SERVICE MANUAL

Programming manual

"Colibrì"

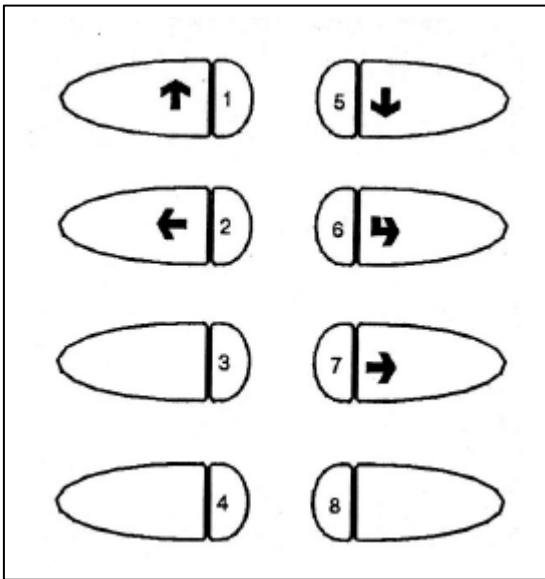**IL CONTENUTO DI QUESTO MANUALE E' DESTINATO AL PERSONALE ADDETTO AI SERVIZI TECNICI**

THE CONTENTS OF THIS DOCUMENT ARE INTENDED FOR NECTA'S AFTER SALES PERSONNEL

INTRODUCTION

The programming instructions described below are used to change the product dose settings, set the sales prices, set any discounts, move through the operating modes, test the failures indicated and read the audit data.

1 - PROGRAMMING PUSH-BUTTON FUNCTIONS

The selection push-button panel is used also for programming operations, and in this mode it takes on the following functions:

1- ⬆ Previous function / increase data (+1)
2- ⬅ Exit function / cancel change
3- Free
4- Free
5- ⬇ Next function / decrease data
6- ➡ Confirm function / confirm data
7- ➡ Change data

8- Reset failures

2 - OPERATING MODES

The machine can be in three different operating modes, and according to the mode the vending machine push-buttons take on different functions:

2.1 NORMAL OPERATING MODE (VENDING)
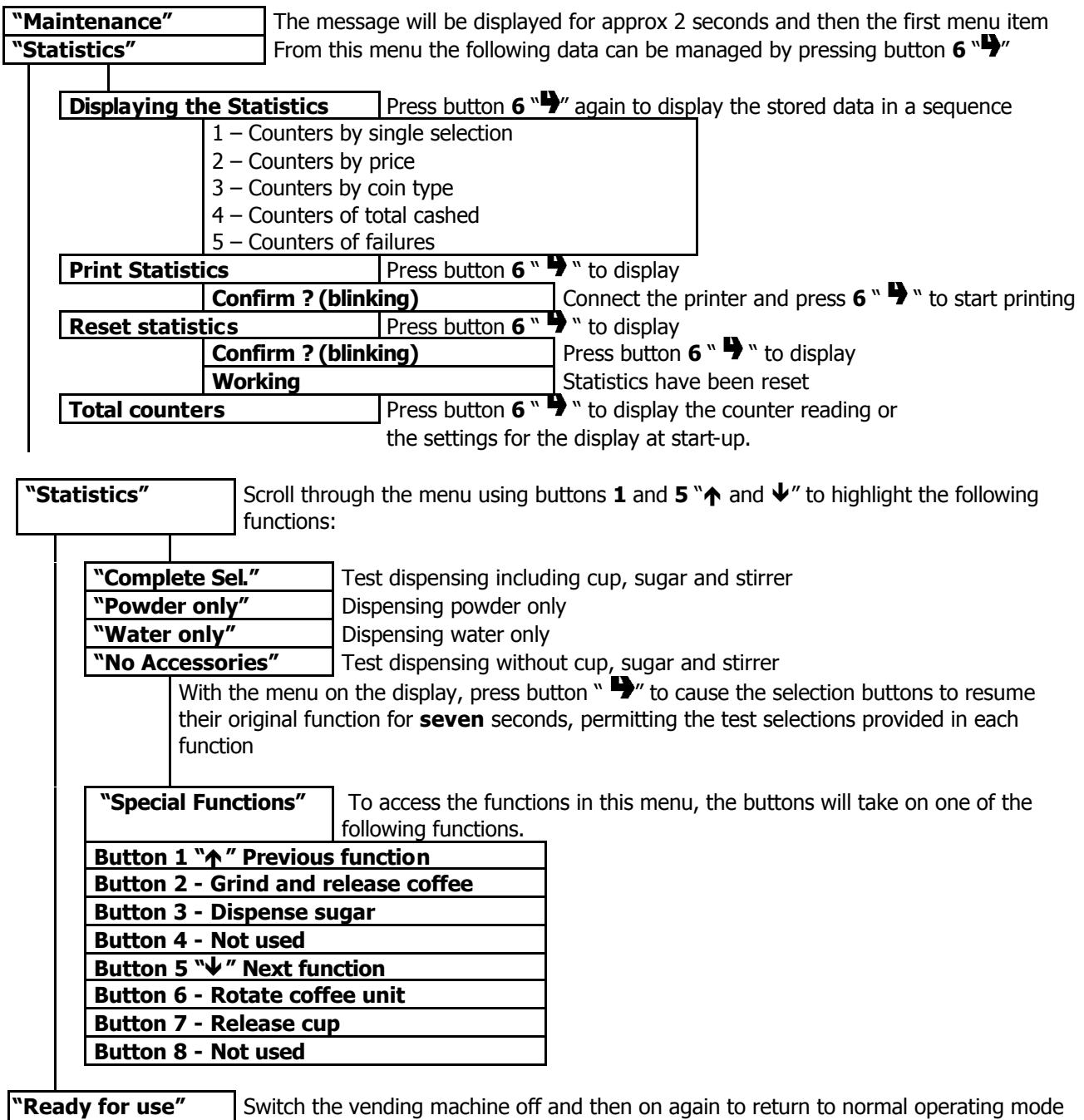
2.2 MAINTENANCE

2.3 PROGRAMMING MODE

2.1 NORMAL OPERATING MODE (VENDING)

When switching the machine on, the display indicates the message START for a few seconds, then the vending machine is set to vending mode. The display indicates the message **"Ready for use"**

2.2 MAINTENANCE

With the vending machine in normal operating mode, press once the programming button located on the inside of the door, on the push-button board, and the vending machine will be set to **"maintenance"** mode.

The display indicates the message:

"Maintenance"	The message will be displayed for approx 2 seconds and then the first menu item
"Statistics"	From this menu the following data can be managed by pressing button **6** "➡"

Displaying the Statistics	Press button **6** "➡" again to display the stored data in a sequence

1 – Counters by single selection
2 – Counters by price
3 – Counters by coin type
4 – Counters of total cashed
5 – Counters of failures

Print Statistics	Press button **6** " ➡ " to display
Confirm ? (blinking)	Connect the printer and press **6** " ➡ " to start printing
Reset statistics	Press button **6** " ➡ " to display
Confirm ? (blinking)	Press button **6** " ➡ " to display
Working	Statistics have been reset
Total counters	Press button **6** " ➡ " to display the counter reading or the settings for the display at start-up.

"Statistics"	Scroll through the menu using buttons **1** and **5** "⬆ and ⬇" to highlight the following functions:

"Complete Sel."	Test dispensing including cup, sugar and stirrer
"Powder only"	Dispensing powder only
"Water only"	Dispensing water only
"No Accessories"	Test dispensing without cup, sugar and stirrer

With the menu on the display, press button " ➡ " to cause the selection buttons to resume their original function for **seven** seconds, permitting the test selections provided in each function

"Special Functions"	To access the functions in this menu, the buttons will take on one of the following functions.

Button 1 "⬆" Previous function
Button 2 - Grind and release coffee
Button 3 - Dispense sugar
Button 4 - Not used
Button 5 "⬇" Next function
Button 6 - Rotate coffee unit
Button 7 - Release cup
Button 8 - Not used

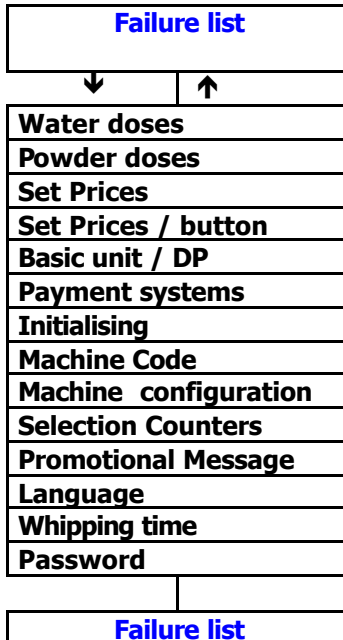|	
"Ready for use"	Switch the vending machine off and then on again to return to normal operating mode

2.3 PROGRAMMING

With the vending machine in normal operating mode, press twice the programming button located on the inside of the door, on the push-button board, and the vending machine will be set to **"Programming"** mode.

| Programming | The message will be displayed for approx 2 seconds and then the first menu item |

| Failure list | Scroll through the menu using buttons "**1 ↑** and **5 ↓**" to display the following items |
| ↓ ↑ | in a sequence |

| Water doses |
| Powder doses |
| Set Prices |
| Set Prices / button |
| Basic unit / DP |
| Payment systems |
| Initialising |
| Machine Code |
| Machine configuration |
| Selection Counters |
| Promotional Message |
| Language |
| Whipping time |
| Password |

After all items have been displayed the initial menu is presented

| Failure list |

While the programming menu is displayed, do as follows to access the sub-menus:

↓ ↑

| Failure list | Press button **6** "↳" to display the description of the failure and press in succession button **5 ↓** to display the description of the next failures (if present) |

Press button **8** to reset the failures (only as an indication to the SW, in any case concrete corrective actions must be taken)

Air-break failure	The vending machine locks if the Air-Break microswitch is not activated after 7 selections
Boiler failure	
Coin mech. failure	The vending machine locks if after 10 sec (espresso) or after 20 sec (instant) the temperature is not OK
RAM data	
Water failure	The machine locks if serial communication fails for more than 30 sec
No cups	RAM data deleted or invalid - initialising is necessary
Water leak	The machine locks if, with the solenoid valve energised, the Air-Break microswitch is not activated within one minute.
Volumetric counter	
Coffee unit	The machine locks if after a complete cup column rotation the microswitch is not activated
No coffee	
Coffee failure	If the water inlet solenoid valve is activated without making any selections
Cup release failure	Failed computation of the volumetric counter within a max time

If the position microswitch is not activated within a max time
If the coffee volumetric doser microswitch is not activated within 15 sec
If the doser microswitch is not deactivated after releasing ground coffee
If the microswitch is not activated after releasing

| Water doses | Press button **6** "↳" to access the list of dose codes |

Scroll through the list using buttons "**1 ↑** and **5 ↓**" to access the desired item

A1	After the desired item is shown press button **7 ➜** causing the display to blink, then the value can be changed using buttons **1** and **5**
A2	
....	The value is indicated as **CV** (wheel pulses)

Powder doses	Press button **6** "⬇" to access the list of dose codes

Scroll through the list using buttons "**1 ↑** and **5 ↓**" to access the desired item

A1	After the desired item is shown press button **7 →** causing the display to <mark>blink</mark>,
A2	then the value can be changed using buttons **1** and **5**
....	The value is indicated as **DS** (tenths of a second)

Set Prices	Press button **6** "⬇" to access the list of prices

Scroll through the list using buttons "**1 ↑** and **5 ↓**" to access the desired item

Price No 1	After the desired item is shown press button **7 →** causing the display to <mark>blink</mark>,
-.-.-	then the value can be changed using buttons **1** and **5**
Price No 8	The value is indicated as **No** of basic units (coins)

Set Prices / button	Press button **6** "⬇" to access the list combinations per button

Scroll through the list using buttons "**1 ↑** and **5 ↓**" to access the desired item

Button 1 = ON	
Button 1 = OFF	After the desired item is shown press button **7 →** causing the display to <mark>blink</mark>,
Button 1 = ON	then the selection status (enabled or disabled) can be changed using buttons **1** and **5**
Price No xxx	Press button **6** "⬇" again to highlight the No of the concerned price
	Press button **7 →,** the value will start <mark>blinking</mark> and can be changed using buttons **1** and **5**
Button 8 = ON	Repeat the operation for all buttons 1 to 8
Button 8 =	
Button 1 = ON	
Price No xxx	

⬇ ↑

Basic unit / DP	Press button **6** " ⬇ " to display the current value of the basic unit and

DP = Decimal point

Basic unit xxx.x	Use buttons "**1 ↑** and **5 ↓**" to display alternating the basic unit and the DP
Basic unit xx.xx	Press button **7 →,** the display will start <mark>blinking</mark> and the values can be changed
Basic unit xx.xx	using buttons "**1 ↑** and **5 ↓**"
Basic unit x.xxx	

Payment systems	Press button **6** " ⬇ " to display the payment system to be set as default

As standard feature a validator / totalizator is provided, for other systems / protocols specific kits must be used

Validator	Press button **6** " ⬇ " to display the payment system to be installed
<mark>12 / 24 V</mark> power supply	Press button **6** "⬇" again to highlight the operating voltage (12/24V)
Validator lines A / F	Press button **5 ↓** to highlight the validator line and press button **6** "⬇" to access the line value <mark>(blinking)</mark>, press **7 →** to change it

Credit <mark>ON / OFF</mark>	Press button **6** "⬇" to select whether the credit is to remain available (for three minutes) or be returned - "**1 ↑** ON and **5 ↓**" OFF
Executive std.	To activate this menu press button **6** "⬇" (only with Kit)
Price holding	To activate this menu press button **6** "⬇" (only with Kit)
ECS	To activate this menu press button **6** "⬇" (only with Kit)
URW3	To activate this menu press button **6** "⬇" (only with Kit)

The following menu "initialising" permits all data to be reset to factory default settings

It must be used in the event of data (RAM) errors or of replacing the EPROM: After initialising all data that were changed from the default settings must be reprogrammed.

Initialising	Press button **6** " ➡ " to display the message "Confirm?" "
Confirm ?	Press button **6** "➡" again to display the message "Machine type C / I"
Machine Type C / I	Use buttons **1 ↑** and **5 ↓**" to select C (espresso) or I (instant)
Country	Press button **6** "➡" to confirm and **1 ↑** and **5 ↓**" to scroll the countries
Name of country	Press button **6** " ➡ " to select the Country among the available ones, then confirm
Layout	Press button **6** "➡" to access the layout menu, using buttons **1 ↑** and **5 ↓**"
Layout N.	select among the displayed ones and with **7 ➔** confirm the layout
Tank on/ off	Press button **6** "➡" to access the "tank" menu, using buttons **1 ↑** and **5 ↓**"
Working	select on / off (ON = water supply from the tank, OFF = water supply from the mains) with
	button **6** "➡" confirm and the display indicates the message **"Working"**

Machine Code	Press button **6** " ➡ " to display the current code, then press button **7 ➔** and the first digit starts blinking
Cod =0 000	and with buttons **1 ↑** and **5 ↓**" set the desired digit, with button **6** "➡"confirm and go to the second digit, and so on to the end of the digits

Config. Machine	Press button **6** " ➡ " to display the 1st sub-menu **"Tank"**
Tank ON / OFF	Press button **7 ➔** and the message "Tank ON / OFF" starts blinking, with button 2 ← exit
Disp. cup	Use buttons "**1 ↑** and **5 ↓**" to go to the next sub-menu and proceed as above
Disp. stirrer	ON or OFF is activated according to the selection
Heating mixers	In this case, proceeding as above, activate mixer heating with a pre-selection (water only)
	Dispensing water only

From the following menu a pre-set maximum number of espresso coffee selections can be entered, for the purpose of preventing the liquid waste container from overflowing, as it is of small size (this is to be activate only if not using a support cabinet)

Selection Counters	Press button **6** " ➡ " to display the 1st sub-menu **"Password"**
Password ####	Enter the PW and press button **6** "➡" to access the next sub-menu
Espresso coffee	Press button **6** "➡" again to access the menu for setting the max N.
P=nnnn A= nnnn	press button **6** "➡" and the set value start blinking, then using buttons "**1 ↑** and **5 ↓**" set the values.
P=nnnn A= nnnn	

↓ ↑ **Repeat the same operations for sub-menu "Instant"**

Promotional Message	Press button **6** " ➡ " to highlight the message "Message ON / OFF"
Message ON / OFF	**ON** = enabled, **OFF** = disabled**,** with buttons "**1 ↑** and **5 ↓**" select the desired option
Text to be change or to be entered	If enabled, press button **6** "➡" and the first character will start blinking, to be changed using the selection buttons, which in this menu take on the following meaning
	Button 1 - Previous character
	Button 2 - Next character
	Button 3 - Upper / lower case
	Button 4 – A B C D E F G H I
	Button 5 – J K L M N O P Q R
	Button 6 – S T U V W Y Z
	Button 7 – 0 1 2 3 4 5 6 7 8 9
	Button 8 - ! " " # $ % , - . / * +
	The characters are displayed alternated, pressing the button sequentially and are stored by pressing button 2 ←

Language	Press button **6** "➡" to access the menu and display the first available language
Italian	Press button **7 ➔** and the selected language starts blinking, press button **6** "➡"
French	to confirm To display the other available languages press buttons "**1 ↑** and **5 ↓**"
German	Proceed as above to select and confirm
Spanish	
Flemish	
Portuguese	
Swedish	
Danish	
Finnish	
Greek	

Whipping time	This menu is used to set the whipping time for Instant coffee selections
Whipping t/s xxx	Press button **7 ➔** to access the function, press button **7 ➔** and
T / S x x x	the default time starts blinking, using buttons "**1 ↑** e **5 ↓**" change such time
	Press button **6** " ➡ " to confirm the change

Password	This menu is used to activate or disactivate the request for the factory-set password
Password YES/ NO	Press button **6** " ➡ " and the message **"password ON / OFF"** starts blinking
	Press buttons "**1 ↑** and **5 ↓**" to select the option and confirm with button **6**
	"➡" (the factory setting CANNOT be changed)

↓ ↑

Failure list	After all items have been displayed the initial menu is presented