

# FSR7 FSR8



PROFESSIONAL SCRUBBING MACHINES

## *OPERATOR INTERFACE CONFIGURATION MANUAL*

 **FIMAP**<sup>®</sup>



TRANSLATION OF THE ORIGINAL INSTRUCTIONS DOC. 10124340 - Ver. AB - 01-2025

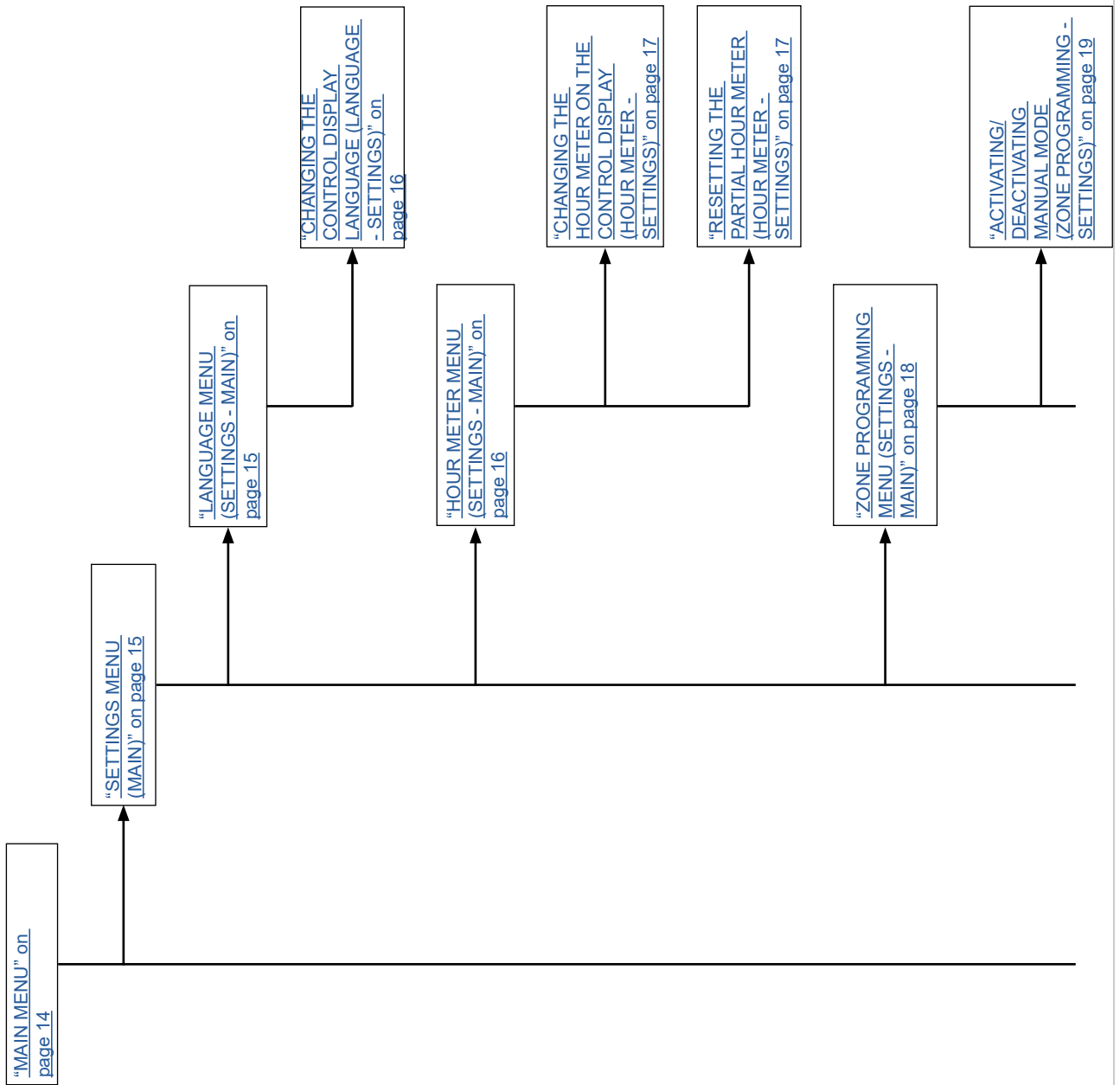


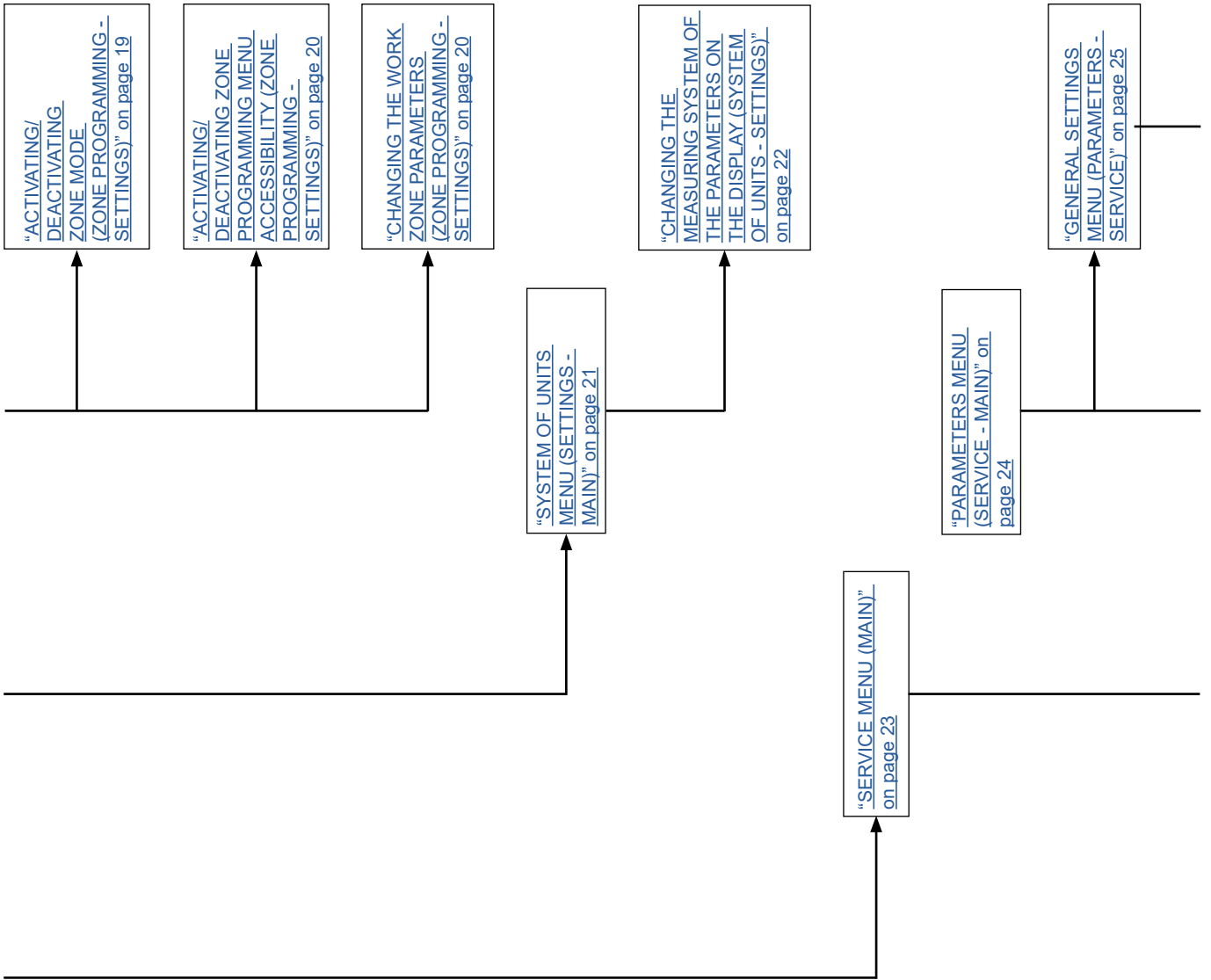
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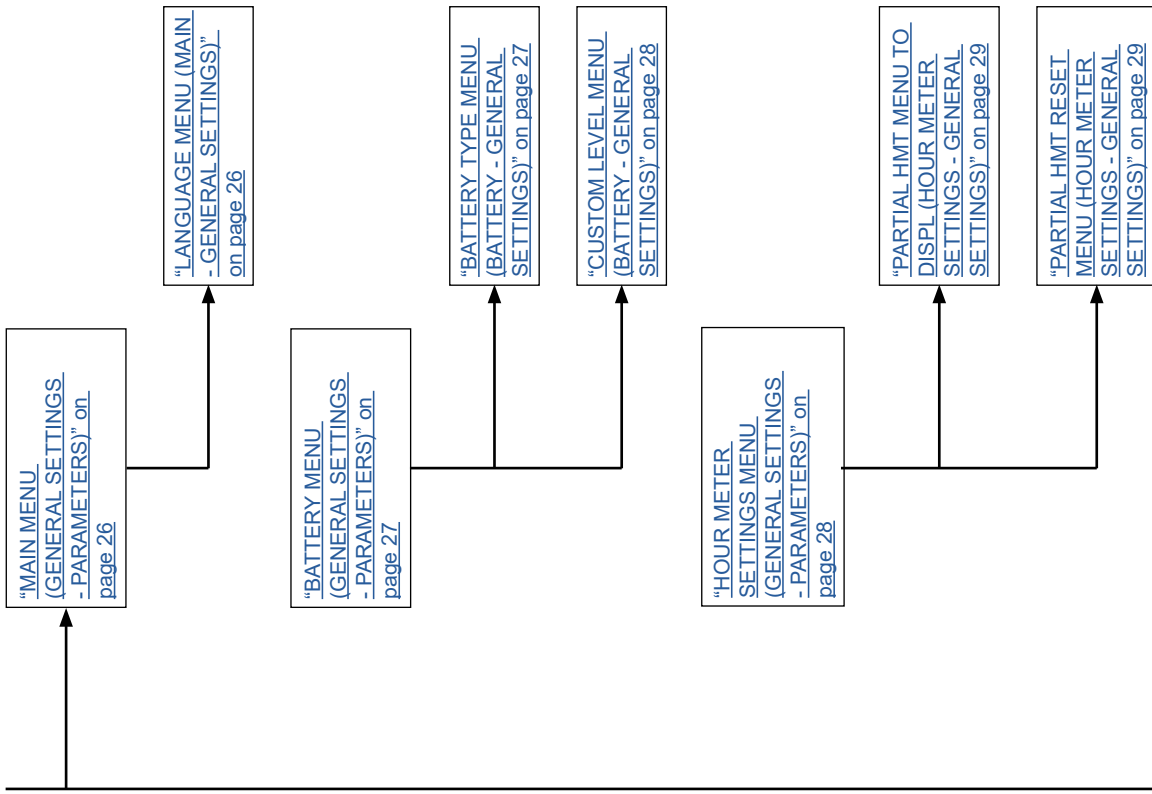
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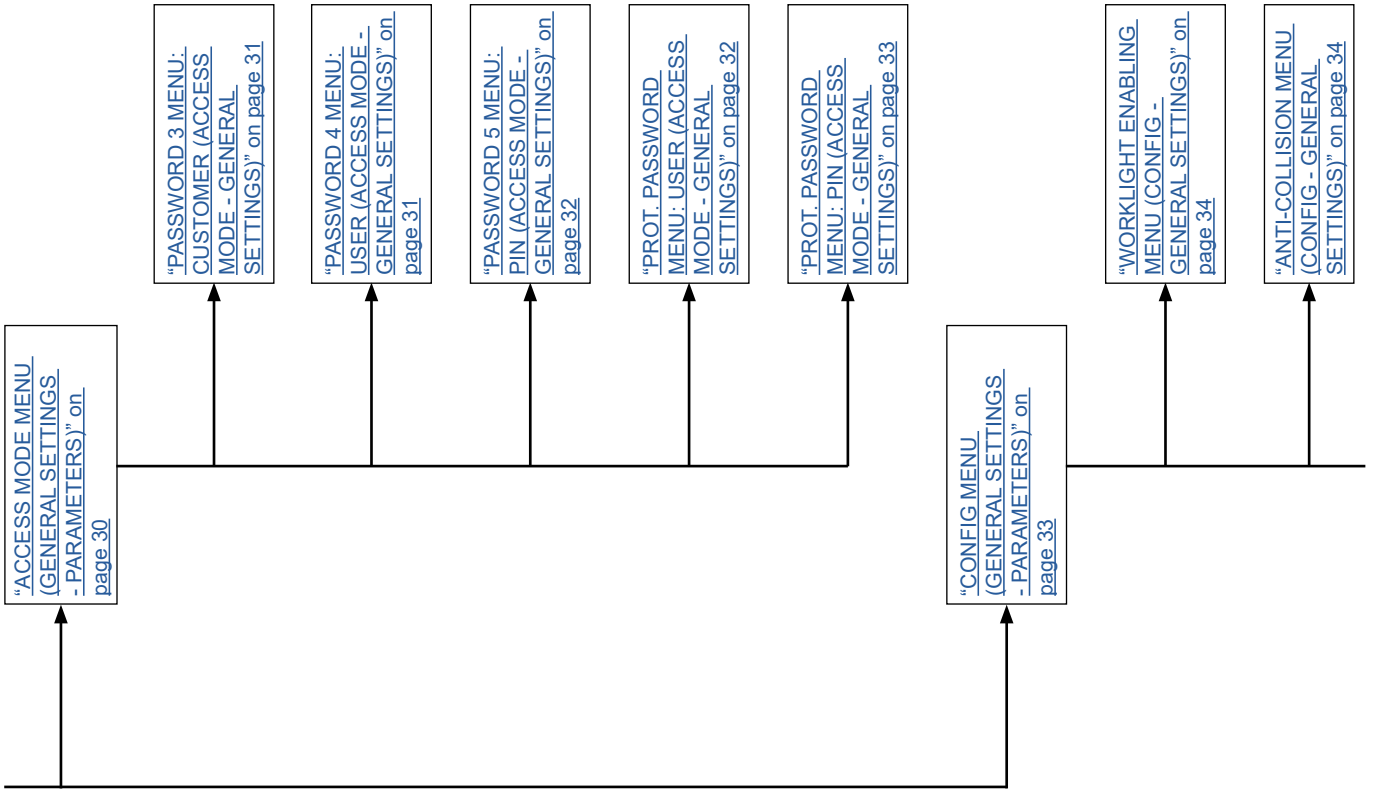
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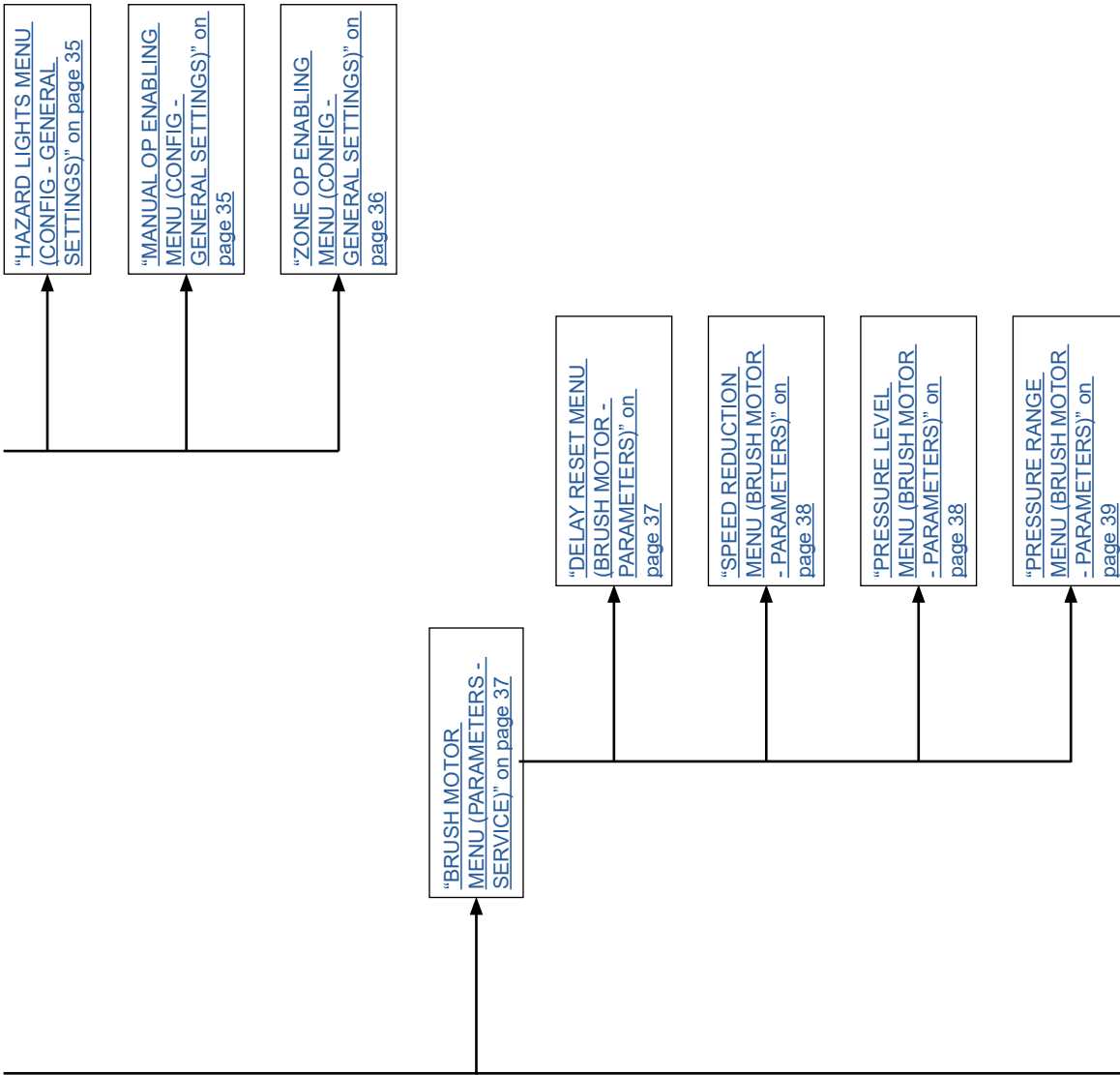
# SETTINGS MENU NAVIGATION DIAGRAM

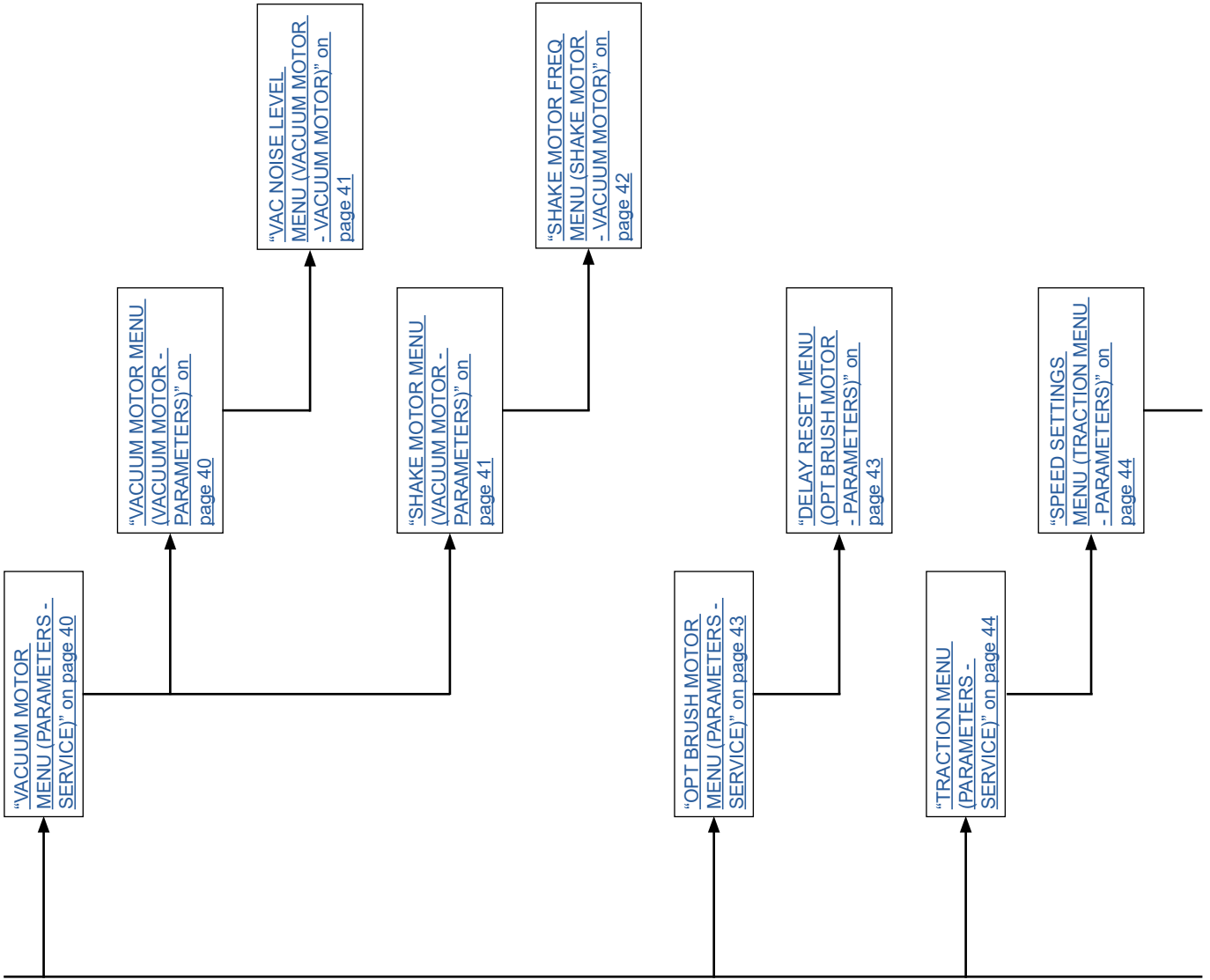


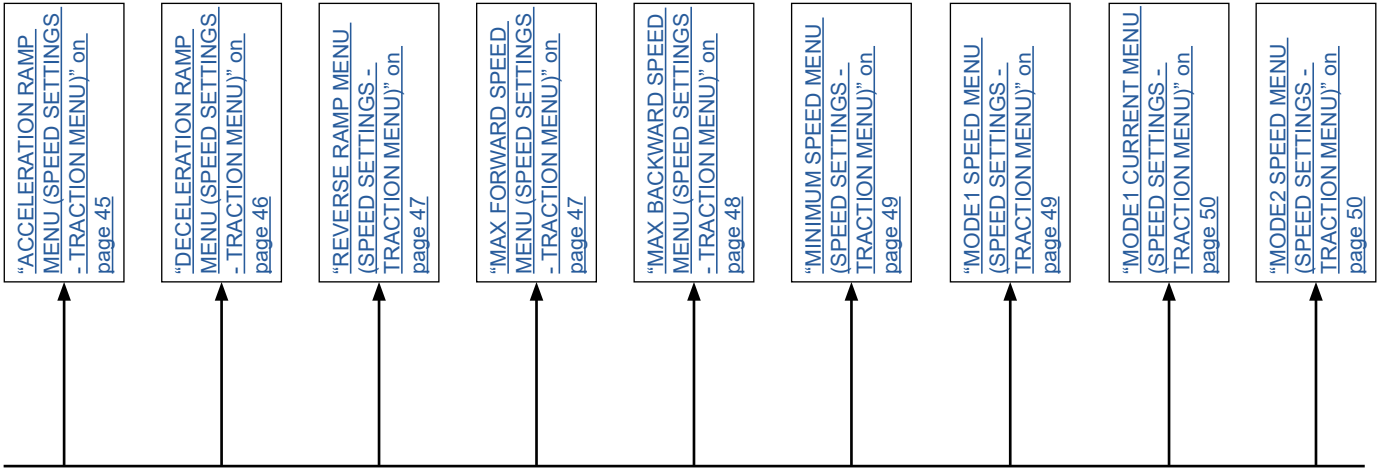


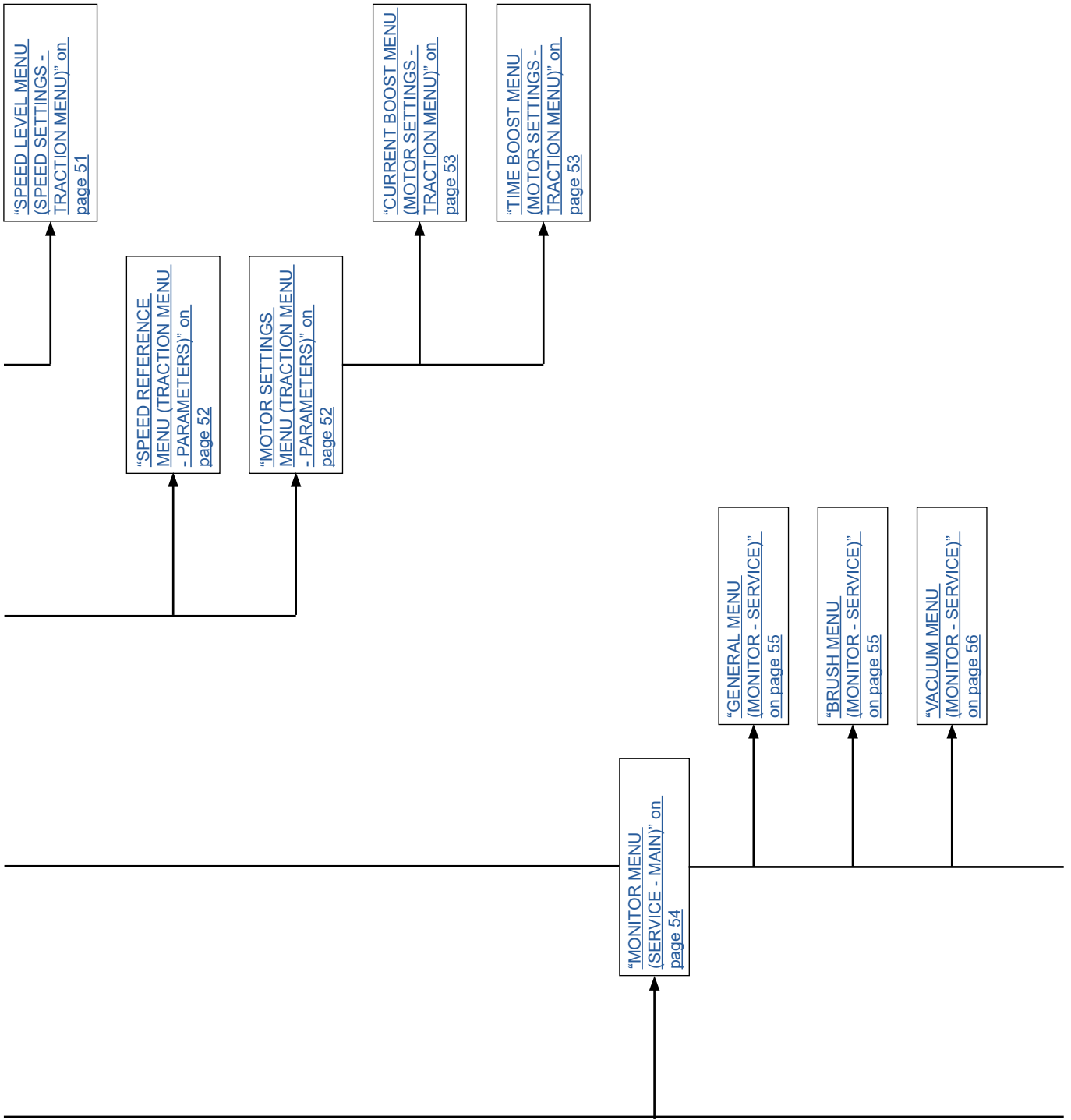






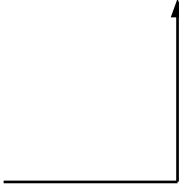






"TRACTION MENU  
(MONITOR - SERVICE)"  
on page 56

"ALARMS MENU  
(SERVICE - MAIN)" on  
page 57

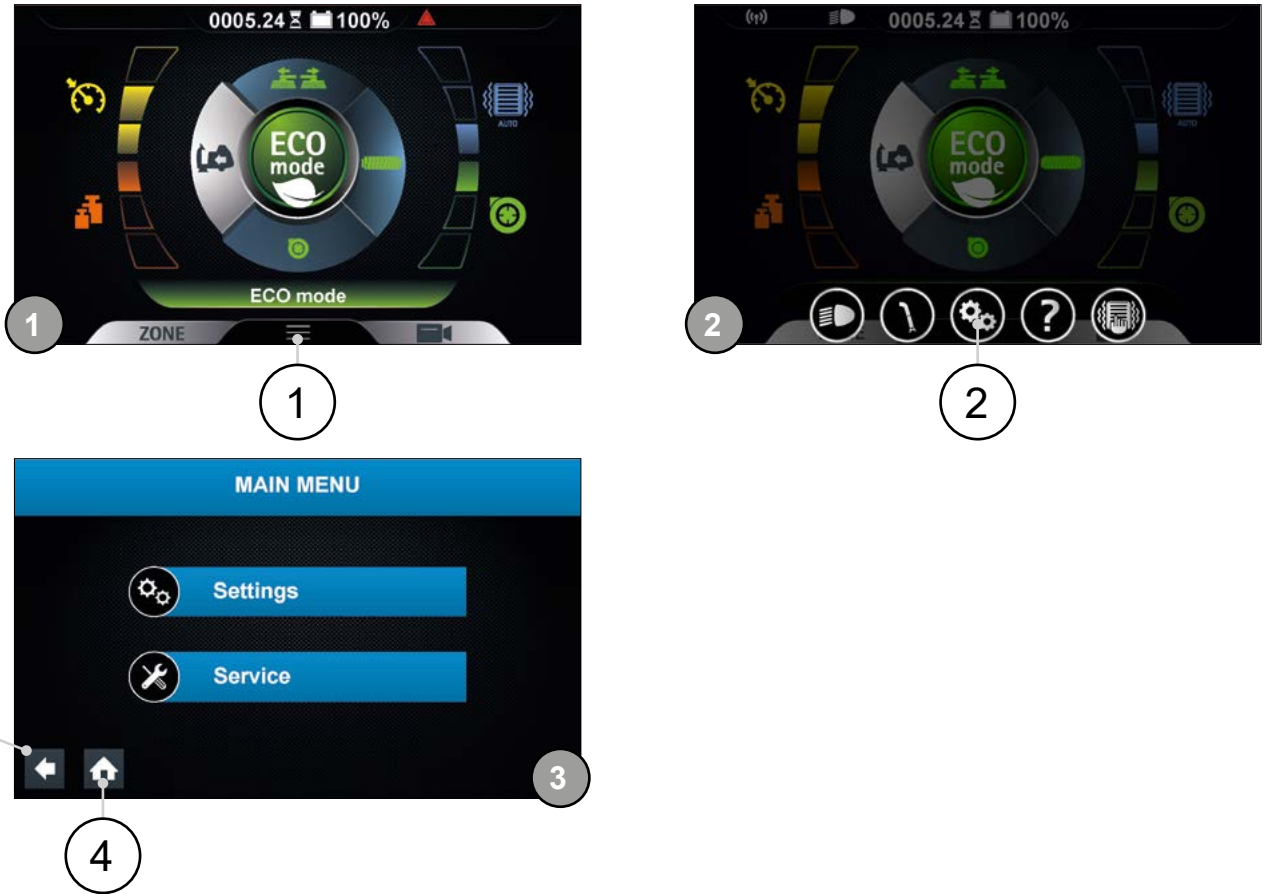


# MAIN MENU

To view the “MAIN MENU”, proceed as follows:

1. With the machine on, press the SETTINGS MENU button (1) on the work screen (**Fig. 1**).
2. Press the MAIN MENU button (2) (**Fig. 2**).

**i NB:** to return to the work screen, press on any point of the screen (except the edges of the display) or else wait three seconds without touching anything.



The following sub-menus can be selected on the Main menu screen (**Fig. 3**):

	<p><b>Settings</b></p>	<p>Used to view and/or change the basic machine parameters. See <a href="#">“SETTINGS MENU (MAIN)”</a> on page 15.</p>
	<p><b>Service</b></p>	<p>Used to view and/or change the machine parameters. See <a href="#">“SERVICE MENU (MAIN)”</a> on page 23.</p>

**i NB:** press the “BACK” button (3) to return to the previous menu screen (**Fig. 3**).

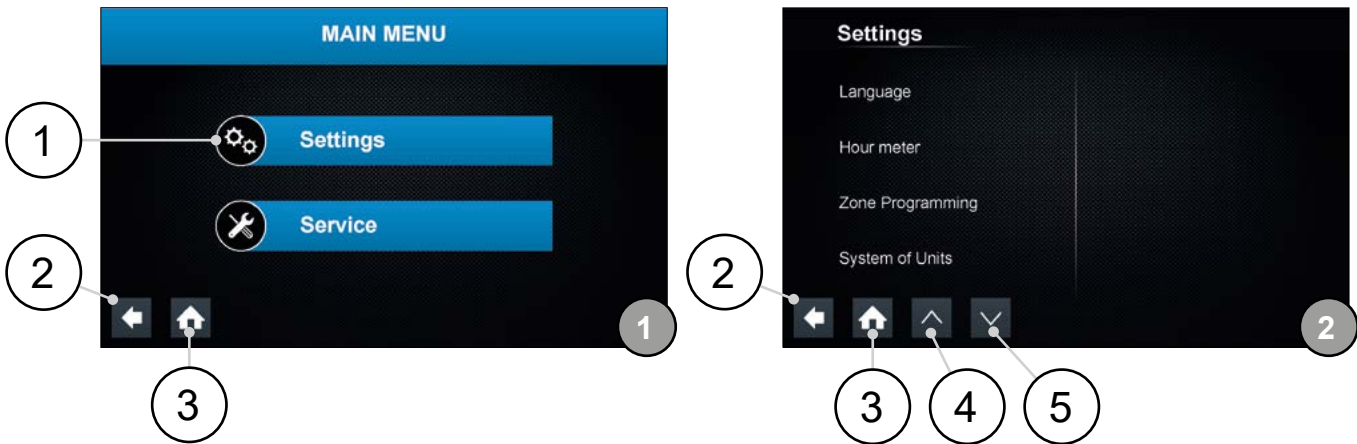
**i NB:** press the “HOME” button (4) to return to the work screen (**Fig. 3**).

# SETTINGS MENU (MAIN)

To view the “GENERAL SETTINGS” menu, proceed as follows:

1. Open the “MAIN MENU”. See [“MAIN MENU” on page 14](#).
2. To access the SETTINGS menu, press the button (1) (**Fig. 1**).

**i** NB: in the Parameters menu, the display is only shown in English.



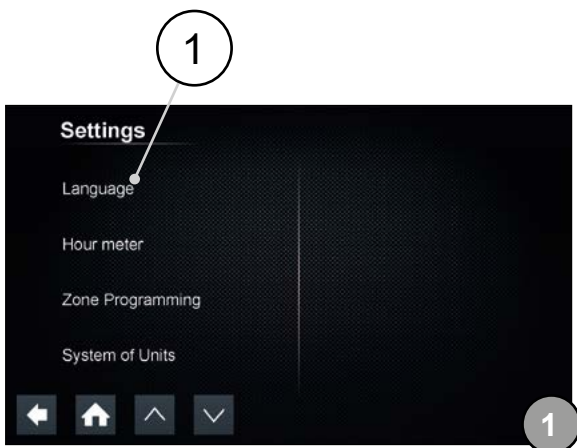
The following sub-menus can be selected on the Settings menu screen (**Fig. 2**):

<b>Language</b>	Used to change the language on the control display. See <a href="#">“LANGUAGE MENU (SETTINGS - MAIN)” on page 15</a> .
<b>Hourmeter</b>	Used to change the type of hour meter selected on the main machine display. See <a href="#">“HOUR METER MENU (SETTINGS - MAIN)” on page 16</a> .
<b>Zone Programming</b>	Used to change the parameters in the zone programs. See <a href="#">“ZONE PROGRAMMING MENU (SETTINGS - MAIN)” on page 18</a>
<b>System of Units</b>	Used to change the measuring system for viewing the parameters on the control display. See <a href="#">“SYSTEM OF UNITS MENU (SETTINGS - MAIN)” on page 21</a>

**i** NB: press the “BACK” button (2) to return to the previous menu screen.

**i** NB: press the “HOME” button (3) to return to the work screen.

# LANGUAGE MENU (SETTINGS - MAIN)

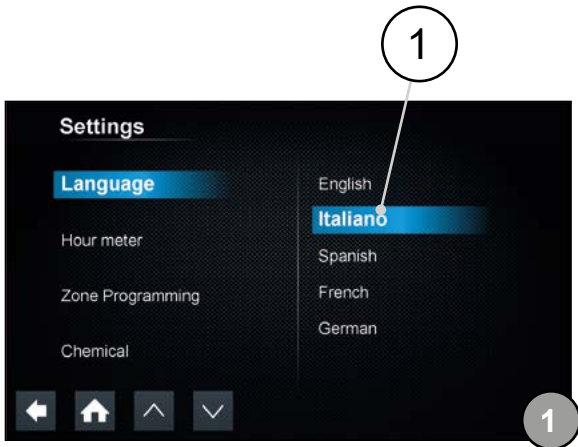


To view the “LANGUAGE” menu, proceed as follows:

1. Open the “SETTINGS MENU” menu. See [“SETTINGS MENU \(MAIN\)” on page 15](#).
2. To access the LANGUAGE menu, press the button (1) (**Fig. 1**).

On the Language Menu screen you can change the control display language. See [“CHANGING THE CONTROL DISPLAY LANGUAGE \(LANGUAGE - SETTINGS\)” on page 16](#).

## CHANGING THE CONTROL DISPLAY LANGUAGE (LANGUAGE - SETTINGS)



To change the control display language, proceed as follows:

1. Open the “LANGUAGE” menu. See [“LANGUAGE MENU \(SETTINGS - MAIN\)” on page 15](#).
2. As soon as the “LANGUAGE” screen appears (**Fig. 1**), select the control display language.

**i NB:** let’s use ITALIAN as an example.

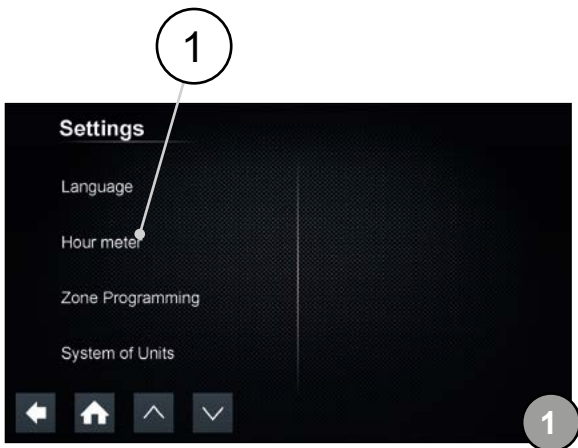
3. On the Language screen (**Fig. 1**), select “ITALIAN” (1).
4. Press the HOME button to return to the work screen.

The following languages can be selected on the Language menu screen:

English	Select this if you want English as the main control display language
Italiano	Select this if you want Italian as the main control display language
French	Select this if you want French as the main control display language
German	Select this if you want German as the main control display language
Spanish	Select this if you want Spanish as the main control display language

**i NB:** changing the language displays the text strings of the menus and alarms in the selected language.

## HOUR METER MENU (SETTINGS - MAIN)



To view the HOUR METER screen, proceed as follows:

1. Open the “SETTINGS MENU” menu. See [“SETTINGS MENU \(MAIN\)” on page 15](#).
2. To access the HOUR METER menu, press the button (1) (**Fig. 1**).

The following sub-menus can be selected on the Hour Meter menu screen:

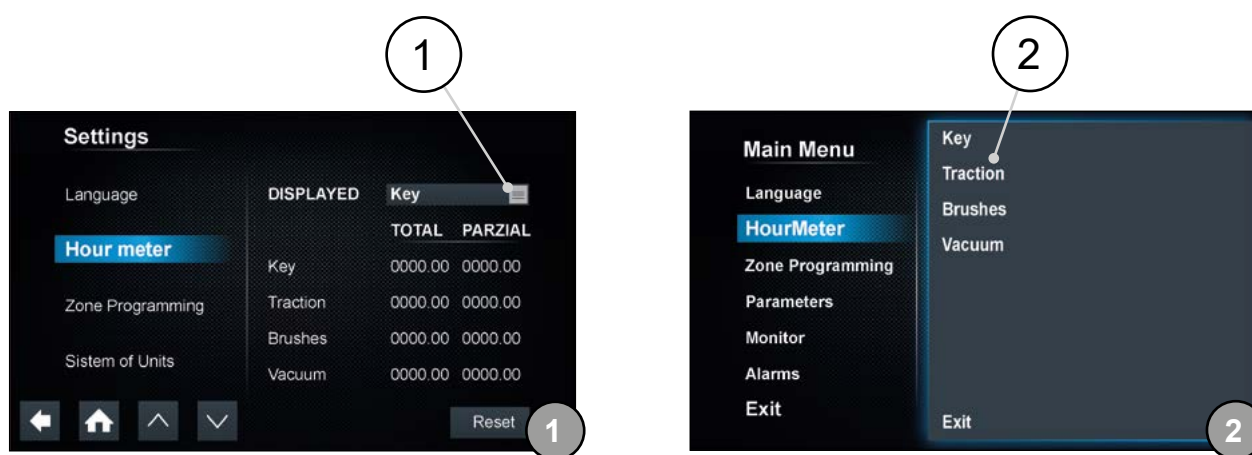
Change the type of hour meter used on the control display. See [“CHANGING THE HOUR METER ON THE CONTROL DISPLAY \(HOUR METER - SETTINGS\)” on page 17](#)

Reset one of the four partial hour meters in the machine. See [“RESETTING THE PARTIAL HOUR METER \(HOUR METER - SETTINGS\)” on page 17](#)

## CHANGING THE HOUR METER ON THE CONTROL DISPLAY (HOUR METER - SETTINGS)

To change the type of hour meter shown on the control display, proceed as follows:

1. Open the “HOUR METER” menu. See [“HOUR METER MENU \(SETTINGS - MAIN\)” on page 16](#).
2. As soon as the “HOUR METER” screen appears (**Fig. 1**), press the button (1) to see the screen for selecting the control display hour meter.
3. As soon as the button (1) is pressed, the “SELECT CONTROL DISPLAY HOUR METER” screen appears on the control display (**Fig. 2**).
4. Select the type of hour meter you want to use, for example the one linked to traction (2) (**Fig. 2**).
5. Press the HOME button to return to the work screen.



The following partial hour meters can be selected on the screen (**Fig. 3**):

<b>Key</b>	Hour meter relating to the machine ignition key
<b>Traction</b>	Hour meter relating to the machine traction motor
<b>Brushes</b>	Hour meter relating to the machine brush motor
<b>Vacuum</b>	Hour meter relating to the machine vacuum motor

## RESETTING THE PARTIAL HOUR METER (HOUR METER - SETTINGS)

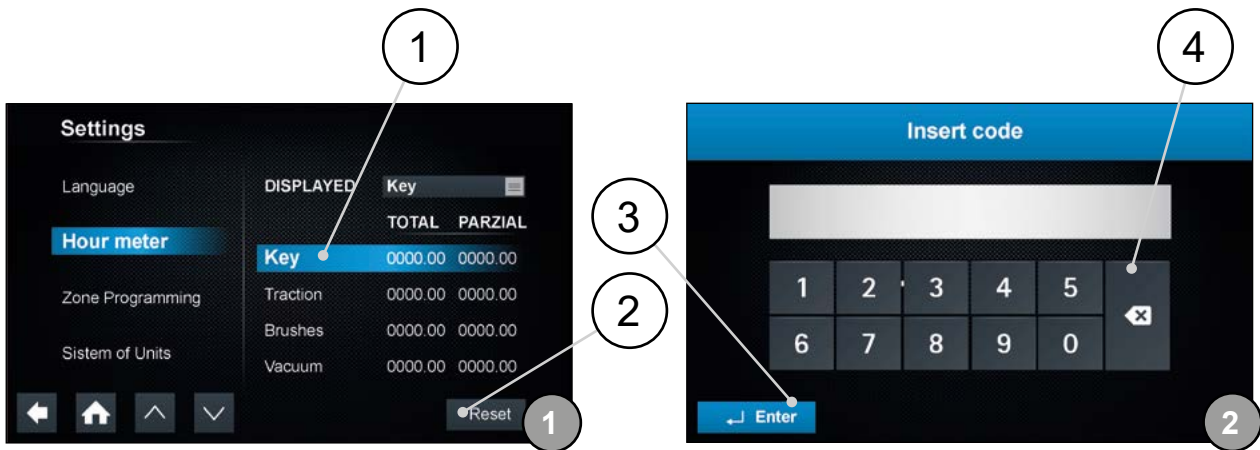
To reset a partial hour meter, proceed as follows:

1. Open the “HOUR METER” menu. See [“HOUR METER MENU \(SETTINGS - MAIN\)” on page 16](#).
2. As soon as the “HOUR METER” screen appears, select the hour meter you want to reset (1) (**Fig. 1**).
3. Press the RESET button (2) (**Fig. 1**).
4. As soon as the RESET button is pressed, the “INSERT CODE” screen appears on the control display (**Fig. 2**).
5. Use the numerical keypad to enter the password, then press ENTER (3) to confirm (**Fig. 2**).

**i** **NB:** to delete the last number entered, press BACKSPACE (4) (**Fig. 2**).

**i** **NB:** to reset the partial hour meter, at least the CUSTOMER password level is required. To find out the password, contact your nearest FIMAP dealer.

6. Press the HOME button to return to the work screen.



The following partial hour meters can be selected on the screen (Fig. 3):

<b>Key</b>	Hour meter relating to the machine ignition key
<b>Traction</b>	Hour meter relating to the machine traction motor
<b>Brushes</b>	Hour meter relating to the machine brush motor
<b>Vacuum</b>	Hour meter relating to the machine vacuum motor

## ZONE PROGRAMMING MENU (SETTINGS - MAIN)

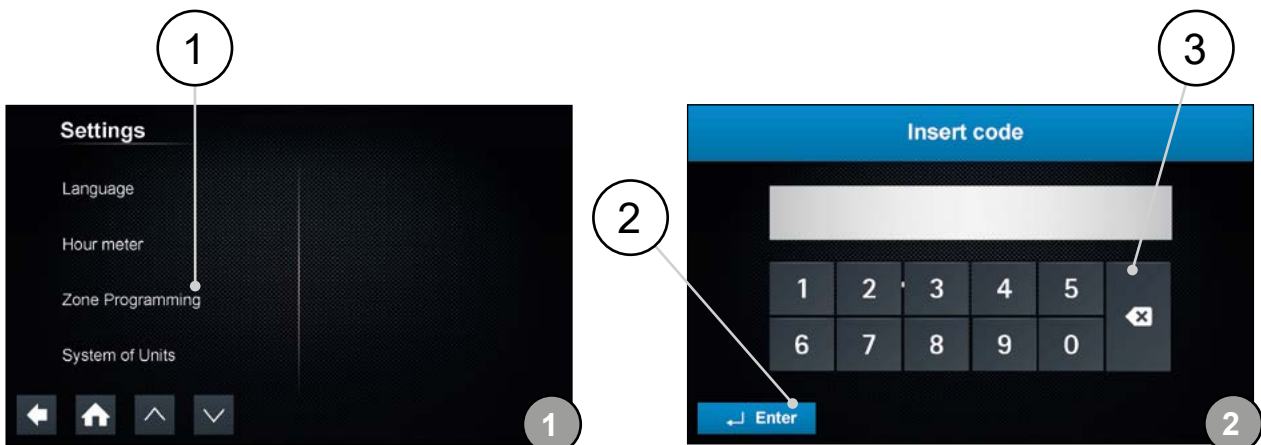
To view the ZONE PROGRAMMING screen, proceed as follows:

1. Open the “SETTINGS” menu. See [“SETTINGS MENU \(MAIN\)” on page 15](#).
2. To access the ZONE PROGRAMMING menu, press the button (1) (Fig. 1).
3. As soon as the ZONE PROGRAMMING button is pressed, the “INSERT CODE” screen appears on the control display (Fig. 2).
4. Use the numerical keypad to enter the password, then press ENTER (2) to confirm (Fig. 2).

**i NB:** to delete the last number entered, press BACKSPACE (3) (Fig. 2).

**i NB:** access to the ZONE PROGRAMMING menu requires at least the CUSTOMER password level. To find out the password, contact your nearest FIMAP dealer.

**i NB:** if the entered password is correct and the security level is correct, access is granted to the “ZONE PROGRAMMING” screen; if the entered password is correct but the security level is lower than that required, “USER NOT ENABLED” will appear on the screen.



The following sub-menus can be selected on the Zone Programming menu screen:

<b>Zone</b>	Used to activate or deactivate the ZONE MODE WORKING PROGRAM. See <a href="#">“ACTIVATING/DEACTIVATING ZONE MODE (ZONE PROGRAMMING - SETTINGS)”</a> on page 19.
<b>Manual</b>	Used to activate or deactivate the MANUAL MODE WORKING PROGRAM. See <a href="#">“ACTIVATING/DEACTIVATING MANUAL MODE (ZONE PROGRAMMING - SETTINGS)”</a> on page 19.
<b>Limited Access</b>	Used to make the ACCESSIBILITY menu accessible by entering a password. See <a href="#">“ACTIVATING/DEACTIVATING ZONE PROGRAMMING MENU ACCESSIBILITY (ZONE PROGRAMMING - SETTINGS)”</a> on page 20.
<b>Zone parameter modification</b>	Used to MODIFY THE PARAMETERS OF THE ZONES in the ZONE MODE. See <a href="#">“CHANGING THE WORK ZONE PARAMETERS (ZONE PROGRAMMING - SETTINGS)”</a> on page 20

## ACTIVATING/DEACTIVATING ZONE MODE (ZONE PROGRAMMING - SETTINGS)



To activate or deactivate the ZONE MODE program, proceed as follows:

1. Open the “ZONE PROGRAMMING” menu. See [“ZONE PROGRAMMING MENU \(SETTINGS - MAIN\)”](#) on page 18.
2. On the Zone Programming screen, select “ZONE” (1) (Fig. 1).

**i** **NB:** moving the selector to OFF disables the working program, whereas moving it to ON enables it.

## ACTIVATING/DEACTIVATING MANUAL MODE (ZONE PROGRAMMING - SETTINGS)

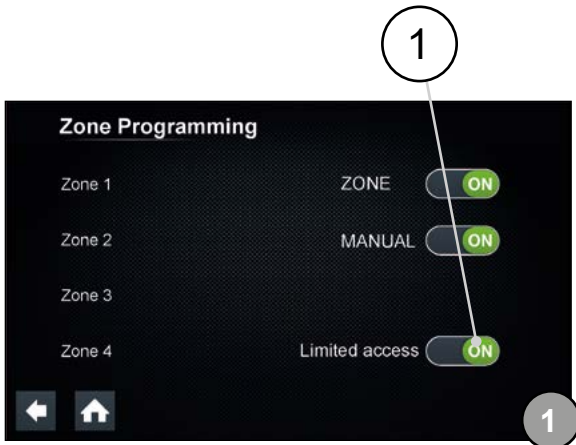


To activate or deactivate the MANUAL MODE program, proceed as follows:

1. Open the “ZONE PROGRAMMING” menu. See [“ZONE PROGRAMMING MENU \(SETTINGS - MAIN\)”](#) on page 18.
2. On the Zone Programming screen, select “MANUAL” (1) (Fig. 1).

**i** **NB:** moving the selector to OFF disables the working program, whereas moving it to ON enables it.

## ACTIVATING/DEACTIVATING ZONE PROGRAMMING MENU ACCESSIBILITY (ZONE PROGRAMMING - SETTINGS)



To activate or deactivate the password for the Zone Programming menu, proceed as follows:

1. Open the “ZONE PROGRAMMING” menu. See [“ZONE PROGRAMMING MENU \(SETTINGS - MAIN\)”](#) on page 18.
2. On the Zone Programming screen, select “LIMITED ACCESS” (1) (Fig. 1).

**i NB:** moving the selector to OFF disables the request for a password to access the menu, whereas moving it to ON enables the request.

## CHANGING THE WORK ZONE PARAMETERS (ZONE PROGRAMMING - SETTINGS)

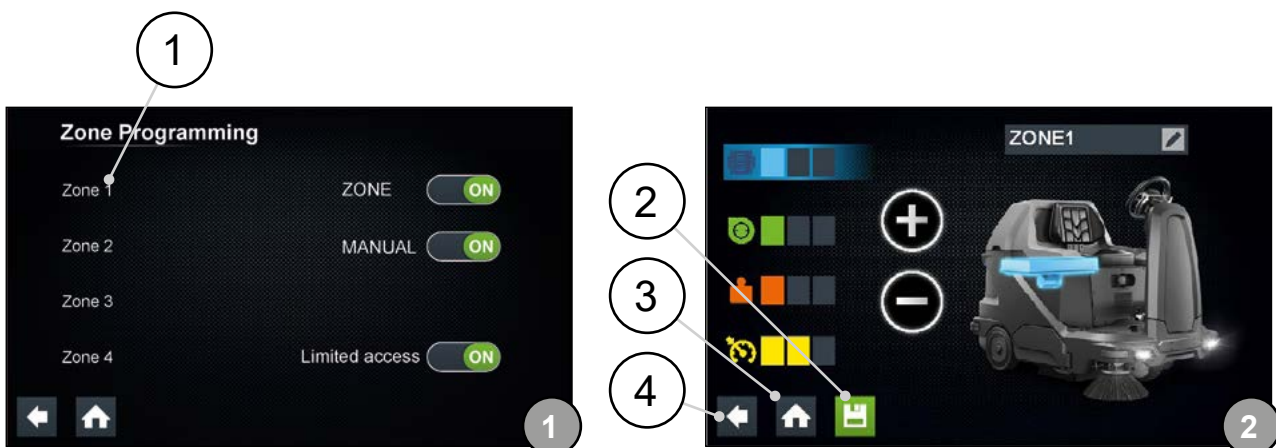
To change the parameters in the zone programs, proceed as follows:

1. Open the “ZONE PROGRAMMING” menu. See [“ZONE PROGRAMMING MENU \(SETTINGS - MAIN\)”](#) on page 18.
2. On the Zone Programming screen, select the zone you want to modify - “Zone 1” (1) (Fig. 1).
3. As soon as the zone program is selected, the “CHANGE ZONE PROGRAM” menu will appear on the display (Fig. 2).

**i NB:** to save the modifications made, press “SAVE” (2) (Fig. 2).

**i NB:** to return to the work screen, press “HOME” (3) (Fig. 2).

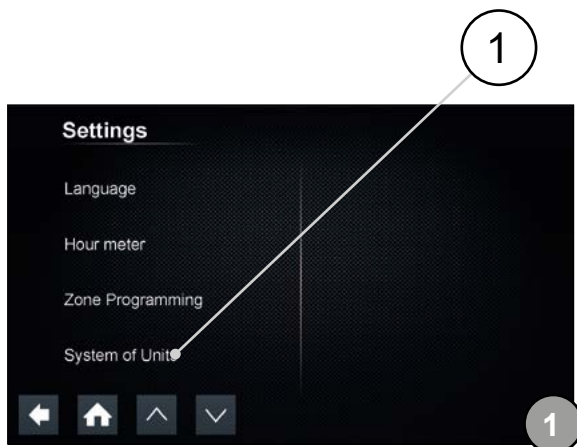
**i NB:** to return to the previous screen, press “BACK” (4) (Fig. 2).



The following changes can be made on the Zone Programming modification screen:

	<b>Zone name</b>	For changing the name of the work zone. As soon as this button is pressed, an alphanumerical keypad will appear on the screen, allowing you to alter the name of the work zone.
	<b>Filter shaker frequency</b>	For changing the filter shaker activation frequency. Press this button, then (+) to increase the frequency or (-) to reduce it. The activation frequency can be adjusted to three levels, from a minimum of one to a maximum of three.
	<b>Vacuum motor</b>	For changing the vacuum motor performance level. Press this button, then (+) to increase the performance or (-) to reduce it. The performance can be adjusted to three levels, from a minimum of one to a maximum of three.
	<b>Brush head pressure</b>	For changing the level of pressure exerted on the central brush. Press this button, then (+) to increase the pressure or (-) to reduce it. The pressure can be adjusted to three levels, from a minimum of one to a maximum of three.
	<b>Forward speed</b>	For changing the traction motor performance level. Press this button, then (+) to increase the performance or (-) to reduce it. The performance can be adjusted to three levels, from a minimum of one to a maximum of three.

## SYSTEM OF UNITS MENU (SETTINGS - MAIN)



To view the SYSTEM OF UNITS screen, proceed as follows:

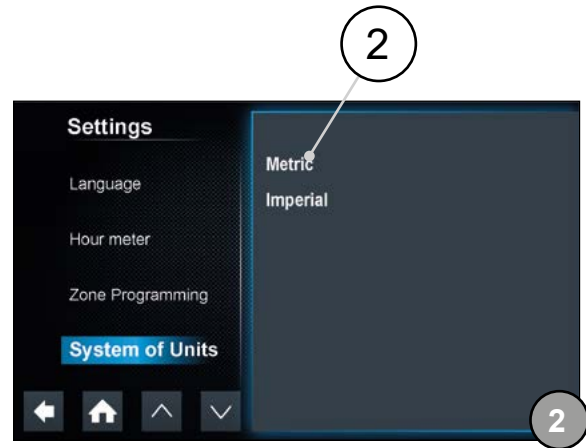
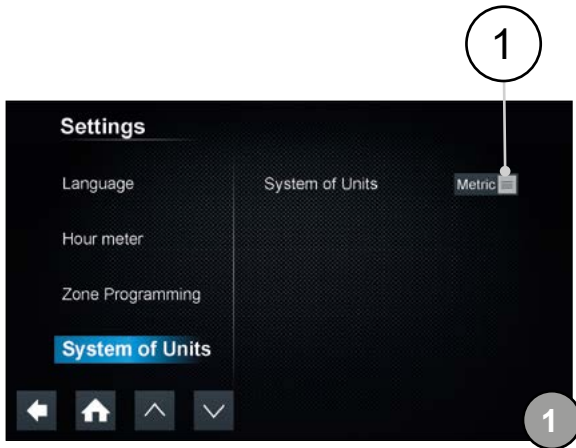
1. Open the "SETTINGS MENU" menu. See ["SETTINGS MENU \(MAIN\)" on page 15](#).
2. To access the SYSTEM OF UNITS menu, press the button (1) (Fig. 1).

On the System of Units screen, you can select the measuring system for the parameters visualised on the control display.

## CHANGING THE MEASURING SYSTEM OF THE PARAMETERS ON THE DISPLAY (SYSTEM OF UNITS - SETTINGS)

To change the measuring system for the parameters visualised on the control display, proceed as follows:

1. Open the “SYSTEM OF UNITS” menu. See [“SYSTEM OF UNITS MENU \(SETTINGS - MAIN\)” on page 21](#).
2. On the System Of Units screen (**Fig. 1**), press the button (1) to see the screen for selecting the measuring system.
3. As soon as the button (1) is pressed, the “MEASUREMENT SYSTEM” screen appears on the control display (**Fig. 2**).
4. Select the measuring system you want to use - for example “METRIC” (2) (**Fig. 2**).



**i NB:** if you want to adopt the metric measurement system, select “METRIC”; if you want to adopt the imperial measurement system, select “IMPERIAL”.

**i NB:** once the required measurement system has been selected, all the values are converted automatically.







The following units of measurement will be converted:

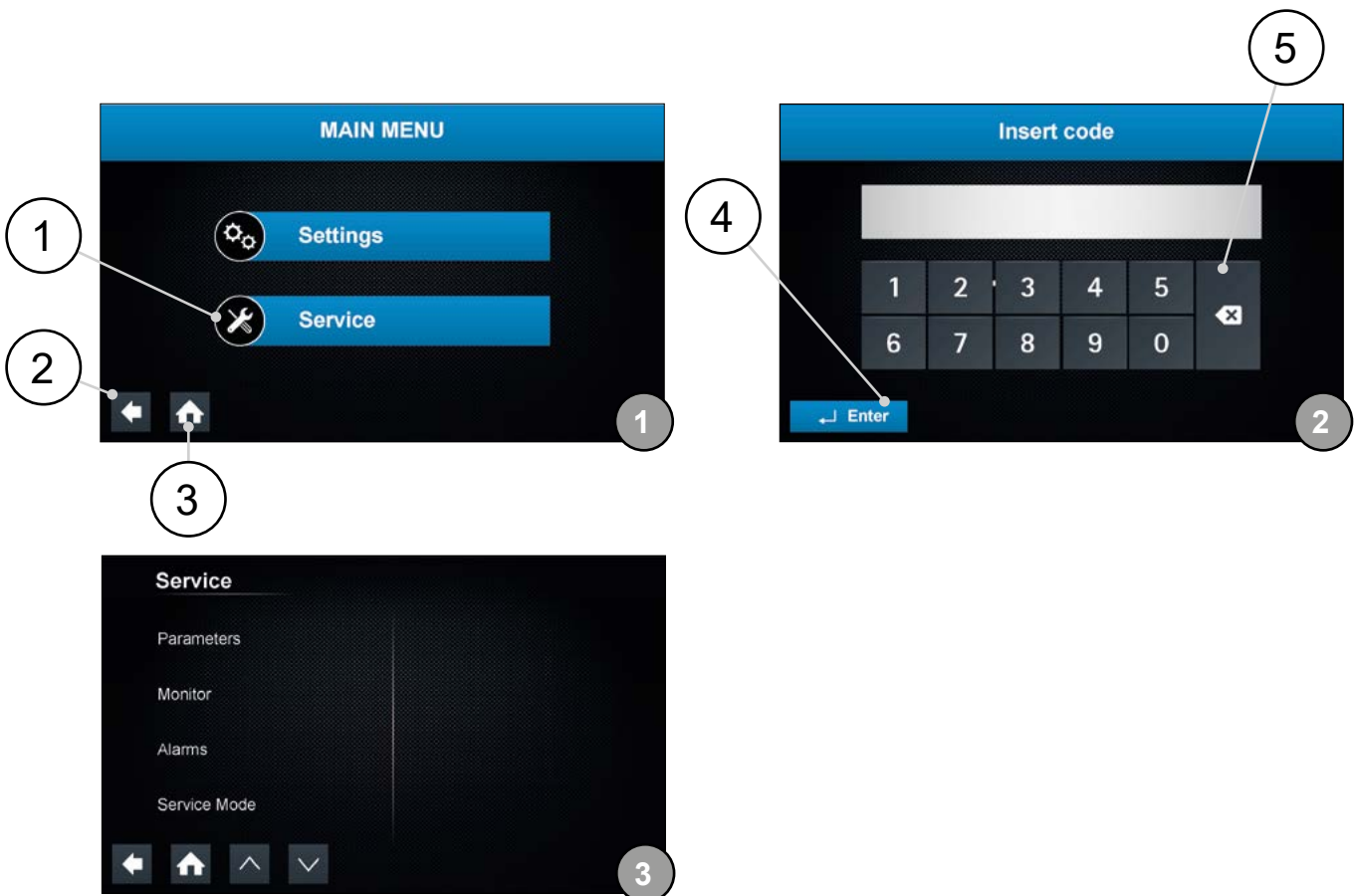
PARAMETER	METRIC MEASUREMENT SYSTEM	IMPERIAL MEASUREMENT SYSTEM
Temperature	°C	°F
Speed	km/h	mph

# SERVICE MENU (MAIN)

To view the “GENERAL SETTINGS” menu, proceed as follows:

1. Open the “MAIN MENU”. See [“MAIN MENU” on page 14](#).
2. To access the SERVICE menu, press the button (1) (Fig. 1).
3. As soon as the Service button is pressed, the “INSERT CODE” screen appears (Fig. 2).
4. Use the numerical keypad to enter the password, then press ENTER (4) to confirm (Fig. 2).

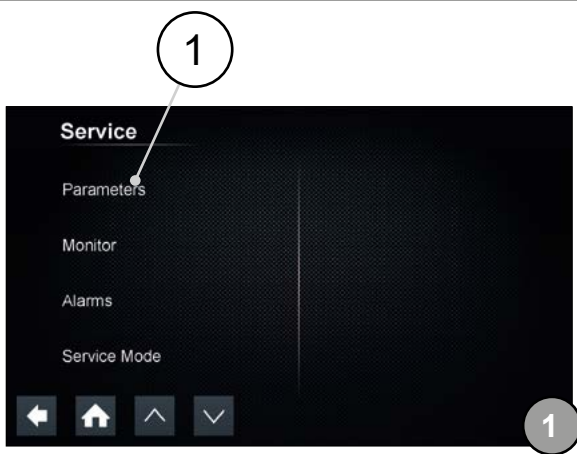
-  **NB:** to delete the last number entered, press BACKSPACE (5) (Fig. 2).
-  **NB:** to reset the partial hour meter, at least the CUSTOMER password level is required. To find out the password, contact your nearest FIMAP dealer.
-  **NB:** if the entered password is correct and the security level is correct, access is granted to the “SERVICE” screen (Fig. 3); if the entered password is correct but the security level is lower than that required, “USER NOT ENABLED” will appear on the screen.
-  **NB:** press the “BACK” button (2) (Fig. 1) to return to the previous menu screen.
-  **NB:** press the “HOME” button (3) (Fig. 1) to return to the work screen.
-  **NB:** in the parameters menu, the display is only shown in English.



The following sub-menus can be selected on the Service menu screen (**Fig. 3**):

<b>Parameters</b>	Used to view and/or change the machine parameters. See <a href="#">“PARAMETERS MENU (SERVICE - MAIN)” on page 24</a> .
<b>Monitor</b>	Used to view the instantaneous machine values. See <a href="#">“MONITOR MENU (SERVICE - MAIN)” on page 54</a> .
<b>Alarms</b>	Used to view the list of alarms that have occurred while using the machine. See <a href="#">“ALARMS MENU (SERVICE - MAIN)” on page 57</a> .
<b>Service Mode</b>	Technical assistance parameters menu

## PARAMETERS MENU (SERVICE - MAIN)



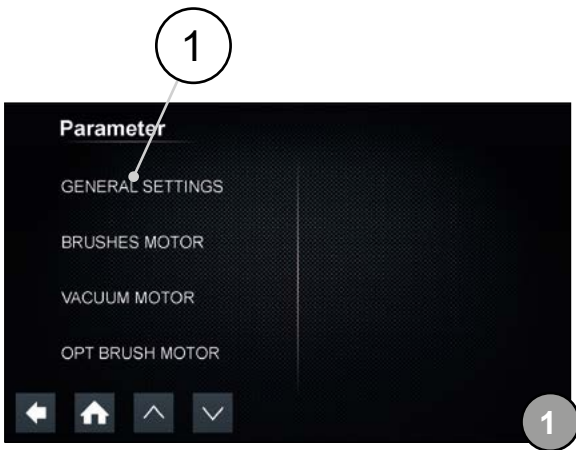
To view the “PARAMETERS” menu, proceed as follows:

1. Open the “SERVICE” menu. See [“SERVICE MENU \(MAIN\)” on page 23](#).
2. To access the PARAMETERS menu, press the button (1) (**Fig. 1**).

The following sub-menus can be selected on the Parameters menu screen:

<b>GENERAL SETTINGS</b>	Used to view and/or change the general machine parameters. See <a href="#">“GENERAL SETTINGS MENU (PARAMETERS - SERVICE)” on page 25</a> .
<b>BRUSHES MOTOR</b>	Used to view and/or change the parameters of the machine's scrubbing system. See <a href="#">“BRUSH MOTOR MENU (PARAMETERS - SERVICE)” on page 37</a> .
<b>VACUUM MOTOR</b>	Used to view and/or change the parameters of the machine's vacuum system. See <a href="#">“VACUUM MOTOR MENU (PARAMETERS - SERVICE)” on page 40</a> .
<b>OPT BRUSH MOTOR</b>	Used to view and/or change the parameters of the left-hand side brush. See <a href="#">“OPT BRUSH MOTOR MENU (PARAMETERS - SERVICE)” on page 43</a> .
<b>ACTUATORS</b>	Used to view and/or change the parameters of the machine actuators. Only service technicians can access this sub-menu.
<b>TRACTION MENU</b>	Used to view and/or change the parameters relating to the machine's traction system. See <a href="#">“TRACTION MENU (PARAMETERS - SERVICE)” on page 44</a> .

## GENERAL SETTINGS MENU (PARAMETERS - SERVICE)



To view the “GENERAL SETTINGS” menu, proceed as follows:

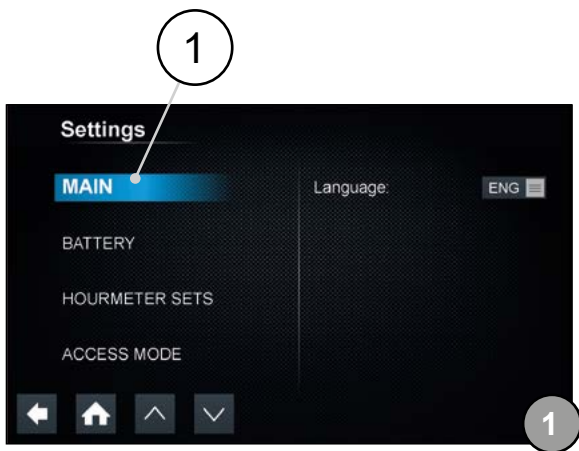
1. Open the “PARAMETERS” menu. See [“PARAMETERS MENU \(SERVICE - MAIN\)”](#) on page 24.
2. To access the GENERAL SETTINGS menu, press the button (1) (**Fig. 1**).

The following sub-menus can be selected on the General menu screen (**Fig. 1**):

<b>MAIN</b>	Used to change the language on the control display. See <a href="#">“LANGUAGE MENU (MAIN - GENERAL SETTINGS)”</a> on page 26.
<b>BATTERY</b>	Used to select the type of battery that powers the machine. See <a href="#">“BATTERY TYPE MENU (BATTERY - GENERAL SETTINGS)”</a> on page 27.
	Used to alter the discharge curve of the CUSTOM battery type. See <a href="#">“CUSTOM LEVEL MENU (BATTERY - GENERAL SETTINGS)”</a> on page 28.
<b>HOURLMETER</b>	Used to select the type of partial hour meter visualised on the control display. See <a href="#">“PARTIAL HMT MENU TO DISPL (HOUR METER SETTINGS - GENERAL SETTINGS)”</a> on page 29
	Used to reset the partial hour meter visualised on the control display. See <a href="#">“PARTIAL HMT RESET MENU (HOUR METER SETTINGS - GENERAL SETTINGS)”</a> on page 29
<b>ACCESS MODE</b>	Used to change the CUSTOMER level password. See <a href="#">“PASSWORD 3 MENU: CUSTOMER (ACCESS MODE - GENERAL SETTINGS)”</a> on page 31
	Used to change the USER level password. See <a href="#">“PASSWORD 4 MENU: USER (ACCESS MODE - GENERAL SETTINGS)”</a> on page 31
	Used to change the PIN level password. See <a href="#">“PASSWORD 5 MENU: PIN (ACCESS MODE - GENERAL SETTINGS)”</a> on page 32
	Used to enable or disable the password request for accessing the “SETTINGS” menu. See <a href="#">“PROT. PASSWORD MENU: USER (ACCESS MODE - GENERAL SETTINGS)”</a> on page 32
	Used to enable or disable the password request for using the machine. See <a href="#">“PROT. PASSWORD MENU: PIN (ACCESS MODE - GENERAL SETTINGS)”</a> on page 33
<b>SERVICE MENU</b>	Your password does not allow you to access this menu; it can only be accessed by a service technician.

<b>CONFIG</b>	Used to select the machine model
	Used to manage the WORKLIGHT ENABLING function on the machine. See <a href="#">“WORKLIGHT ENABLING MENU (CONFIG - GENERAL SETTINGS)”</a> on page 34
	Used to manage the ANTI-COLLISION SYSTEM function on the machine. See <a href="#">“ANTI-COLLISION MENU (CONFIG - GENERAL SETTINGS)”</a> on page 34
	Used to manage the HAZARD LIGHTS function on the machine. See <a href="#">“HAZARD LIGHTS MENU (CONFIG - GENERAL SETTINGS)”</a> on page 35
	Used to manage the MANUAL MODE program. See <a href="#">“MANUAL OP ENABLING MENU (CONFIG - GENERAL SETTINGS)”</a> on page 35
	Used to manage the ZONE MODE program. See <a href="#">“ZONE OP ENABLING MENU (CONFIG - GENERAL SETTINGS)”</a> on page 36

## MAIN MENU (GENERAL SETTINGS - PARAMETERS)



To view the MAIN menu, proceed as follows:

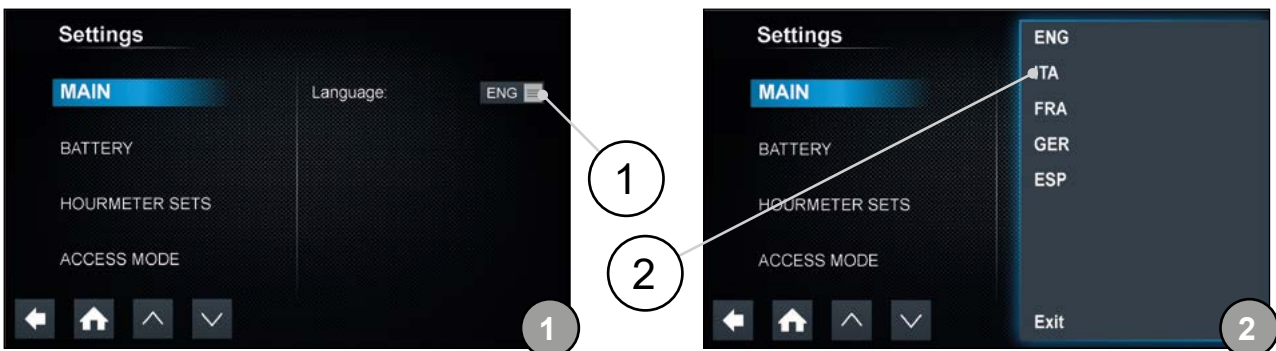
1. Open the “SETTINGS” menu. See [“GENERAL SETTINGS MENU \(PARAMETERS - SERVICE\)”](#) on page 25.
2. To access the MAIN menu, press the button (1) (**Fig. 1**).

The LANGUAGE menu can be viewed on the Main menu screen.

## LANGUAGE MENU (MAIN - GENERAL SETTINGS)

To change the control display language, proceed as follows:

1. Open the “MAIN” menu. See [“MAIN MENU \(GENERAL SETTINGS - PARAMETERS\)”](#) on page 26.
2. Press the button (1) on the control display (**Fig. 1**) to see the “CONTROL DISPLAY LANGUAGE” screen (**Fig. 2**).
3. Select the required language - let's take ITALIAN as an example (ITA) (2) (**Fig. 2**).



The following sub-menus can be selected on the Language menu screen:

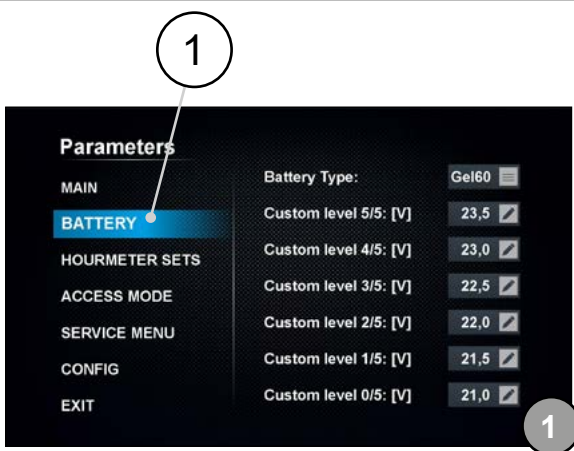
ENG	Select this if you want English as the main control display language
ITA	Select this if you want Italian as the main control display language
FRA	Select this if you want French as the main control display language
GER	Select this if you want German as the main control display language
ESP	Select this if you want Spanish as the main control display language

**i NB:** changing the language displays the text strings of the menus and alarms in the selected language.

## BATTERY MENU (GENERAL SETTINGS - PARAMETERS)

To view the BATTERY menu, proceed as follows:

1. Open the “SETTINGS” menu. See [“GENERAL SETTINGS MENU \(PARAMETERS - SERVICE\)”](#) on page 25.
2. To access the BATTERY menu, press the button (1) (Fig. 1).



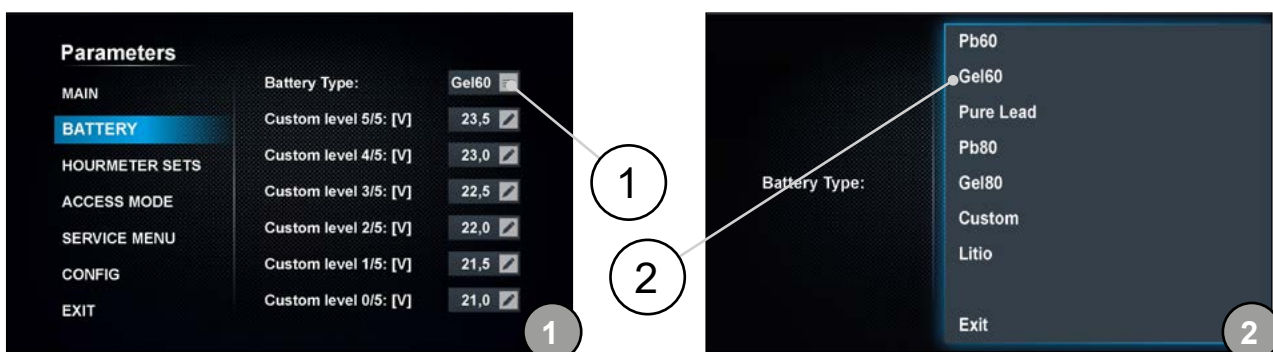
The following sub-menus can be selected on the Language menu screen:

BATTERY TYPE	Used to select the type of battery that powers the machine. See <a href="#">“BATTERY TYPE MENU (BATTERY - GENERAL SETTINGS)”</a> on page 27.
CUSTOM LEVEL	Used to alter the discharge curve of the CUSTOM battery type. See <a href="#">“CUSTOM LEVEL MENU (BATTERY - GENERAL SETTINGS)”</a> on page 28.

## BATTERY TYPE MENU (BATTERY - GENERAL SETTINGS)

To change the type of power supply battery of the machine, proceed as follows:

1. View the “BATTERY” menu. See [“BATTERY MENU \(GENERAL SETTINGS - PARAMETERS\)”](#) on page 27.
2. Press the button (1) on the control display (Fig. 1).
3. As soon as the button (1) is pressed, the “BATTERY TYPE” screen appears on the control display (Fig. 2). Select the type of battery required.



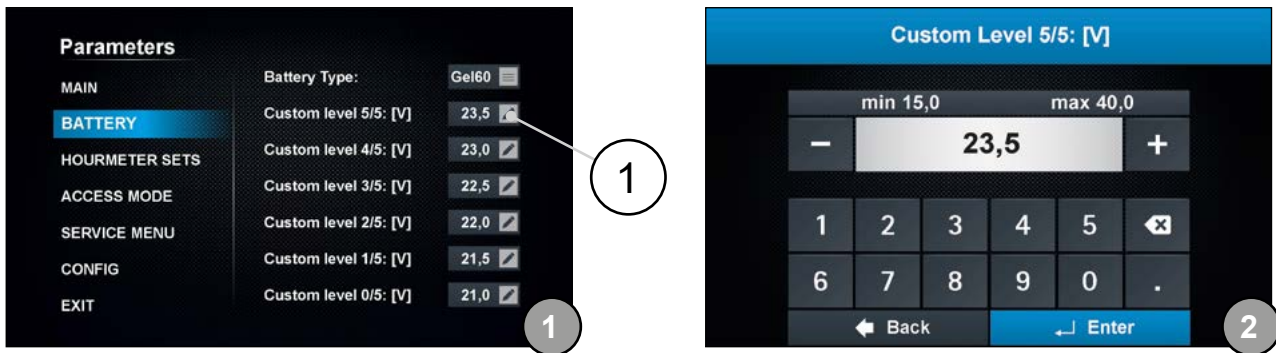
**i NB:** the type of battery will be changed the next time the machine is turned on.

**i NB:** for machines with an on-board battery charger, remember to carry out the same change for the battery charger installed on board the machine.

### CUSTOM LEVEL MENU (BATTERY - GENERAL SETTINGS)

To change the discharge curve of the custom battery type, proceed as follows:

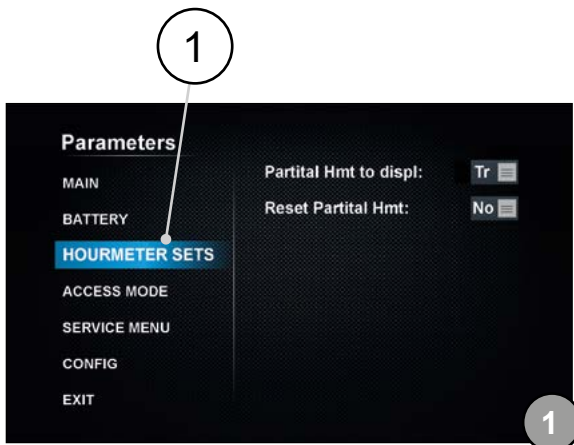
1. View the “BATTERY” menu. See [“BATTERY MENU \(GENERAL SETTINGS - PARAMETERS\)”](#) on page 27.
2. Press the button (1) on the control display (**Fig. 1**).
3. As soon as the symbol (1) is selected, you will see the screen that enables you to set the value of the battery discharge curve that you want to use on the machine (**Fig. 2**).
4. Use the numerical keypad or the “+” and “-” symbols to enter the value, then save by pressing “Enter”.



**i NB:** to create the discharge curve, there are six levels to enter, from Custom Level 0/5 to Custom Level 5/5.

### HOURLY METER SETTINGS MENU (GENERAL SETTINGS - PARAMETERS)

To view the HOURLY METER SETTINGS menu, proceed as follows:



1. Open the “SETTINGS” menu. See [“GENERAL SETTINGS MENU \(PARAMETERS - SERVICE\)”](#) on page 25.
2. To access the HOURLY METER SETTINGS menu, press the button (1) (**Fig. 1**).

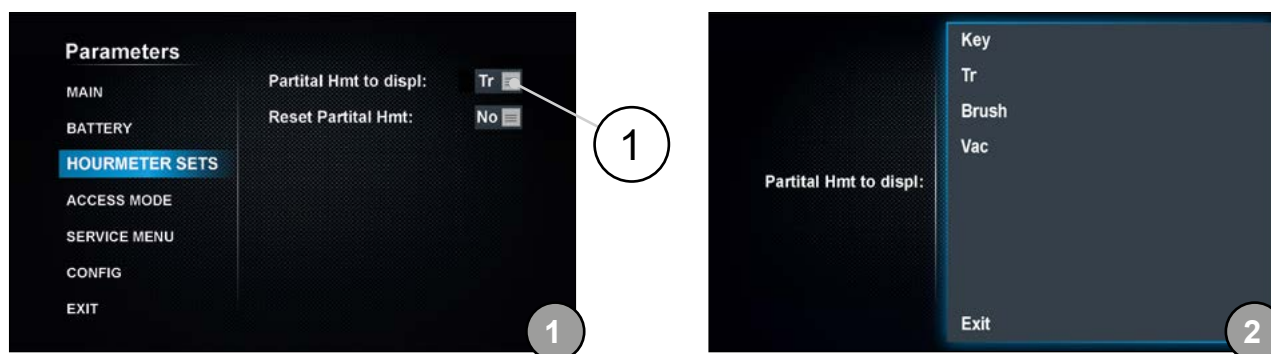
The following sub-menus can be selected on the Language menu screen:

<b>Partital Hmt to displ</b>	Used to select the type of hour meter visualised on the main machine display. See <a href="#">“PARTIAL HMT MENU TO DISPL (HOURLY METER SETTINGS - GENERAL SETTINGS)”</a> on page 29
<b>Reset Partital Hmt</b>	Used to reset the partial hour meter. See <a href="#">“PARTIAL HMT RESET MENU (HOURLY METER SETTINGS - GENERAL SETTINGS)”</a> on page 29.

## PARTIAL HMT MENU TO DISPL (HOUR METER SETTINGS - GENERAL SETTINGS)

To change the type of partial hour meter shown on the control display, proceed as follows:

1. Open the “HOUR METER SETTINGS” menu. See [“HOUR METER SETTINGS MENU \(GENERAL SETTINGS - PARAMETERS\)” on page 28](#).
2. Press the button (1) on the control display (**Fig. 1**).
3. As soon as the symbol (1) is selected, you will see the screen that enables you to select the partial hour meter for the control display (**Fig. 2**).
4. Select the type of hour meter you want to use.



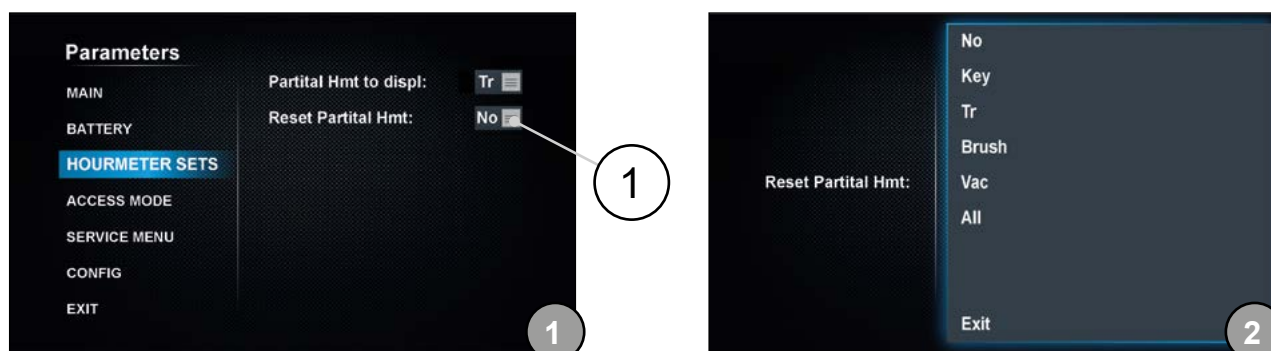
The following partial hour meters can be selected on the screen (**Fig. 2**):

<b>Key</b>	Hour meter relating to the machine ignition key
<b>Tr</b>	Hour meter relating to the machine traction motor
<b>Brush</b>	Hour meter relating to the machine brush motor
<b>Vac</b>	Hour meter relating to the machine vacuum motor

## PARTIAL HMT RESET MENU (HOUR METER SETTINGS - GENERAL SETTINGS)

To reset the partial hour meter shown on the control display, proceed as follows:

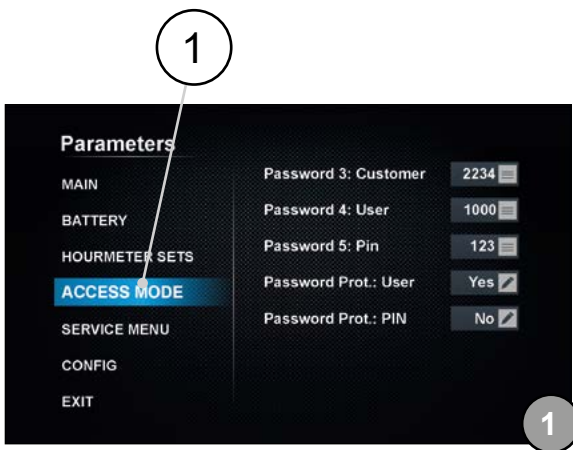
1. Open the “HOUR METER SETTINGS” menu. See [“HOUR METER SETTINGS MENU \(GENERAL SETTINGS - PARAMETERS\)” on page 28](#).
2. Press the button (1) on the control display (**Fig. 1**).
3. As soon as the symbol (1) is selected, you will see the screen that enables you to select the partial hour meter you want to reset (**Fig. 2**).
4. Select the partial hour meter you want to reset.



The following partial hour meters can be reset on the screen (**Fig. 2**):

<b>No</b>	No partial hour meter will be reset
<b>Key</b>	Only the partial hour meter relating to the machine ignition key will be reset
<b>Tr</b>	Only the partial hour meter relating to the machine traction motor will be reset
<b>Br</b>	Only the partial hour meter relating to the machine brush motor will be reset
<b>Vac</b>	Only the partial hour meter related to the machine vacuum motor will be reset
<b>All</b>	All the partial hour meters will be reset

## ACCESS MODE MENU (GENERAL SETTINGS - PARAMETERS)



To view the ACCESS MODE menu, proceed as follows:

1. Open the “SETTINGS” menu. See [“GENERAL SETTINGS MENU \(PARAMETERS - SERVICE\)” on page 25.](#)
2. To open the ACCESS MODE menu, press the button (1) (**Fig. 1**).

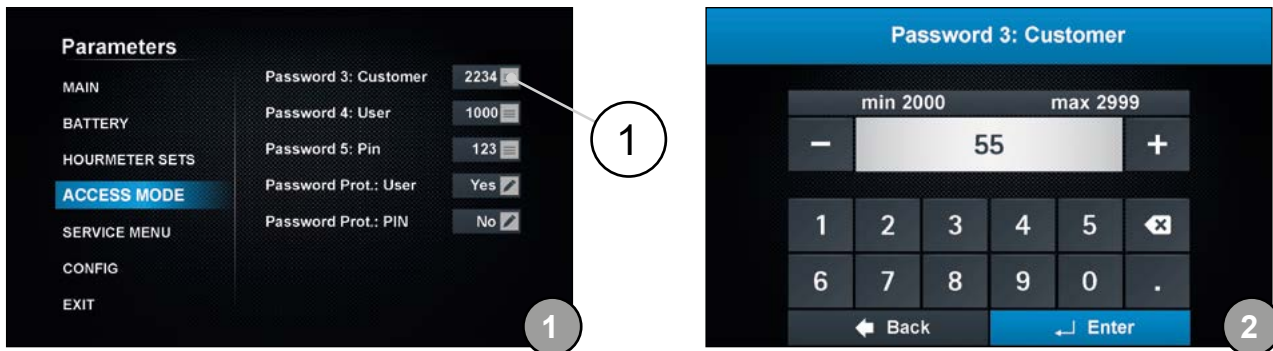
The following sub-menus can be selected on the Access Mode menu screen (**Fig. 1**):

<b>Password Customer</b>	Used to change the CUSTOMER level password. See <a href="#">“PASSWORD 3 MENU: CUSTOMER (ACCESS MODE - GENERAL SETTINGS)” on page 31</a>
<b>Password User</b>	Used to change the USER level password. See <a href="#">“PASSWORD 4 MENU: USER (ACCESS MODE - GENERAL SETTINGS)” on page 31</a>
<b>Password Pin</b>	Used to change the PIN level password. See <a href="#">“PASSWORD 5 MENU: PIN (ACCESS MODE - GENERAL SETTINGS)” on page 32</a>
<b>Password Enable: User</b>	Used to enable or disable the password request for accessing the “SETTINGS” menu. See <a href="#">“PROT. PASSWORD MENU: USER (ACCESS MODE - GENERAL SETTINGS)” on page 32</a>
<b>Password Enable: Pin</b>	Used to enable or disable the password request for using the machine. See <a href="#">“PROT. PASSWORD MENU: PIN (ACCESS MODE - GENERAL SETTINGS)” on page 33</a>

## PASSWORD 3 MENU: CUSTOMER (ACCESS MODE - GENERAL SETTINGS)

To change the CUSTOMER level password, proceed as follows:

1. Open the “ACCESS MODE” menu. See [“ACCESS MODE MENU \(GENERAL SETTINGS - PARAMETERS\)” on page 30](#).
2. On the access mode screen, select “CUSTOMER PASSWORD” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “CUSTOMER PASSWORD” screen appears on the control display (**Fig. 2**). Select the new password.
4. To confirm the change, press “Enter”.



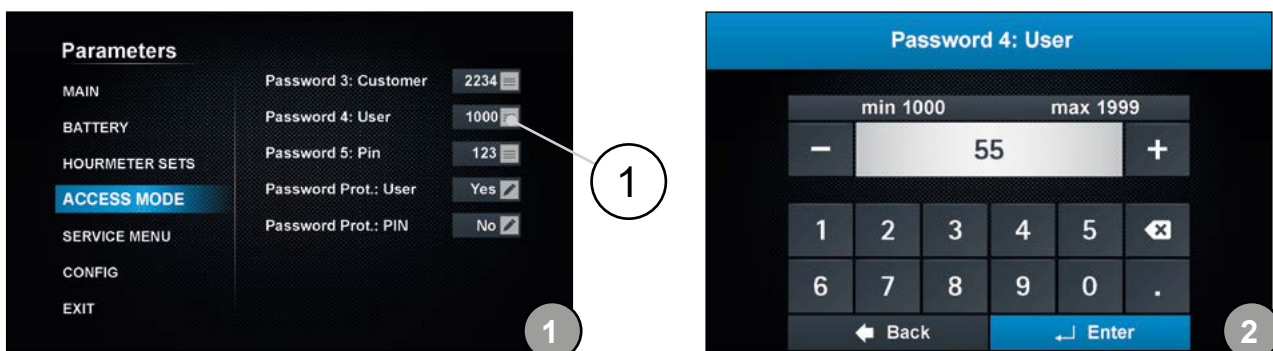
**i** NB: the password set in the factory is 2234; the new password must be between 2000 and 2999.

**i** NB: the CUSTOMER level password makes it possible to change the parameters for the machine functions.

## PASSWORD 4 MENU: USER (ACCESS MODE - GENERAL SETTINGS)

To change the USER level password, proceed as follows:

1. Open the “ACCESS MODE” menu. See [“ACCESS MODE MENU \(GENERAL SETTINGS - PARAMETERS\)” on page 30](#).
2. On the access mode screen, select “USER PASSWORD” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “USER PASSWORD” screen appears on the control display (**Fig. 2**). Select the new password.
4. To confirm the change, press “Enter”.

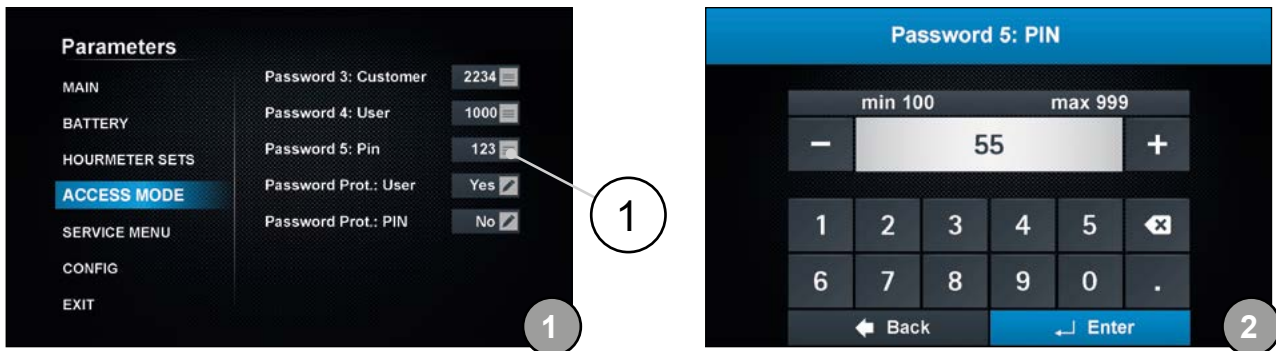


**i** NB: the password set in the factory is 1000; the new password must be between 1000 and 1999.

## PASSWORD 5 MENU: PIN (ACCESS MODE - GENERAL SETTINGS)

To change the PIN level password, proceed as follows:

1. Open the “ACCESS MODE” menu. See [“ACCESS MODE MENU \(GENERAL SETTINGS - PARAMETERS\)” on page 30](#).
2. On the access mode screen, select “PIN PASSWORD” (1) (Fig. 1).
3. As soon as the button (1) is pressed, the “PIN PASSWORD” screen appears on the control display (Fig. 2). Select the new password.
4. To confirm the change, press “Enter”.



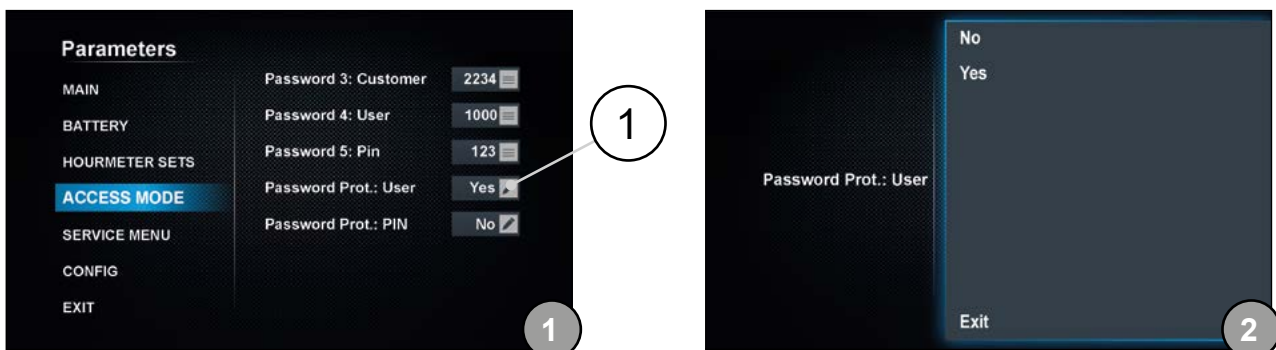
**i NB:** the password set in the factory is 123; the new password must be between 100 and 999.

**i NB:** the PIN level password, if active, is requested when turning on after the start screens to prevent improper machine use.

## PROT. PASSWORD MENU: USER (ACCESS MODE - GENERAL SETTINGS)

To activate or deactivate the request for a USER level password to access the functions in the “SETTINGS” menu, proceed as follows:

1. Open the “ACCESS MODE” menu. See [“ACCESS MODE MENU \(GENERAL SETTINGS - PARAMETERS\)” on page 30](#).
2. On the access mode screen, select “PROT. PASSWORD: USER” (1) (Fig. 1).
3. As soon as the button (1) is pressed, the “PROT. PASSWORD: USER” screen appears on the control display (Fig. 2). Select the new password.
4. To confirm the change, press “Enter”.



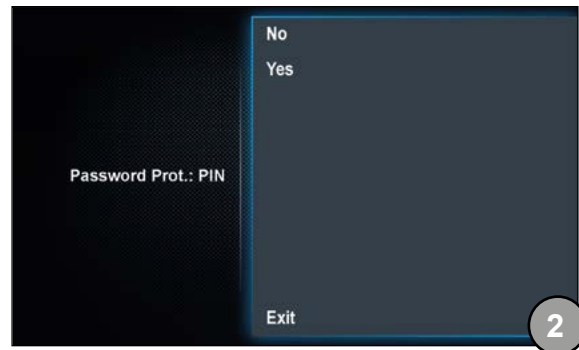
**i NB:** by selecting “NO”, the password will not be active so it is possible to freely access the functions in the “SETTINGS” menu.

**i NB:** by selecting “YES”, the password will be active so the functions in the “SETTINGS” menu can only be accessed if the USER password is entered (the factory setting is 1000).

## PROT. PASSWORD MENU: PIN (ACCESS MODE - GENERAL SETTINGS)

To activate or deactivate the request for a PIN level password to access the functions in the “SETTINGS” menu, proceed as follows:

1. Open the “ACCESS MODE” menu. See [“ACCESS MODE MENU \(GENERAL SETTINGS - PARAMETERS\)” on page 30](#).
2. On the access mode screen, select “PROT. PASSWORD: PIN” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “PROT. PASSWORD: PIN” screen appears on the control display (**Fig. 2**). Select the new password.
4. To confirm the change, press “Enter”.



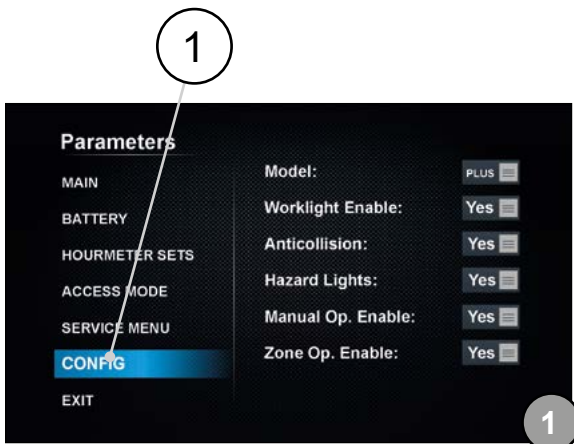
**i NB:** by selecting “NO”, the password will not be active so the machine can be used without entering a password after switch-on.

**i NB:** by selecting “YES”, the password is active so the machine can only be used once a password has been entered.

## CONFIG MENU (GENERAL SETTINGS - PARAMETERS)

To view the CONFIG menu, proceed as follows:

1. Open the “SETTINGS” menu. See [“GENERAL SETTINGS MENU \(PARAMETERS - SERVICE\)” on page 25](#).
2. To access the CONFIG menu, press the button (1) (**Fig. 1**).



The following sub-menus can be selected on the Access Mode menu screen (**Fig. 1**):

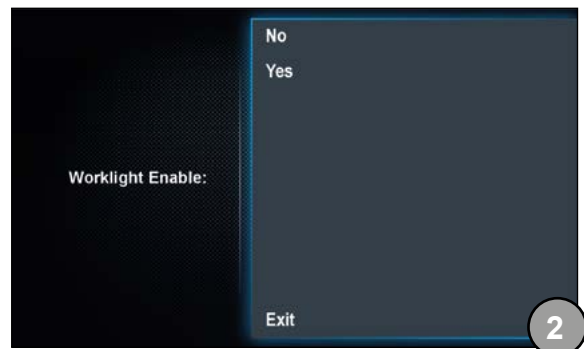
<b>Worklight Enable</b>	Used to manage the worklights on the machine. See <a href="#">“WORKLIGHT ENABLING MENU (CONFIG - GENERAL SETTINGS)” on page 34</a> .
<b>Anticollision</b>	Used to manage the ANTI-COLLISION SYSTEM function on the machine. See <a href="#">“ANTI-COLLISION MENU (CONFIG - GENERAL SETTINGS)” on page 34</a>
<b>Hazard Lights</b>	Used to manage the HAZARD LIGHTS function on the machine. See <a href="#">“HAZARD LIGHTS MENU (CONFIG - GENERAL SETTINGS)” on page 35</a>

<b>Manual Op. Enable</b>	Used to manage the MANUAL MODE program. See <a href="#">“MANUAL OP ENABLING MENU (CONFIG - GENERAL SETTINGS)”</a> on page 35
<b>Zone Op. Enable</b>	Used to manage the ZONE MODE program. See <a href="#">“ZONE OP ENABLING MENU (CONFIG - GENERAL SETTINGS)”</a> on page 36

## WORKLIGHT ENABLING MENU (CONFIG - GENERAL SETTINGS)

To activate or deactivate the working headlight function, proceed as follows:

1. Open the “ACCESS MODE” menu. See [“CONFIG MENU \(GENERAL SETTINGS - PARAMETERS\)”](#) on page 33.
2. On the Config screen, select “WORKLIGHT ENABLING” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “WORKLIGHT ENABLING” screen appears on the control display (**Fig. 2**). Select whether to activate the working headlight function or not.
4. To confirm the change, press “Enter”.



**i NB:** by selecting “NO”, the working headlight function will not be active; select “YES” to activate it.

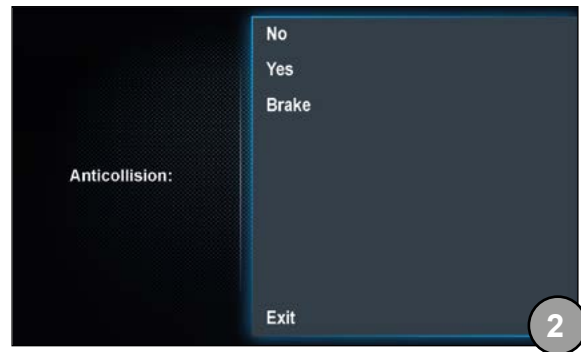
## ANTI-COLLISION MENU (CONFIG - GENERAL SETTINGS)

To manage the anti-collision system function on the machine, proceed as follows:

1. Open the “ACCESS MODE” menu. See [“CONFIG MENU \(GENERAL SETTINGS - PARAMETERS\)”](#) on page 33.
2. On the Config screen, select “ANTI-COLLISION” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “ANTI-COLLISION” screen appears on the control display (**Fig. 2**). Select one of the following modes:

<b>No</b>	Deactivates the function
<b>Yes</b>	Activates the function with the aid of the integrated acoustic warning system
<b>Brake</b>	Activates the function; in addition to the aid of the integrated acoustic warning system, there is also the assisted braking system

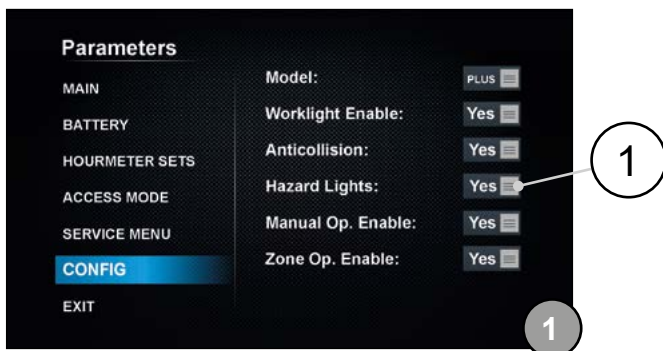
4. To confirm the change, press “Enter”.



## HAZARD LIGHTS MENU (CONFIG - GENERAL SETTINGS)

To manage the hazard lights function on the machine, proceed as follows:

1. Open the "ACCESS MODE" menu. See ["CONFIG MENU \(GENERAL SETTINGS - PARAMETERS\)"](#) on [page 33](#).
2. On the Config screen, select "HAZARD LIGHTS" (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the "HAZARD LIGHTS" screen appears on the control display (**Fig. 2**). Select ON to activate the function.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".



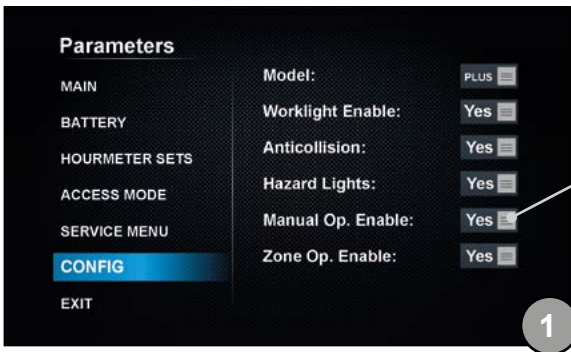
**i NB:** by selecting "0", the hazard lights function will not be active (both the headlights and rear lights will be active while working, but will not blink).

**i NB:** by selecting "1", the hazard lights function will be active (both the front lights and rear lights will be active while working, with a blinking light effect).

## MANUAL OP ENABLING MENU (CONFIG - GENERAL SETTINGS)

To activate or deactivate the "MANUAL MODE" working program, proceed as follows:

1. Open the "ACCESS MODE" menu. See ["CONFIG MENU \(GENERAL SETTINGS - PARAMETERS\)"](#) on [page 33](#).
2. On the Config screen, select "MANUAL OP. ENABLING" (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the "MANUAL OP. ENABLING" screen appears on the control display (**Fig. 2**). Select "1" to activate the working program.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".



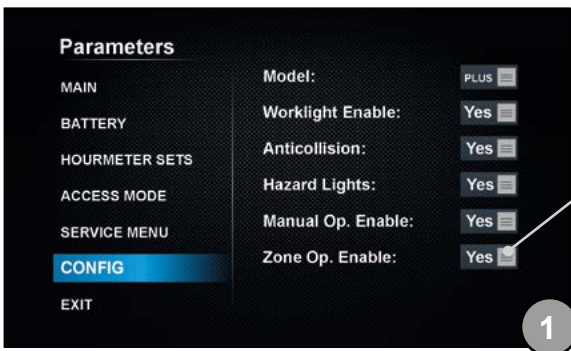
**i NB:** by selecting “0”, MANUAL MODE will not be active; select “1” to activate it.

**i NB:** if MANUAL MODE is deactivated, the operator cannot freely change the parameters to suit the work needs while using the machine. See “MANUAL MODE WORKING PROGRAM” of the “USE AND MAINTENANCE MANUAL” consigned with the machine documentation.

### ZONE OP ENABLING MENU (CONFIG - GENERAL SETTINGS)

To activate or deactivate the "ZONE MODE" working program, proceed as follows:

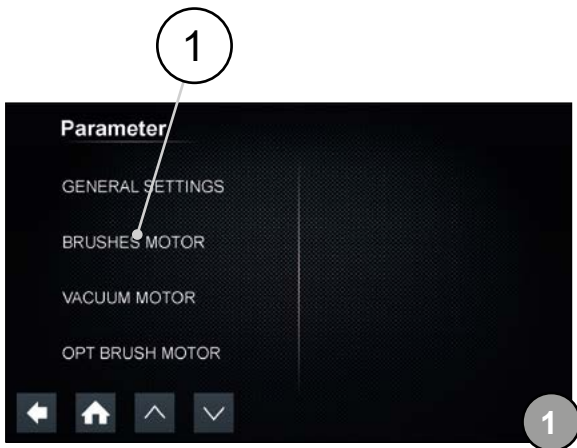
1. Open the “ACCESS MODE” menu. See [“CONFIG MENU \(GENERAL SETTINGS - PARAMETERS\)” on page 33](#).
2. On the Config screen, select “ZONE OP. ENABLING” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “ZONE OP. ENABLING” screen appears on the control display (**Fig. 2**). Select “1” to activate the working program.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the “+” and “-” symbols. To save your selection, press “Enter”.



**i NB:** by selecting “0”, ZONE MODE will not be active; select “1” to activate it.

**i NB:** if ZONE MODE is deactivated, the operator cannot use the four working programs saved in the machine memory. See “ZONE MODE WORKING PROGRAM” of the “USE AND MAINTENANCE MANUAL” consigned with the machine documentation.

## BRUSH MOTOR MENU (PARAMETERS - SERVICE)



To view the “BRUSH MOTOR” menu, proceed as follows:

1. Open the “PARAMETERS” menu. See [“PARAMETERS MENU \(SERVICE - MAIN\)”](#) on page 24.
2. To access the BRUSH MOTOR menu, press the button (1) (Fig. 1).

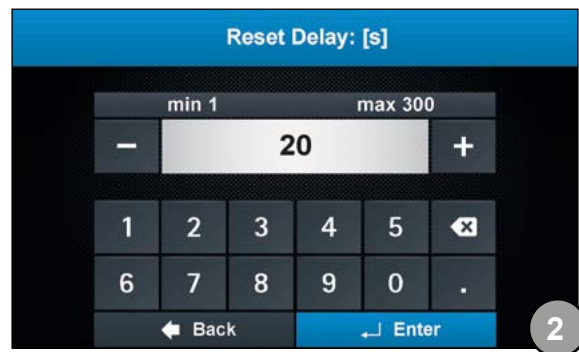
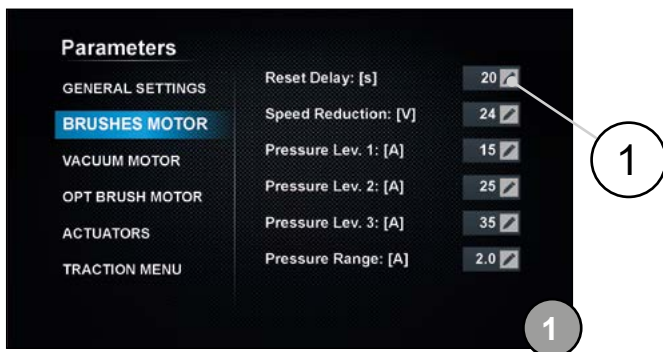
The following sub-menus can be selected on the Brush Motor menu screen (Fig. 1):

<b>RESET DELAY</b>	Used to change the parameter for the standby time before the actuator moves the central brush head into the "lifted off the floor" position. See <a href="#">“DELAY RESET MENU (BRUSH MOTOR - PARAMETERS)”</a> on page 37.
<b>SPEED REDUCTION</b>	Used to change the parameter for the reset voltage from an ammeter protection tripping condition. See <a href="#">“SPEED REDUCTION MENU (BRUSH MOTOR - PARAMETERS)”</a> on page 38.
<b>PRESSURE LEV.</b>	Used to change the parameter for the pressure levels exerted on the central brush. See <a href="#">“PRESSURE LEVEL MENU (BRUSH MOTOR - PARAMETERS)”</a> on page 38.
<b>PRESSURE RANGE</b>	Used to change the parameter for the maximum current interval permitted for the pressure levels prior to the tripping of the ammeter protection. See <a href="#">“PRESSURE RANGE MENU (BRUSH MOTOR - PARAMETERS)”</a> on page 39.

## DELAY RESET MENU (BRUSH MOTOR - PARAMETERS)

To change the “RESET DELAY” parameter in the Brush Motor menu, proceed as follows:

1. Open the “BRUSH MOTOR” menu. See [“BRUSH MOTOR MENU \(PARAMETERS - SERVICE\)”](#) on page 37.
2. On the Brush Motor screen, select “DELAY RESET” (1) (Fig. 1).
3. As soon as the button (1) is pressed, the “DELAY RESET” screen appears on the control display (Fig. 2). Select the required value.
4. Use the numerical keypad or the “+” and “-” symbols to enter the value, then save by pressing “Enter”.

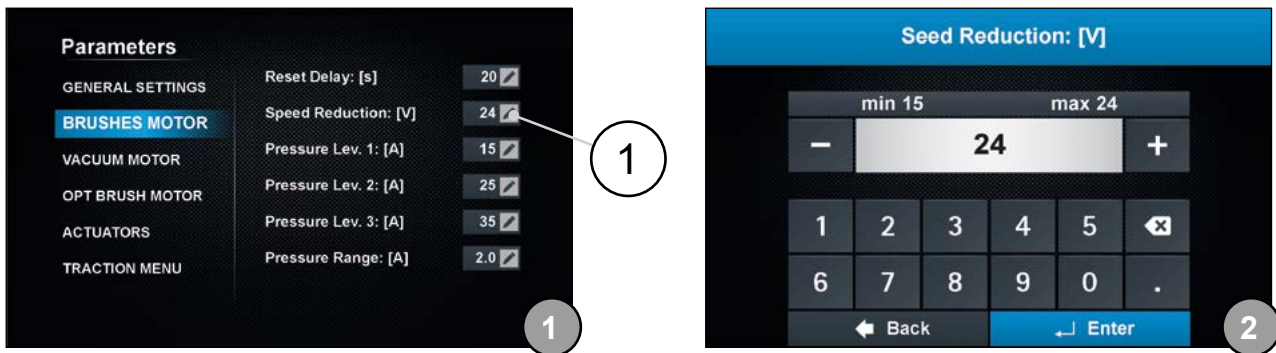


- i NB:** the “DELAY RESET” parameter represents the standby time before the actuator moves the brush head into the “lifted off the floor” position.
- i NB:** the “DELAY RESET” parameter is expressed in seconds (s). The numerical value is between a minimum of 001 and a maximum of 300, in increments of one unit.
- i NB:** the “DELAY RESET” parameter is set at 20 in the factory.

## SPEED REDUCTION MENU (BRUSH MOTOR - PARAMETERS)

To change the “SPEED REDUCTION” parameter in the Brush Motor menu, proceed as follows:

1. Open the “BRUSH MOTOR” menu. See [“BRUSH MOTOR MENU \(PARAMETERS - SERVICE\)” on page 37](#).
2. On the Brush Motor screen, select “SPEED REDUCTION” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “SPEED REDUCTION” screen appears on the control display (**Fig. 2**). Select the required value.
4. Use the numerical keypad or the “+” and “-” symbols to enter the value, then save by pressing “Enter”.

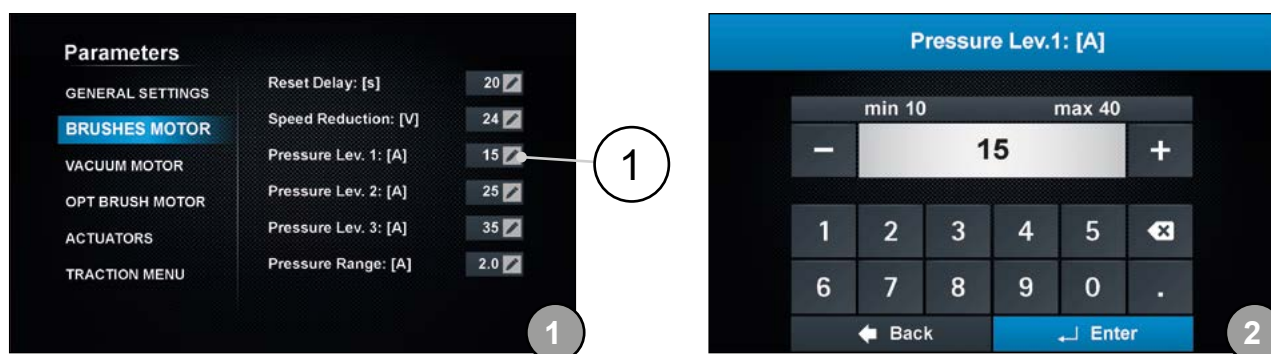


- i NB:** the “SPEED REDUCTION” parameter represents the recovery voltage from the ammeter protection tripping condition.
- i NB:** the “SPEED REDUCTION” parameter is expressed in Volt (V). The numerical value is between a minimum of 15 and a maximum of 25, in increments of one unit.
- i NB:** the “SPEED REDUCTION” parameter is set at 24 in the factory.

## PRESSURE LEVEL MENU (BRUSH MOTOR - PARAMETERS)

To change the “PRESSURE LEVEL” parameter in the Brush Motor menu, proceed as follows:

1. Open the “BRUSH MOTOR” menu. See [“BRUSH MOTOR MENU \(PARAMETERS - SERVICE\)” on page 37](#).
2. On the Brush Motor screen, select the pressure level to be changed - for example “PRESSURE LEVEL#1” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “PRESSURE LEVEL#1” screen appears on the control display (**Fig. 2**). Select the required value.
4. Use the numerical keypad or the “+” and “-” symbols to enter the value, then save by pressing “Enter”.

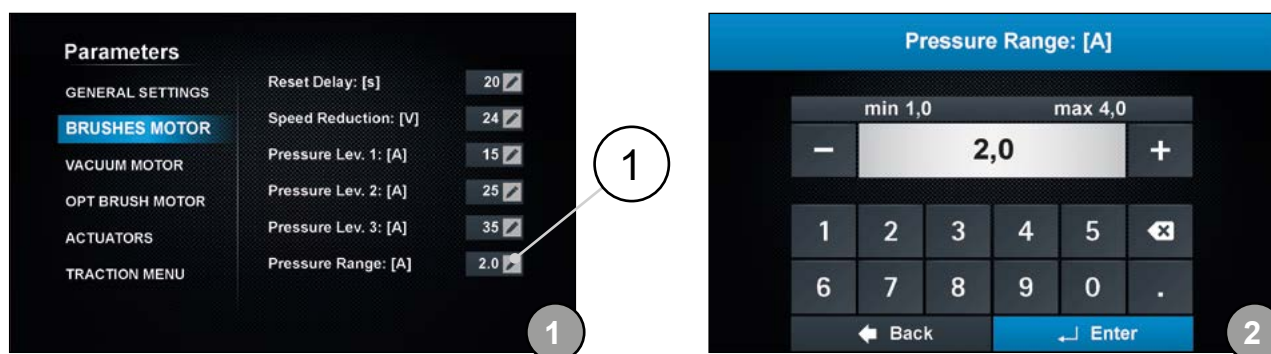


- i NB:** the “PRESSURE LEVEL” parameters indicate the current absorbed by the sweeping head while working.
- i NB:** the “PRESSURE LEVEL” parameters correspond to the pressure exerted on the brush head, which can be adjusted via the machine control display. See “ADJUSTING THE PRESSURE EXERTED ON THE BRUSH” of the "USE AND MAINTENANCE MANUAL" consigned with the machine documentation.
- i NB:** the “PRESSURE LEVEL” parameters are expressed in amperes (A). The numeric values are between a minimum of 10 and a maximum of 40, with increments of one unit.
- i NB:** the “PRESSURE LEVEL” parameters are factory set with the following values:
  - PRESSURE LEV. 1= 11
  - PRESSURE LEV. 2= 13
  - PRESSURE LEV. 3= 15

## PRESSURE RANGE MENU (BRUSH MOTOR - PARAMETERS)

To change the “PRESSURE RANGE” parameter in the Brush Motor menu, proceed as follows:

1. Open the “BRUSH MOTOR” menu. See [“BRUSH MOTOR MENU \(PARAMETERS - SERVICE\)”](#) on page 37.
2. On the Brush Motor screen, select “PRESSURE RANGE” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “PRESSURE RANGE” screen appears on the control display (**Fig. 2**). Select the required value.
4. Use the numerical keypad or the “+” and “-” symbols to enter the value, then save by pressing “Enter”.

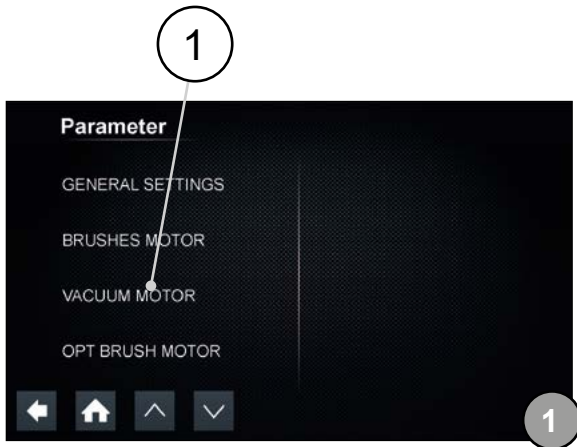


- i NB:** the “PRESSURE RANGE” parameter indicates the value of the maximum interval permitted for the current absorbed by the pressure levels before the tripping of the ammeter resistance protection (while working).

**i NB:** the “PRESSURE RANGE” parameter is expressed in amperes (A). The numerical value is between a minimum of 1.0 and a maximum of 4.0, with increments of five tenths of a unit.

**i NB:** the “PRESSURE RANGE” parameter is set at 2.0 in the factory.

## VACUUM MOTOR MENU (PARAMETERS - SERVICE)



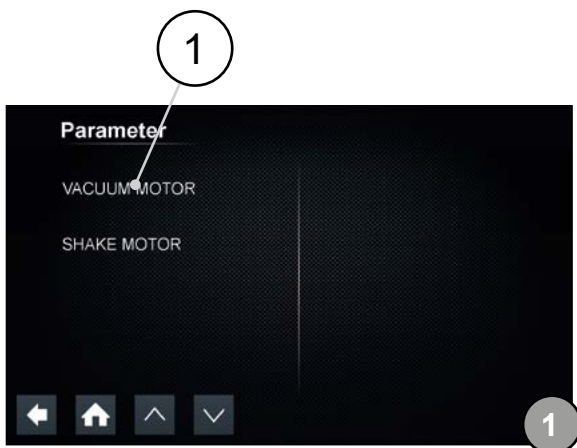
To view the “VACUUM MOTOR” menu, proceed as follows:

1. Open the “PARAMETERS” menu. See [“PARAMETERS MENU \(SERVICE - MAIN\)” on page 24](#).
2. To access the VACUUM MOTOR menu, press the button (1) (Fig. 1).

The following sub-menus can be selected on the Vacuum Motor menu screen (Fig. 1):

<b>VACUUM MOTOR</b>	Used to change the parameters of the performance levels of the machine's vacuum system. See <a href="#">“VACUUM MOTOR MENU (VACUUM MOTOR - PARAMETERS)” on page 40</a>
<b>SHAKE MOTOR</b>	Used to change the activation frequency of the filter shaker in the machine's vacuum system. See <a href="#">“SHAKE MOTOR MENU (VACUUM MOTOR - PARAMETERS)” on page 41</a>

## VACUUM MOTOR MENU (VACUUM MOTOR - PARAMETERS)



To view the “VACUUM MOTOR” menu, proceed as follows:

1. Open the “VACUUM MOTOR” menu. See [“VACUUM MOTOR MENU \(PARAMETERS - SERVICE\)” on page 40](#).
2. To access the VACUUM MOTOR menu, press the button (1) (Fig. 1).

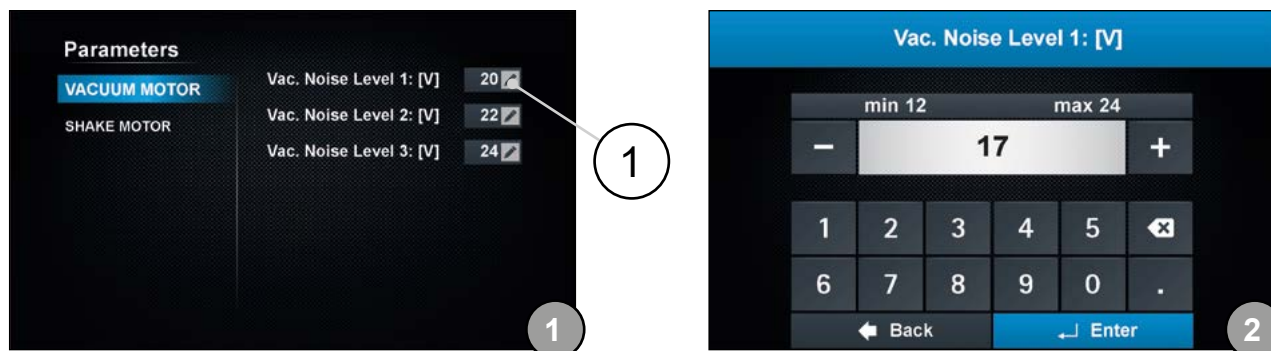
The following sub-menus can be selected on the Vacuum Motor menu screen (Fig. 1):

<b>VAC NOISE LEVEL</b>	Used to change the performance level of the machine's vacuum motor. See <a href="#">“VAC NOISE LEVEL MENU (VACUUM MOTOR - VACUUM MOTOR)” on page 41</a>
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## VAC NOISE LEVEL MENU (VACUUM MOTOR - VACUUM MOTOR)

To change the "VACUUM NOISE LEVEL" parameter in the Vacuum Motor menu, proceed as follows:

1. Open the "VACUUM MOTOR" menu. See "[VACUUM MOTOR MENU \(VACUUM MOTOR - PARAMETERS\)](#)" on page 40.
2. On the Vacuum Motor screen, select "VAC. NOISE LEVEL 1" (1) (Fig. 1).
3. As soon as the button (1) is pressed, the "VACUUM NOISE LEVEL 1" screen appears on the control display (Fig. 2). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".

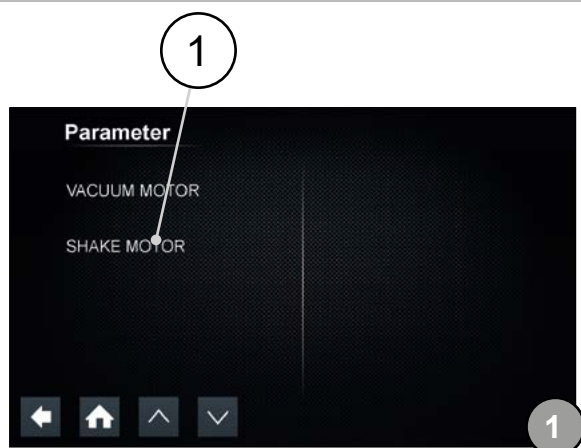


- i** **NB:** the "VACUUM NOISE LEVEL" parameters indicate the voltage at which the vacuum motor in the machine's vacuum system is powered.
- i** **NB:** the "VACUUM NOISE LEVEL" parameters indicate the vacuum system performance levels as shown on the machine control display, and which can be adjusted via the display. See "ADJUSTING THE VACUUM MOTOR PERFORMANCE LEVEL" of the "USE AND MAINTENANCE MANUAL" consigned with the machine documentation.
- i** **NB:** the "VACUUM NOISE LEVEL" parameters are expressed in Volt (V). The numeric value is between a minimum of 12 and a maximum of 24, with increments of one unit.
- i** **NB:** the "VACUUM NOISE LEVEL" parameters are factory set with the following values:
  - VACUUM NOISE LEVEL 1= 20
  - VACUUM NOISE LEVEL 2= 22
  - VACUUM NOISE LEVEL 3= 24

## SHAKE MOTOR MENU (VACUUM MOTOR - PARAMETERS)

To view the "SHAKE MOTOR" menu, proceed as follows:

1. Open the "VACUUM MOTOR" menu. See "[VACUUM MOTOR MENU \(PARAMETERS - SERVICE\)](#)" on page 40.
2. To access the SHAKE MOTOR menu, press the button (1) (Fig. 1).



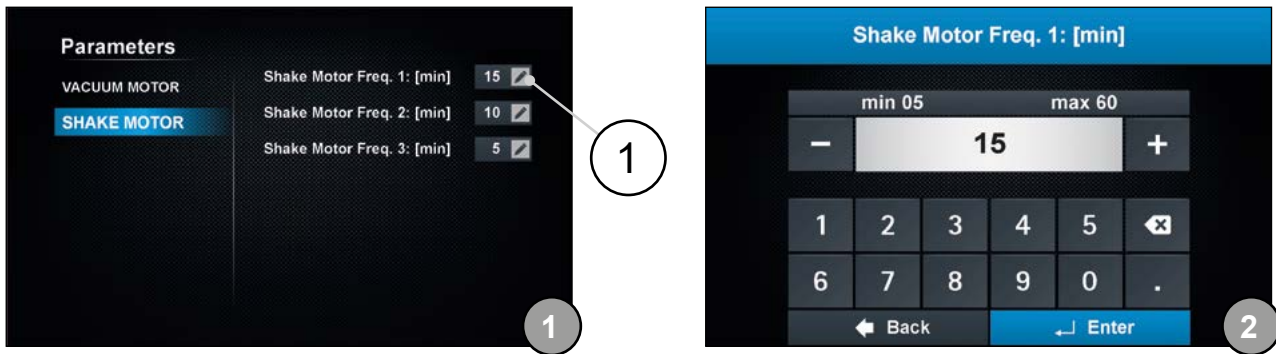
The following sub-menus can be selected on the Shake Motor menu screen (**Fig. 1**):

<b>SHAKE MOTOR FREQ</b>	Used to change the activation frequency of the filter shaker in the machine's vacuum system. See <a href="#">“SHAKE MOTOR FREQ MENU (SHAKE MOTOR - VACUUM MOTOR)”</a> on page 42
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## SHAKE MOTOR FREQ MENU (SHAKE MOTOR - VACUUM MOTOR)

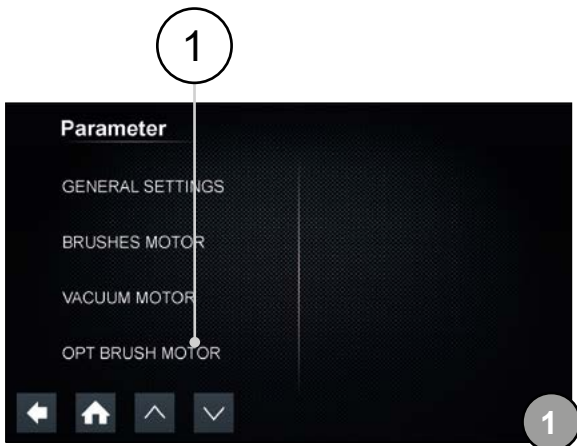
To change the “SHAKE MOTOR FREQ” parameter in the Shake Motor menu, proceed as follows:

1. Open the “SHAKE MOTOR” menu. See [“SHAKE MOTOR MENU \(VACUUM MOTOR - PARAMETERS\)”](#) on page 41.
2. On the Shake Motor screen, select “SHAKE MOTOR FREQ. 1” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “SHAKE MOTOR FREQ. 1” screen appears on the control display (**Fig. 2**). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".



- i NB:** the “SHAKE MOTOR FREQ” parameters indicate the activation frequency of the filter shaker motor in the machine's vacuum system.
- i NB:** the “SHAKE MOTOR FREQ” parameters correspond to the activation frequency levels of the filter shaker motor in the machine's vacuum system, which can be adjusted via the control display. See “SELECTING THE FILTER SHAKER METHOD” of the "USE AND MAINTENANCE MANUAL" consigned with the machine documentation.
- i NB:** the “SHAKE MOTOR FREQ” parameters are expressed in minutes (min). The numeric value is between a minimum of 5 and a maximum of 60, with increments of one unit.
- i NB:** the “SHAKE MOTOR FREQ” parameters are factory set with the following values:
  - SHAKE MOTOR FREQ 1= 15
  - SHAKE MOTOR FREQ 2= 10
  - SHAKE MOTOR FREQ 3= 5

## OPT BRUSH MOTOR MENU (PARAMETERS - SERVICE)



To view the “OPT BRUSH MOTOR” menu, proceed as follows:

1. Open the “PARAMETERS” menu. See [“PARAMETERS MENU \(SERVICE - MAIN\)”](#) on page 24.
2. To access the VACUUM MOTOR menu, press the button (1) (**Fig. 1**).

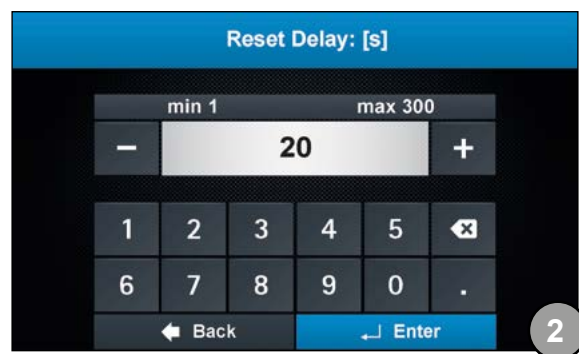
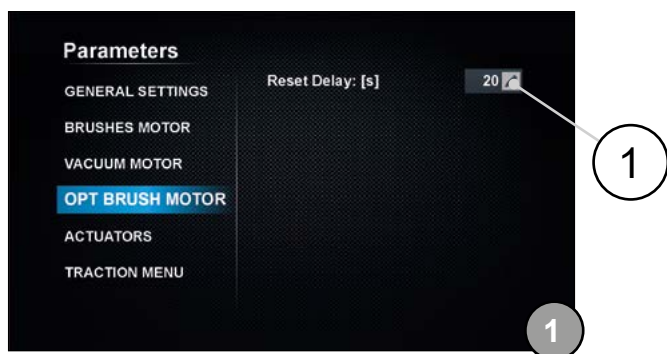
The following sub-menus can be selected on the Vacuum Motor menu screen (**Fig. 1**):

<b>RESET DELAY</b>	Used to change the parameter for the standby time before the actuator moves the side brushes into the "lifted off the floor" position. See <a href="#">“DELAY RESET MENU (OPT BRUSH MOTOR - PARAMETERS)”</a> on page 43.
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## DELAY RESET MENU (OPT BRUSH MOTOR - PARAMETERS)

To change the “DELAY RESET” parameter in the Opt Brush Motor menu, proceed as follows:

1. Open the “OPT BRUSH MOTOR” menu. See [“OPT BRUSH MOTOR MENU \(PARAMETERS - SERVICE\)”](#) on page 43.
2. On the Brush Motor screen, select “DELAY RESET” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “DELAY RESET” screen appears on the control display (**Fig. 2**). Select the required value.
4. Use the numerical keypad or the “+” and “-” symbols to enter the value, then save by pressing “Enter”.

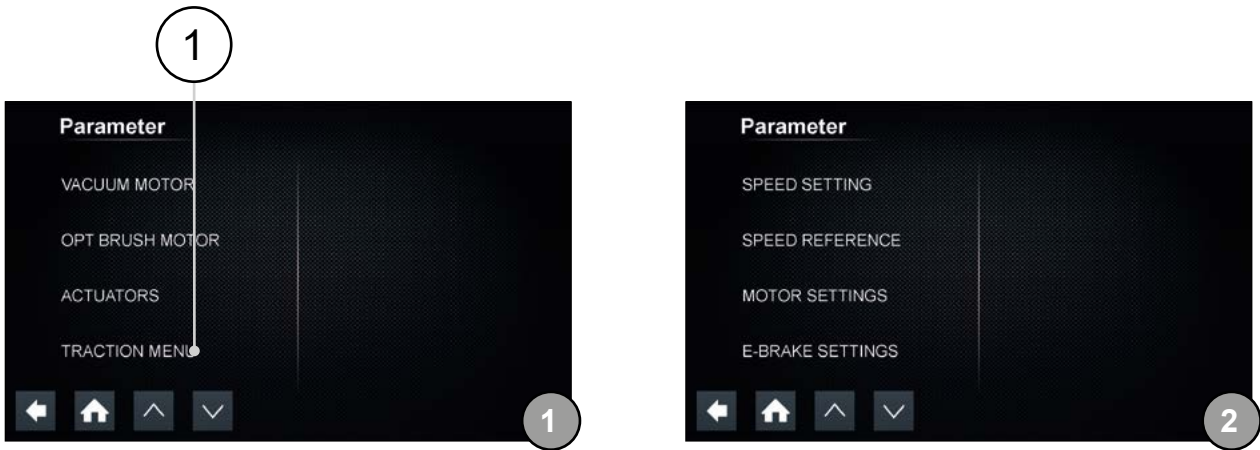


- i NB:** the “DELAY RESET” parameter indicates the standby time before the actuator moves the side brushes into the “lifted off the floor” position.
- i NB:** the “DELAY RESET” parameter is expressed in seconds (s). The numerical value is between a minimum of 001 and a maximum of 300, in increments of one unit.
- i NB:** the “DELAY RESET” parameter is set at 20 in the factory.

## TRACTION MENU (PARAMETERS - SERVICE)

To view the “TRACTION MENU”, proceed as follows:

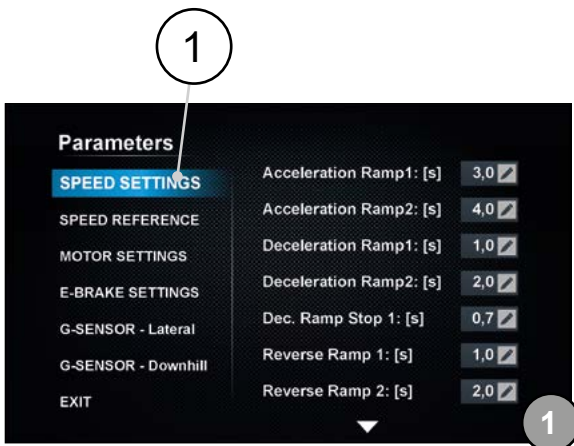
1. Open the “PARAMETERS” menu. See [“PARAMETERS MENU \(SERVICE - MAIN\)”](#) on page 24.
2. To access the TRACTION menu, press the button (1) (Fig. 1).



From the Traction menu screen (Fig. 1), the following sub-menus can be selected (Fig. 2):

<b>SPEED SETTINGS</b>	Used to change the parameters relating to speed. See <a href="#">“SPEED SETTINGS MENU (TRACTION MENU - PARAMETERS)”</a> on page 44
<b>SPEED REFERENCE</b>	Used to change the parameters relating to the drive pedal. See <a href="#">“SPEED REFERENCE MENU (TRACTION MENU - PARAMETERS)”</a> on page 52
<b>MOTOR SETTINGS</b>	Used to change the parameters relating to the machine's traction motor. See <a href="#">“MOTOR SETTINGS MENU (TRACTION MENU - PARAMETERS)”</a> on page 52

## SPEED SETTINGS MENU (TRACTION MENU - PARAMETERS)



To view the SPEED SETTINGS menu, proceed as follows:

1. Open the “TRACTION” menu. See [“TRACTION MENU \(PARAMETERS - SERVICE\)”](#) on page 44.
2. To access the SPEED SETTINGS menu, press the button (1) (Fig. 1).

The following sub-menus can be selected on the Speed Settings menu screen:

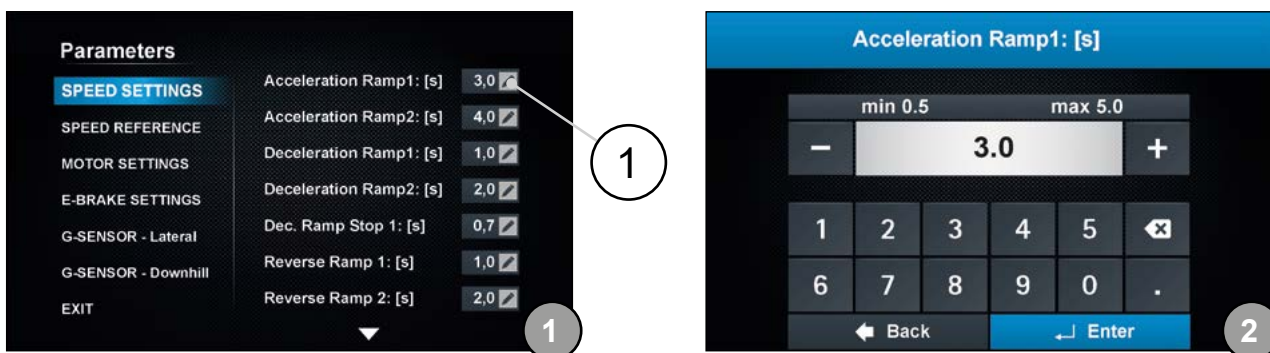
<b>ACCELERATION RAMP</b>	Used to change the parameters relating to the time before the machine reaches the maximum set speed. See <a href="#">“ACCELERATION RAMP MENU (SPEED SETTINGS - TRACTION MENU)”</a> on page 45
<b>DECELERATION RAMP</b>	Used to change the parameters relating to machine deceleration when there is a reduction in forward speed. See <a href="#">“DECELERATION RAMP MENU (SPEED SETTINGS - TRACTION MENU)”</a> on page 46

<b>REVERSE RAMP</b>	Used to change the parameter relating to machine deceleration followed by acceleration. See <a href="#">“REVERSE RAMP MENU (SPEED SETTINGS - TRACTION MENU)”</a> on page 47
<b>FORWARD MAX SPEED</b>	Used to change the parameter relating to the maximum forward speed in TRANSFER mode. See <a href="#">“MAX FORWARD SPEED MENU (SPEED SETTINGS - TRACTION MENU)”</a> on page 47
<b>BACKWARD MAX SPEED</b>	Used to change the parameter relating to the maximum permitted reverse speed. See <a href="#">“MAX BACKWARD SPEED MENU (SPEED SETTINGS - TRACTION MENU)”</a> on page 48
<b>MINIMUM SPEED</b>	Used to change the parameter relating to the speed permitted with the minimum pressure on the drive pedal. See <a href="#">“MINIMUM SPEED MENU (SPEED SETTINGS - TRACTION MENU)”</a> on page 49
<b>MODE1 SPEED</b>	Used to change the parameter relating to the speed permitted with the activation of the micro-reducer for speed reduction on bends. See <a href="#">“MODE1 SPEED MENU (SPEED SETTINGS - TRACTION MENU)”</a> on page 49
<b>MODE1CURRENT</b>	Used to change the parameter relating to the maximum current output with the activation of the micro-reducer for speed reduction on bends. See <a href="#">“MODE1 CURRENT MENU (SPEED SETTINGS - TRACTION MENU)”</a> on page 50
<b>MODE2 SPEED</b>	Used to change the parameter relating to the maximum speed during forward movement in work mode. See <a href="#">“MODE2 SPEED MENU (SPEED SETTINGS - TRACTION MENU)”</a> on page 50
<b>SPEED LEVEL</b>	Used to change the parameters relating to the performance levels of the forward speed while working. See <a href="#">“SPEED LEVEL MENU (SPEED SETTINGS - TRACTION MENU)”</a> on page 51

## ACCELERATION RAMP MENU (SPEED SETTINGS - TRACTION MENU)

To change the "ACCELERATION RAMP" parameter in the Speed Settings menu, proceed as follows:

1. Open the "SPEED SETTINGS" menu. See [“SPEED SETTINGS MENU \(TRACTION MENU - PARAMETERS\)”](#) on page 44.
2. On the Speed Settings screen, select "ACCELERATION RAMP" (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the "ACCELERATION RAMP" screen appears on the control display (**Fig. 2**). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".



**i NB:** the "ACCELERATION RAMP" parameters indicate the time the machine takes to reach the maximum set speed.

**i NB:** the "ACCELERATION RAMP" parameters are expressed in seconds (s). The numerical value is between a minimum of 0.5 and a maximum of 5.0, with increments of one tenth of a unit.

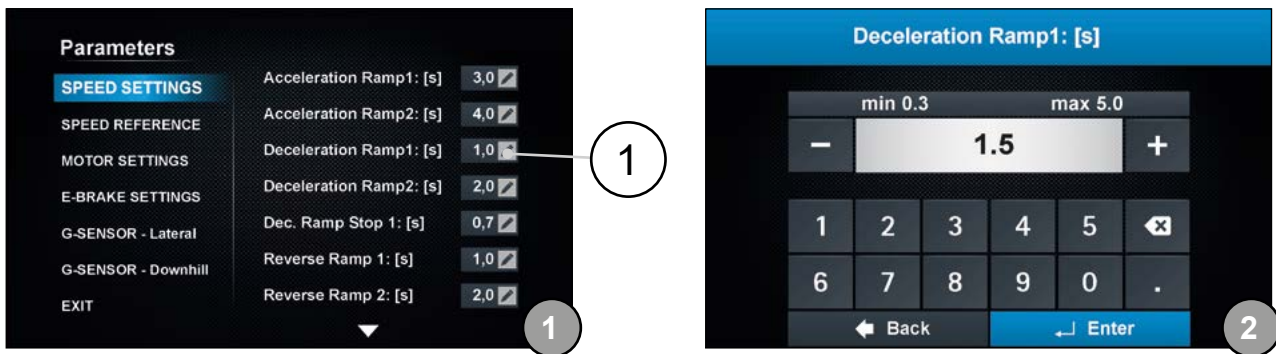
**i NB:** the “ACCELERATION RAMP 1” parameter defines the time the machine takes to reach the maximum set speed (in transfer mode). It is set at 3.0 in the factory.

**i NB:** the “ACCELERATION RAMP 2” parameter defines the time the machine takes to reach the maximum set speed (in work mode). It is set at 4.0 in the factory.

## DECELERATION RAMP MENU (SPEED SETTINGS - TRACTION MENU)

To change the “DECELERATION RAMP” parameter in the Speed Settings menu, proceed as follows:

1. Open the “SPEED SETTINGS” menu. See [“SPEED SETTINGS MENU \(TRACTION MENU - PARAMETERS\)” on page 44.](#)
2. On the Speed Settings screen, select “DECELERATION RAMP” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “DECELERATION RAMP” screen appears on the control display (**Fig. 2**). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the “+” and “-” symbols. To save your selection, press “Enter”.



**i NB:** the “DECELERATION RAMP” parameters indicate the time the machine takes to reduce speed when the drive pedal is pressed more lightly or released completely.

**i NB:** the “DECELERATION RAMP” parameters are expressed in seconds (s). The numerical value is between a minimum of 0.3 and a maximum of 5.0, with increments of one tenth of a unit.

**i NB:** the “DECELERATION RAMP 1” parameter defines the time the machine takes to pass from the current speed to the set speed (in transfer mode) when the pressure on the drive pedal is reduced. It is set at 3.0 in the factory.

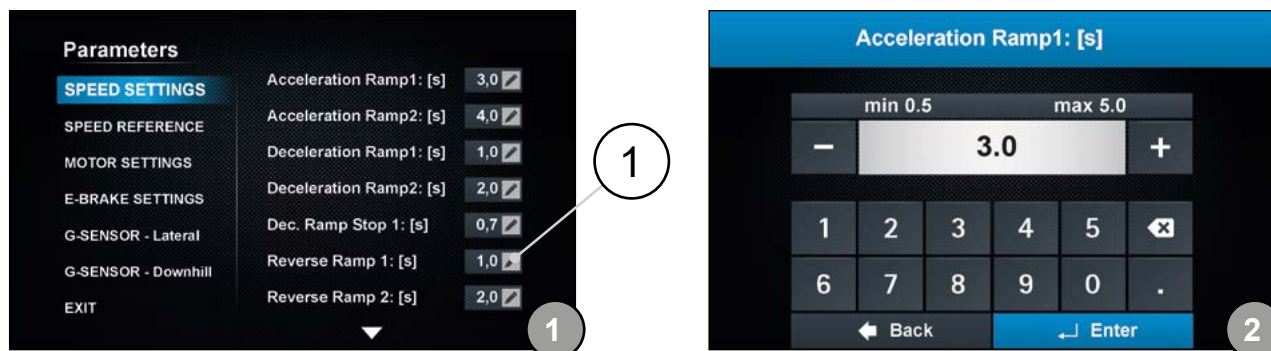
**i NB:** the “DECELERATION RAMP 2” parameter defines the time the machine takes to pass from the current speed to the set speed (in work mode) when the pressure on the drive pedal is reduced. It is set at 2.0 in the factory.

**i NB:** the “DEC. RAMP STOP” parameter defines the time the machine takes to pass from the current speed to a complete stop (just by releasing the drive pedal). It is set at 2.0 in the factory.

## REVERSE RAMP MENU (SPEED SETTINGS - TRACTION MENU)

To change the "REVERSE RAMP" parameter in the Speed Settings menu, proceed as follows:

1. Open the "SPEED SETTINGS" menu. See ["SPEED SETTINGS MENU \(TRACTION MENU - PARAMETERS\)" on page 44.](#)
2. On the Speed Settings screen, select "REVERSE RAMP" (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the "REVERSE RAMP" screen appears on the control display (**Fig. 2**). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".



**i** **NB:** the "REVERSE RAMP" parameters define the time the machine takes to decelerate and then accelerate when switching from forward movement to reverse or vice versa.

**i** **NB:** the "REVERSE RAMP" parameters are expressed in seconds (s). The numerical value is between a minimum of 0.5 and a maximum of 5.0, with increments of one tenth of a unit.

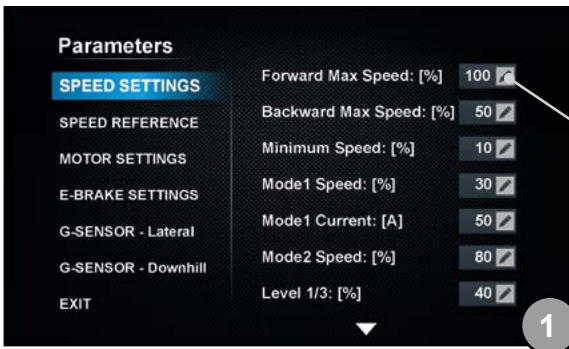
**i** **NB:** the "REVERSE RAMP 1" parameter defines the time the machine takes to decelerate and then accelerate when switching from forward movement to reverse or vice versa (in transfer mode). It is set at 1.0 in the factory.

**i** **NB:** the "REVERSE RAMP 2" parameter defines the time the machine takes to decelerate and then accelerate when switching from forward movement to reverse or vice versa (in work mode). It is set at 2.0 in the factory.

## MAX FORWARD SPEED MENU (SPEED SETTINGS - TRACTION MENU)

To change the "MAX FORWARD SPEED" parameter in the Speed Settings menu, proceed as follows:

1. Open the "SPEED SETTINGS" menu. See ["SPEED SETTINGS MENU \(TRACTION MENU - PARAMETERS\)" on page 44.](#)
2. On the Speed Settings screen, select "MAX FORWARD SPEED" (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the "MAX FORWARD SPEED" screen appears on the control display (**Fig. 2**). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".

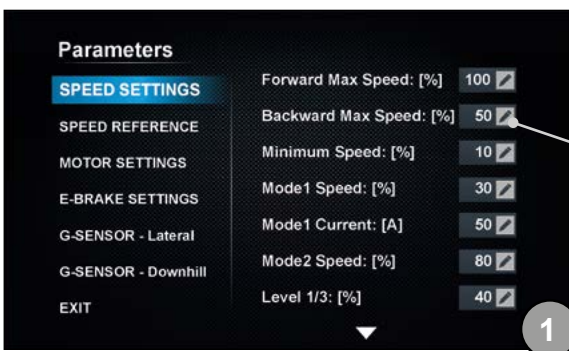


- i NB:** the “MAX FORWARD SPEED” parameter is the maximum speed the machine can reach during forward movement.
- i NB:** the “MAX FORWARD SPEED” parameter is expressed as a percentage (%) of the maximum speed that can be reached in TRANSFER mode. The numerical value is between a minimum of 50 and a maximum of 100, with increments of two units.
- i NB:** the “MAX FORWARD SPEED” parameter is set at 100 in the factory.

**MAX BACKWARD SPEED MENU (SPEED SETTINGS - TRACTION MENU)**

To change the "MAX BACKWARD SPEED" parameter in the Speed Settings menu, proceed as follows:

1. Open the “SPEED SETTINGS” menu. See [“SPEED SETTINGS MENU \(TRACTION MENU - PARAMETERS\)” on page 44](#).
2. On the Speed Settings screen, select “MAX BACKWARD SPEED” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “MAX BACKWARD SPEED” screen appears on the control display (**Fig. 2**). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".

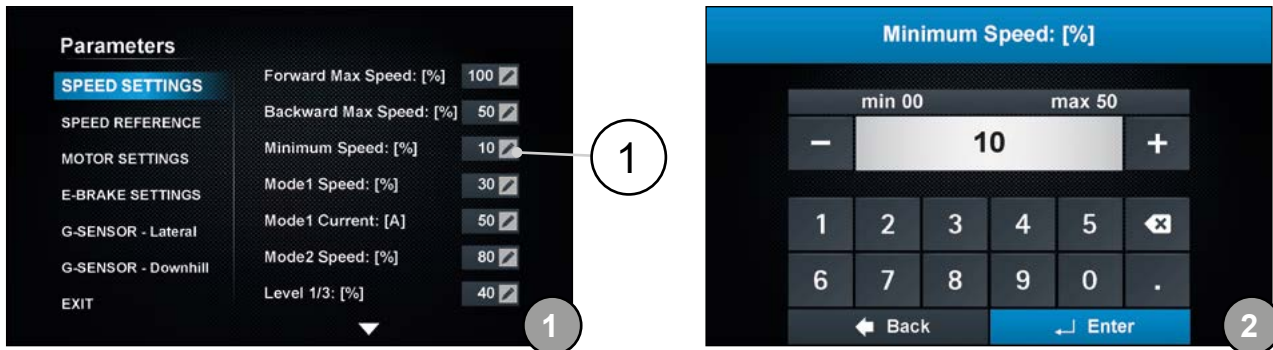


- i NB:** the “MAX BACKWARD SPEED” parameter is the maximum speed the machine can reach in reverse.
- i NB:** the “MAX BACKWARD SPEED” parameter is expressed as a percentage (%) of the MAX FORWARD SPEED. The numerical value is between a minimum of 10 and a maximum of 100, with increments of two units.
- i NB:** the “MAX BACKWARD SPEED” parameter is set at 50 in the factory.

## MINIMUM SPEED MENU (SPEED SETTINGS - TRACTION MENU)

To change the "MINIMUM SPEED" parameter in the Speed Settings menu, proceed as follows:

1. Open the "SPEED SETTINGS" menu. See ["SPEED SETTINGS MENU \(TRACTION MENU - PARAMETERS\)" on page 44](#).
2. On the Speed Settings screen, select "MINIMUM SPEED" (1) (Fig. 1).
3. As soon as the button (1) is pressed, the "MINIMUM SPEED" screen appears on the control display (Fig. 2). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".



**i NB:** the "MINIMUM SPEED" parameter indicates the speed value after the minimum pressure on the drive pedal.

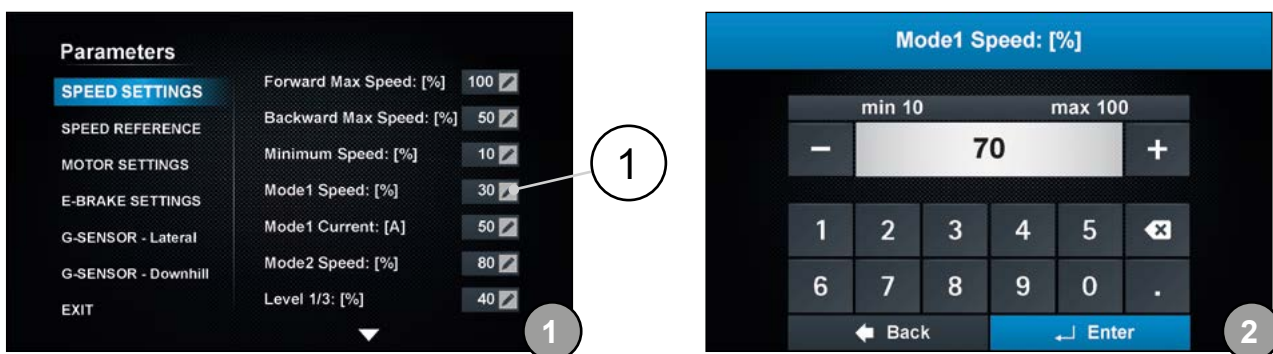
**i NB:** the "MINIMUM SPEED" parameter is expressed as a percentage (%) of the maximum speed. The numerical value is between a minimum of 00 and a maximum of 50, with increments of two units.

**i NB:** the "MINIMUM SPEED" parameter is set at 10 in the factory.

## MODE1 SPEED MENU (SPEED SETTINGS - TRACTION MENU)

To change the "MODE1 SPEED" parameter in the Speed Settings menu, proceed as follows:

1. Open the "SPEED SETTINGS" menu. See ["SPEED SETTINGS MENU \(TRACTION MENU - PARAMETERS\)" on page 44](#).
2. On the Speed Settings screen, select "MODE1 SPEED" (1) (Fig. 1).
3. As soon as the button (1) is pressed, the "MODE1 SPEED" screen appears on the control display (Fig. 2). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".

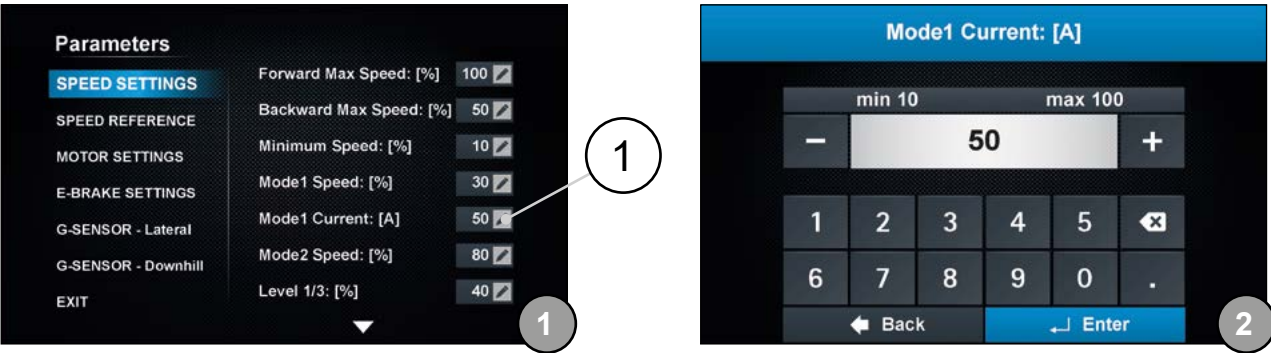


- i NB:** the “MODE1 SPEED” parameter defines the maximum speed that can be reached by the machine while the micro-reducer for speed reduction on bends is active.
- i NB:** the “MODE1 SPEED” parameter is expressed as a percentage (%) of the maximum speed that can be reached in TRANSFER mode. The numerical value is between a minimum of 10 and a maximum of 100, with increments of two units.
- i NB:** the “MODE1 SPEED” parameter is set at 70 in the factory.

### MODE1 CURRENT MENU (SPEED SETTINGS - TRACTION MENU)

To change the "MODE1 SPEED" parameter in the Speed Settings menu, proceed as follows:

1. Open the “SPEED SETTINGS” menu. See [“SPEED SETTINGS MENU \(TRACTION MENU - PARAMETERS\)” on page 44.](#)
2. On the Speed Settings screen, select “MODE1 CURRENT” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “MODE1 CURRENT” screen appears on the control display (**Fig. 2**). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".

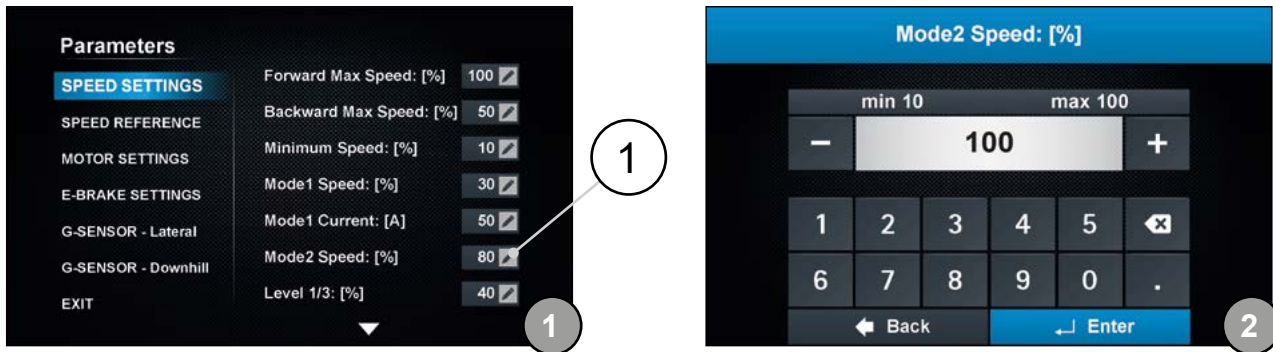


- i NB:** the “MODE1 CURRENT” parameter defines the maximum current output while the micro-reducer for speed reduction on bends is active.
- i NB:** the “MODE1 CURRENT” parameter is expressed in amperes (A). The numerical value is between a minimum of 10 and a maximum of 100, with increments of two units.
- i NB:** the “MODE1 CURRENT” parameter is set at 50 in the factory.

### MODE2 SPEED MENU (SPEED SETTINGS - TRACTION MENU)

To change the "MODE2 SPEED" parameter in the Speed Settings menu, proceed as follows:

1. Open the “SPEED SETTINGS” menu. See [“SPEED SETTINGS MENU \(TRACTION MENU - PARAMETERS\)” on page 44.](#)
2. On the Speed Settings screen, select “MODE2 SPEED” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “MODE2 SPEED” screen appears on the control display (**Fig. 2**). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".

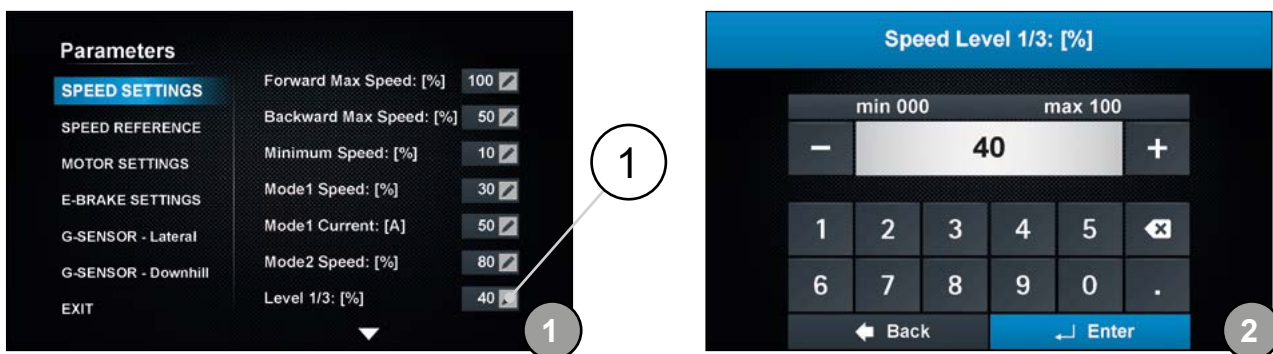


- i** **NB:** the “MODE2 SPEED” parameter defines the maximum speed the machine can reach in work mode.
- i** **NB:** the “MODE2 SPEED” parameter is expressed as a percentage (%) of the MAX FORWARD SPEED. The numerical value is between a minimum of 10 and a maximum of 100, with increments of two units.
- i** **NB:** the “MODE2 SPEED” parameter is set at 100 in the factory.

### SPEED LEVEL MENU (SPEED SETTINGS - TRACTION MENU)

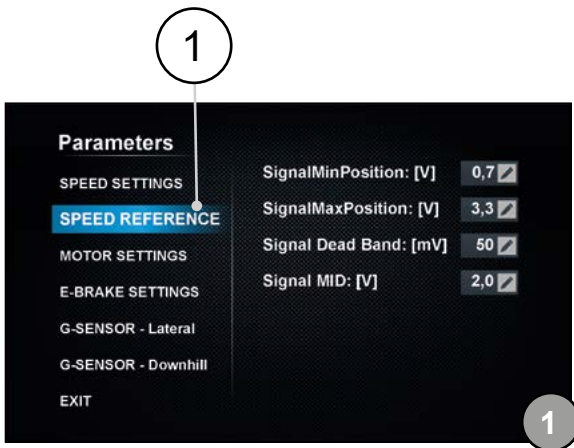
To change the "SPEED LEVEL" parameter in the Speed Settings menu, proceed as follows:

1. Open the “SPEED SETTINGS” menu. See [“SPEED SETTINGS MENU \(TRACTION MENU - PARAMETERS\)” on page 44](#).
2. On the Speed Settings screen, select “SPEED LEVEL” (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “SPEED LEVEL” screen appears on the control display (**Fig. 2**). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".



- i** **NB:** the “SPEED LEVEL” parameters define the forward speed of the machine while working, and can be adjusted via the machine control display. See “REGULATING THE FORWARD SPEED” of the USE AND MAINTENANCE MANUAL consigned with the machine documentation.
- i** **NB:** the “SPEED LEVEL” parameters are expressed as a percentage (%) of MODE2 SPEED. The numerical value is between a minimum of 000 and a maximum of 100, with increments of two units.
- i** **NB:** the “SPEED LEVEL” parameters are factory set with the following values:
  - SPEED LEVEL #1= 40
  - SPEED LEVEL #2= 69
  - SPEED LEVEL #3= 100

## SPEED REFERENCE MENU (TRACTION MENU - PARAMETERS)



To view the SPEED REFERENCE menu, proceed as follows:

1. Open the “TRACTION” menu. See [“TRACTION MENU \(PARAMETERS - SERVICE\)” on page 44.](#)
2. To access the SPEED REFERENCE menu, press the button (1) (**Fig. 1**).

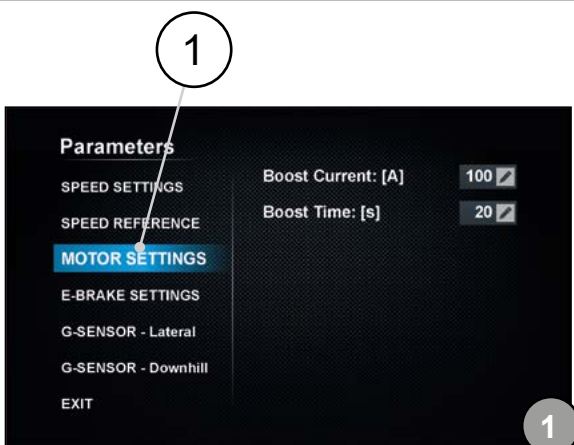
The following sub-menus can be selected on the Speed Reference menu screen:

<b>SIGNAL MIN POSITION</b>	Used to change the parameter relating to the voltage of the potentiometer in the drive pedal when it is idle
<b>SIGNAL MAX POSITION</b>	Used to change the parameter relating to the voltage of the potentiometer in the drive pedal when it is fully pressed down
<b>SIGNAL DEAD BAND</b>	Used to adjust the parameter for the voltage of the drive pedal potentiometer in relation to the potentiometer deadband
<b>SIGNAL MID POS</b>	Used to change the parameter relating to the intermediate voltage of the drive pedal potentiometer when it is active



**WARNING:** the parameters above are set by the drive pedal manufacturer, and must not be modified in any way unless at the explicit request of a FIMAP service technician. FIMAP declines all responsibility for any damage to property or injury persons in the event that the parameters referred to above are changed by an unauthorised technician.

## MOTOR SETTINGS MENU (TRACTION MENU - PARAMETERS)



To view the MOTOR SETTINGS menu, proceed as follows:

1. Open the “TRACTION” menu. See [“TRACTION MENU \(PARAMETERS - SERVICE\)” on page 44.](#)
2. To access the MOTOR SETTINGS menu, press the button (1) (**Fig. 1**).

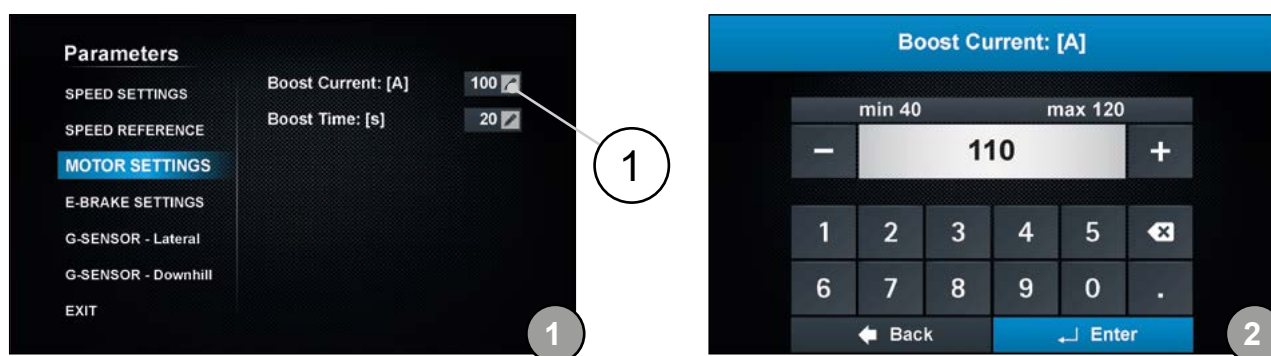
The following sub-menus can be selected on the Motor Settings menu screen:

<b>BOOST CURRENT</b>	Used to change the parameter defining the current absorbed by the traction motor during forced induction. See <a href="#">“CURRENT BOOST MENU (MOTOR SETTINGS - TRACTION MENU)”</a> on page 53
<b>BOOST TIME</b>	Used to change the parameter defining the total time the traction motor must be subjected to forced induction. See <a href="#">“TIME BOOST MENU (MOTOR SETTINGS - TRACTION MENU)”</a> on page 53

## CURRENT BOOST MENU (MOTOR SETTINGS - TRACTION MENU)

To change the "CURRENT BOOST" parameter in the Motor Settings menu, proceed as follows:

1. Open the "MOTOR SETTINGS" menu. See [“MOTOR SETTINGS MENU \(TRACTION MENU - PARAMETERS\)”](#) on page 52.
2. On the Motor Settings screen, select "CURRENT BOOST" (1) (Fig. 1).
3. As soon as the button (1) is pressed, the "CURRENT BOOST" screen appears on the control display (Fig. 2). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".



**i NB:** the "CURRENT BOOST" parameter is expressed in amperes (A). The numerical value is between a minimum of 40 and a maximum of 150, in increments of five units.

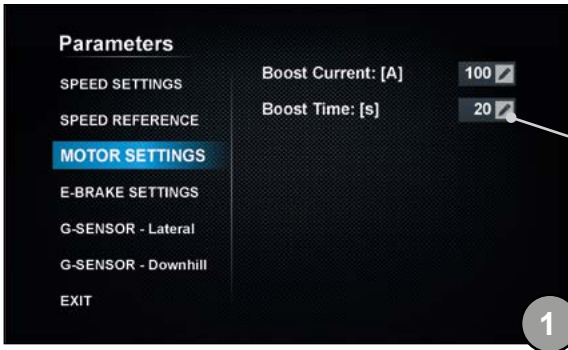
**i NB:** the "CURRENT BOOST" parameter defines the current absorbed by the traction motor during forced induction. It is useful when driving on ramps.

**i NB:** the "CURRENT BOOST" parameter is set at 110 in the factory.

## TIME BOOST MENU (MOTOR SETTINGS - TRACTION MENU)

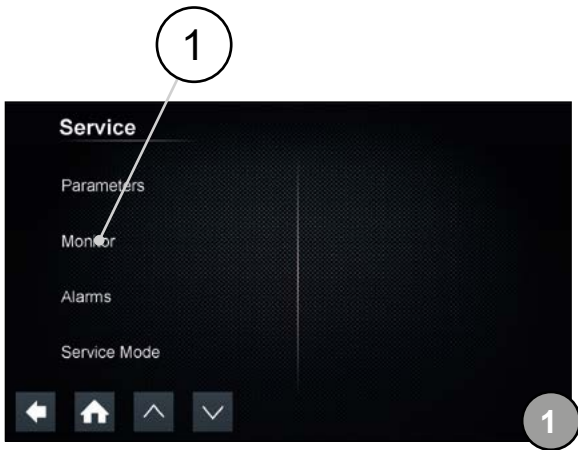
To change the "TIME BOOST" parameter in the Motor Settings menu, proceed as follows:

1. Open the "MOTOR SETTINGS" menu. See [“MOTOR SETTINGS MENU \(TRACTION MENU - PARAMETERS\)”](#) on page 52.
2. On the Motor Settings screen, select "TIME BOOST" (1) (Fig. 1).
3. As soon as the button (1) is pressed, the "TIME BOOST" screen appears on the control display (Fig. 2). Select the required value.
4. To select whether or not to activate or deactivate the function, use the numerical keypad or the "+" and "-" symbols. To save your selection, press "Enter".



- i NB:** the “TIME BOOST” parameter defines the total time the traction motor must be subjected to forced induction. It is useful when driving on ramps.
- i NB:** the “TIME BOOST” parameter is expressed in seconds (s). The numerical value is between a minimum of 00 and a maximum of 20, in increments of one unit.
- i NB:** the “TIME BOOST” parameter is set at 20 in the factory.

## MONITOR MENU (SERVICE - MAIN)



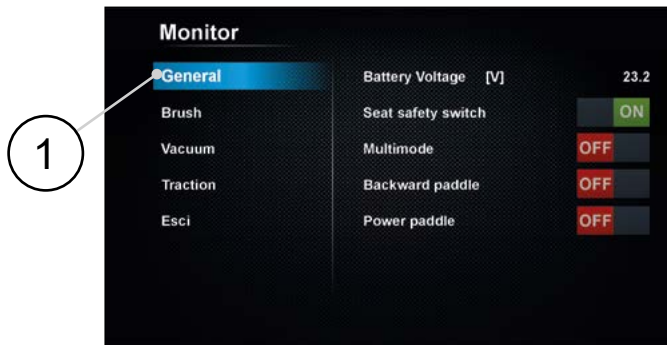
To view the “MONITOR” menu, proceed as follows:

1. Open the “SERVICE” menu. See [“SERVICE MENU \(MAIN\)” on page 23](#).
2. To access the MONITOR menu, press the button (1) (**Fig. 1**).

The following sub-menus can be selected on the Parameters menu screen:

<b>GENERAL</b>	Used to view the general machine parameters. See <a href="#">“GENERAL MENU (MONITOR - SERVICE)” on page 55</a> .
<b>BRUSHES</b>	Used to view the parameters relating to the machine's scrubbing system. See <a href="#">“BRUSH MENU (MONITOR - SERVICE)” on page 55</a> .
<b>VACUUM</b>	Used to view the parameters relating to the machine's vacuum system. See <a href="#">“VACUUM MENU (MONITOR - SERVICE)” on page 56</a> .
<b>TRACTION</b>	Used to view the parameters relating to the machine's traction system. See <a href="#">“TRACTION MENU (MONITOR - SERVICE)” on page 56</a> .

## GENERAL MENU (MONITOR - SERVICE)



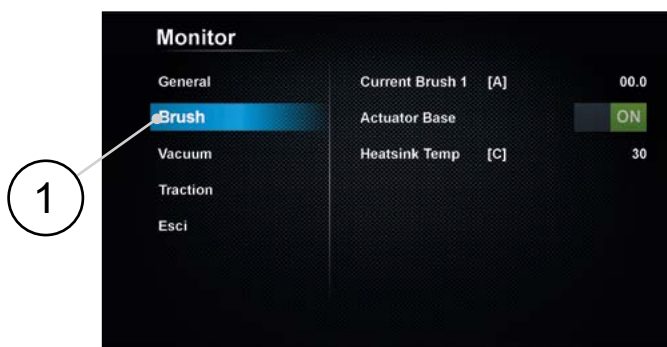
To view the “GENERAL” menu, proceed as follows:

1. Open the “MONITOR” menu. See [“MONITOR MENU \(SERVICE - MAIN\)” on page 54.](#)
2. To access the GENERAL menu, press the button (1).

The following parameters can be viewed on the General screen:

<b>BATTERY VOLTAGE</b>	Indicates the instantaneous voltage of the batteries that power the machine. The value is expressed in volts (V).
<b>SEAT SAFETY SWITCH</b>	Indicates if the operator presence microswitch (located in the operator's seat) is enabled or not. If the selector is set to ON, it is active, whereas if the selector is switched to OFF, it is deactivated.
<b>MULTIMODE</b>	Indicates if the microswitch for speed reduction on bends (in the steering system) is enabled or not. If the selector is set to ON, it is active, whereas if the selector is switched to OFF, it is deactivated.
<b>BACKWARD PADDLE</b>	Indicates if the microswitch in the reverse activation system is enabled or not. If the selector is set to ON, the microswitch is active, whereas if the selector is switched to OFF, it is deactivated.
<b>POWER PADDLE</b>	Indicates if the microswitch in the Power Mode program activation system is enabled or not. If the selector is set to ON, the microswitch is active, whereas if the selector is switched to OFF, it is deactivated.

## BRUSH MENU (MONITOR - SERVICE)



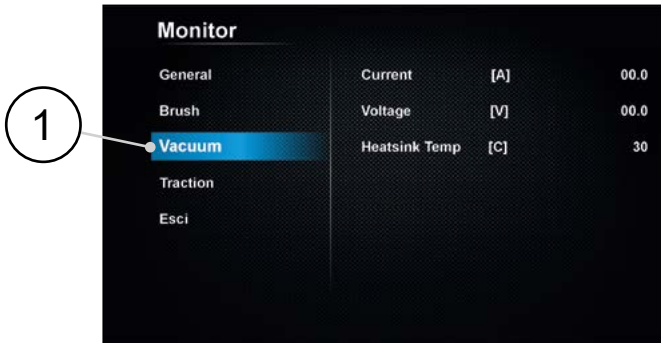
To view the “BRUSH” menu, proceed as follows:

1. Open the “MONITOR” menu. See [“MONITOR MENU \(SERVICE - MAIN\)” on page 54.](#)
2. To access the BRUSH menu, press the button (1).

The following parameters can be viewed on the Brush screen:

<b>CURRENT BRUSH 1</b>	Indicates the instantaneous current absorbed by the motor in the machine's sweeping system. The value is expressed in amperes (A).
<b>ACTUATOR BASE</b>	Indicates if the machine's central brush head control actuator is in the working phase. If the selector is set to ON, the actuator is in the working phase, whereas if the selector is switched to OFF, it is in the rest phase.
<b>HEATSINK TEMP</b>	Indicates the instantaneous temperature of the motor in the machine's sweeping system. The value is expressed in degrees centigrade (°C).

## VACUUM MENU (MONITOR - SERVICE)



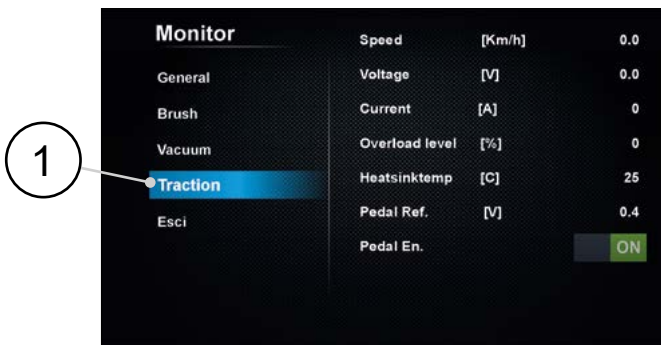
To view the “VACUUM” menu, proceed as follows:

1. Open the “MONITOR” menu. See [“MONITOR MENU \(SERVICE - MAIN\)” on page 54.](#)
2. To access the VACUUM menu, press the button (1) (Fig. 1).

The following parameters can be viewed on the Vacuum screen (Fig. 1):

<b>CURRENT</b>	Indicates the instantaneous current absorbed by the motor in the machine's vacuum system. The value is expressed in amperes (A).
<b>VOLTAGE</b>	Indicates the instantaneous voltage applied to the motor in the machine's vacuum system. The value is expressed in amperes (A).
<b>HEATSINK TEMP</b>	Indicates the instantaneous temperature of the motor in the machine's vacuum system. The value is expressed in degrees centigrade (°C).

## TRACTION MENU (MONITOR - SERVICE)



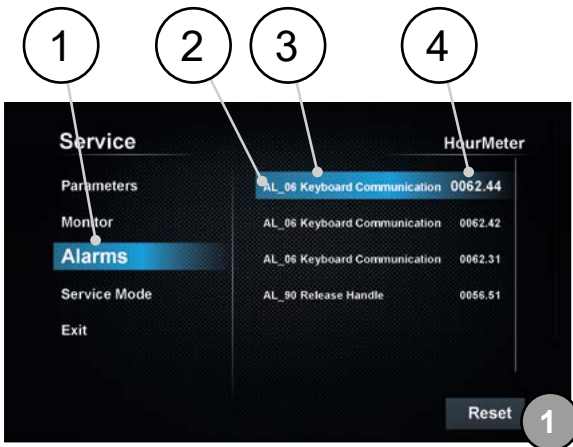
To view the “TRACTION” menu, proceed as follows:

1. Open the “MONITOR” menu. See [“MONITOR MENU \(SERVICE - MAIN\)” on page 54.](#)
2. To access the TRACTION menu, press the button (1) (Fig. 1).

The following parameters can be viewed on the Traction screen (Fig. 1):

<b>Speed</b>	Indicates the machine's instantaneous forward speed. The value is expressed in kilometres per hour (km/h).
<b>Voltage</b>	Indicates the instantaneous voltage applied to the motorwheel in the machine's traction system. The value is expressed in volts (V).
<b>Current</b>	Indicates the instantaneous current absorbed by the motorwheel in the machine's traction system. The value is expressed in amperes (A).
<b>Overload level</b>	Indicates the limit status of the instantaneous current absorbed by the motorwheel in the machine's traction system. The value is expressed as a percentage (%).
<b>Heatsinktemp</b>	Indicates the instantaneous temperature of the motorwheel in the machine's traction system. The value is expressed in degrees centigrade (°C).
<b>Pedal ref.</b>	Indicates the instantaneous reference voltage given by the drive pedal in the machine traction system. The value is expressed in volts (V).
<b>Pedal en.</b>	Indicates if the microswitch in the drive pedal was enabled or not. If the selector is set to ON, the microswitch was activated, whereas if the selector is switched to OFF, it was not activated.

## ALARMS MENU (SERVICE - MAIN)



To view the “ALARMS” menu, proceed as follows:

1. Open the “SERVICE” menu. See [“SERVICE MENU \(MAIN\)” on page 23](#).
2. To access the ALARMS menu, press the button (1) (**Fig. 1**).
3. As soon as the button (1) is pressed, the “ALARMS” screen appears on the control display.

**i** **NB:** the column “No” (2) identifies the alarm position number; the column “Description” (3) identifies the alarm description; the column “Hour meter” (4) identifies the moment in which the alarm appeared (the hour meter of reference is inherent to the starter key).

**i** **NB:** the numbering of the column (2) is chronological - the first position contains the last alarm that was recorded up to a maximum of twenty alarms; the new alarms overwrite the less recent ones.







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