



BOSCH ENGINE MANUAL

VER. 8.05



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EN

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INSTALLATION

Connection

ATTENTION

It is forbidden by law to activate EPLUS speed unlocker in public places such as streets, squares and cycling paths. So it is only possible to activate EPLUS speed unlocker in private places such as circuits and private properties.

The maker denies responsibility due to any damage to pedal assisted bicycles where Eplus is set up. The maker denies responsibility due to any harm to people or objects.

Unplug the connectors

1



After removing the protective cover, identify the two plugs of the display (the second connector from left of 4 wires colored: yellow-green-black-red) and the speed sensor (2 wire plug fully right: black-red).

2



Once the cover has been removed, locate the two connectors on the display (black 4-wire connector: yellow-green-black-red) and the speed sensor (gray 2-wire connector: black-red).

3



With a long pliers carefully remove the two plugs paying attention not to pinch them ruining plugs or wires.

4



Slide the thermoshrinking sheath (enclosed) in the two disconnected wires, pushing it over the plug.

5



Insert plugs (output cables from the chip) in their respective two sockets (cables disconnected from the engine) respecting the correct wire color:

**DISPLAY PLUG > YELLOW-YELLOW / GREEN-GREEN / BLACK-BLACK / RED-RED
AND SPEED SENSOR PLUG > BLACK-BLACK / WHITE-RED**

USE EXTREME ATTENTION TO CORRECTLY ASSEMBLE THE COLORS! CAUTION: WRONG CONNECTION LEADS TO SHORTCIRCUIT, DAMAGES NOT COVERED BY WARRANTY!

6

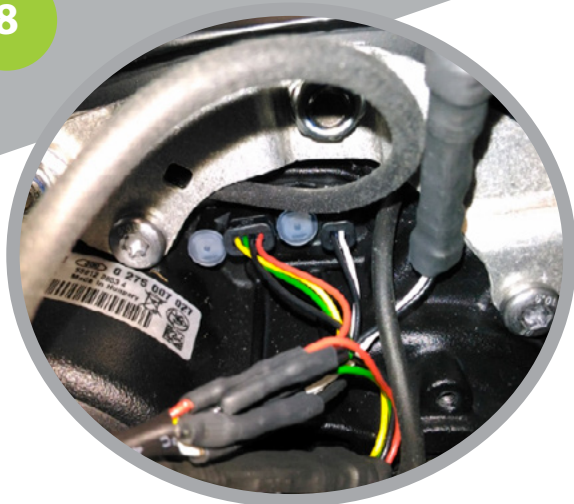


Carefully cover the two plugs with shrink wrap and with a hair dryer or a lighter heat uniformly the sheath (turning it from right to left) until you have the sheath that takes the shape of the plugs. Be careful not to burn wires or plugs.

7



8



Now connect the two plugs remaining on the chip to the engine, respecting the correct position of the colors (display RED WIRE and speed sensor WHITE WIRE get to the RIGHT), push the connectors firmly to the end; **CAUTION: WRONG CONNECTION LEADS TO SHORTCIRCUIT, DAMAGES NOT COVERED BY WARRANTY!**

9



Possibly arrange the cables with electrician clamps paying attention that there are no wires in correspondence with holes where cover's screws are.

ACTIVATION OF THE SPEED UNLOCK

The engine unlock at 25 km / h is activated by pressing the Walk button on the on-board computer. The activation button can be changed (see pag. 9).
The display will show the value 2.2 if the unlock has been activated and 1.1 if it is deactivated.

DISPLAY

Racing Speed Unlocker / Advanced è compatibile con i display Purion, Nyon e Intuvia.

Se si dispone di display Intuvia o Nyon, per il corretto funzionamento seguire le istruzioni a pagina. 9/10.

DATA VIEW ON THE DISPLAY

Purion: correct speed, correct km done

Intuvia: correct speed, correct km done, total km 00

Nyon: correct speed, km done with unlock activated halved

Kiox: correct speed, correct km done

The battery life indicated is statistical, to obtain a correct value it is necessary to make a few km with the unlock on.

Features

FIRMWARE VERSION 8.05 OF THE KIT FOR BOSCH

- The kit is suitable for Bosch 2020 motors and earlier versions.
- Before switching off the bike, to avoid any errors, wait for the countdown to end and the display to show a fixed 0. If the bike turns off before the count has finished, the count will resume at the next stop.
- When the bike stops for more than 4 seconds, a countdown appears on the display. You need to wait for the display to show fixed 0 before turning off the bike.

INTUVIA

To change the default parameters follow the next procedure scrupulously:

1. Turn on the display and place the aid level in OFF mode
2. Press the [-] button on the handlebar 4/5 times until the number 0.5 appears on the display
3. Move the [+ -] keys on the handlebar and enter the menu to be modified choosing between 1,2,3,4,5,6 (large number on display).



- parameter [0.5] > For INTUVIA visualization of total km done; for PURION/NYON the partial and total km will be visible as usual on the display;
- **parameter [1.5] > Display Type (only Bosch) 2.2 Intuvia;**
- parameter [2.5] > Choice of wheel circumference size:
 - wheel circumference (default value > 21.7 equivalent to 2170 mm or 27.5" standard wheel) the value must be as close as possible to the real circumference in order to have a correct reading of the speed. The use of automatic calibration is recommended (parameter 4.5);
- parameter [3.5] > Choice of activation/deactivation unlock button: you can change the default setting (default value > 4.4 WALK key) by choosing: 1.1 RESET key, 2.2 LIGHT key, 3.3 sequence+++ or 4.4 WALK. 1.1 RESET button, 2.2 LUCI (LIGHTS) button, 3.3 sequence+++ or 4.4. WALK.

- parameter [4.5] > Automatic calibration of wheel circumference: If the bike is stopped, the message 55.6 will appear on the display for a few seconds, at the end of calibration 50.1 appears. If the bike is moving or the magnet on the spokes is positioned above the sensor, calibration is NOT STARTED and 99.9 appears on the display;
- parameter [5.5] > restores km traveled with active unlock, if the operation has been carried out correctly, 50.0 will appear on the display;
- parameter [6.5] > software version.
- parameter [7.5] > speed sensor setting: if you have a 2020 e bike with speed sensor magnet on the spokes of the wheel, set parameter 1.1. If you have a 2020 e bike with speed sensor magnet on the disc, set parameter 2.2

NYON

To change the default parameters follow the next procedure scrupulously:

1. Turn on the display and place the aid level in OFF mode
2. Press the [-] button on the handlebar 4/5 times until the number 0.5 appears on the display
3. Move the [+ -] keys on the handlebar and enter the menu to be modified choosing between 1,2,3,4,5,6 (large number on display).



- parameter [0.5] > -
- **parameter [1.5] > Display Type (only Bosch) 3.2 Nyon,**
parameter [2.5] > Choice of wheel circumference size:
- wheel circumference (default value > 21.7 equivalent to 2170 mm or 27.5" standard wheel) the value must be as close as possible to the real circumference in order to have a correct reading of the speed. The use of automatic calibration is recommended (parameter 4.5);
- parameter [3.5] > Choice of activation/deactivation unlock button: you can change the default setting (default value > 4.4 WALK key) by choosing: 1.1 RESET key, 2.2 LIGHT key, 3.3 sequence+++ or 4.4 WALK. 1.1 RESET button , 2.2 LUCI (LIGHTS) button , 3.3 sequence +++ or 4.4. WALK.

- parameter [4.5] > Automatic calibration of wheel circumference: If the bike is stopped, the message 55.6 will appear on the display for a few seconds, at the end of calibration 50.1 appears. If the bike is moving or the magnet on the spokes is positioned above the sensor, calibration is NOT STARTED and 99.9 appears on the display;
- parameter [5.5] > restores km traveled with active unlock, if the operation has been carried out correctly, 50.0 will appear on the display;
- parameter [6.5] > software version.
- parameter [7.5] > speed sensor setting: if you have a 2020 e bike with speed sensor magnet on the spokes of the wheel, set parameter 1.1. If you have a 2020 e bike with speed sensor magnet on the disc, set parameter 2.2

KIOX

To change the default parameters follow the next procedure scrupulously:

1. Turn on the display and place the aid level in OFF mode
 2. Press the [-] button on the handlebar 4/5 times until the number 0.5 appears on the display
 3. Move the [+ -] keys on the handlebar and enter the menu to be modified choosing between 1,2,3,4,5,6 (large number on display).
2. Premere 4/5 volte il tasto [-] sul manubrio finché comparirà il numero 0.5 sul display



- parameter [0.5] > -
parameter [1.5] > Display Type (only Bosch) 2.2 Kiox;
- parameter [2.5] > Choice of wheel circumference size:
- wheel circumference (default value > 21.7 equivalent to 2170 mm or 27.5" standard wheel) the value must be as close as possible to the real circumference in order to have a correct reading of the speed. The use of automatic calibration is recommended (parameter 4.5);
- parameter [3.5] > Choice of activation/deactivation unlock button: you can change the default setting (default value > 4.4 WALK key) by choosing: 1.1 RESET key, 2.2 LIGHT key, 3.3 sequence+++ or 4.4 WALK. 1.1 RESET button, 2.2 LUCI (LIGHTS) button, 3.3 sequence+++ or 4.4. WALK.

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- parameter [5.5] > restores km traveled with active unlock, if the operation has been carried out correctly, 50.0 will appear on the display;
- parameter [6.5] > software version.
- parameter [7.5] > speed sensor setting: if you have a 2020 e bike with speed sensor magnet on the spokes of the wheel, set parameter 1.1. If you have a 2020 e bike with speed sensor magnet on the disc, set parameter 2.2

PURION

To change the default parameters follow the next procedure scrupulously:

1. Turn on the display and place the aid level in OFF mode
2. Press the [-] button on the handlebar 4/5 times until the number 0.5 appears on the display
3. Move the [+ -] keys on the handlebar and enter the menu to be modified choosing between 1,2,3,4,5,6 (large number on display).



- parameter [0.5] > -
- **parameter [1.5] > Display Type (only Bosch) 1.1 Purion**
- parameter [2.5] > Choice of wheel circumference size:
- wheel circumference (default value > 21.7 equivalent to 2170 mm or 27.5" standard wheel) the value must be as close as possible to the real circumference in order to have a correct reading of the speed. The use of automatic calibration is recommended (parameter 4.5);
- parameter [3.5] > Choice of activation/deactivation unlock button: you can change the default setting (default value > 4.4 WALK key) by choosing: 1.1 RESET key, 2.2 LIGHT key, 3.3 sequence+++ or 4.4 WALK. 1.1 RESET button, 2.2 LUCI (LIGHTS) button, 3.3 sequence +++ or 4.4. WALK.

PURION

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- parameter [5.5] > restores km traveled with active unlock, if the operation has been carried out correctly, 50.0 will appear on the display;
parameter [6.5] > software version.
- parameter [7.5] > speed sensor setting: if you have a 2020 e bike with speed sensor magnet on the spokes of the wheel, set parameter 1.1. If you have a 2020 e bike with speed sensor magnet on the disc, set parameter 2.2

The eplus Kit is compatible with Purion updated to v.1.4.0



To check if the display is updated to the correct firmware version, press the “+” key and the “-” key simultaneously with the display off.



After that, keeping the “+” and “-” buttons pressed, press the e bike start button.

A scrolling message will appear on the display indicating the firmware version.

If the display has a version prior to 1.4.0, connect the Purion display to the PC and update the firmware version with the Bosch diagnosis.

APP EPLUS

Only for Advanced version

It is necessary to download our Eplus Tuning application, Speed Unlocker functionality is obtained by in- app purchase for € 0.99 and subsequently it can be activated from the app or by pressing a button on the dashboard. available for:

Android



iOS



12 months warranty.

We are responsible for manufacturing defects and not for installation defects.

Do not expose to moisture and sources of heat.



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