USER MANUAL

2011-11-01

“STAR POD” COFFEE MACHINE

MODEL CM3ST

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Vers.0409

Technical features

Trade name:	**STAR POD**
Type:	**CM3ST**
Rated voltage:	**230 V – 50/60Hz**
Rated power:	**1,400 W**
Rated water supply pressure:	**0.1MPa (1 bar)**
Maximum water supply pressure:	**0.2MPa (2 bars)**
Maximum noise level:	**75 dB weighted A**

DIMENSIONS: **WxDxH=260 x 400 x 400**

WEIGHT: **10 Kgs**

MACHINE CAPACITY

- **60 coffees / day**
- **hot water output: 250ml / min**

I- INFORMATION AND SAFETY

a) Standard symbols, information and safety

EC marking:
Confirms that the product complies with European Community directives.

Separate collection marking:
Shows that WEEE should be collected separately.

Standard EN 50419:
Shows that the product was marketed after 13 August 2005.

RoHS marking:
Shows that the product complies with RoHS directive 2002/95/EC.

Lead-free marking:
Shows that the product is lead-free.

1,2,3 Spresso marking:
Identifies patented coffee pod and extraction process systems.

Technopool-Facotec marking:
Identifies the equipment manufacturer.

Marking:
Identifies the trade name of the equipment.

CM3ST **Identifies the type of equipment.**

Warning:
Risk of burns and/or damage or loss of data – Take care.

Warning – high voltage: Electrical accident hazard – Dangerous voltages – Take care.

b) General safety information

Safety symbols

Warning symbols:
The exclamation mark symbol is to draw your attention to important safety instructions and warnings.
It is essential to comply with those instructions, or risk serious injury and/or damage.

Warning – high voltage:
The flash in a triangle symbol is to draw your attention to important safety instructions concerning an electrical hazard.
It is essential to comply with those instructions, or risk electrical accidents resulting from contact with dangerous voltages.

More specific comments and warnings are given at the appropriate place in documentation and in the various documents that accompany the coffee machine.

There are also comments and warning symbols directly on the machine and its components. They should also be read and followed carefully.

Requirements for safe use

Use

To use the equipment described correctly and safely, it is essential to fully understand and follow the general and specific product safety instructions included in the present documentation.

Repair

Installation and repair personnel should be specialists in the equipment concerned and be fully aware of the safety regulations generally applied.

Preventing injury and damage

If you conscientiously follow the safety instructions, you should avoid any risk of injury or damage. These instructions are given in the product documentation, other documents that accompany it and on it. Above all, be careful and aware of hazards.

Safety equipment

Removing, short-circuiting or disabling safety equipment, safety functions or supervision systems is strictly prohibited.

Never remove guards, casings or other safety covers.

Electrical safety / electronic components

Check the mains voltage before connecting the machine.

Before repairing, cleaning or changing a component, switch off the machine and disconnect it from the electricity supply.

Check that the machine is switched off before inserting or extracting connectors.

Protect all electronic components, exposed printed circuits, unused sockets and other parts connected to the internal wiring from electrostatic discharges.

Operational safety

Do not switch the machine off in mid-cycle.

Do not switch the machine off in programming mode.

When the machine is switched off, wait for at least 10 seconds before switching it on again.

Electromagnetic compatibility

EMC

Avoid any interference, especially electromagnetic, with the signal or wiring, that might cause a malfunction or adversely affect safety.

EMC, internal

Do nothing that could reduce the machine's guaranteed EMC rating.
Comply with the following points:

- Do not remove guards, covers, parts of the body, protective screening, socket covers, etc..
- Re-establish screening after dismantling/repairing connector conductor points (e.g. screw connection, contact surfaces)
- Do not remove interference reducing components (e.g. ferrites, filters, etc..)
- Use recommended connection systems; e.g. wiring layout, protective electrical connections, connection points and principle of connecting earth/ground conductors and screened cables.

EMC, external

Pay particular attention to the following points when installing connection systems with external wiring:

- Position wiring for signals and electricity supply wiring in physically distinct locations.
- Position wiring in the immediate proximity of metal surfaces (earth/ground)
- Braid the electric wires of all unscreened output and input wiring.
- Use only screened wires for digital signals (data wiring). Check the earthing/grounding at each end of screening.
- Keep the length of wiring to the minimum.
- Redundant strands of wire at either end of earth/ground wires (at least one of the ends).
- Comply with connection systems and principles specified for the project concerned.

ELECTRONIC JAMMING

In the event of electronic jamming of the machine causing the display to malfunction, switch the machine off for five seconds then switch it on again.

c) Recommended use

"STAR POD" machines, and the peripherals described in the present documentation are intended for making coffee and producing hot water.

Making coffee requires the exclusive use of 1,2,3 Spresso type pods made by Malongo.

There are several varieties of coffee that can be used (see the coffee menu)

Coffee machines and their various additional components are designed to be used under normal ambient conditions.
(Home, office , kitchen small bar climate)
Ambient working temperature from 5°C to 30°C

If unsure, contact your supplier or the manufacturer directly, for further information on using the machine under other conditions.

The machine should be sited in a horizontal position.

The machine should be installed only in places where it can be used and maintained solely by trained, qualified personnel.

Only people with knowledge of the machine and practical experience should be allowed in the service area, in particular as concerns health and safety.

The machine is not suitable for installation where water may be sprayed of squirted.

Any use of the machine for purposes other than described herein will be considered improper.

Incorrect use or use for purposes other then those recommended may result in injury or may damage the equipment. The manufacturer declines any liability in the event of any such damage or injury occurring and may rescind any warranty.

Hazards in use, persistent hazard

Devices and components described in the repair manual use the very latest technology available and guarantee the standard of safety required, so far as possible, under the circumstances anticipated.

There are no particular hazards under normal conditions of use.

There is a risk of burns in the immediate proximity of the coffee outlet.

There is a risk of burns in the immediate proximity of boilers when they are being repaired, which must only done be by a specially qualified person.

In the event of the machine being used with the pod feed guard open, when being repaired, there are hazards at the extraction unit (pinching, burns, splashing).

A jammed pod should only be removed from the extraction unit by personnel trained to do so.

Do not push a pod with a finger when starting a coffee cycle, as it may be pinched in the extraction unit.

The company or its representatives must provide appropriate training courses for users.

d) Maintenance

Hygiene

In order to prevent any risk of smells or the proliferation of bacteria and/or mould, it is essential to maintain hygiene and cleanliness at all times.

- The coffee outlet filter should be removed for washing at least once a month. (See repair section)
- The used pod container should be emptied daily and washed at least once a month.
- The extraction unit should be cleaned dry, using a paint brush in order to prevent any risk of damaging the safety sensor.
- The water container should be washed regularly and water should not remain in it for more than a day.
- Do not reuse worn water system connection assemblies.
- Comply with national rules on connecting to the mains water supply systems.

The company or its representatives must provide appropriate training courses.

e) Packaging, storage, transport

Packaging, storage, transport

Unsuitable packaging, storage and transport conditions can damage products. Damage is the responsibility of the person who caused it.

Comply with the following points:

- Comply with regulations on packaging, storage and transport.
- Carefully read all instructions in this documentation.
- Carefully read the instructions on packaging materials and means of transport.

Original packaging	Use the original packaging supplied by the manufacturer or supplier, or packaging material of equivalent quality, in cases where average mechanical and climatic requirements must be satisfied during transport.
Protection	Avoid subjecting packaging to excessive external constraints. Do not stack pallets.
Transport	Match the packaging to the appropriate means of transport (shipping, open vehicles, etc..)
Storage	Store equipment in a dry place protected from unfavourable weather conditions. Guard against condensation which might cause the machine to malfunction when put into operation.

f) Protection of the environment

The manufacturer guarantees minimum impact on the environment when the product was made. The user is responsible for taking the necessary measures when it is scrapped to reduce any undesirable impact on the environment.

Dispose of waste appropriately, sorting it according to type. This enables basic materials to be reused and the environment to be protected.

For example, dispose of problem waste separately such as plastic packaging from pods and stirrers.
Then sort the remaining waste such as used pods and sugar packaging.

In the event of a problem, contact the appropriate waste treatment plants which will help you dispose of waste in accordance with current regulations and compatibly with preserving the environment.

In the event of connection to the mains water supply, current national rules must be complied with.

II- Unpacking and setting up

a) Unpacking

- Position the box as indicated by the arrows.
- Open it and remove the top spacer.
- Lift the machine taking the necessary precautions and remove the protective plastic.
- Do not mislay any components or notices supplied with the machine.

b) Setting up

Put the machine in an appropriate place ensuring that you leave a space of at least 10 cm between the rear panel and the wall and 20cm either side so that it is possible to remove the pod container and water tank.

- Ensure that all components (guards, pod container, water container) are in their correct places.
- Fill the water container **or** connect the machine to the mains water supply*
- Connect the machine to the 230V mains supply.
- When switched on the machine shows:

  "MACHINE HEATING" (the 5 LEDs flash)

- When the machine is ready, it shows:

  "IN SERVICE" (the 5 LEDs stay on)

- To start the pump, press the button for 5 seconds

c) Automatic water supply

The machine can be connected to a water supply. To do so:

- Switch the machine off
- Connect the solenoid valve at the back of the machine using the Ø 6.35 pipe. Switch the machine on by holding the button down and put it into Prog mode (see Ch. III-d)
- Put the machine on "SUPPLY"

IMPORTANT:

DO NOT RUN THE PUMP WITHOUT WATER FOR MORE THAN A MINUTE

**A "LEAK PREVENTION" SYSTEM SHOULD BE FITTED IF THE MACHINE IS CONNECTED TO A WATER SUPPLY.*

IMPORTANT: ABOUT WATER FILTER, LIMESCALE, SERVICE AND WARRANTY

WATER FILTER
Only use the machine if a BRITA cartridge is fitted in the water tank.
The BRITA cartridge supplied with your machine must be changed regularly i.e. every 2nd month to avoid the buildup of lime scale inside the machine.
Please note! If the machine is used making more than 60 espressos per day, the Brita Filter MUST be changed EVERY month.
Failure to use Brita filter may cause the machine to stop.
You can purchase BRITA filter from your supplier.

LIMESCALE
Even if a BRITA filter is used, small amounts of lime scale residues will build up inside the machine and must be cleaned with a descaling solution based on citric acid.
A descaling procedure should be done at least every 6 months.
Failure to do this may cause the machine to stop.
From your supplier a kit with both a citric acid solution and a rubber pod can be purchased.

WARRANTY
The machine comes with a 2 year limited warranty.
Problems due to lime scale are not covered by the warranty.

SERVICE
Please note that cleaning the extraction unit, the water tank and the box for used pods must be done once every month.

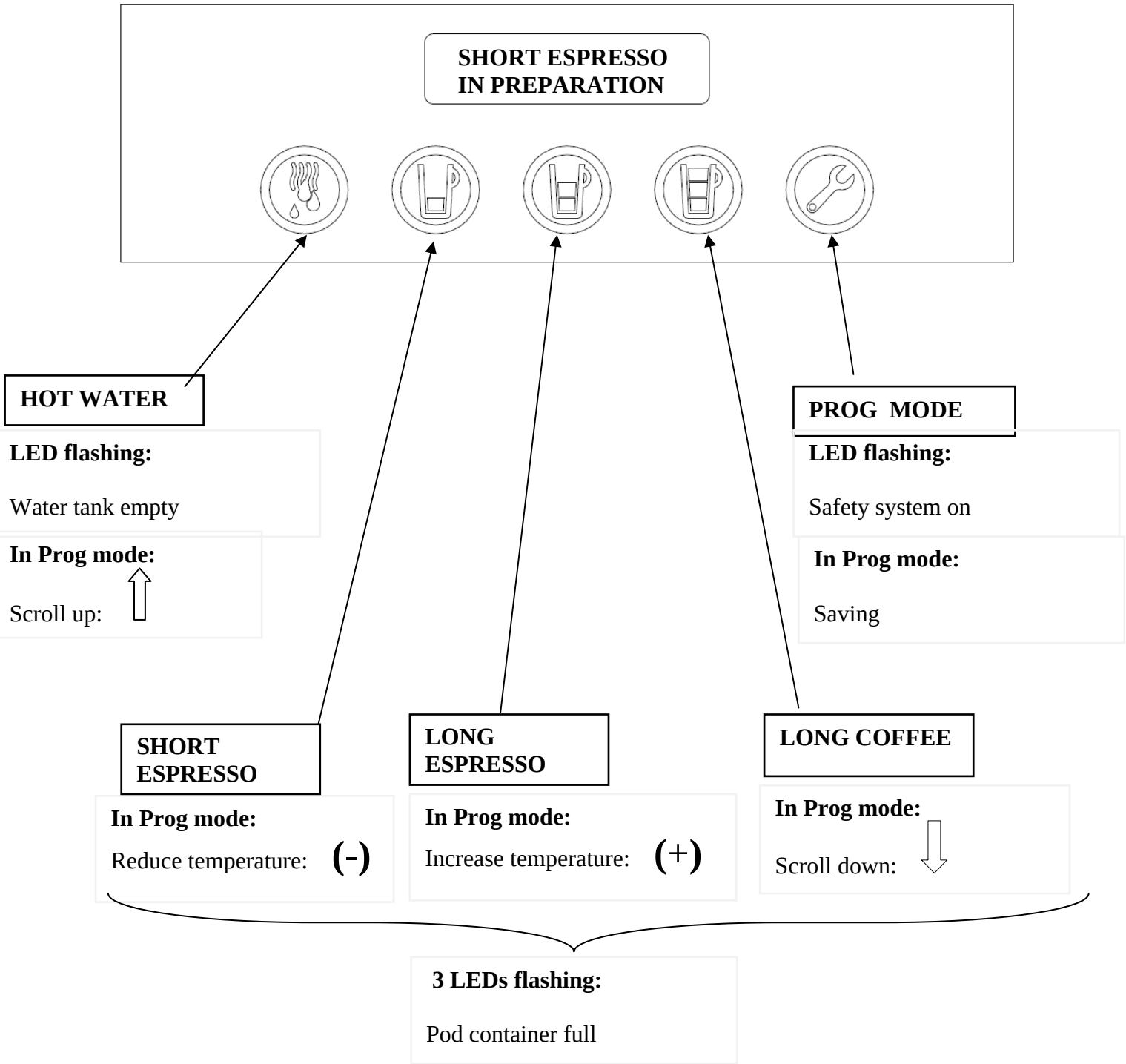
MAKING A LOT OF ESPRESSOS?
The maximum average capaticy is: 60 Espressos per day /1200 per month
Please note, this machine is designed and made for use at home, in offices or in a small bar making up to 60 espressos per day. Making more espressos from time to time / some hours , is most likely ok but not recommended.

Making A LOT MORE espressos than mentioned here will VOID THE WARRANTY.

III- Operation

a) Control panel

The display shows the function selected.



b) Coffee functions

To make a coffee, put a pod into the “pot feed guard” slot then press the appropriate coffee button , or , the cycle starts and stops automatically. The quantity and time settings are factory-set and can be changed as detailed in chapter IV.

At the end of each coffee cycle, the pods are ejected into the used pod container which enables filters still clean after each coffee to be kept.

c) Hot water function

A hot water outlet is available for making tea or any other hot drinks.

Press the button to start and/or stop the cycle or wait for auto stop.
The time setting can be changed as detailed in chapter IV.

d) Programming mode

To go into Prog mode, switch the machine off then on again by holding the button down until the following message appears:
“IN PROGRAMMING MODE”

Use the control panel to **scroll**, **change** and **save** values.

The following functions are programmable:

1-	**SHORT ESPRESSO** **VALUE = 40ml**	**(Adjustable from 20 to 250ml)**
2-	**LONG ESPRESSO** **VALUE = 55ml**	**(Adjustable from 20 to 250ml)**
3-	**LONG COFFEE** **VALUE = 120ml**	**(Adjustable from 20 to 250ml)**
4-	**HOT WATER** **VALUE = 5s**	**(Adjustable from 5 to 40s)** **(0 = Hot water not allowed)**
5-	**COFFEE BOILER** **(-) ■■□□□□□□□□ (+)**	**(Adjustable from 0 to 10 digits)**
6-	**POD COUNTER** **VALUE = 123**	**(Reset impossible)**
	DAY COUNTER **VALUE = 123**	**(Reset by pressing + or -)**

7-

8-	**POD CONTAINER** **VALUE = 30**	**(Adjustable from 0 to 30)** **(0 = Stop the counting function)**
9-	**CHOOSE LANGUAGE** **FRENCH**	**(French / English / Portuguese)**
10-	**WATER INDEPENDENT**	**(Independent / Supply)**
11-	**WATER FILTER** ■■■■■■■□□□	**(To be replaced when the digits are all full. 100 litres lasts as stated in the manufacturer's data)**

Remember to save your changes.

To leave Programming mode, switch the machine off and switch it on again.

e) De-scaling mode

1- Switch the machine off

2- Remove the softener filter and its support

3- Remove the bowl and put a suitable container in its place

4- Empty the used pod container and put it back in place

5- Put ½ litre of water in the water tank and top up with the de-scaling product

6- Put the de-scaling strip in

7- Hold the button down and switch the machine on, release the button when the **"CLEANING STOPPED"** message appears.

8-Start the cycle by pressing the button

9- The cycle stops automatically when the water container is empty or when the button is pressed

10- At the end of the cycle, remove the water container and rinse it in fresh water.

11- To rinse the machine, fill the water container with fresh water only and

repeat the cleaning operation by pressing the button

12- At the end of the cycle, remove and rinse the pod container and switch the machine off in order to leave cleaning mode

f) Information and safety messages

The machine is fitted with various sensors and probes to ensure maximum safety and ease of use.

The following messages may appear:

POD CONTAINER FULL	Empty the pod container
POD CONTAINER EMPTY	After *6s this message appears telling you that the pod container is empty. You can then replace it in its housing.

*The counter is initialised when the pod container is removed from its housing for more than **6s**.

TANK EMPTY	<u>2 possible cases:</u> 1- Top up the water 2- Flow meter blocked if the message appears when the water tank is not empty or if the water supply is operating correctly.
SAFETY SYSTEM ON	<u>2 possible cases:</u> 1- Check that the pod feed guard is properly secured 2- Unit safety system on, pod jammed.

STARPOD WITH WATER CONNECTION

(This manual is to be used together with the Instruction for use.)

INSTALLATION

Water pressure

With the fixed water supply you must use a pressure regulator with a manometer. The water supply in a house has normally a pressure of 3-4 bars and this must be reduced down to a water pressure of max 1 bar, going into the machine. Too high pressure will cause water leakage inside the machine and the warranty is void.

Filter

With the fixed water supply you must use an external permanent limescale filter or a long life (1 year) Brita filter (not Maxtra) to avoid limescale from building up in the pipes inside the machine.
Please note! The use of a proper limescale filter is the most important thing for the machine.
Limescale problems are not covered by the warranty.

A plumber

Your local plumber will supply you with a permanent or long life filter, the tubing and pipes and the regulator with a manometer and do a proper installation.

MAINTENENCE

Citric acid solution

Approx 2 times per year you must also run a cleaning procedure using a de-scaling solution based on citric acid. Read more about this and other important things in the Instruction For Use.

Extraction unit

The extraction unit (where the pods is fixed during brewing) and its coffee outlet filter shall be cleaned at least once a month with a soft brush and then clean with water to take away coffee residues.

Using the water tank.

Please note that the StarPod can also be used with only the water tank. For example while waiting for a plumber, or if it is moved to a different room or if there is s failure of the water connection. Use the tank and with a Brita Maxtra filter. The Maxtra filter must changed every 2-3 months if the StarPod is used like this. Failure to change Maxtra filter will cause limescale problems and this is not covered by the warranty!

Please Note!

Before use You must change back the option “SUPPLY” to “**Independant**” in the set up of the machine.

Connector

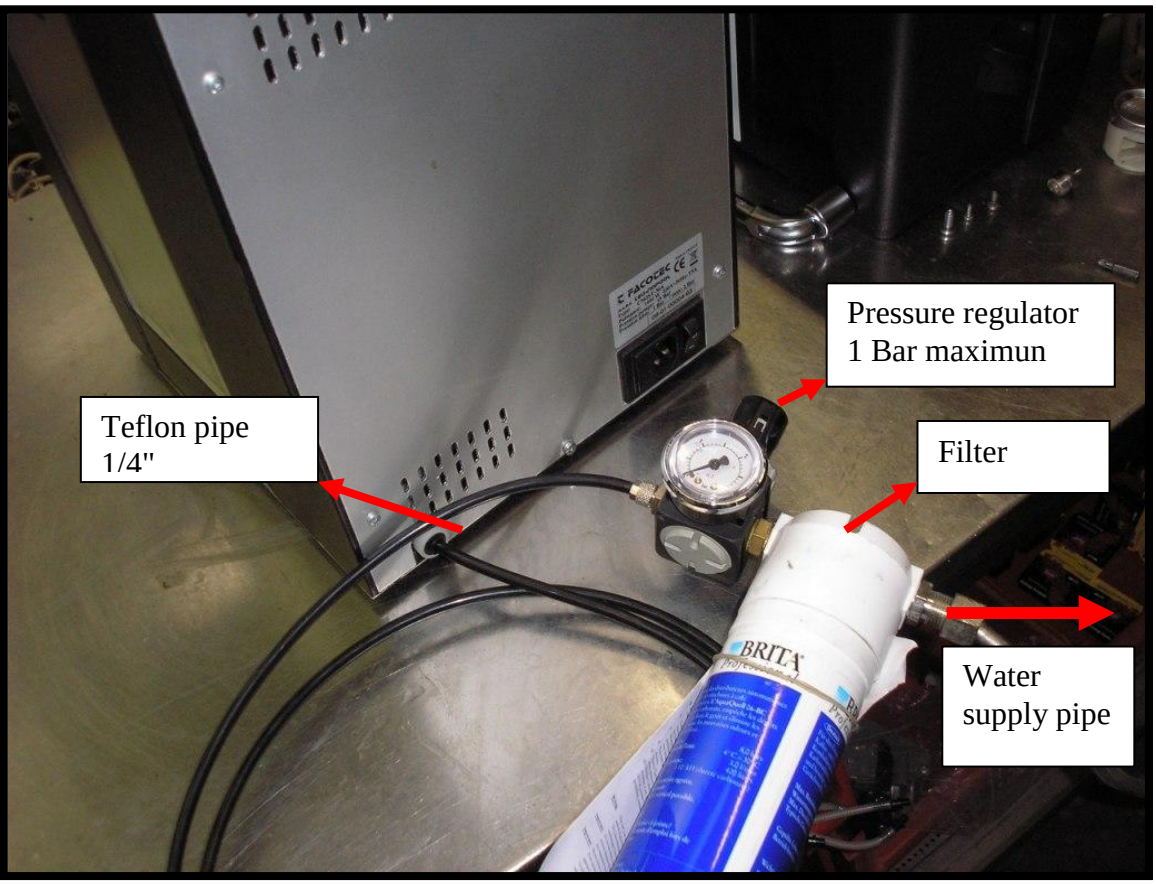
The water connector is found at the back of the machine and it has a grey plastic plug protecting the outlet when not in use.

Remove the plug.

Use a screwdriver and apply pressure towards the machine on the black part on the connector. **Do not damage it!**

At the same time using your hand pull the grey plastic plug out from the connector.

The Teflon pipe /plastic pipe of correct diameter (6,35mm/ 1/4”) is fixed in the connector by inserting it firmly into the hole.



Details to the picture.

You need for example a ¼” Teflon pipe going out of the machine adaptor/connector, then fix it to the pressure regulator and then to a limescale filter (for example a Brita cartridge) and finally a hose to the water supply.

The regulator must be checked so that the water pressure is max 1 bar.

This installation should be done by a plumber or competent person.

MAKE SURE YOU’VE CHANGE THE OPTION “SUPPLY” IN THE SET UP OF THE MACHINE!

Automatic water supply

To connect:
- Switch the machine off
- Connect the solenoid valve at the back of the machine using the Ø 6.35 pipe / 1/4" Teflon pipe.

Switch the machine on by holding the button down and put it into Prog mode (see Ch. III-d)

III-d Programming mode

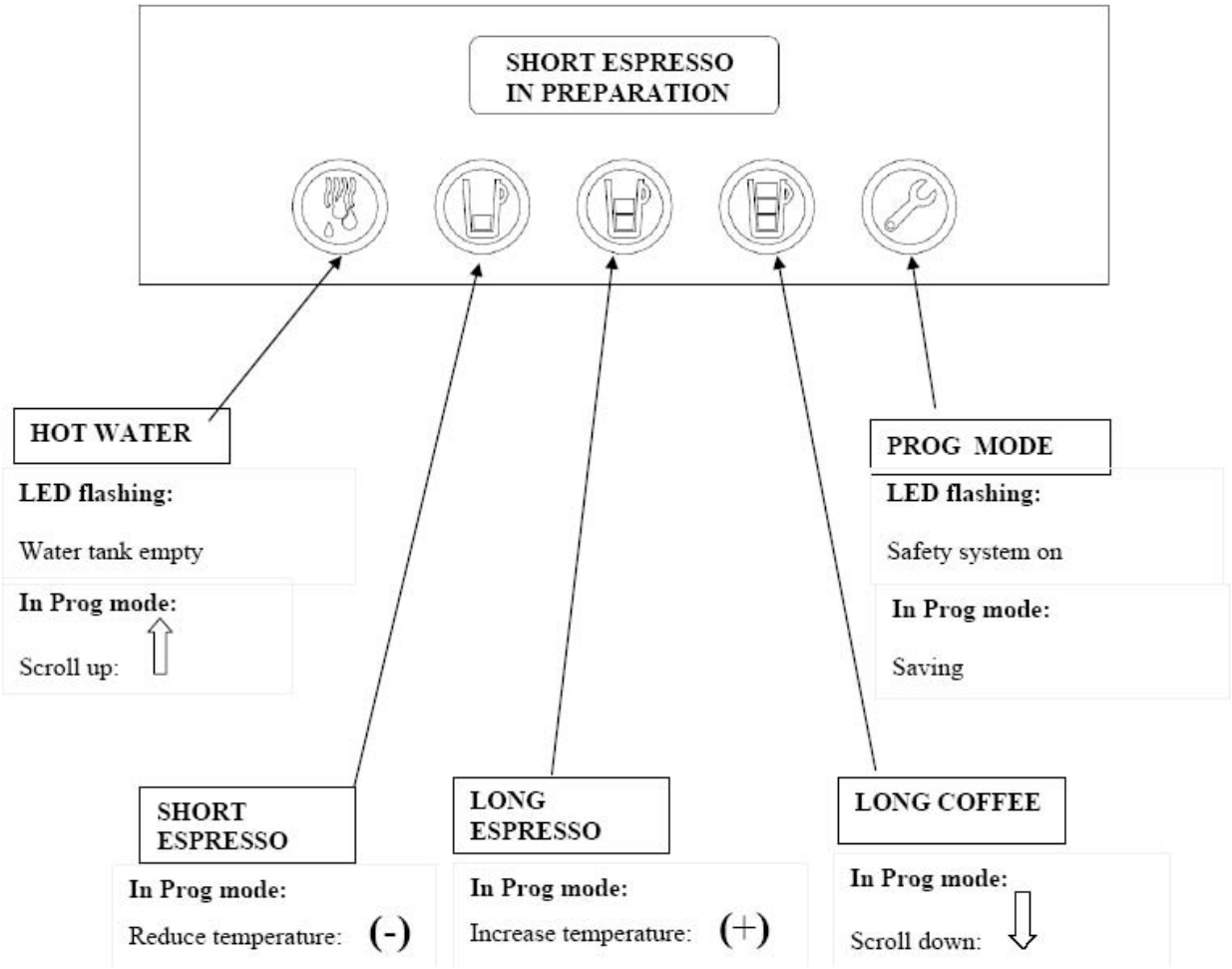
To go into Programming mode, switch the machine off.

Then switch it on again when holding the button down until the following message appears:
"IN PROGRAMMING MODE"

Then use the control panel to **scroll**, **change** and **save** values.

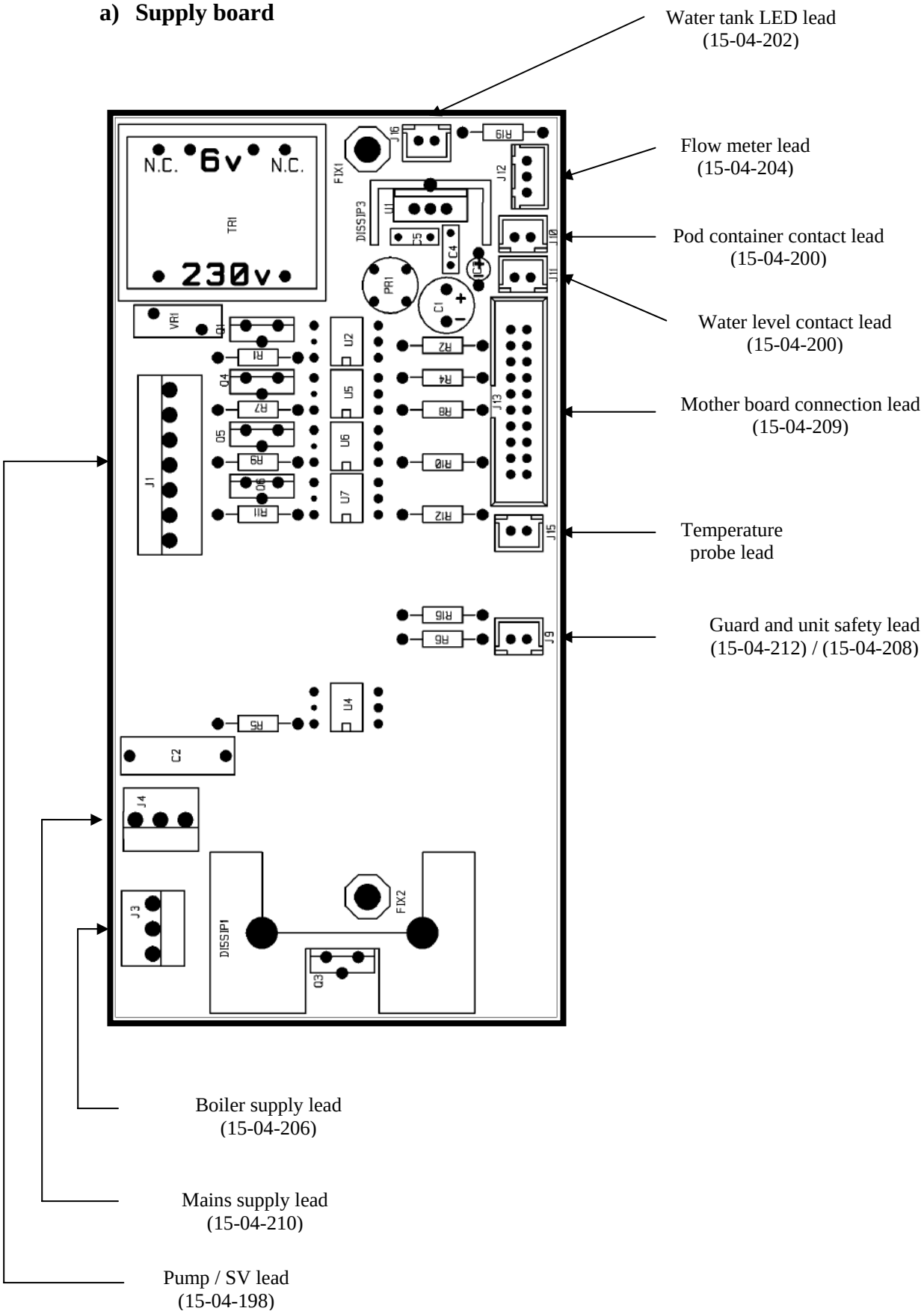
Scroll down till you reach the 10th choice WATER (after language) and there you can choose between **Independent** = water tank supply or **Supply** = connected to a pipe.

The display shows the function selected.



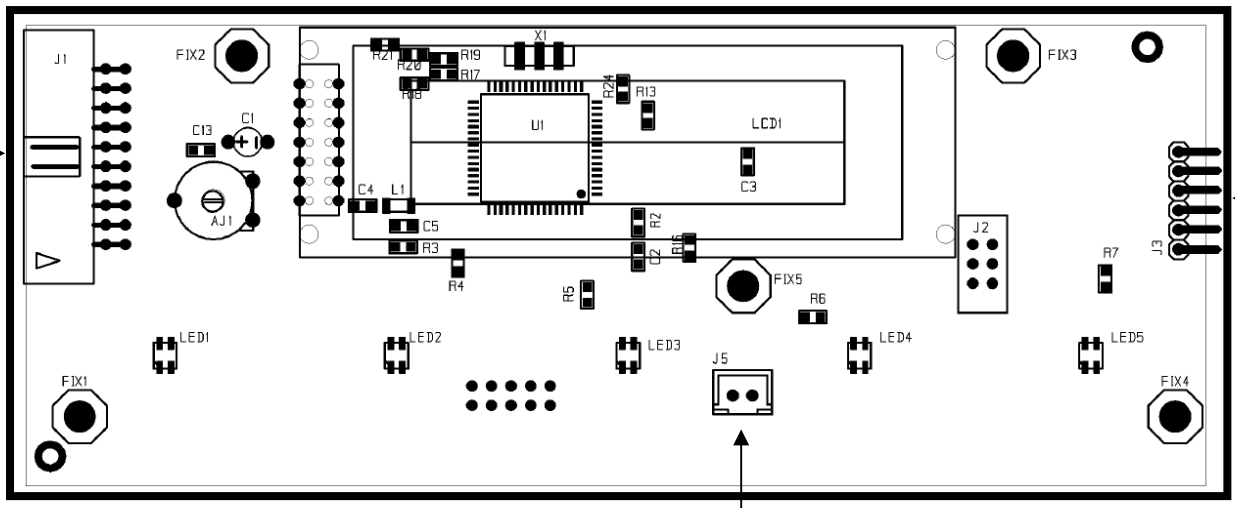
IV- BOARD WIRING

a) Supply board



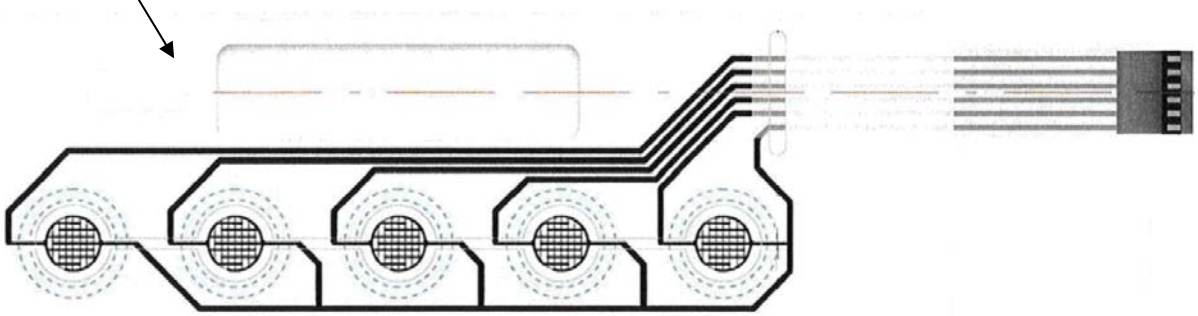
b) Mother board

Mother board connection lead
(15-04-209)



Coffee spout LED lead
(15-04-203)

Keyboard
(15-04-197)



FACOTEC
SARL TECHNOPOOL

ZI Anatole France

06340 La Trinite Cedex BP 72

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