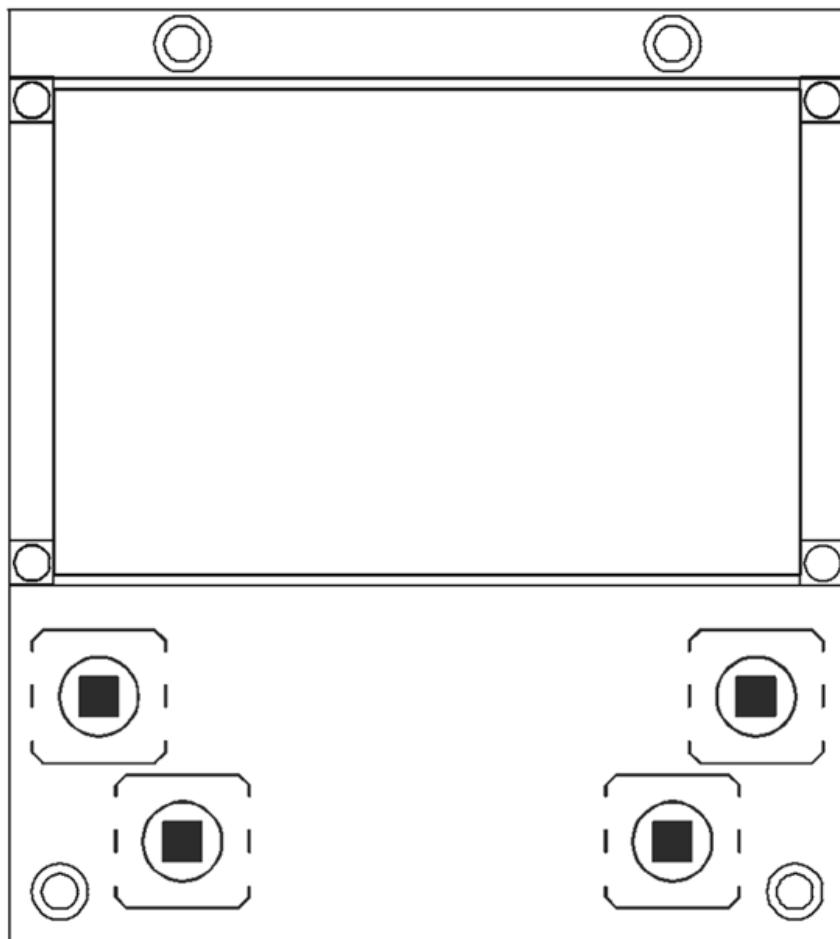


## **Coffee Grinder Board**

**NCG**

### **Instruction Manual**



## PREFACE

Thank you for purchasing our **NCG**, Control board for the Coffee grinder.

This manual contains instructions for the mounting, functions, operations, and notes when operating the **NCG**. To ensure safe and correct use, thoroughly read and understand this manual before using this instrument.

To prevent accidents arising from the misuse of this instrument, please ensure the operator receives this manual.

## HAZARD INTENSITY LEVELS

The level of risk and importance of the notification is determined by the following definitions. Always observe the warnings to ensure safety and prevent potential injury and product damage.



### *Important:*

Alerts against unsafe practices. Observe *Important* notifications to prevent possible minor personal injury or damage to the board.



### *Warning:*

Indicates a potentially hazardous situation that, if the *Warning* is ignored, could result in injury or death.



### *Note:*

Gives additional information that may be helpful for the proper operation of the board.

**WARNINGS:**

*Note: **TIFATECH Co., Ltd** declines all responsibility for damage to persons or property resulting from failure to follow the instructions and warning listed below when installing and using this board.*

- Ensure every part of the machine including actuators and sensors is working properly before replacing the new control board.
- Ensure that the power supply voltage does not fluctuate by more than 6%.
- Before mounting or removing the control board, disconnect it from the power supply and wait a while for it to cool down.
- Do not remove any original electrical part of the board.
- Repairing, cleaning, or parts replacement should only be performed by **TIFATECH** or other qualified service personnel.
- Children should never be allowed to play with the board.
- This board is intended to only be used for the espresso coffee machine control board. Do not use it for any other purpose.

**PRECAUTIONS****❖ Installation precautions**

Read thoroughly the following conditions before installing the **NCG** board on the coffee machine.

The mounting location must be:

- No flammable, explosive gases
- No exposure to water.
- An ambient temperature of 0 to 70°C that does not change rapidly, and no icing.
- An ambient non-condensing humidity of 35 to 85 %RH.

**❖ Operation and Maintenance Precautions**

- Do not touch live terminals. This may cause an electrical shock or problems in operation.

- Ensure the board surface is completely dry before powering.

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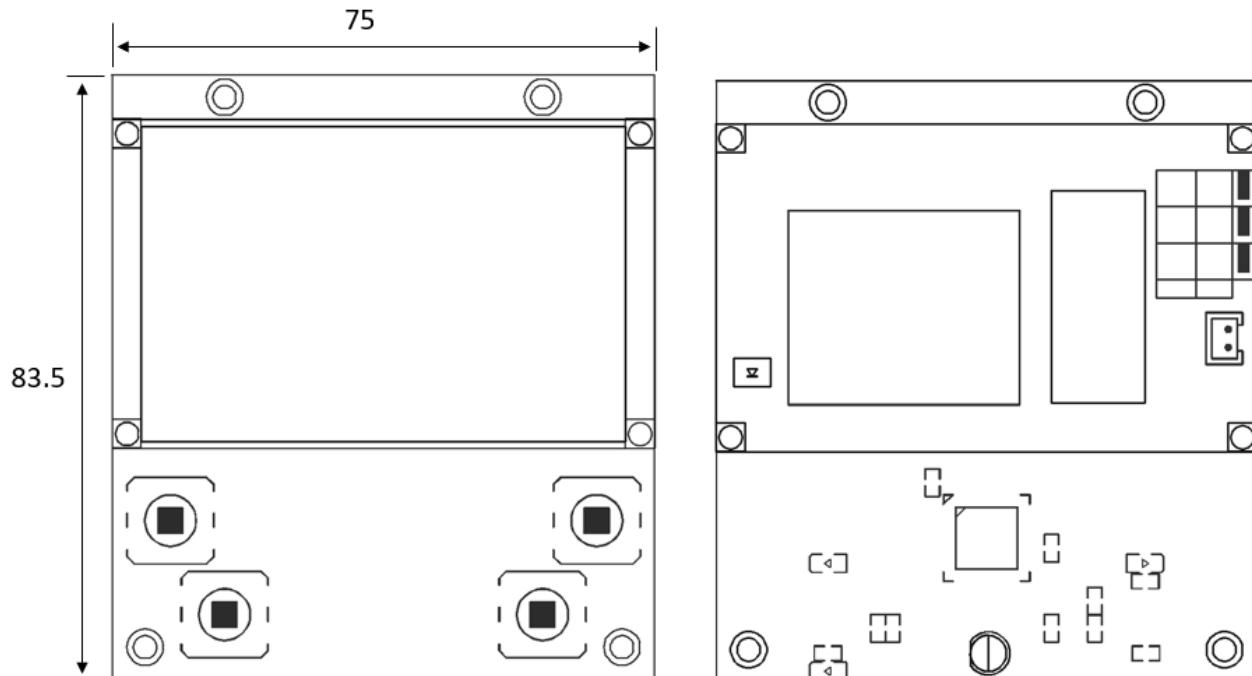
## I. GENERAL

### 1. Introduction

- This manual contains important instructions regarding the safe intended use of the machine.
- If any damage or loss to this manual, request a copy from the **TIFATECH** manufacturer.

## II. TECHNICAL SPECIFICATIONS

### 1. Dimensions (mm)



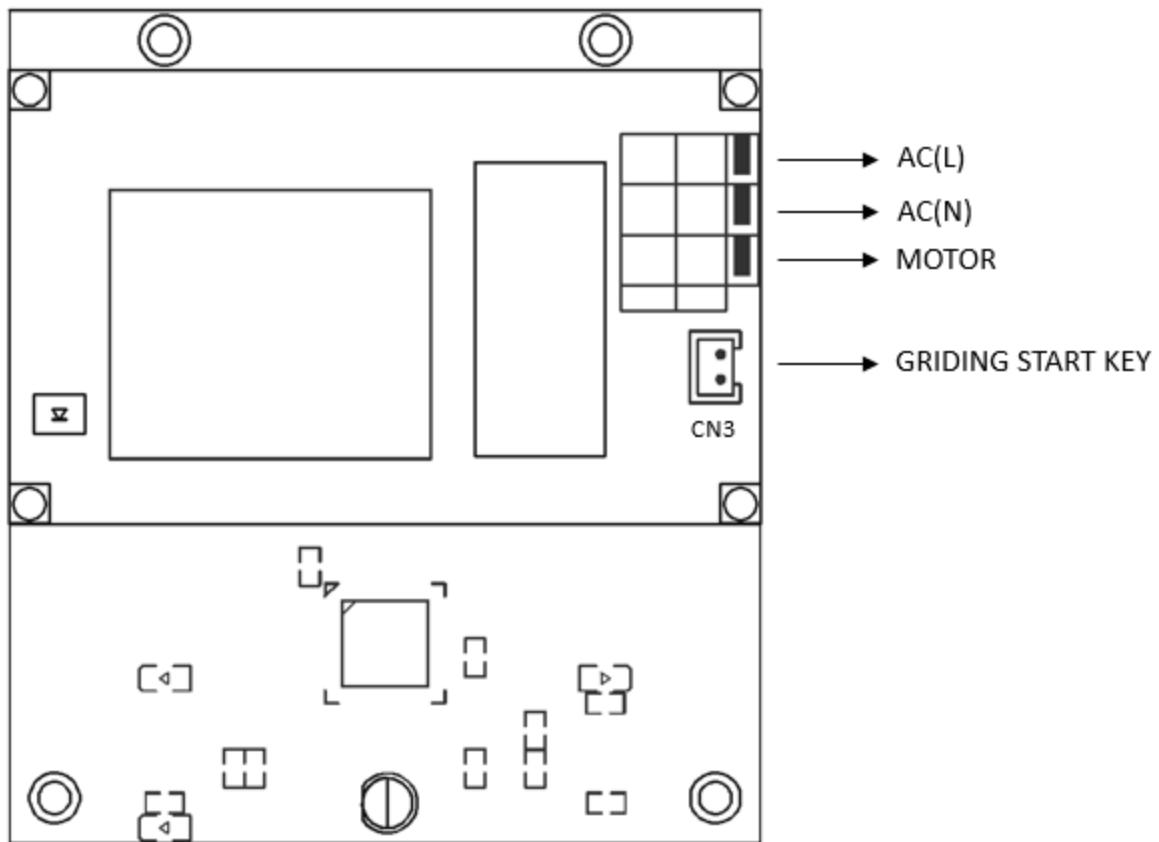
### 2. Specifications

- ❖ Power supply: 230V AC 50/60Hz
- ❖ Actuator voltage: 230V AC



*Note:* Please contact us if your country doesn't support the power supply required above.

## III. WIRING



*Important:* Any mistake in connecting actuators will affect the normal operation of the coffee machine, and even cause damage.

Terminal	Description
MOTOR	Motor input
AC(L), AC(N)	Power supply
GRINDING START KEY	Grinding start key

#### IV. PROGRAMMING AND USE

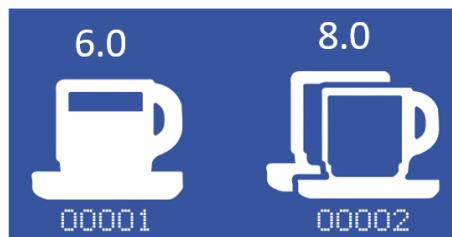


- Key (C): Single dose grinding key.
- Key (D): Double dose grinding key
- Key (B): Decreasing key for the set value (dose / display contrast).
- Key (E): Increasing key for the set value (dose / display contrast).
- Key (7): Grinding start key which is located near the portafilter holder on the machine and is connected to the control board via connector **CN3**.

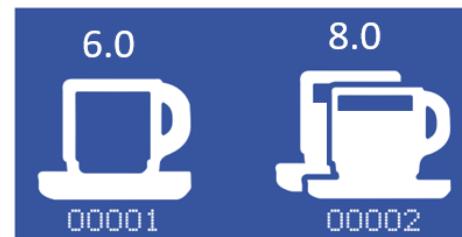
##### 1. Automatic grinding

Select key (C) or key (D) to choose the required preset grinding time.

The display shows the fill status on the selected key, as shown in the figure below.



*When key (C) is selected*



*When key (D) is selected*

When a key is selected, the automatic grinding time is set according to the preset value of that key. Only the indicator light of the selected key is switched on.

Press and hold the grinding start key (7) for more than 0.3 seconds to start grinding.

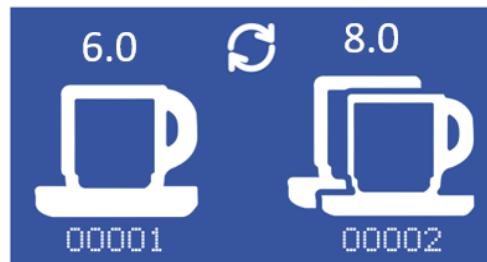
On the display, the grinding time of the selected key counts down from the preset value to zero. At the same time, the display shows the progressive filling status for the selected key.

Once the preset time has elapsed, the grinding time of the selected key reaches zero and the automatic grinding process stops. After 1 second, the grinding time of the selected key returns to its preset value.

## 2. Manual grinding mode

To activate the manual grinding mode, press keys (C) and (D) simultaneously.

The display shows the symbol  to indicate that the mode has been successfully activated. The fill level indicators of cup 1 and cup 2 return to the minimum level.



Once the manual grinding mode is activated, press and hold the grinding start key (7) to start grinding and release it to stop grinding.

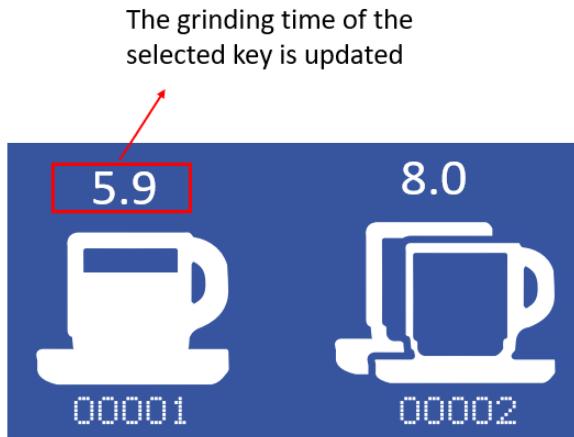
## 3. Grinding time setting

Select the dose key to be set by pressing key (C) or key (D).

Press the decreasing key (B) or the increasing key (E) to decrease or increase the grinding time of the selected key. During setting, the grinding time of the selected key is updated and displayed on the screen.

***Setting range:*** 0.5 - 35.0 (s)

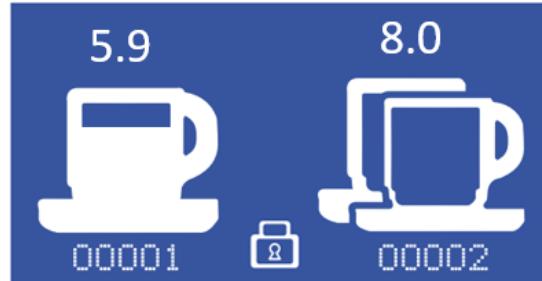
***Adjustment step:*** 0.1 (s)



#### 4. Setting lock mode

Press keys (B) and (E) simultaneously to enable or disable the setting lock mode.

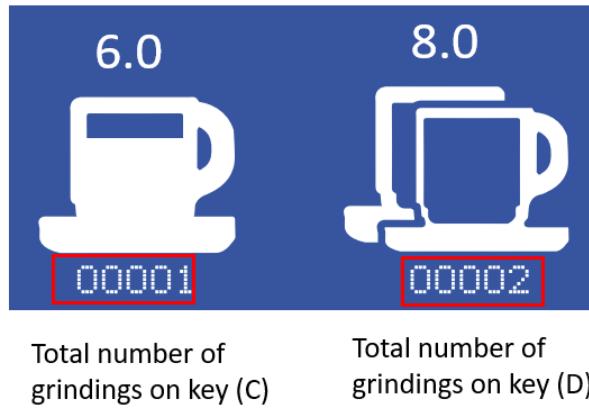
When the lock mode is active, the user cannot increase or decrease the preset grinding time on the dose keys.



#### 5. Grinding counter

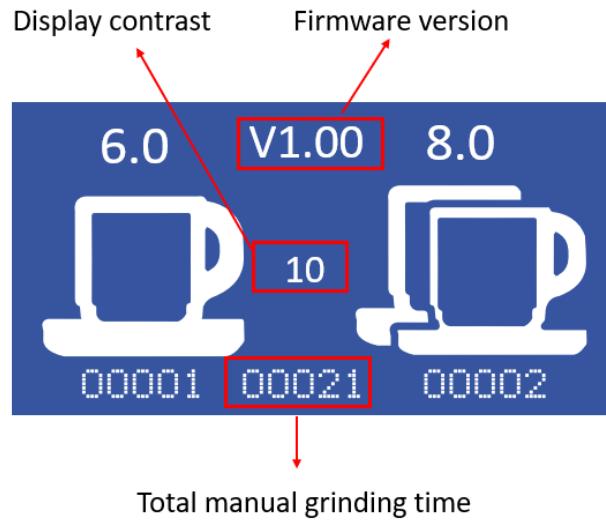
Below the cup symbols of each key, the total number of grindings performed with that key is displayed.

After each automatic grinding cycle using key (C) or key (D), the corresponding counter of that key is increased by 1.



## 6. Advanced mode

Switch the appliance off, then press and hold key (C) while switching the appliance on, until the display appears as shown below, to access the advanced mode.



Press the decreasing key (B) or the increasing key (E) to decrease or increase the display contrast.

**Default value:** 10

**Setting range:** 0 - 20

**Adjustment step:** 1

Press key (D) to exit the advanced mode and return to the normal display.

## 7. Logo display setting

When switching the appliance on, press and hold keys (C) and (D) simultaneously until the display appears as shown below.



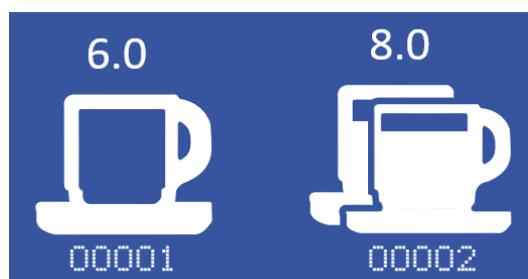
Press key (E) to enable the logo display at start-up. The display shows “**Yes**”.

Press key (B) to disable the logo display at start-up. The display shows “**No**”.

By default, the “TIFATECH” logo is displayed for 3 seconds at start-up before the grinding-ready screen appears.



If the logo display at start-up is disabled, the grinding-ready screen appears after 1 second.



## 8. Restore factory default settings

### ❖ Reset of grinding time and display contrast

Switch the appliance off, then press and hold key (D) while switching the appliance on, to restore the preset grinding times of keys (C) and (D) and the display contrast to their default values.

- ***Default grinding time of key (C):*** 4.0s
- ***Default grinding time of key (D):*** 8.0s
- ***Default display contrast:*** 10

### ❖ Reset of grinding counters

To reset the grinding counters, press and hold keys (B) and (E) simultaneously for 5 seconds, until the counter values displayed below each cup symbol are reset to 0.

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