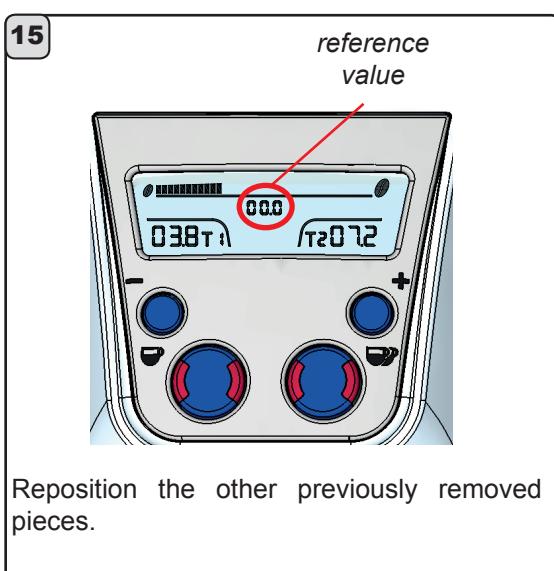
function inactive



function active

#### **Technical Mode**

At this point, to enable the **(Zero Grinders)** function, press the  key (single dose); edit the **(NO / Y)** option using the  or  keys; at the end of the operation, confirm your choice by pressing the  key (double dose);



Reposition the other previously removed pieces.

**Note:** After carrying out the **"Zero Grinders"** procedure to activate the **"Dose Correction"** function, edit the coffee dose times **(P1)-(P2)** in the technical menu.

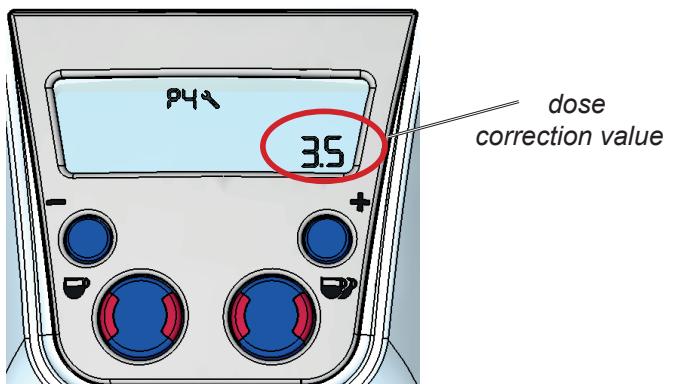
## Automatic dose correction

### Automatic dose correction (P4)

With the “**Dose Correction**” function, a different adjustment cannot be applied to each key, but will be universal with a value between **0% and 10%**. The default value will be **3.5%**.

**NOTE:** inserting the value **(0)** will disable the “**Dose Correction**” function.

1. Press the  key (single dose);
2. edit the dose correction time using the  or  keys;
3. at the end of the operation, confirm your choices by pressing the  key (double dose);
4. or exit, leaving the previous choices, by pressing the  key (single dose).

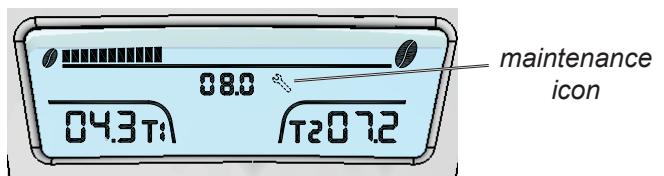
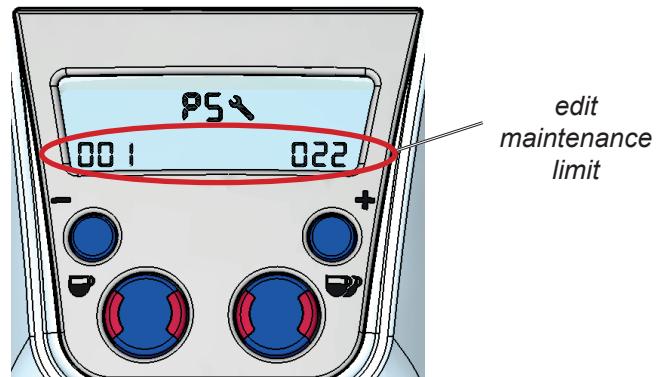


## Maintenance

### Maintenance Parameter (P5):

**NOTE:** the “**Maintenance**” function shows the number of cycles from a value of **10000 ÷ 99900**. The default value is **50000**.

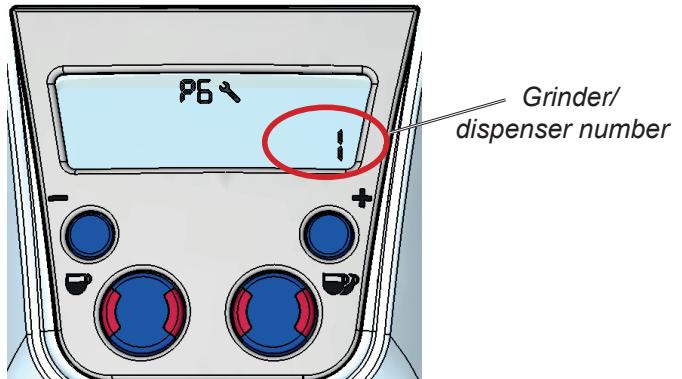
1. Press the  key (single dose);
2. edit the parameter using the  or  keys;
3. at the end of the operation, confirm your choices by pressing the  key (double dose);
4. or exit, leaving the previous choices, by pressing the  key (single dose).



## Grinder/dispenser no. in Bluetooth mode

### Bluetooth Mode (P6):

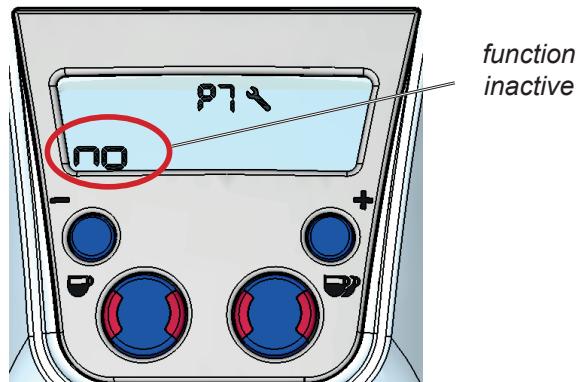
1. Press the  key (single dose);
2. edit the grinder/dispenser number in Bluetooth mode from **(0 ÷ 9)** using the  or  keys;
3. at the end of the operation, confirm your choices by pressing the  key (double dose);
4. or exit, leaving the previous choices, by pressing the  key (single dose).



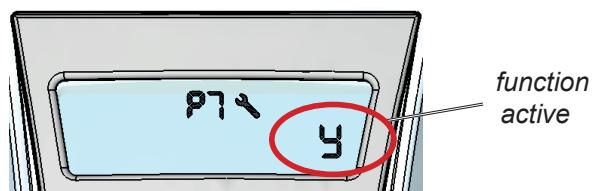
## Reset maintenance

### Reset maintenance (P7):

1. To reset “Maintenance”, press the  key (single dose);
2. edit the (NO / Y) option using the  or  keys;
3. at the end of the operation, confirm your choice by pressing the  key (double dose);
4. or exit, leaving the previous choice, by pressing the  key (single dose).



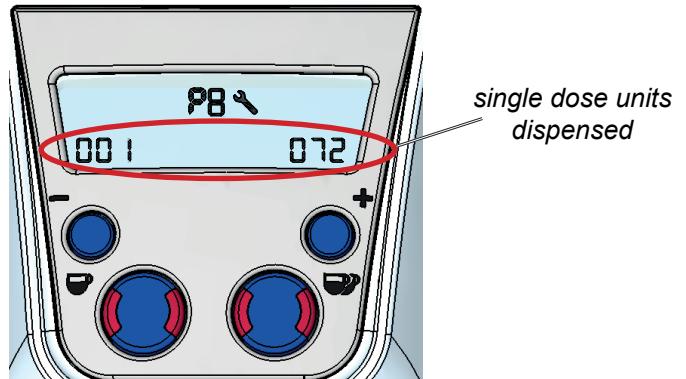
**NOTE:** the (Reset) function displays the number of cycles that were set initially.



## Single dose counter (Reset)

### Single dose counter display (P8):

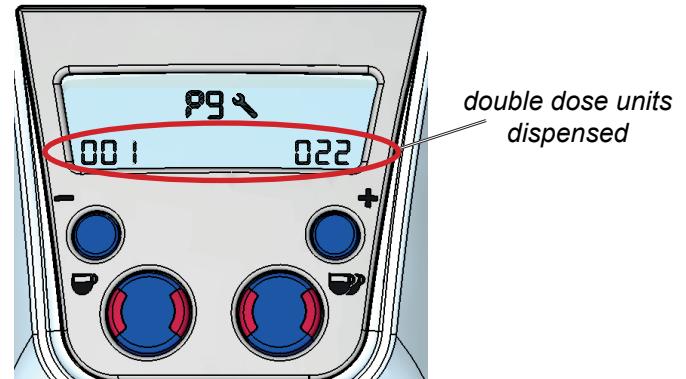
1. To reset the counters, press the  key (single dose);
2. edit the parameter using the  or  keys;
3. at the end of the operation, confirm your choices by pressing the  key (double dose);
4. or exit, leaving the previous choices, by pressing the  key (single dose).



## Double dose counter (Reset)

### Double dose counter display (P9):

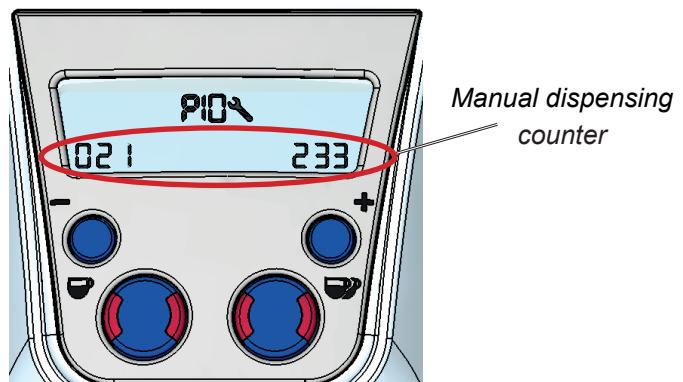
1. To reset the counters, press the  key (single dose);
2. edit the parameter using the  or  keys;
3. at the end of the operation, confirm your choices by pressing the  key (double dose);
4. or exit, leaving the previous choices, by pressing the  key (single dose).



## Manual dispensing counter (Reset)

### Manual dispensing counter display (P10):

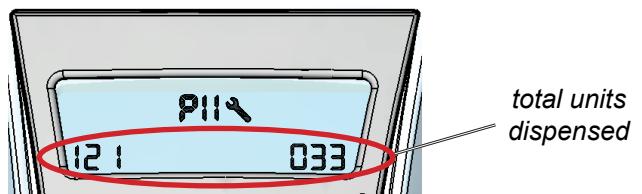
1. To reset the counters, press the  key (single dose);
2. edit the parameter using the  or  keys;
3. at the end of the operation, confirm your choices by pressing the  key (double dose);
4. or exit, leaving the previous choices, by pressing the  key (single dose).



## Total units dispensed display

### Total units dispensed display (P11):

The total number of units dispensed from the grinder/dispenser will appear on the display;  (single dose);  (double dose);  or  (manual dispensing).

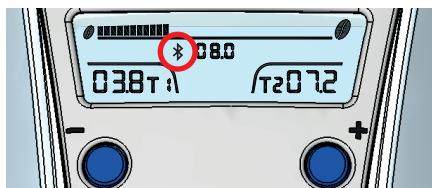
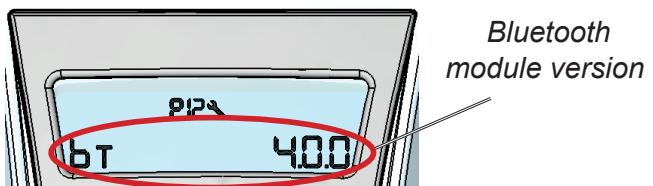


## Bluetooth module version display \*(where available)

### Bluetooth module version display (P12):

The presence of the Bluetooth module is indicated by the relative  icon flashing on the display.

If connected to the coffee machine, the "Bluetooth" icon  remains "steady" on the display.

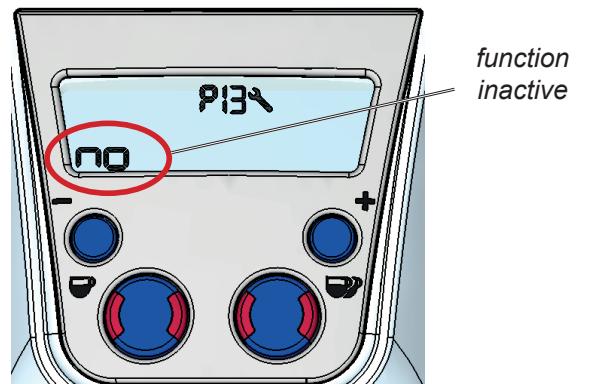


## Load standard data

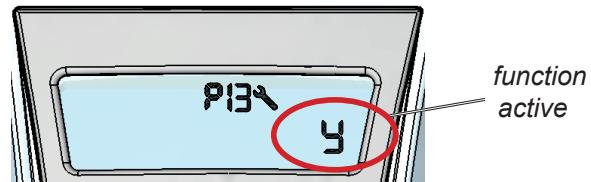
### Load standard data (P13):

**Standard data:** Reset to factory settings.

1. To enable the function, press the  key (single dose);
2. edit the (NO / Y) option using the  or  keys;
3. at the end of the operation, confirm your choice by pressing the  key (double dose);
4. or exit, leaving the previous choice, by pressing the  key (single dose).



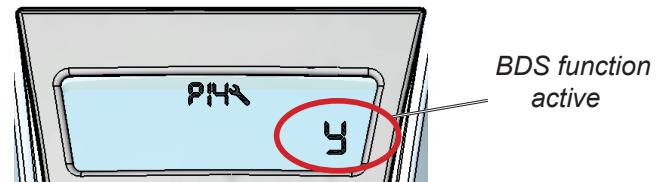
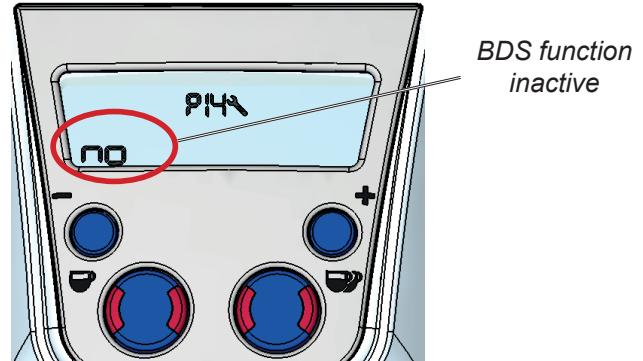
English



## BDS Function \*(where available)

### BDS Function (P14):

1. To enable the BDS function, press the  key (single dose);
2. edit the (NO / Y) option using the  or  keys;
3. at the end of the operation, confirm your choice by pressing the  key (double dose);
4. or exit, leaving the previous choice, by pressing the  key (single dose).



The BDS System is composed of a coffee machine and by one or two 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.

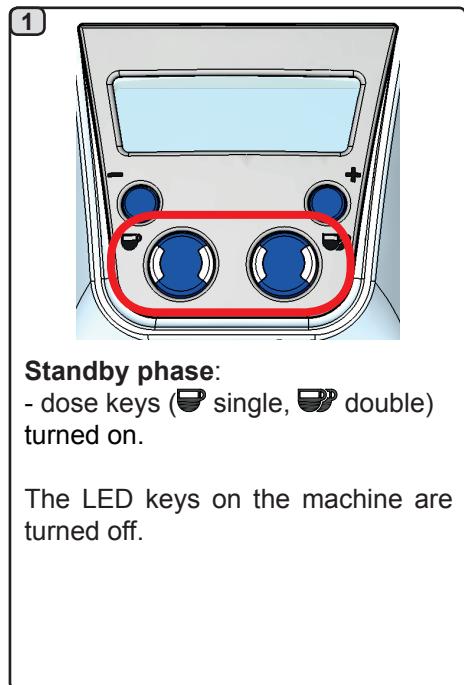


### OPERATING LOGIC

The barista positions the filter holder of the coffee machine on the fork and selects the dose.

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

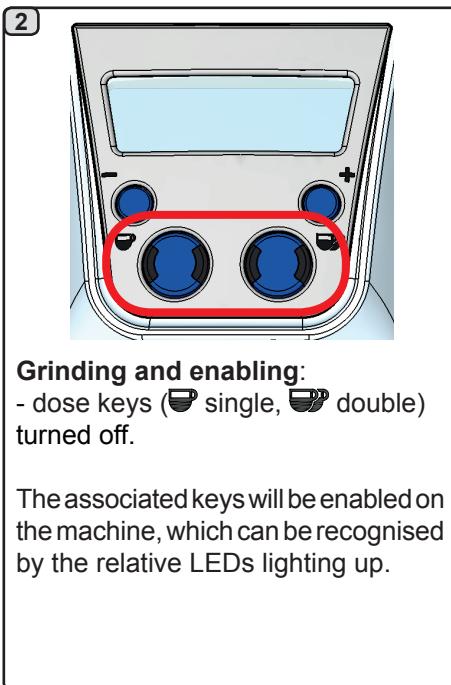
The grinder/dispenser dispenses the correct quantity of ground coffee and at the same time signals to the machine which selection to enable for the preparation of the beverage.



#### Standby phase:

- dose keys (single, double) turned on.

The LED keys on the machine are turned off.



#### Grinding and enabling:

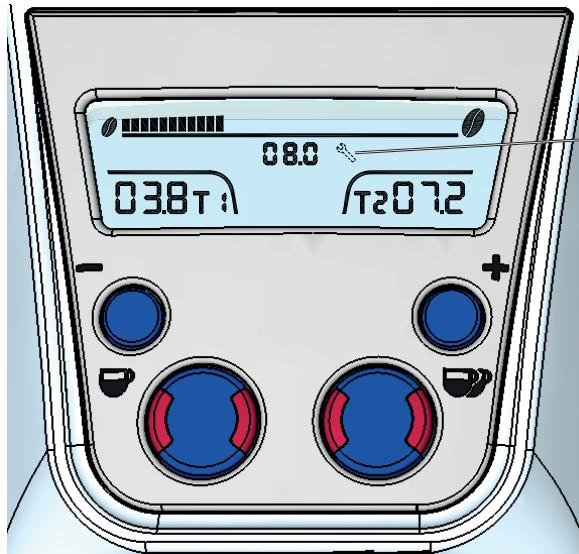
- dose keys (single, double) turned off.

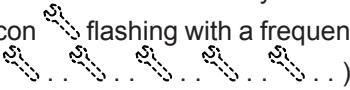
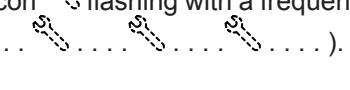
The associated keys will be enabled on the machine, which can be recognised by the relative LEDs lighting up.

Dispensing will remain active for 2 minutes.

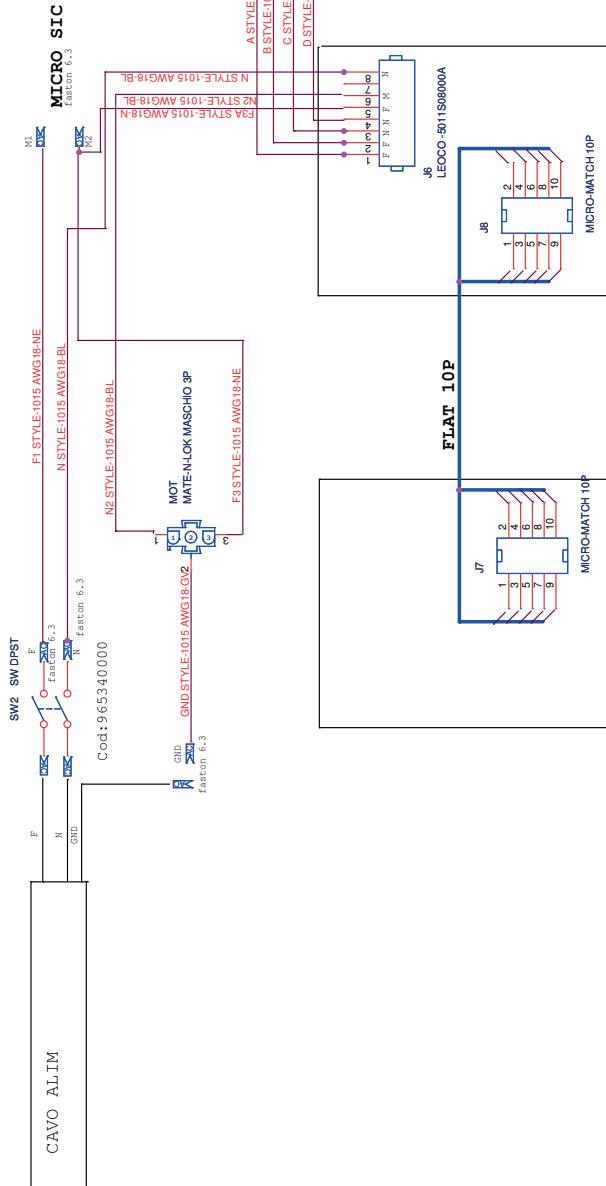
During this time, the grinder/dispenser used will be blocked and therefore unable to grind a second dose of coffee.

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

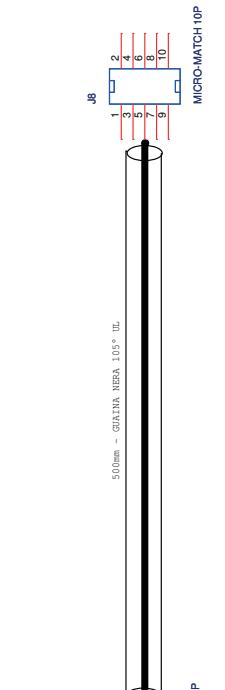


DEFECT	CAUSE	REMEDY
<b>Carry out maintenance</b>	After a certain number of cycles the technical key icon  appears on the display on steady.	Contact the technical service centre as soon as possible.
<b>FLASH memory malfunction</b>	CPU board malfunction. CPU board fault. The fault is indicated by the technical key icon  flashing with a frequency of 2Hz (. . . . . . . . . . . . . . . . . .).	The anomaly does not block the grinder/dispenser but the integrity of the stored data is not guaranteed. Consequently all stored parameters could be corrupt or restored to factory settings. If, after restarting multiple times, the problem persists, contact the technical service centre.
<b>Data integrity error in non-volatile memory</b>	Data integrity error whilst loading the non-volatile memory during start-up. The fault is indicated by the technical key icon  flashing with a frequency of 1Hz (. . . . . . . . . . . . . . . . . .).	The anomaly does not block the grinder/dispenser. However, normal operation is not guaranteed, as all stored parameters could be corrupt or restored to factory settings. If, after restarting multiple times, the problem persists, contact the technical service centre.

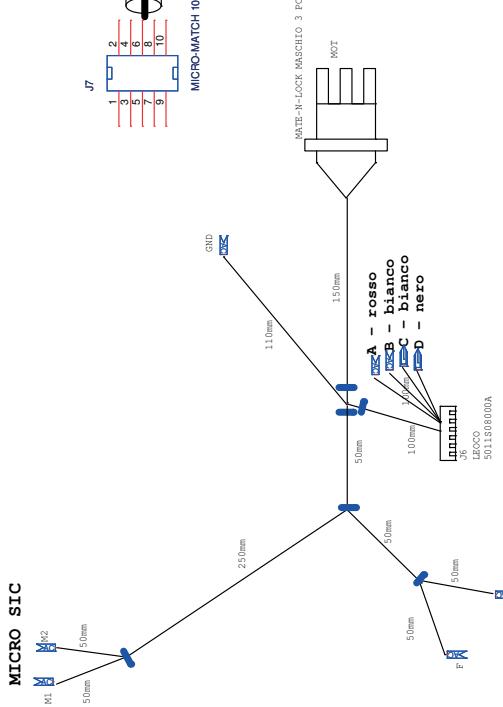
## WIRING DIAGRAM



535793012

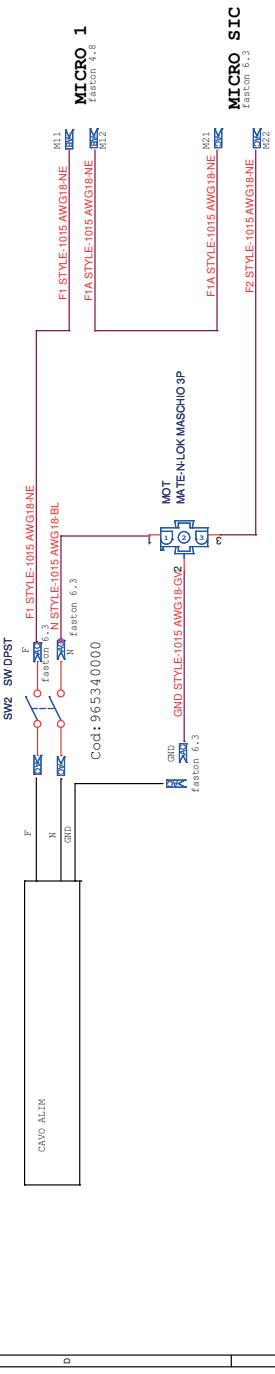


**FORNIRE IL CABLAGGIO IN VERSIONE 230V**

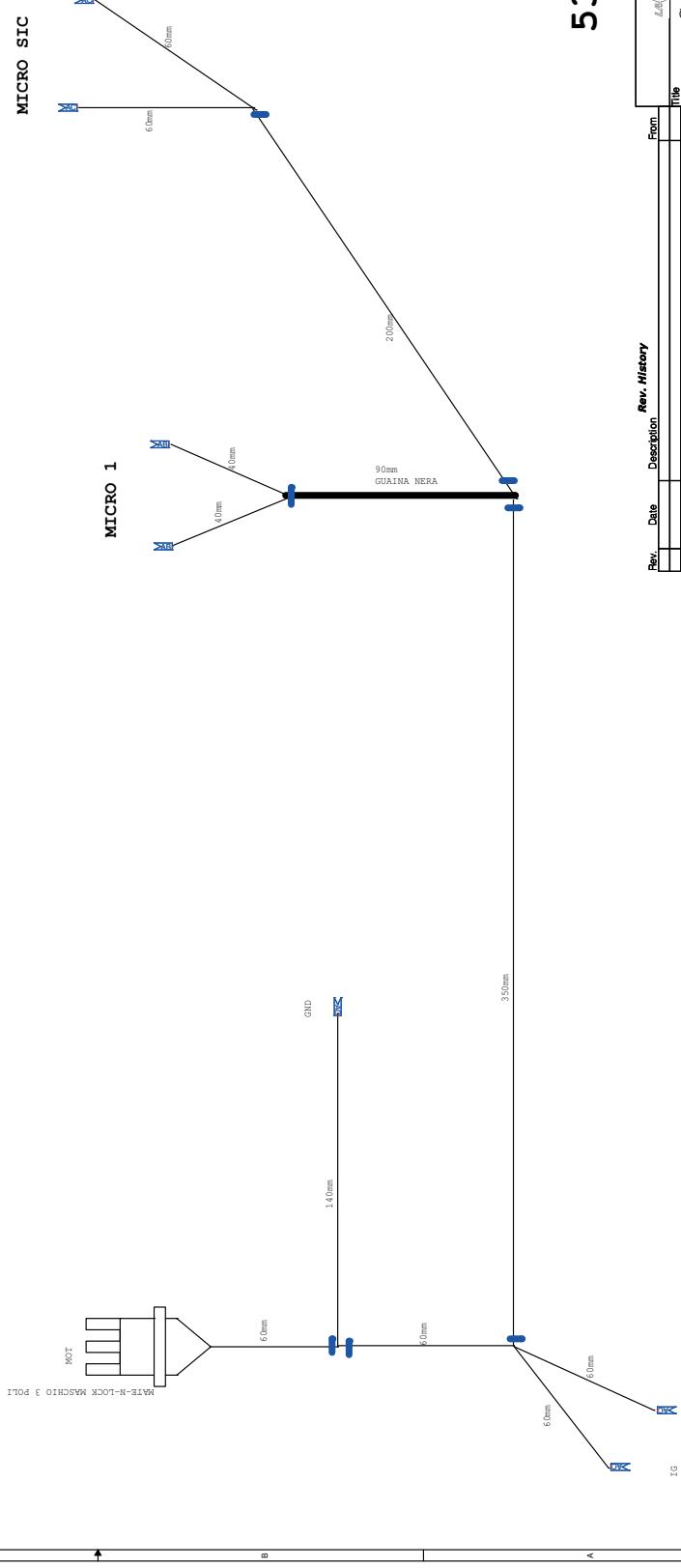


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## WIRING DIAGRAM



535792002



535792001

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