

# eGENESIS

Powered by ZIXEL

**ADAMO678**

**ADAMO19**



**V1.5**

**eGENESIS** is a management system that allows, in an innovative, simple and targeted way, to manage, through an autonomous electronic display card, directly the engine providing a surprising reactivity, intelligence and new possibilities of use without the obligation of a constantly connected smartphone. The ADAMO19 version is for models with TCU (TL2019/20), while ADAMO678 is for models without TCU (TL2016/7/8 and KENEVO).

## What does it offer ?

- You can use different engine power management modes to optimise consumption. In particular, in the Manual mode there are 9 pre-selections with 9 gears each one plus Off engine and Turbo (a total of 83 possibilities), while in the Automatic mode there are 3 delivery profiles with continuous dynamics and each one consists of 9 levels plus Off and Turbo. In addition, the Custom mode is available, which allows you to set 9 levels to your liking, each with its own acceleration.
- The system is upgradeable from Android or Ios mobile phone and will be expandable in the future.
- With its own remote control (versions without TCU), enable the Walk function on bikes where it was not planned.
- It implements a Turbo/MaxTurbo function that when activated, from your mobile phone or remote control, allows you to tackle extreme climbs or simply makes pedalling a little tiring.
- It allows you to manage its use in a simple, clear and intuitive way.
- It autonomously manages the tour statistics without the need for a mobile phone.
- Allows you to set the unlocked mode for pedaling on private routes.
- The system is equipped with its own barometric sensor for the calculation of height difference and slope.
- The display has a beeper that warns you during the implementation of the various commands that can be given through the remote control. The sound function, in its various tones, can be set from the menu.
- The display is designed for day or night mode and allows the backlight to be changed. The privacy mode, on the other hand, darkens the screen after 5 seconds of button inactivity.
- The system connects to any Eden card for the management of an additional battery.
- The system connects to any compatible BLE heart rate monitor and can interact with the engine.
- The system is equipped with a restart aid and auto power off/reboot engine settable.
- The system allows a diagnosis of the main battery to evaluate all its cell groups.
- It implements the functions of rehydration warning, pinion gear shift advice, maximum engine power limiter that can be set in Off/On/Active, immobilizer, total/partial lock/unlock of buttons and menus.



**eGENESIS**

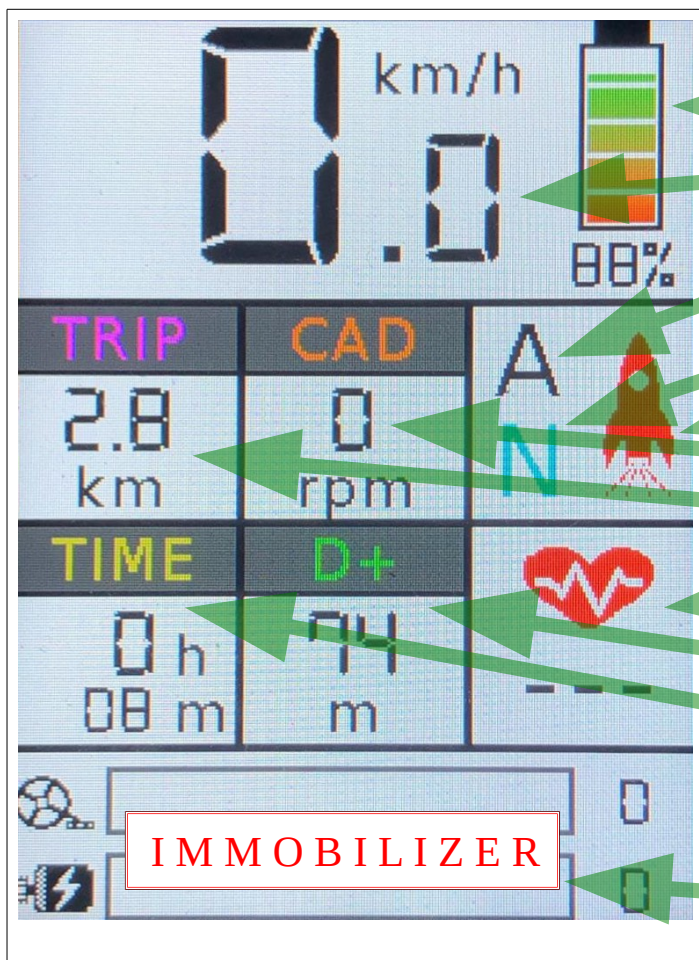
[zixel.dev@gmail.com](mailto:zixel.dev@gmail.com)

Powered by: [www.zixel.it](http://www.zixel.it)

## Disclaimer of liability

The eGENESIS SYSTEM IS TO BE CONSIDERED FOR A VALUABLE AND EXPLORATORY USE OF A WAY OF USE OF THE DIFFERENT BIKE. THE USER ASSUMES THE RISKS AND MUST USE THIS SYSTEM ADOPTING ALL POSSIBLE SAFETY CRITERIA. EVEN THOUGH WE HAVE CARRIED OUT SEVERAL TESTS, WE CANNOT COMPLETELY GUARANTEE ITS CORRECT FUNCTIONING. ATTENTION!: THE VARIATION OF SOME PARAMETERS COULD MAKE THE BIKE UNSUITABLE FOR USE IN PUBLIC AREAS AND INVALIDATE THE WARRANTY.

\* Each trademark or logo in this document belongs to its legitimate owners.



## DATA AREAS

- (A) Remaining battery
- (B) Instantaneous speed
- (C) Automatic mode / Manual / Customized
- (D) Profile(E/N/S) / Preset(1-9)
- (E) Gear(Off/1-9) / Level(Off/1-9)  
Start Help(Flash) Turbo(Rocket)
- (F) Cycling cadence
- (G) Distance travelled
- (H) BPM heart rate monitor beds BLE  
Sprocket change suggestion
- (I) Positive height gain / Slope
- (J) Time on the move / Time of day
- (K) Cyclist instantaneous power
- (L) Instantaneous engine power
- (M) Immobilizer if inserted  
Rehydration warning if enabled



## BUTTON FUNCTION

- (Increase / Up)**  
With Adamo678 and 19 it allows to act, if pressed for a long time, as a change of values in point (D). Short press changes the values in the menus or the gear/level in point (E).
- (Turbo / Power OnOff)**  
With Adamo19 it allows to act, if pressed for a long time, also as bike on/off. With Adamo678 and 19, if pressed short, as On/Off Turbo
- (Walk / Menu)**  
With Adamo678 and 19 it allows to act, if pressed for a long time, as a Walk or, if short, as a change of display and Menu.
- (Decrease / Down)**  
With Adamo678 and 19 it allows to act, if pressed for a long time, as a point change (D). Short press changes values in the menus or the gear/point level (E).





## STATISTICAL DATA AREAS

Average cyclist power

Average pedaling cadence

Average speed

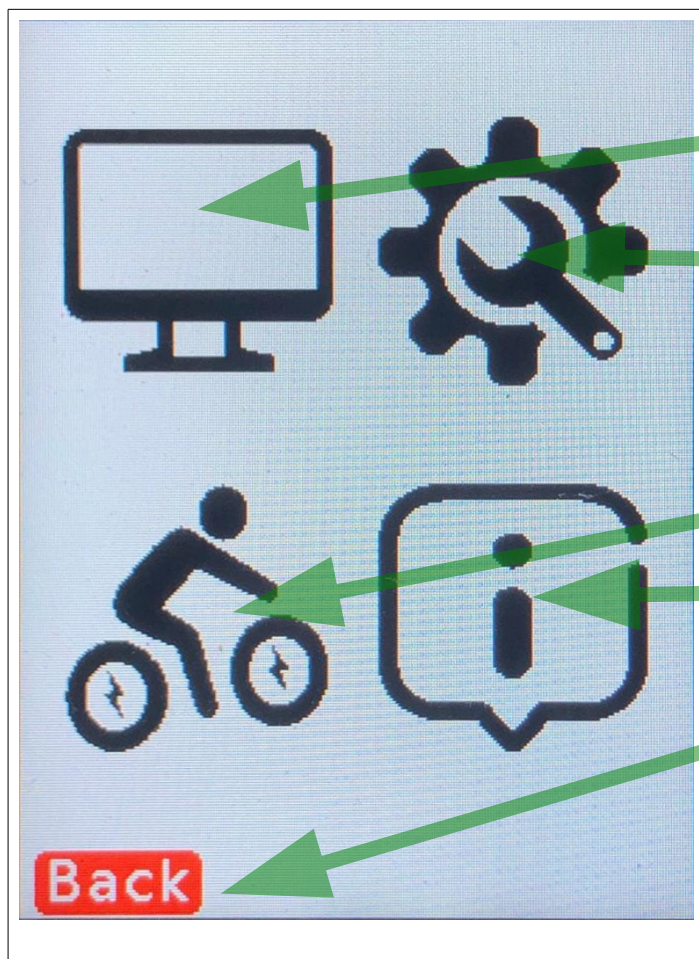
Maximum speed reached

Average engine power output

Kilocalories consumed

Positive and negative height difference

Engine temperature



## MAIN MENU

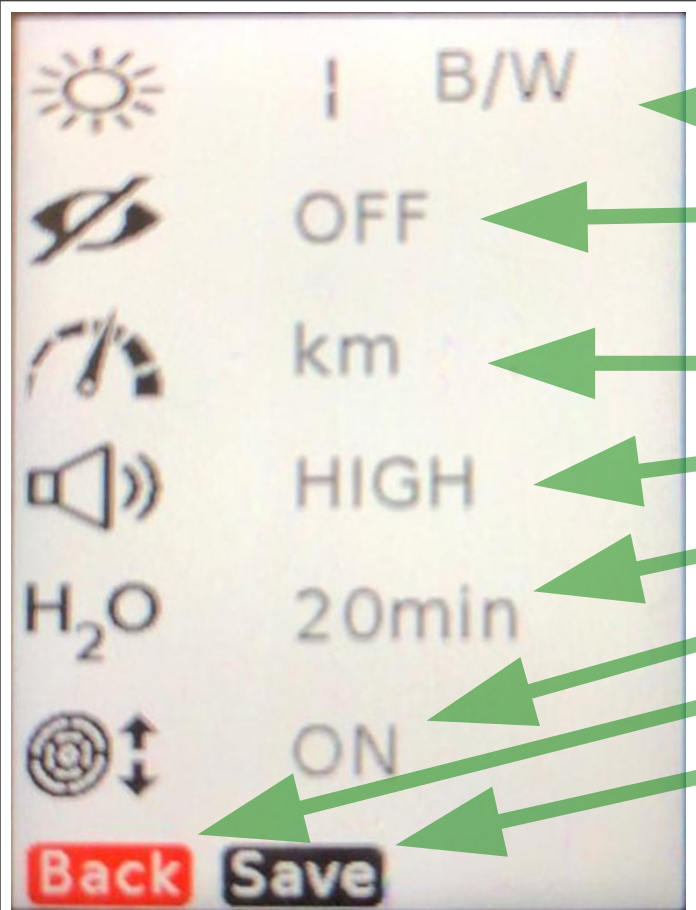
Main parameters Video and Audio, rehydration setting and pinion suggestion enable.

Configuration of, Pedal Assistance Behavior, Start Assistance, Auto engine shutdown/restart, Trip and Cardio thresholds

Bike and Connectable Devices Configuration (Eden/Cardio)

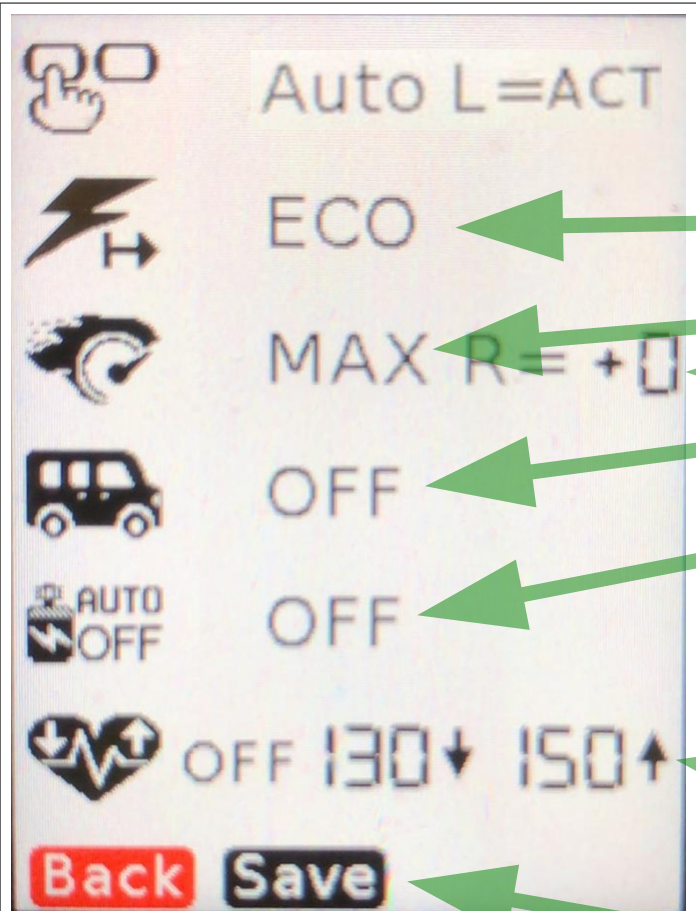
Miscellaneous information, statistics and their reset, reset to default values.

Return to main page



**VIDEO & AUDIO**

- Backlight and night/day contrast mode adjustment
- Privacy On/Off. If On dims the display after 5 seconds of inactivity of the remote buttons
- Unit of measurement in Km or Miles
- Beep Off / Low / Med / High
- Rehydration Notice
- Pinion Exchange Board
- Back to main page
- Stores modified data. Not saving the modified data will be lost



**MOTOR SUPPLY**

- Automatic/Manual/Custom Mode Limiter(Off/On/Active)
- I'll help you restart from standstill after a few seconds of inactivity.
- Power output in Turbo
- System Reactivity
- Bus(Shuttle) present only on ADAMO19
- Automatic engine shutdown/restart management. After 1 minute that the cyclist's pedalling power is lower than indicated, the engine switches off and then on again immediately as soon as the power is exceeded.
- Reactivity adjustment of motor power control through cardio BLE and setting of minimum and maximum thresholds
- Return to the main page and save the modified data



LVL	ASS	PP	ACC
1	10	15	10
2	15	23	20
3	20	30	30
4	25	38	40
5	30	40	50
6	40	56	60
7	50	66	70
8	65	75	80
9	75	80	100

Back Save Default

**ENGINE POWER  
CUSTOMIZED**

Press and hold the Menu key to access the parameters.

Acceleration

Peak Power

Assistance

Gear level.

Return to main page

Saving modified data

Restore with factory data

LVL	E	N	S
1	2	4	6
2	3	5	7
3	4	6	8
4	5	7	9
5	6	8	10
6	7	9	10
7	8	10	10
8	9	10	10
9	10	10	10

Back Save Default

**POWER LIMITER  
(for automatic mode)**

When **AUTO** is highlighted in red, long press the Menu button to access these parameters.

Columns of Eco / Normal / Sport

Column of Levels

Maximum deliverable power value  
1=minimum 10=maximum

Back to main page

Saving modified data

Restore with factory data



### INFO AND RECOVERY

Battery status indication. In case of two batteries the indication of the second one will give its real data only after it starts to deliver power.

Detailed statistics

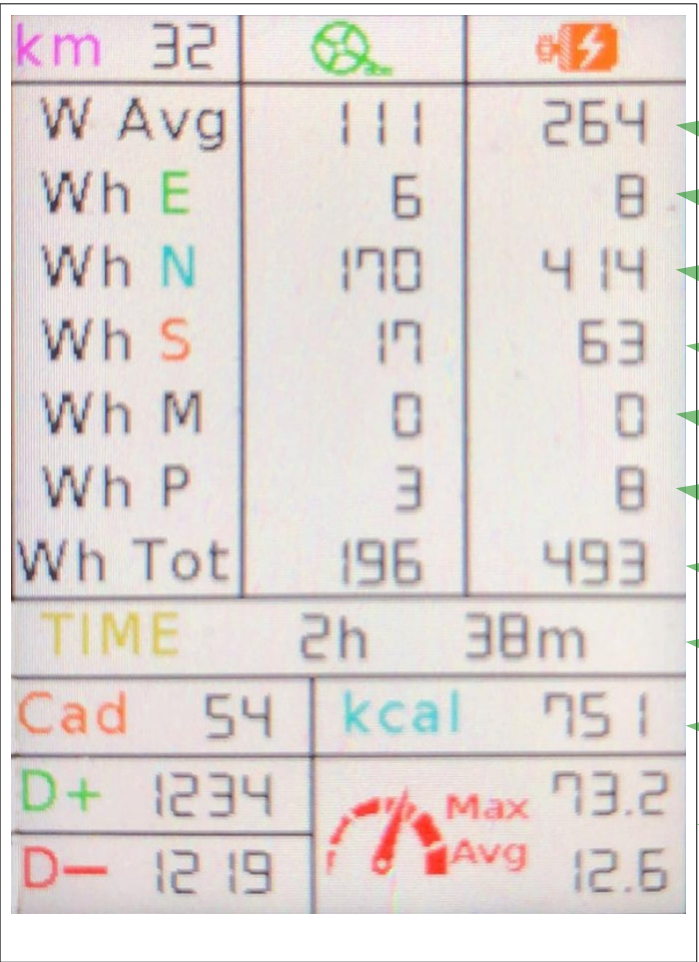
Resetting statistics. Press and hold.

Main battery check

Restore configurations to factory data. Press and hold.

Adam's serial number

Back to main page



### DETAILED STATISTICS

Average Watts

Wh in Automatic-Eco mode

Wh in Automatic-Normal mode

Wh in Automatic-Sport mode

Wh in Manual mode

Wh in Custom Mode

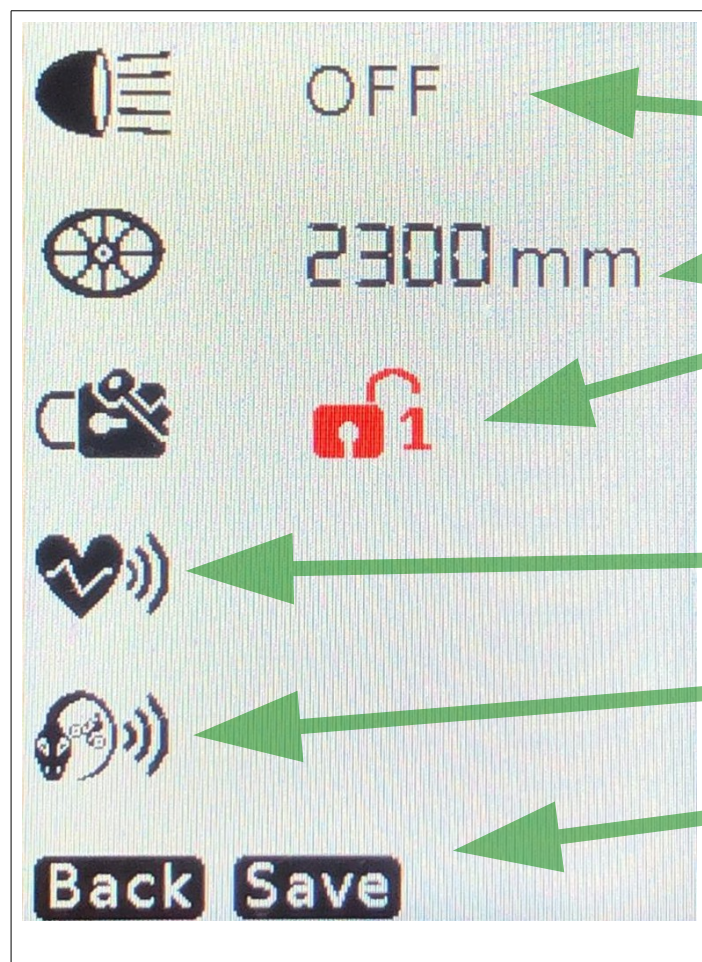
Wh Total in the various modes

Time on the move

Cadence and Kilocalories

Difference in height and speed





## **BIKES AND DEVICES**

**Control of the light output in the motor**

**Wheel circumference adjustment**

**Single Lock/Unlock/Unlock. Speed limit control. Attention! Unlocking makes the bike unfit for use where traffic regulations apply and invalidates the warranty.**

**Search for and associate a BLE cardio device**

**Search and associate the Eden tab for additional battery management**

**Return to the main page and save the modified data**

SCAN

Connesso

ADAMO 678

Firm: v1.3

Hw: v2.1

CAMBIO PASSWORD

000000

Salva

Diag

0.0 Km/h

89%

TRIP 0.4 Km

CAD 0 rpm

A 3

TIME 0 h 02 m

INCL --- %

Restrizioni comando remoto

Controllo TURBO

Controllo Menu

Diag

TIME 0 h 02 m

D+

Restrizioni comando remoto

A

-

3

+

Controllo TURBO

Controllo Menu

Controllo Profili

Immobilizer

Diag

Km 0

Average 24 65

Wh ECO 0 0

Wh NORMAL 0 0

Wh SPORT 0 0

Wh MANUAL 0 0

Wh PERSONAL 0 0

Wh TOTAL 0 0

TIME 0h 02m

Cad 15

Kcal 0

D+ 0

D- 0

Max 40.1

Avg 17.3

Salva

Aggiorna

Reset

Diag

Data di produzione 17/04/17

Cicli di carica 101

Salute batteria 90%

Temperatura 1 22.7°C

Temperatura 2 21.9°C

01 4.081

02 4.082

03 4.083

04 4.082

05 4.082

06 4.081

07 4.082

08 4.082

09 4.082

10 4.081

Diag

IMPOSTAZIONI GENERALI

Vibrazione tasti

Impostazioni ADAMO

Codice di accesso 000000

EDEN

Extender

Coefficiente potenza 1.00

Salva

Diag

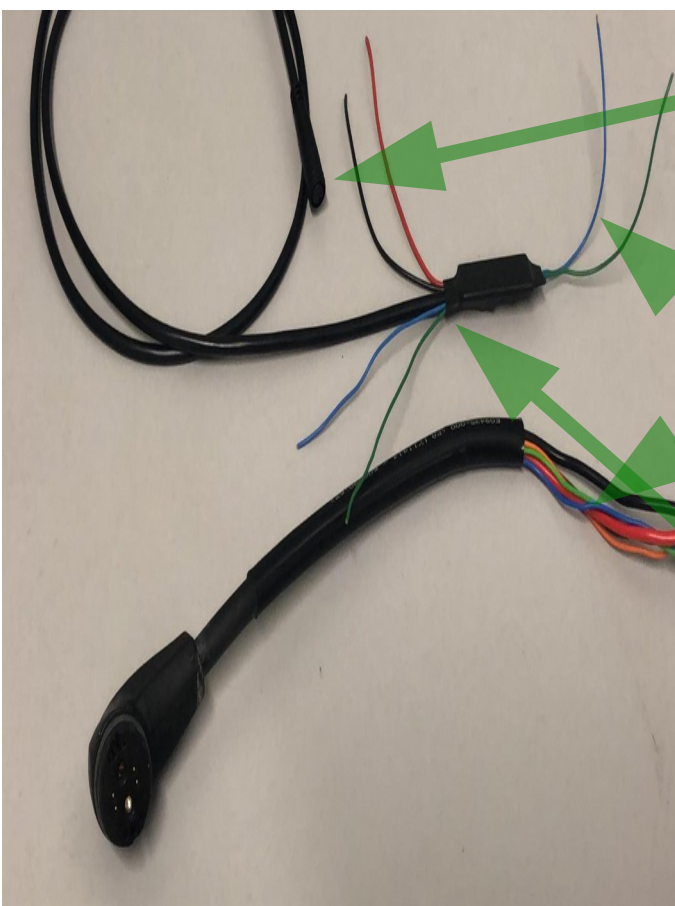
Through the eADAMO application, present in the Android and iOS stores, you can update the firmware of the Adam display and iteragire with it. Following, the main features.

- Use of an "Access Code" that can be set through "Password Change" Password in order to prevent unauthorized persons from accessing the Adam display.
- Ability to act either through remote control or through smartphone to the main controls.
- Possibility to block totally or partially access to menus, profiles and use of the Turbo key.
- Activation of the IMMOBILIZER in order to make the use of the engine assistance impossible.
- Display Statistics and save them in the clipboard in order to be copied.
- Check the main battery elements and highlight any anomalies in red.
- Setting the engine power calculation in case of EDEN extender or different.





**Remove the battery from the bike.  
Remove crank and lower crankcase.**



**Run this connector through the engine area to the battery area and let it out at the top of the frame near the handlebar.**

**In the TL2018 there is an exit plastic that you just need to unscrew, cut a small piece to create an area where the cable is comfortable to pass. In the other bikes, a hole will be created or the existing one increased or alternatively the cable will be passed externally.**

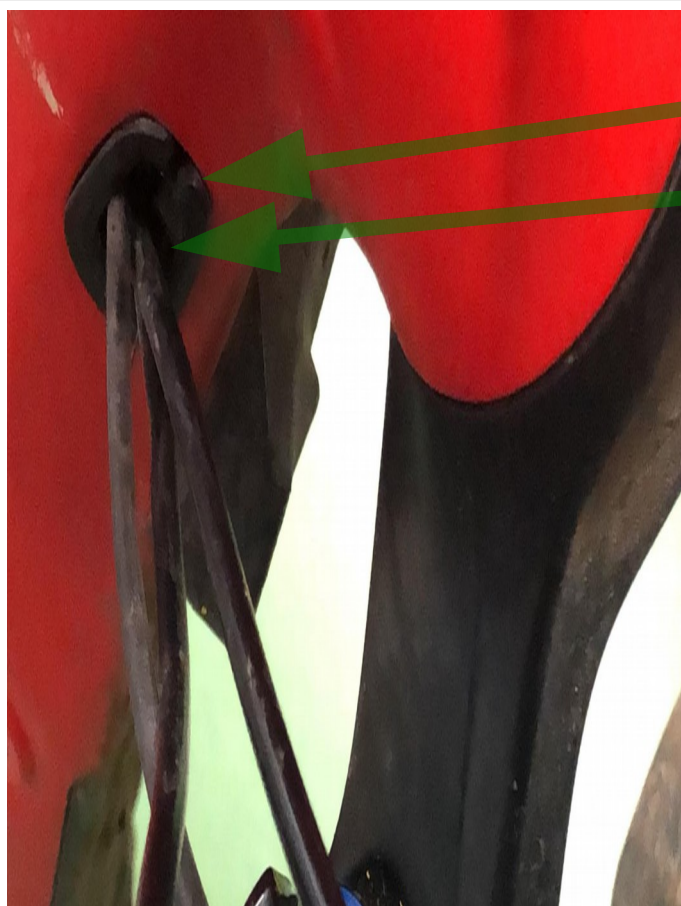
**In the battery cable as shown, cut the Green and Blue wires at half length. Always at half length, strip the Red and Black wires a little bit.**

**Weld and protect these wires, of the adapter card, with the sheath and / or tape, to the wires on the right side (towards the motor connector) respecting the colors (Blue with Blue, Green with Green)**

**Solder and protect these wires from the adapter board with sheath and / or tape to the left side wires (towards the battery connector) respecting the colors (Blue with Blue, Green with Green, Black with Black, Red with Red).**

**At the end (better after the functional check by turning on the display), close the whole (crankcase and reassemble the crank) making the adapter board fit well and being careful not to pinch the wires with screws and plastic in closing.**

## **eGENESIS – ADAMO678**



**In the TL2018 unscrew the screw, remove the plastic, then cut just enough to create space so that the additional cable is just right. On other bikes, drill the frame at that point or run the cable outside.**



**Make a round of electrician's tape where the display will be placed.**

**Attach the display using the appropriate elastic band.**

**Connect the display connector to the connector coming from the signal adaptation card in the crankcase.**





**Make a round of electrician's tape where the remote will be placed.**

**Insert the remote and fix the screws without pulling too much.**

**When everything is finished, turn on the bike and check that the buttons and remote work.**



**eGENESIS**

[zixel.dev@gmail.com](mailto:zixel.dev@gmail.com)

**Powered by: [www.zixel.it](http://www.zixel.it)**

**Disclaimer of liability**

THE eGENESIS SYSTEM IS TO BE CONSIDERED FOR VALUATION AND EXPLORATION USE OF A WAY OF USE OF DIFFERENT BIKES. THE USER ASSUMES THE RISKS AND SHOULD USE THIS SYSTEM BY ADOPTING ALL POSSIBLE SAFETY CRITERIA. EVEN IF WE HAVE MADE MANY TESTS, WE CANNOT COMPLETELY GUARANTEE THE CORRECT OPERATION. ATTENTION: THE CHANGE OF SOME PARAMETERS MAY MAKE THE BIKE NOT SUITABLE FOR USE IN PUBLIC AREAS AND DISCLAIM THE GUARANTEE.

\* Each brand or logo in this document belongs to its legitimate owners



**Unscrew the screw holding the TCU to the bicycle.**



**Remove the TCU from its housing and be careful not to lose the screw.**



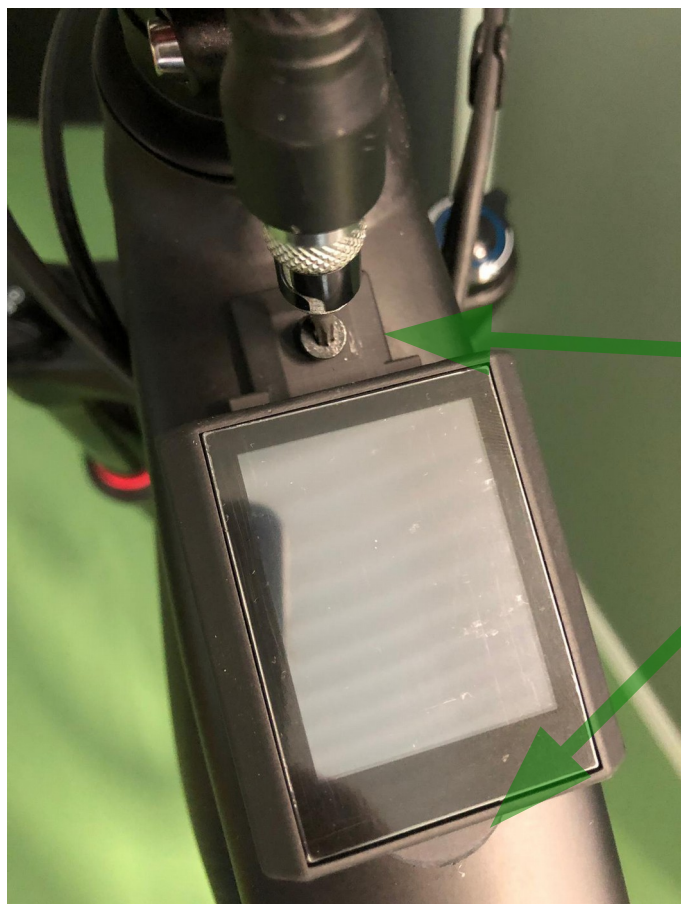
## **eGENESIS – ADAMO19**



**Remove the screw and disconnect the connectors by gently pulling them. Replace the TCU and connect the ADAMO19 cables paying close attention to the polarization pins and inserting them perfectly straight.**



**After having made all the cables enter the tube, insert ADAMO19 inclined, making sure that the rectangular tongue will enter the tube, while the round one must remain external. Upon insertion, it will be slightly forced, but still use the utmost delicacy. Help yourself with a thin metal strip.**



**Tighten again taking care not to over-tighten the screw as it is very delicate and could break.**

**Note that the round tongue of ADAMO19 is outside the tube.**



**When everything is finished, keep the TURBO button pressed for a long time to turn on the bike and check that the display is on.**

**Press the TURBO button again for a long time until the bike is switched off.**



**eGENESIS**

[zixel.dev@gmail.com](mailto:zixel.dev@gmail.com)

**Powered by: [www.zixel.it](http://www.zixel.it)**

**Disclaimer of liability**

THE eGENESIS SYSTEM IS TO BE CONSIDERED FOR VALUATION AND EXPLORATION USE OF A WAY OF USE OF DIFFERENT BIKES. THE USER ASSUMES THE RISKS AND SHOULD USE THIS SYSTEM BY ADOPTING ALL POSSIBLE SAFETY CRITERIA. EVEN IF WE HAVE MADE MANY TESTS, WE CANNOT COMPLETELY GUARANTEE THE CORRECT OPERATION. ATTENTION: THE CHANGE OF SOME PARAMETERS MAY MAKE THE BIKE NOT SUITABLE FOR USE IN PUBLIC AREAS AND DISCLAIM THE GUARANTEE.

\* Each brand or logo in this document belongs to its legitimate owners