



## INSTRUCTION MANUAL FOR THE INSTALLER

- S3
- S5
- COMPACT
- SUPER 3000
- NEW
- RAPID
- SPAZIO



LSI 001 -UK- REV. 05



Carry out the following procedures referring to the chapter “Parts” on page 82.



### ELECTRONIC CONTROL BOARD SETTING

The electronic control board can be set to control two different water level controls (probe or floater) and to control the two different versions of group delivery (**EK** or **EP**).

The electronic control board has a selector (see Pict 1 - chapter 5.5) for board configuration.

- **WATER LEVEL CONTROL**

According to the type of boiler water level control, it is necessary to set the electronic control board as follows:

- Move the selector to “**S**” if a **PROBE** water level control is used (conduction probe).
- Move the selector to “**R**” if a **FLOATER** water level control is used (magnetic reed).

- **GROUP DELIVERY CONTROL**

According to the type of group delivery control on the appliance, it is necessary to set the electronic control board as follows:

- Move the selector to “**EK**” if a 5-selection touchpad is used with programmable doses (automatic version).
- Move the selector to “**EP**” if a 1-key touchpad is used (semiautomatic version).



**NOTE. These settings are made by the manufacturer during the testing phase!**

Only after replacing the electronic control board, make sure that the new board is pre-set in for the type of water level and delivery controls on the appliance.

## 5.1 EP MODEL






**This appliance is equipped with an electronic control board which controls the water level in the boiler, and the activation of the motor pump and of the cup warmer heating element. It also controls the heat regulation of the boiler temperature and possible malfunctions to be viewed on the display in the form of symbols.**

When the appliance is switched on, the electronic part carries out a check; all symbols on the control panel are switched on from left to right. At the end of this stage, the symbol for the temperature setting will start to flash to indicate that the appliance is heating up.



### SETTING THE OPERATING TEMPERATURE FOR ELECTRIC HEATING






The electric heating system of the appliance is already set by the manufacturer to work at **120 °C** in the boiler, corresponding to **1 bar** boiler pressure and one thermic differential ( $\Delta T$ ) of **1 °C**. The temperature is viewed on the control panel. It is also possible to check the boiler pressure on the pressure gauge (4) on the appliance.

-  **NOTE.** It is possible to deactivate the electric heating of the heating elements by pressing the button  (32) on the programming panel. Once deactivated, the relevant symbol (34) on the control panel will switch off to indicate this state. To reactivate the electric heating, press the button  (32) again: the symbol (34) will switch on.





It can be useful to deactivate the electric heating system in appliances equipped with gas system.

The procedures necessary to change the operating temperature are listed in the following paragraph.

## SETTING NEW OPERATING TEMPERATURE PARAMETERS

- Hold down the button  (40) on the programming panel for **5 seconds**; the symbol on the control panel for the set temperature will remain lit while the other symbols will switch off.
- Use the buttons  (37) or  (38) to change the setting.
- Press the button  (40) to quit the programming function.
-  **NOTE.** The operating temperature (boiler pressure) is usually modified exclusively to adapt the machine temperature to the type of coffee blend used, so as to improve the result in the cup.

## TEMPERATURE PROBE CALIBRATION

- Switch off the appliance.
- Press and hold down the button  (40) and switch on the appliance.
- The “120” symbol will light up on the control panel and the temperature will automatically be set to **120 °C**. It is possible to check the status of the heating elements with the relevant symbol (34): if lit, it means that the SET Temperature has been reached; if flashing, it indicates the heating phase.
- Using the buttons  (37) or  (38) you can change this datum. Each time that the buttons are pressed, probe calibration is changed by **0.5 °C**.  
If the symbol after “120” is flashing, this means that a change of **0.5 °C** has been made; if it is lit, the change is **1 °C**.
-  **NOTE.** Probe calibration is performed by the manufacturer during the appliance testing phase. Only perform the above procedure after temperature probe replacement.

## ELECTRIC CUP WARMER (optional)

Press the cup warmer operating button (24) and check its operating status through the lighting up of the LED (23) on the control panel. To switch it off, press the same button.

## 5.2 ALARM MANAGER – EP MODEL

This model communicates any anomalies through the relevant symbols on the control panel and touchpads.

### 1. ALL DOSE SYMBOLS ON ALL TOUCHPADS FLASHING AND TEMPERATURE SYMBOLS SWITCHED OFF:

- The automatic refill system for the boiler has been operating for longer than **3 minutes** (total block of all machine operations). To restore normal operation, switch the machine off using the main switch. If the problem occurs again, check the automatic refill system for the boiler.

### 2. “125 °C” SYMBOL LIT AND ALL OTHER SYMBOLS SWITCHED OFF:

- When the temperature detected by the probe is above **140 °C**. Check the temperature probe connections to the control board or replace the probe. Alternatively, check the operation of the static relays.

### 3. “105 °C” SYMBOL LIT AND ALL OTHER SYMBOLS SWITCHED OFF:

- When, **20 minutes** after switching on, the temperature detected by the probe is less than **60 °C**. Check the temperature probe connections to the control board or replace the probe. Alternatively, check the safety thermostat.

### 4. ALL TEMPERATURE SYMBOLS FLASHING AND ALL TOUCHPAD SYMBOLS SWITCHED OFF:

- There is a temperature probe short circuit or interruption. Check the temperature probe connections to the control board or replace the probe.

### 5. M.A.T. SYSTEM DELIVERY BUTTON SYMBOL SWITCHED OFF (only if present):

- There is an M.A.T. temperature probe short circuit or failure. Check the temperature probe connections of the system - M.A.T. – to the control board or replace the complete steam wand with probe.



**NOTE.** When this alarm condition occurs, it is still possible to foam milk automatically by holding down the M.A.T. delivery button (43) until the required temperature is reached. When the button is released, steam delivery will stop.

### 6 TECHNICAL ASSISTANCE SYMBOL LIT

*(only if SERVICE management has been set for Technical Assistance):*

- This means the number of pre-set solenoid valve action cycles has reached the set alarm threshold. Enter and set a new number of solenoid valve cycles.

### 7. TECHNICAL ASSISTANCE SYMBOL FLASHING

*(only if FILTER management has been set for Technical Assistance):*

- This means the number of pre-filled litres for the softener has reached the set alarm threshold. Set and fill with a new number of litres for the softener filter.


### 8. “ERROR TX” ON TECHNICAL ASSISTANCE DISPLAY (only with display connected)

- This means there has been a failed or incomplete data transmission to the electronic control board. Check the connection between the control board connector and the display connector.

### 9. “ERROR RX” ON TECHNICAL ASSISTANCE DISPLAY (only with display connected)

- This means there has been a failed or incomplete data receipt by the electronic control board. Check the connection between the control board connector and the display connector.




### 5.3 EK MODEL

 This appliance is equipped with an electronic control board which controls the water level in the boiler, and the activation of the motor pump and of the cup warmer heating element. It also controls the doses of the delivery groups on the EK version (since the appliance has a water dosing system using flow meters), heat regulation of the boiler temperature and possible malfunctions to be viewed on the display in the form of symbols.

When the appliance is switched on, the electronic part carries out a check; all symbols on the control panel are switched on from left to right. At the end of this stage, the symbol for the temperature setting will start to flash to indicate that the appliance is heating up.

#### SETTING THE OPERATING TEMPERATURE FOR ELECTRIC HEATING



The electric heating system of the appliance is already set by the manufacturer to work at **120 °C** in the boiler, corresponding to **1 bar** boiler pressure and one thermic differential ( $\Delta T$ ) of **1 °C**. The temperature is viewed on the control panel. It is also possible to check the boiler pressure on the pressure gauge (4) on the appliance.



 **NOTE** It is possible to deactivate the electric heating of the heating elements by pressing the button  (32) on the programming panel. Once deactivated, the relevant symbol (34) on the control panel will switch off to indicate this state. To reactivate the electric heating, press the button  (32) again: the symbol (34) will switch on.



It can be useful to deactivate the electric heating system in appliances equipped with gas system.

The procedures necessary to change the operating temperature are listed in the following paragraph.

#### SETTING NEW OPERATING TEMPERATURE PARAMETERS





 Hold down the button  (40) on the programming panel for **5 seconds**; the symbol on the control panel for the set temperature will remain lit while the other symbols will switch off.

 Use the buttons  (37) or  (38) to change the setting.




 Press the button  (40) to quit the programming function.

 **NOTE.** The boiler pressure (operating temperature) is usually modified exclusively in order to adapt the machine temperature to the type of coffee blend used, so as to improve the result in the cup.


## TEMPERATURE PROBE CALIBRATION

- Switch off the appliance.
  - Press and hold down the button  (40) and switch on the appliance.
  - The “120” symbol will light up on the control panel and the temperature will automatically be set to **120 °C**. It is possible to check the status of the heating elements with the relevant symbol (34): if lit, it means that the SET Temperature has been reached; if flashing, it indicates the heating phase.
  - Using the buttons  (37) or  (38) you can change this datum. Each time that the buttons are pressed, probe calibration is changed by **0.5 °C**.  
If the symbol after “120” is flashing, this means that a change of **0.5 °C** has been made; if it is lit, the change is **1 °C**.
-  **NOTE.** Probe calibration is performed by the manufacturer during the appliance testing phase. Only perform the above procedure after temperature probe replacement.

## GROUP DOSE SETTING – EK MODEL

- 1° Hold down the free flow button (29) on the first touchpad from the right (1st GROUP) for about 5 seconds, until the symbol  begins to flash (the dose symbols stay lit) and all the symbols on the other touchpads switch off.
  - 2° Within **30 seconds** fasten a filter holder (11 b) containing a dose of ground coffee to the group; put a cup below the filter holder and press the button “**1 short coffee**” (25) on the corresponding touchpad. The symbol for the selected dose will remain lit to indicate that the dose is being set. The symbol  flashes while all others are switched off.
  - 3° When the coffee reaches the required dose, press the button “**1 short coffee**” (25) again to stop the coffee delivery and confirm the required dose. When the dose has been set, the relevant symbol will switch off to show that programming is complete.
  - 4° Repeat this operation for the other buttons (26-27-28), also on the touchpad on the right.
-  **NOTE.** Carry out this procedure to program the remaining doses, using the 1-cup filter holder (11b) or the 2-cup one (11a), according to the type of dose to be programmed.


-  **NOTE.** To quit the programming function, press the free flow delivery button (29) for 5 seconds or, alternatively, wait 1 minute to quit the function automatically.

-  **WARNING!**  
By setting the doses on the first touchpad on the right, automatically the other groups will be acquiring the same doses; if you want to set a group with different doses, repeat the same dose setting procedure on the touchpad corresponding to the group you want to program differently.

### ELECTRIC CUP WARMER (optional)

Press the cup warmer operating button (24) and check its operating status through the lighting up of the LED (23) on the control panel. To switch it off, press the same button.

### TIMED HOT WATER POURING TO PREPARE INFUSIONS - A.T. - (optional)

**1°** Hold down the free flow delivery button (29) of the first touchpad on the right (1st GROUP) for about **5 seconds**, until the symbol  starts to flash (the dose symbols will remain lit) and the symbols of all the other touchpads switch off.

**2°** The symbol on the timed water delivery button will start to flash.

**3°** Press the button for timed hot water delivery (42); the symbol will stop flashing and stay lit to indicate that programming is in progress.

**4°** When the dose has reached the required amount, press the button (42) again to stop.

**NOTE.** To quit the programming function, press the free flow delivery button (29) for 5 seconds or, alternatively, wait 1 minute to quit the function automatically.

## 5.4 ALARM CONTROL - EK MODEL

This model communicates any anomalies through the relevant symbols on the control panel and touchpads.

### 1. ***SYMBOL CORRESPONDING TO THE COFFEE DOSE BUTTON ON DELIVERY MODE, FLASHING AFTER 5-6 SECONDS:***

- Coffee ground too finely.
- Missing reading of the pulses sent by the flow meter to the delivery group.

### 2. ***ALL DOSE SYMBOLS ON ALL TOUCHPADS FLASHING AND TEMPERATURE SYMBOLS SWITCHED OFF:***

- The automatic refill system for the boiler has been operating for longer than **3 minutes** (total block of all machine operations). To restore normal operation, switch the machine off using the main switch. If the problem occurs again, check the automatic refill system for the boiler.

### 3. ***“125 °C” SYMBOL LIT AND ALL OTHER SYMBOLS SWITCHED OFF:***

- When the temperature detected by the probe is above **140 °C**.  
Check the temperature probe connections to the control board or replace the probe. Alternatively, check the operation of the static relays.

### 4. ***“105 °C” SYMBOL LIT AND ALL OTHER SYMBOLS SWITCHED OFF:***

- When, **20 minutes** after switching on, the temperature detected by the probe is less than **60 °C**.  
Check the temperature probe connections to the control board or replace the probe. Alternatively, check the safety thermostat.

### 5. ***ALL TEMPERATURE SYMBOLS FLASHING AND ALL TOUCHPAD SYMBOLS SWITCHED OFF:***

- There is a temperature probe short circuit or interruption.  
Check the temperature probe connections to the control board or replace the probe.

**6 M.A.T. SYSTEM DELIVERY BUTTON SYMBOL SWITCHED OFF:**

- There is an M.A.T. temperature probe short circuit or failure.  
Check the temperature probe connections of the system - M.A.T. – to the control board or replace the complete steam wand with probe.



**NOTE.** When this alarm condition occurs, it is still possible to foam milk automatically by holding down the M.A.T. delivery button (44) until the required temperature is reached. When the button is released, steam delivery will stop.

**7 TECHNICAL ASSISTANCE SYMBOL LIT**

*(only if SERVICE management has been set for Technical Assistance):*

- This means the number of pre-set solenoid valve action cycles has reached the set alarm threshold. Enter and set a new number of solenoid valve cycles.

**8 TECHNICAL ASSISTANCE SYMBOL FLASHING**

*(only if FILTER management has been set for Technical Assistance):*

- This means the number of pre-filled litres for the softener has reached the set alarm threshold. Set and fill with a new number of litres for the softener filter.

**9 “ERROR TX” ON TECHNICAL ASSISTANCE DISPLAY (only with display connected)**

- This means there has been a failed or incomplete data transmission to the electronic control board. Check the connection between the control box connector and the display connector.

**10 “ERROR RX” ON TECHNICAL ASSISTANCE DISPLAY (only with display connected)**

- This means there has been a failed or incomplete data receipt by the electronic control board. Check the connection between the control board connector and the display connector.



## 5.5 AUTOMATIC MILK FOAMING SYSTEM WITH ADJUSTABLE TEMPERATURE - M.A.T. - (optional)

After the correct temperature setting process and the air suction adjustment, this system can be used for automatic milk foaming.

To program the set temperature, proceed as follows:

1. Switch off the appliance
2. Press and hold down together the buttons **+** (37) and **-** (38), on the programming touchpad and switch on the appliance using the main switch (3).
3. Only the previously set value for the temperature will remain lit on the control panel.



**NOTE.** The temperature value on the control panel must be converted back using the conversion table here below:

°C	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	
☞	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	☞

4. To change the setting, press the buttons **+** (37) and **-** (38).
5. To quit the programming function and store the new setting, switch the appliance off and then on again, using the main switch (3).

After setting the temperature, it is necessary to set the air suction using the milk foamer regulator behind the front panel, close to the steam wand with the steam wand with temperature probe (Pict 17).

Turn the adjustment screw anticlockwise to increase milk foaming.

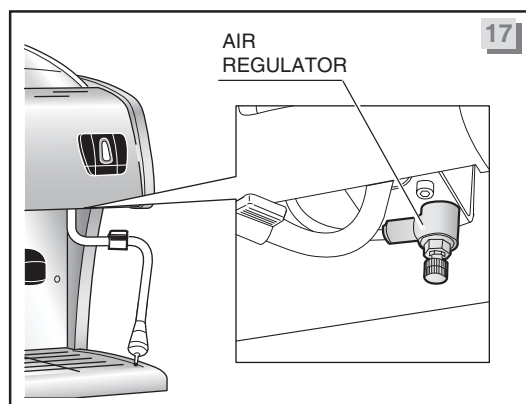
Turn the adjustment screw clockwise to reduce milk foaming.

An approximate calibration is carried out during the test testing phase, loosening the adjustment screw by one and a half turns.



### WARNING!

When adjusting the milk foaming level, take care not to touch the steam wand with temperature probe (45) or wear protective gloves, to prevent possible burns.



## 5.6 MILK SENSOR CALIBRATION (optional)

It is possible to calibrate the milk sensor in order to align the real temperature reading of the **PT1000** (system **M.A.T.** milk sensor) to the preset temperature.

- Switch the appliance off.
- Press the button **+** (37) and, keeping it pressed, switch the appliance on.  
The symbols **114 – 115 – 116** switch on on the control panel and they show the zero value of the calibration range.
- It is possible to change the datum pressing the buttons **+** (37) and **-** (38) : every time you press the button **+** (37) the symbols **117 - 118 - 119** etc. start flashing, every led switching on corresponds to a value variation of **+1° C** sensed by the milk sensor .
- It is possible to go back negatively in the calibration range pressing the button **-** (38).
- Every time you press the button **-** (38) the symbols **113 – 112 -111** etc. start flashing, every led switching off corresponds to a value variation of **-1° C** sensed by the milk sensor.
- Pressing the button **+** (37) it is possible to go on positively in the calibration range.

Switching the appliance off and on again, the datum is stored.  
The milk sensor calibration has a range of **-9° C, + 9° C**.

## 5.7 DELIVERY GROUP INDIVIDUAL TEMPERATURE CONTROL - I.T.C. - (optional)

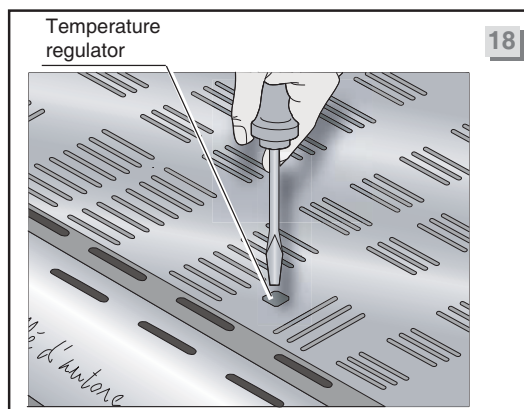
This system makes it possible to set a different coffee brewing temperature for each delivery group.


 **The temperature of each group is independent from the temperature set in the boiler.**

To vary the temperature on a group, use the corresponding regulator alongside the group itself, which can be reached through the opening in the top of the, upper cup grid (14) (Pict 18).

Turn the adjustment screw anticlockwise to decrease the temperature.

Turn the adjustment screw clockwise to increase the temperature.



 **NOTE.** Every full turn of the adjustment screw corresponds to a change of approximately **2 °C**. Changes must only be made to adapt the temperature of the delivery group to the coffee blend being used, so as to improve the result in the cup.

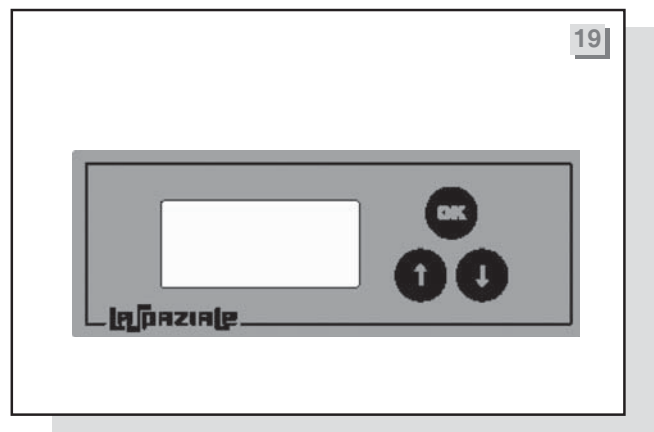
## 5.8 SCHEDULED TECHNICAL ASSISTANCE PROGRAM – G.A. - (optional)

The scheduled technical assistance program makes it possible to keep some appliance parameters under control, making it possible to set a minimum threshold after which an alarm signal is given.

The program makes it possible to organise regular routine maintenance for the delivery groups (enabling the **SERVICE** menu) and/or the replacement of the filter cartridge or resin regeneration for the softener (enabling the **FILTER** menu).

 **The appliances preset for this function still have the technical assistance program deactivated.**

 **NOTE. To enable these controls it is necessary to have the technical assistance display (Pict 19).**



When the display is connected, it will read “La Spaziale” for about **5 seconds** followed by the version of the control board fitted on the machine for another **3 seconds**.

After the above cycle, the display will read:




NO  
DATA


to indicate that the technical assistance is deactivated.

To enable one or both available controls, proceed as follows:




hold down the button  for about **3 seconds**, this opens the **SERVICE** menu and the display will read:

SERVICE  
Y        N

Where “Y” (Yes) will be flashing. To select “N” (No) press one of the 2 arrow keys  , “N” will start to flash. If you press the button  the control of delivery cycles will remain deactivated, passing directly to the softener **FILTER** settings.

If you confirm with “Y”, pressing the button , you enable the control and move to the setting of the number of solenoid valve insertion cycles, a number which decreases at every delivery operation. The display now shows:




The LCD display shows the word "CYCLES" on the top line and "N. 00000" on the bottom line.


Where the first “0” on the right is flashing; when the button  is pressed, this increases the number (0 - 9), while pressing the button  moves onto the most important digit on the left (the selected digit flashes to indicate that it can be changed). Once the required delivery cycle value has been set, confirm the setting by pressing the button .

 **NOTE.** The set number is not a count of the number of cups of coffee delivered by the appliance, it is just a control over the solenoid valve insertion cycles for the groups and therefore, for example, 100 solenoid valve cycles do not correspond to 100 delivered cups of coffee.

Confirming the setting makes it possible to enter a minimum number of cycles which, when reached, will cause the appliance to display an alarm on the control panel (13) by switching on the relevant control light (43). The display will read:




The LCD display shows the word "ALARM" on the top line and "N. 00000" on the bottom line.


where the first “0” on the right is flashing. When the button  is pressed, this increases the number (0 - 9), while pressing the button  moves onto the most important digit on the left (the selected digit flashes to indicate that it can be changed). Once the delivery cycle alarm value has been set, confirm the setting by pressing the button .

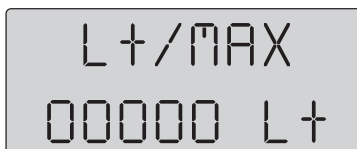
 **NOTE.** The number cannot be greater than or equal to the maximum number of solenoid valve cycles set previously.




After confirming the setting, the program passes onto the settings for the softener FILTER menu. The display will show:

The LCD display shows the word "FILTER" on the top line and "Y N" on the bottom line.




Where “Y” (Yes) will be flashing. To select “N” (No) press one of the 2 arrow keys  , “N” will start to flash. If you press the button  the control of the softener filter remains deactivated, quitting the programming function and returning to the initial screen.


If you confirm with “Y”, pressing the button , enables the control and allows the setting of the number of softener litres, after which it is necessary to replace the filter. The number decreases at every delivery operation. The display must read:



where the first “0” on the right is flashing. When the button  is pressed, this increases the number (0 - 9), while pressing the button  moves onto the most important digit on the left (the selected digit flashes to indicate that it can be changed). Once the litre value has been set, confirm the setting by pressing the button . At this point it is possible to enter a minimum number of litres, after which the appliance will display an alarm on the control panel (13) by switching on the relevant control light (43). The display will read:



Where the first “0” on the right is flashing. Pressing the button  will increase the number (0 - 9), while pressing the button  moves to the most important digit on the left (the selected digit will flash to show that it can be changed). Once the litres value has been set, confirm the setting by pressing the button , and it is possible to quit the programming function.


 **NOTE.** The number cannot be greater than or equal to the maximum number of solenoid valve cycles set previously.

With the controls enabled and the display connected, the display will show the remaining number of cycles before it is necessary to proceed with maintenance



or the number of litres remaining before the softener **FILTER** cartridge needs to be replaced:






 **NOTE.** the visualization is alternatively shown on the display only if both controls have been enabled, otherwise, only the enabled control is displayed. The number of cycles is decreased after every 50 solenoid valve activations. The number of litres for the filter is reduced after every 10 litres of water consumed.




Every time a new setting is stored to memory, the display will read






**Setting the softener filter parameters.**

To access the menu to set softener filter parameters, press and hold down all three keys    for **3 seconds**. The display will read:

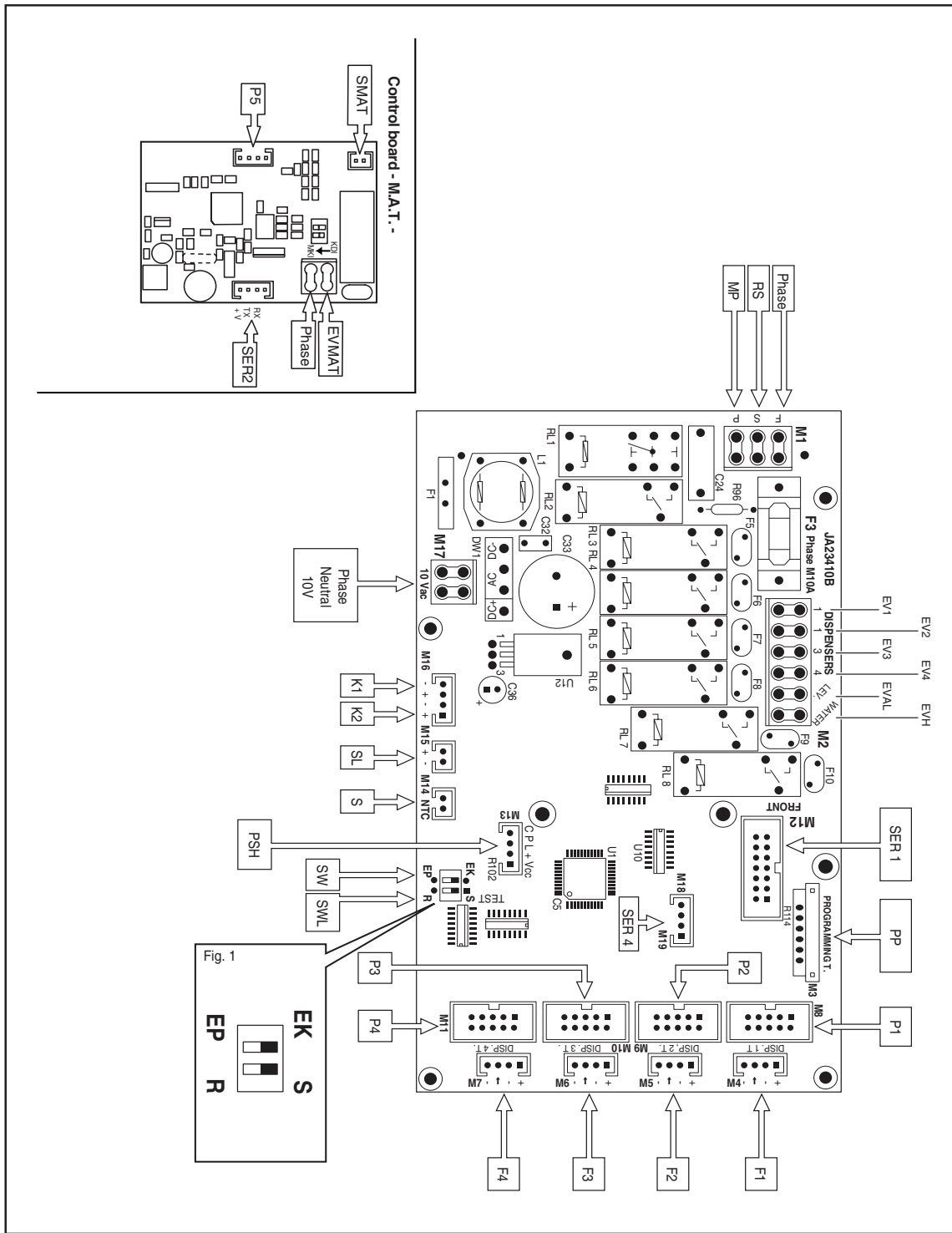


Where “**0.54 ml**” is the correspondence between a flow meter pulse and the amount of water delivered by the group given in millilitres. Pressing the buttons   decreases or increases the setting (**0.30 ml – 0.90 ml**). Pressing the button  confirms the setting and the display will read:



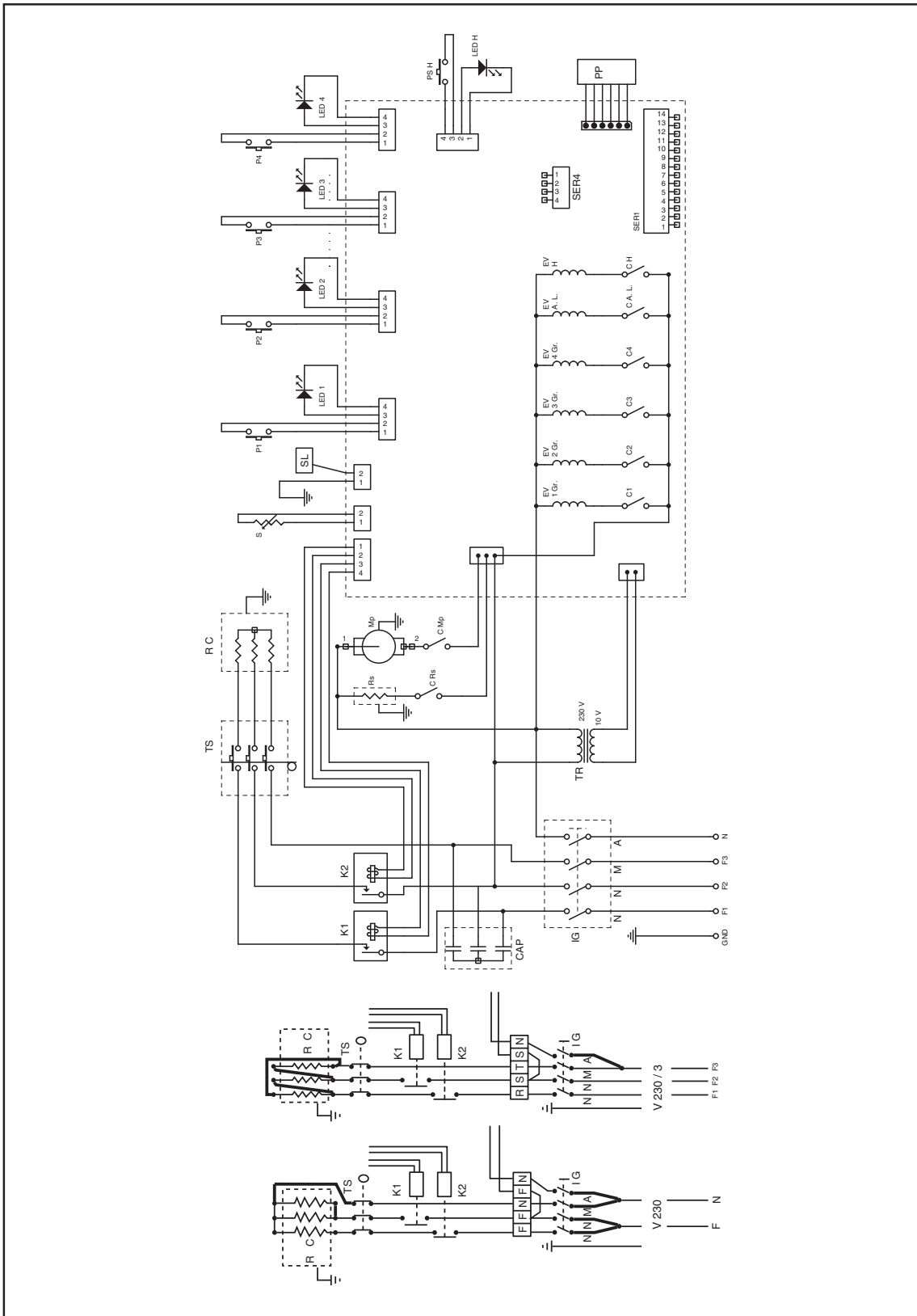
Where “**1750 ml**” is the correspondence between 1 minute of operation of the automatic boiler refill system and the amount of water introduced, given in millilitres. Pressing the buttons   increases/decreases the setting (**1000 ml – 2000 ml**). Pressing the button  confirms the setting and returns to the initial display menu.

5.9 DIAGRAMS FOR ELECTRONIC BOARD CONNECTIONS



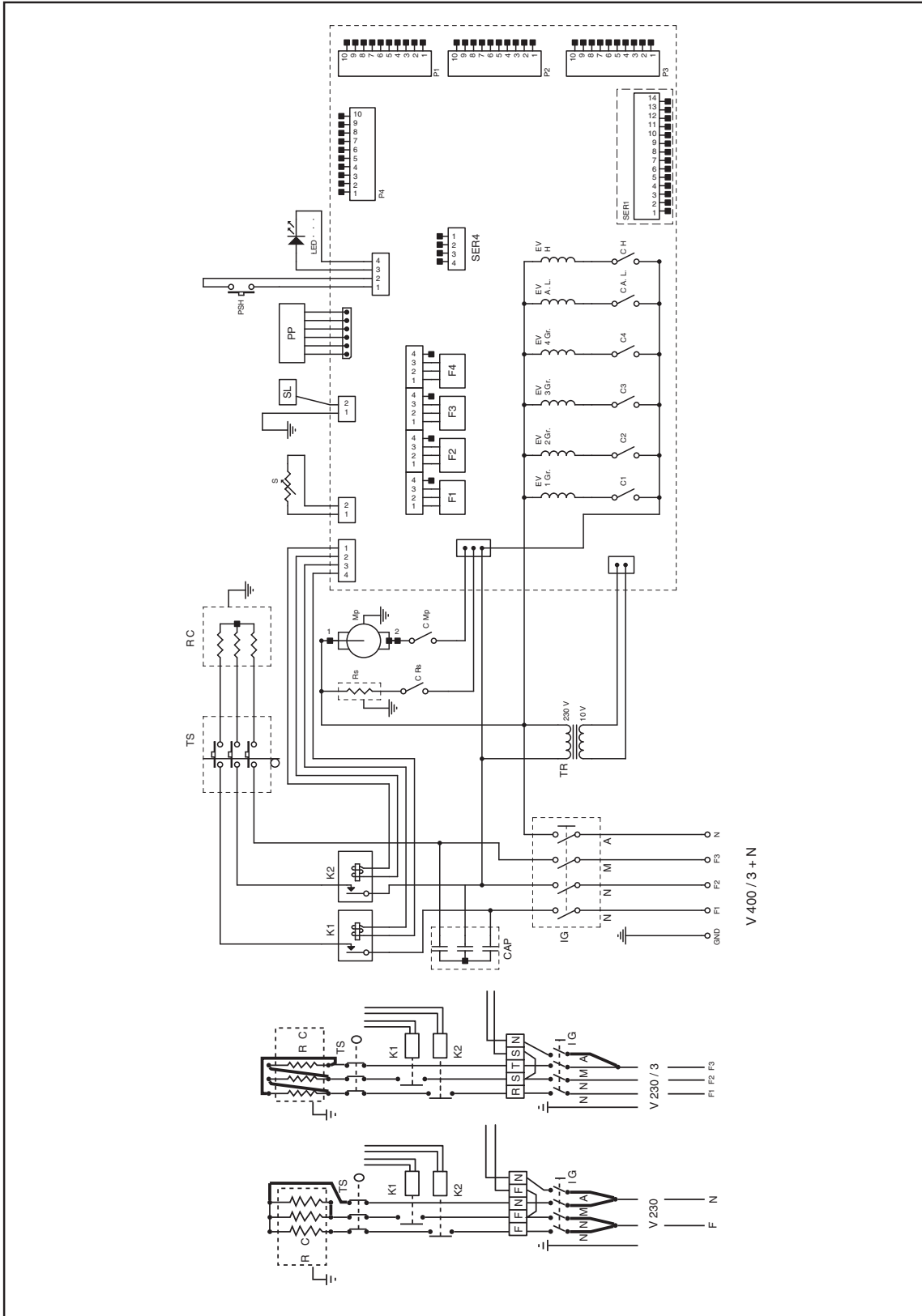
## 5.10 WIRING DIAGRAMS

### S5 EP





S5 EK

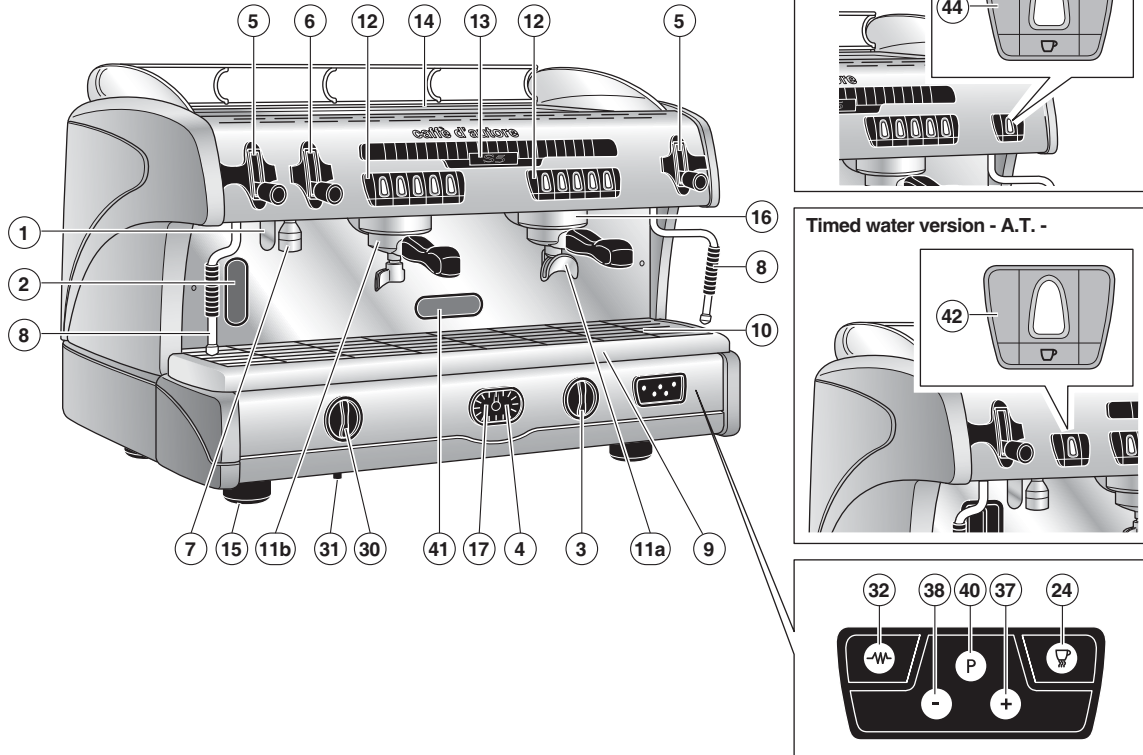


**KEY TO DIAGRAMS**

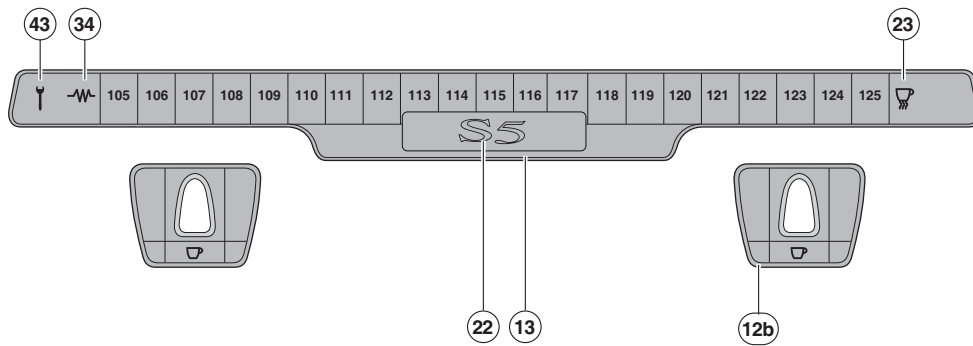
<b>MP</b>	Motor pump	<b>TS</b>	Safety thermostat with manual reset
<b>RS</b>	Cup warmer heating element	<b>TR</b>	Transformer for board
<b>RC</b>	Boiler heating element	<b>CRS</b>	Control board relay controlling the cup warmer heating element
<b>EVAL</b>	Solenoid valve, automatic water refill	<b>CMP</b>	Control board relay controlling the motor-driven pump
<b>EV1</b>	Solenoid valve, 1st group from the right	<b>C1</b>	Control board relay controlling the solenoid valve, 1st group from the right
<b>EV2</b>	Solenoid valve, 2nd group from the right	<b>C2</b>	Control board relay controlling the solenoid valve, 2nd group from the right
<b>EV3</b>	Solenoid valve, 3rd group from the right	<b>C3</b>	Control board relay controlling the solenoid valve, 3rd group from the right
<b>EV4</b>	Solenoid valve, 4th group from the right	<b>C4</b>	Control board relay controlling the solenoid valve, 4th group from the right
<b>EVH</b>	Solenoid valve, timed water (optional)	<b>CAL</b>	Control board relay to control the automatic water level solenoid valve
<b>PSH</b>	Timed water button (optional)	<b>CH</b>	Control board relay to control the timed water solenoid valve
<b>PP</b>	Programming touchpad	<b>SER4</b>	Serial connection RS232
<b>P1</b>	Touchpad, 1st group from the right	<b>SER1</b>	Front panel connection to power board
<b>P2</b>	Touchpad, 2nd group from the right	<b>P5</b>	Button - M.A.T. -
<b>P3</b>	Touchpad, 3rd group from the right	<b>SMAT</b>	Probe - M.A.T. -
<b>P4</b>	Touchpad, 4th group from the right	<b>EVMAT</b>	Solenoid valve - M.A.T. -
<b>SL</b>	Control for water level in the boiler	<b>SER2</b>	Technical assistance display connection -G.A.-
<b>S</b>	Temperature probe in the boiler		
<b>F1</b>	Flow meter for 1st group from the right		
<b>F2</b>	Flow meter for 2nd group from the right		
<b>F3</b>	Flow meter for 3rd group from the right		
<b>F4</b>	Flow meter for 4th group from the right		
<b>IG</b>	Main switch		
<b>K1</b> and <b>K2</b>	Static relays		

5.11 PARTS

S5



S5 EP



S5 EK

