

## **Chip service menu :**

We get to the service menu of the chip and set the values in it using the assistance buttons (+ and -). Access to the following menu items is determined according to the number of presses (bike assistance changes made). For some engines, it is necessary to turn on the chip.

- A** - max. speed (10x)
- B** - chip lock (13x)
- C** - starting the chip (15x)
- D** - add of the correct number of km traveled (17x)
- E** - chip reset (19x)
- F** - chip activation (21x)
- G** - chip software version information (23x)
- H** - chip calibration with the bike (25x)



### **CHIP SERVICE MENU CONTROL PROCEDURE:**

1. The display must be in the km/h mode, the setting is only performed when the bike is stationary. (With the exception of the quick lock function (B-13))
2. Select the maximum assistance level (TURBO) on the display and wait 5s.
3. Perform the given number of presses of the assistance buttons + and - according to which menu item you want to set, with the fact that the first press must be the "-" button and then (from the second press to the last) alternately + and -. There must not be a delay of more than three seconds and less than one second between each press. If the menu opens correctly, you will see the numerical value (in km/h) corresponding to the selected menu item on the display for 3s.
4. After that, the currently set value of the menu item will be displayed, which you can change again using the help buttons + and -. The last selected value you selected is stored in the chip by not changing it to any other value for 10s. Confirmation of saving your chosen value is indicated by displaying the value 0km/h on the display.

### **MENU VALUES:**

- A • max. speed (10x)**  
the display shows the currently set maximum speed, which you can change to the desired maximum speed by pressing the + and - buttons (26 to 70 km/h in increments of 1 km/h), after 10 seconds of inactivity the selected speed is automatically saved and the service menu closes
- B • chip lock (13x) - the chip cannot be activated with any button (quick chip lock 8x pressing the help + and -)**
  - 11 - chip lock ON
  - 12 - chip lock OFF
  - 13 - fast chip lock ON
  - 14 - fast chip lock OFF
- C • starting the chip (15x) – state of the chip after turning on the bike**
  - 11 - the chip is ACTIVE after turning on the bike - the chip is activated automatically when the bike is turned on (subsequently, the chip can no longer be deactivated by pressing any button)
  - 12 - the chip is ACTIVE when the bike is turned on – the chip is activated automatically when the bike is turned on (subsequently, the chip can be deactivated at any time by pressing one of the buttons on the display)
  - 13 - the chip is INACTIVE after turning on the bike (subsequently, the chip can be activated at any time by pressing one of the buttons on the display)
  - 14 - stop refilling km with (+-) ENABLED (ON)
  - 15 - stop adding km with (+-) DISABLED (OFF)

**D • adding the correct number of km travelled (17x)**

the distance travelled during the ride with the chip on does not match the actual distance travelled and the following items allow the user to choose the way of calculating it that is most comfortable for them when driving. The indication of the ongoing calculation at a stop is shown by the values of the set max. speed of km addition, e.g. 59.5 to 60.5km/h.

- 11 - refueling while driving and when stopped (do not set for Bosch Smart)
- 12 - refuelling only when stopped
- 13 - no refuelling during the distance travelled (**highly recommended!!**)
- 14 - stopping the topping up km with (+-) ON
- 15 - stop refueling with (+-) DISABLED (OFF)

**E • chip reset (19x)**

e.g. in case of installing the chip on another bike or in case of replacing the speed sensor, perform this chip reset.

- 11 - chip settings will be preserved
- 12 - setting the chip to factory settings (hard reset)

**F • chip activation (21x) – selection of buttons with which you want to activate/deactivate the chip**

(for different engine types, some settings are not functional)

- 10 - settings unchanged
- 11 - change of assistance (buttons + and -) ENABLED (ON)
- 12 - change of assistance (buttons + and -) DISABLED (OFF)
- 13 - walking assistant button ( walk button ) ENABLED (ON)
- 14 - walking assistant button ( walk button ) DISABLED (OFF)
- 15 - lights button 1x ENABLED (ON)
- 16 - lights button 1x DISABLED (OFF)
- 17 - lights button 2x (short press 1s) ENABLED (ON)
- 18 - lights button 2x (short press 1s) DISABLED (OFF)
- 19 - lights button 2x (long press 5s) ENABLED (ON)
- 20 - lights button 2x (long press 5s) DISABLED (OFF)
- 21 - chip activation/deactivation indication on the display ENABLED (ON)
- 22 - indication of activation/deactivation of the chip on the display DISABLED (OFF)

**G • chip software version information (23x)**

writing the SW version of the chip on the indicator display - the SW version of the chip is gradually written on the display in such a way that first the first number of the SW version is displayed for 2s, then it changes to zero (substitute for a dot), then the middle number of the SW version is displayed for 2s, then it changes to zero (substitute for dot), finally the last SW version number is displayed for 2s, then it changes to zero (substitute for dot). So this number will be in the form xx.xx.xx

**H • chip calibration with the bike (25x)**

after indicating the entry to menu 25, the calibrated speed will be displayed (after calibration correctly 23.0km/h, if the calibration was not carried out before, an inaccurate speed will be displayed, e.g. 22.2km/h), if we start to change the engine assistance (with the + and - buttons), we enter the beginning of the calibration and the indicated speed starts to rise slowly. When the indicated speed is exactly 23.0km/h, stop pressing the + and - engine assistance buttons, wait 15s for the indicated speed to be 0km/h, this completes the chip calibration, with successful calibration, 19.0km/h will be displayed after the chip is turned on and when turned off chip 12.0km/h