

# SPORT

## INSTALLATION

## USE AND MAINTENANCE MANUAL



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Revision - 00 of 10/06/2019



Original instructions: Italian

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# 1. GENERAL INFORMATION

## 1.1. PURPOSE OF THE MANUAL

This manual is an integral part of the SPORT unit and was written by the manufacturer in its original language (Italian) to provide all the information needed for an adequate and safe use of the drive unit and the HMI unit throughout their life cycle (from transport, delivery, installation, use and maintenance to disposal).

Before carrying out any operation, the users and technicians must read the instructions and strictly adhere to them. In case of doubt about the correct interpretation of the instructions, please contact the manufacturer for any necessary clarification. Only by observing the following can the regular operation of the unit be assured over time and the onset of dangerous situations can be avoided for people and property. The manual provides warnings and indications regarding safety regulations for the prevention of accidents. In any case, the safety regulations imposed on them by the regulations in force must be observed with the utmost care by the operators. Any amendments to the safety regulations that may take place over time must be acknowledged and implemented.



**WARNING:** Please read this manual carefully before installing and operating the unit.

OLY eBIKE System, with a view to continuous improvement, could change some characteristics of the components used without prior notice. This does not affect the validity of the information in this document. If there are any inconsistencies between what is described in the manual and the use of the machine, please notify the manufacturer.



**IMPORTANT:** The updated copy of this manual is available on the website [www.olieds.com](http://www.olieds.com).

## 1.2. STORAGE OF THE MANUAL

The installation, use and maintenance manual must accompany the unit throughout its life cycle and must be available to all operators and technicians who need it. The manual must accompany the unit if it is transferred to a new user or owner.

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## 1.3. MANUFACTURER

Our company is at your disposal for any problem or information. Communications and requests may be sent to:

*Oli eBike Systems*  
*Via delle pesche, 891 - 47522 Cesena - (FC) -ITALY*  
*Tel +39 / 0547 / 318322*  
*info@oli-ebike.com*  
*www.oli-ebike.com*

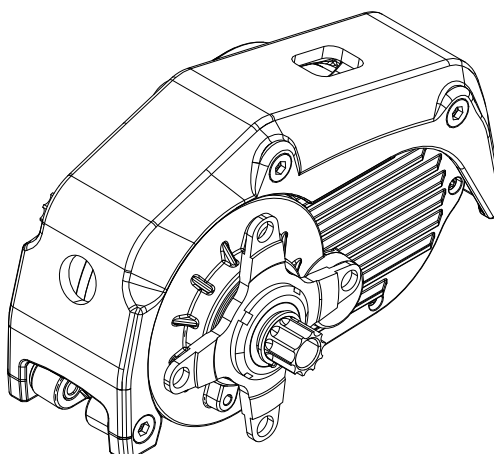
For any need concerning the use, maintenance or request for spare parts, please specify the identification data of the unit shown on the manufacturer's plate.

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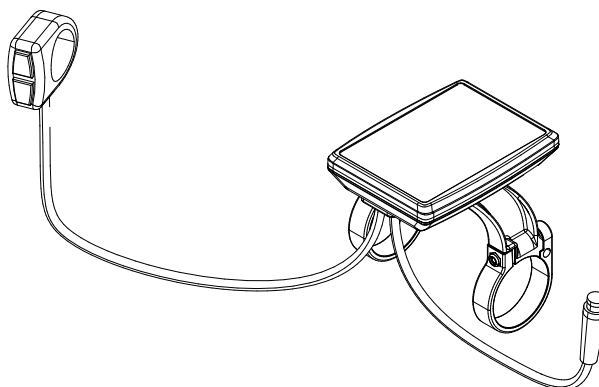
## 1.4. DESCRIPTION

The SPORT unit consists of the following components:

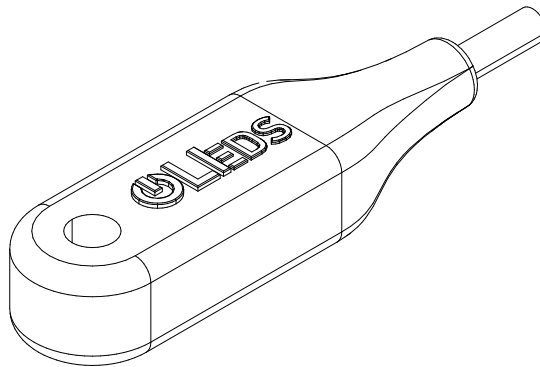
### 1. Drive unit



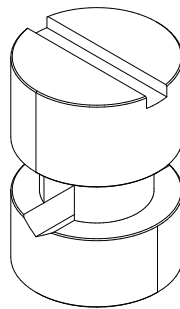
### 2. Display and control panel



## 3. Speed Sensor



## 4. Speed sensor magnet



**WARNING:** The drive unit is intended exclusively for use as an e-bike engine. Uses other than the uses intended that are not compliant with what is described in this manual, besides being considered misuse and prohibited, can create dangerous conditions for people and property.



**IMPORTANT:** The manufacturer declines all responsibility for non-compliance with these regulations.

## 1.5. CERTIFICATION

The SPORT unit was built in compliance with the relevant EU Directives applicable at the time of its introduction to the market, as specified in the declaration of conformity, therefore it meets the safety requirements required by the machinery directive 2006/42/EC.

Specifically, the following standards were applied:

- UNI EN 15194:2018 - CEI EN 61000-4-2:2011-04 - CEI EN 55012:2009-03 - CEI EN 55012/A1:2010-05 - ISO 11451-1:2015

All the products described in this manual have been manufactured according to the operating procedures defined by the OLI eBike Quality System of the OLI@spa Division. The company Quality System, certified in compliance with the UNI EN ISO 9001 Standard, is able to ensure that the entire production process, from the formulation of the order through to the post-delivery technical service, is carried out in a controlled and suitable manner to guarantee the product quality standard.

---

## 1.6. WARRANTY

The SPORT unit is covered by a warranty on the materials for a period of 36 months from the date shown on the transport document. The buyer loses the right to the warranty in the event of incorrect installation or use or when they have made changes or repairs to the supply without the authorisation of the manufacturer. Upon receipt of the product, the recipient must check that there are no defects, damage deriving from transport and/or missing items in the supply. Any complaints must be immediately notified to the manufacturer in writing and countersigned by the carrier. Labour services such as sending a technician are excluded from the warranty. Under no circumstances can compensation be claimed for damages. For further clarifications on the warranty assistance conditions, refer to the sales contract.

**IMPORTANT:** Products sent for repair under warranty must be returned with prepaid transportation to the manufacturer's factory.



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## 1.7. TECHNICAL ASSISTANCE

Ordinary and extraordinary maintenance must take place in accordance with the instructions contained in this manual. For any cases not included and for any kind of assistance, it is recommended to contact the manufacturer directly, referring to the data reported on the identification plate of the unit.

- › model;
- › serial number;
- › year of manufacture.

The correct reference guarantees quick and precise answers.

**IMPORTANT:** The manufacturer declines all responsibility for damage to persons or property resulting from improper use of the equipment, from errors in installation and use or from inexperience, imprudence and negligence with respect to the indications/instructions given in this manual.



**IMPORTANT:** The manufacturer declines all responsibility for damage to persons or property, as well as to the malfunctioning of the unit if original spare parts and the recommended cleaning and maintenance products are not used.



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## 1.8. TRANSPORT, PACKAGING AND STORAGE

The drive unit and the HMI unit are supplied with dedicated packaging that prevents damage due to transport.

Upon receipt of the goods, the customer must check if the model and quantity received match the data on the order confirmation.

The components must be stored indoors in dry environments, protected from atmospheric agents and at temperatures above -10°C.

**IMPORTANT:** It is the responsibility of the installer to properly dispose of the packaging in compliance with the applicable laws in force.





1.9. IDENTIFICATION OF THE DRIVE UNIT

The identification of the drive unit takes place via the manufacturer's plate. The plate includes the following information.

- A. Model
- B. Internal code OLI eds
- C. Serial number



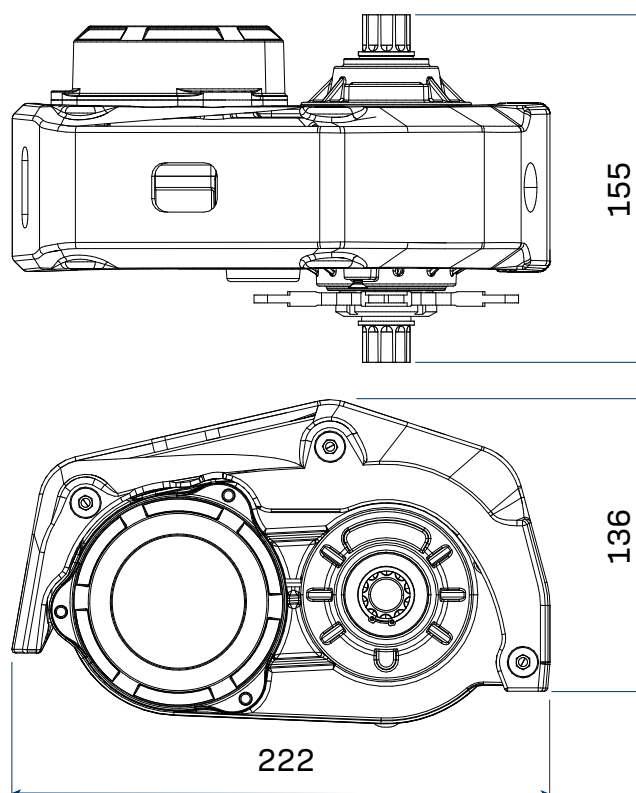
**IMPORTANT:** The identification plate must never be removed.

1.10. TECHNICAL DATA

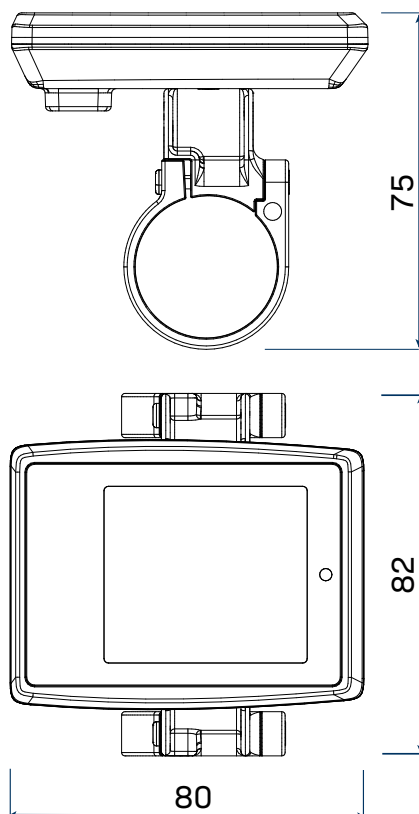
Drive unit	
Rated power	250 W
Max. Torque	83 Nm
Rated tension	36 V
Operating temperature	-5°C / 40°C
Storage temperature	-10°C / 50°C
Degree of protection	IP 54
Weight	3.5 Kg
Insulation class	F
HMI unit	
Display type	Dot matrix LCD
Operating temperature	-5°C / 40°C
Storage temperature	-10°C / 50°C
Degree of protection	IP 54

## 1.11. SIZE AND DIMENSIONS

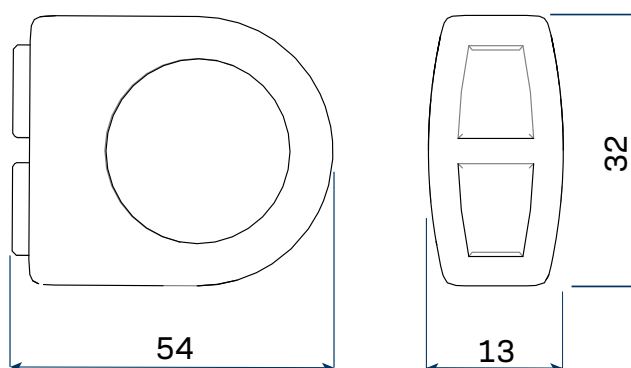
### 1. Drive unit



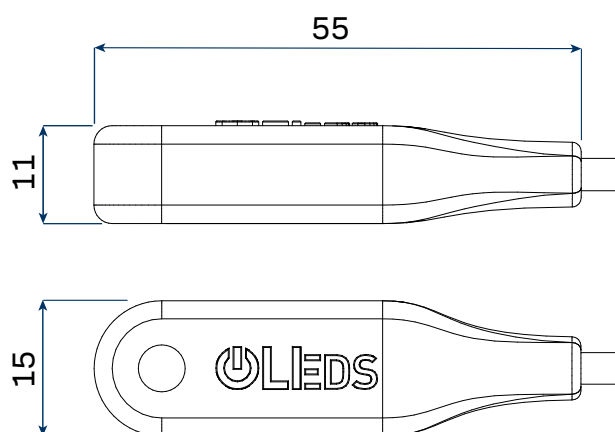
### 2. Display



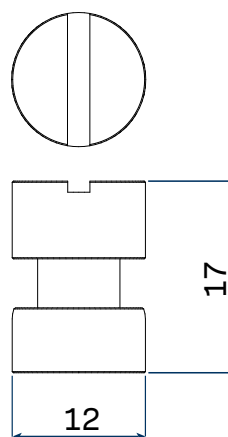
## 3. Control panel;



## 4. Speed Sensor



## 5. Speed sensor magnet

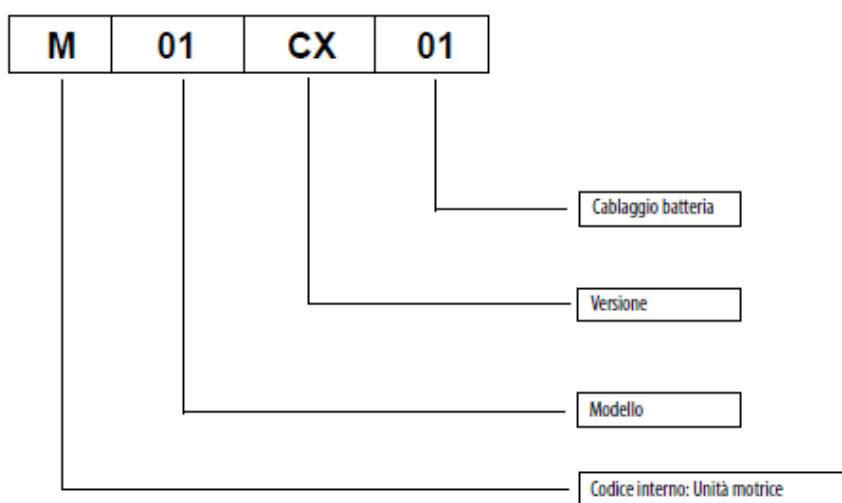


## 1.12. DECLARATION OF CONFORMITY

The unit complies with the laws in force. Furthermore, since these are products with a strong technical and regulatory evolution, OLI eBike System reserves the right to update its products as quickly as possible due to new technological knowledge and the applicable official standards (UNI, EN, ISO) that may become available from time to time.


**OLI<sup>®</sup> SPA**

Via Canalazzo, 35 - 41036 Medolla (MO) - ITALY

**Dichiara che,  
la famiglia delle unità motrici:**


numero di serie :

<b>YY</b>	<b>EDS</b>	.....
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N° progressivo (1...999999).

Anno (2017, ....)

**è conforme alle direttive elencate nelle seguenti dichiarazioni**

### **DICHIARAZIONE DI CONFORMITÀ CE**

con i requisiti delle direttive comunitarie e successive modifiche.

**La conformità è stata verificata sulla base dei requisiti delle norme o dei documenti normativi riportati di seguito:**

- UNI EN 15194:2018 - CEI EN 61000-4-2:2011-04 - CEI EN 55012:2009-03 - CEI EN 55012/A1:2010-05 - ISO 11451-1:2015

# CE

Medolla 5/06/2017

 Giorgio Gavioli  
(il Legale Rappresentante)

# 2. INSTALLATION.

## 2.1. SYMBOLS AND TERMINOLOGY

Below are the symbols used in the manual and what they mean.

Pictogram	Description
	HEXAGONAL MALE KEY
	PHILLIPS SCREWDRIVER
	SCREWDRIVER FOR SLOTTED SCREWS
	SLOTTED SCREWS
	HEXAGONAL OPEN KEY
	RING NUT KEY
	TIGHTENING TORQUE TO APPLY

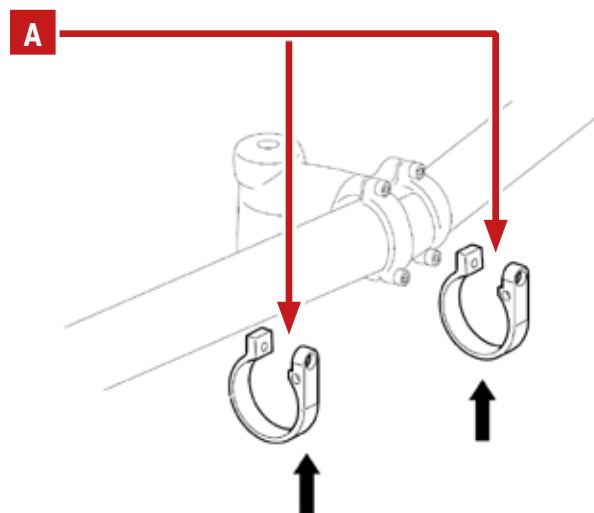


**IMPORTANT:** Wear appropriate clothing and personal protective equipment appropriate to the work to be performed.

## 2.2. INSTALLATION OF THE HMI UNIT

### 2.2.1. Display

Insert the display support rings **A** on the handlebar.



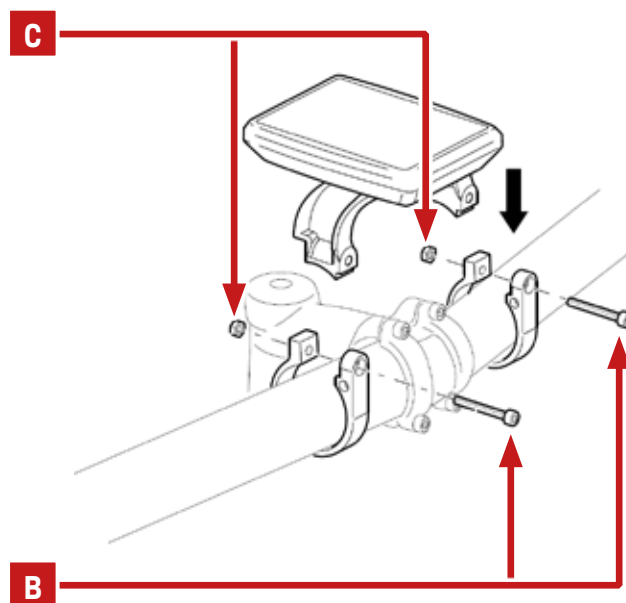
Position the display on the supports carefully at the angle (15° - 35° in relation to the horizontal plane) and tighten the fixing screws **B** with the two nuts **C**



2.5

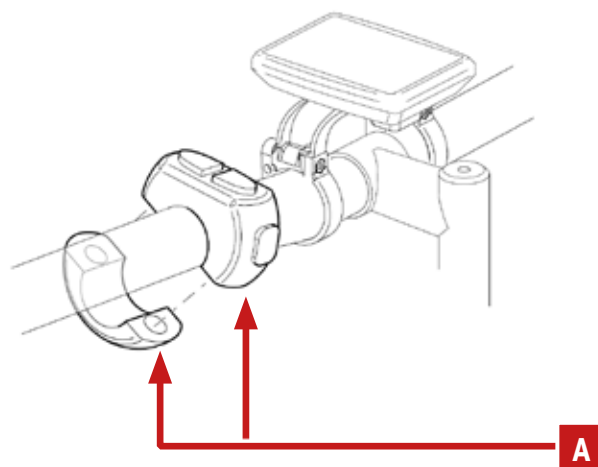


1.5 - 3 Nm

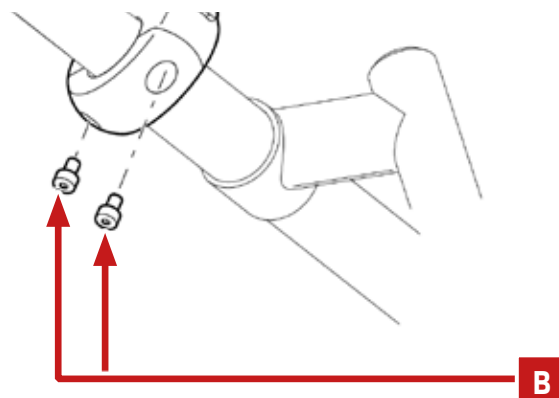


### 2.2.2. Control panel;

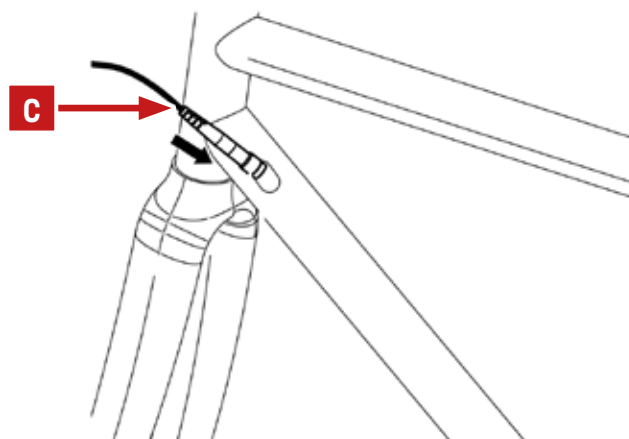
Position the keypad **A** paying attention to the angle (15° - 35° in relation to the horizontal plane) so as to allow the user to operate it comfortably during motion.



Tighten the fixing screws **B**

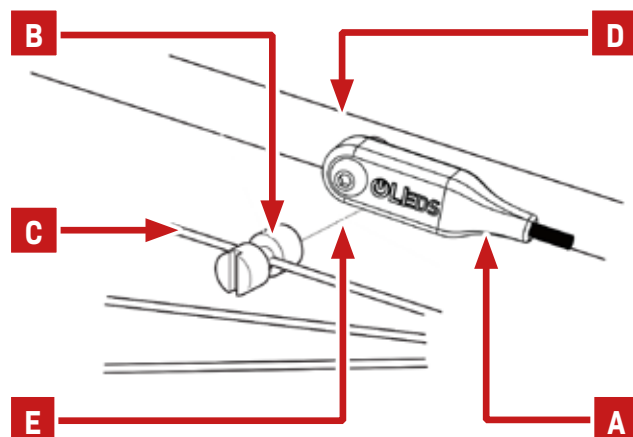


Insert the display cable **C** into the frame to be able to connect it to the drive unit later.



### 2.2.3. Speed sensor installation

- A.** speed sensor
- B.** magnet
- C.** wheel radius
- D.** bicycle frame
- E.** magnet-speed sensor distance



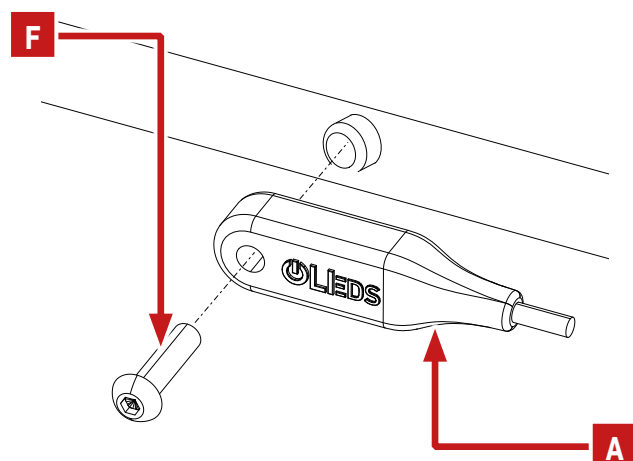
Fix the speed sensor **A** to the frame using an M5x12 screw **F**.



4



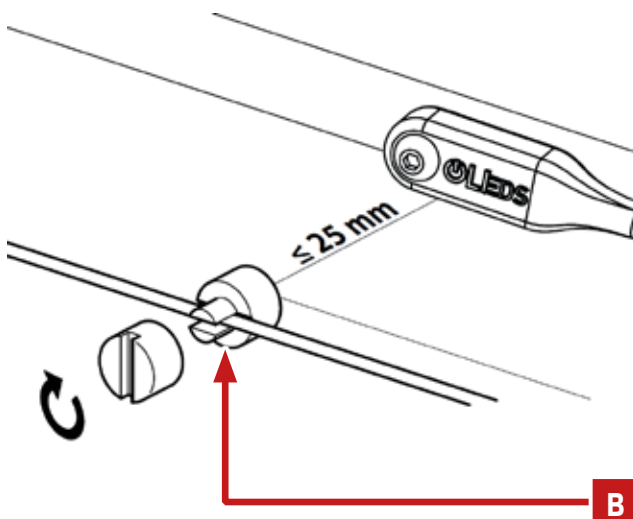
1.5 - 3 Nm



Secure the magnet **B**  
The distance of the magnet from the sensor must be 25 mm.



1.5 - 2 Nm



**WARNING:** If the distance between the speed sensor and the magnet is greater than 25 mm, insert a shimming bushing (supplied) between the frame and the sensor.

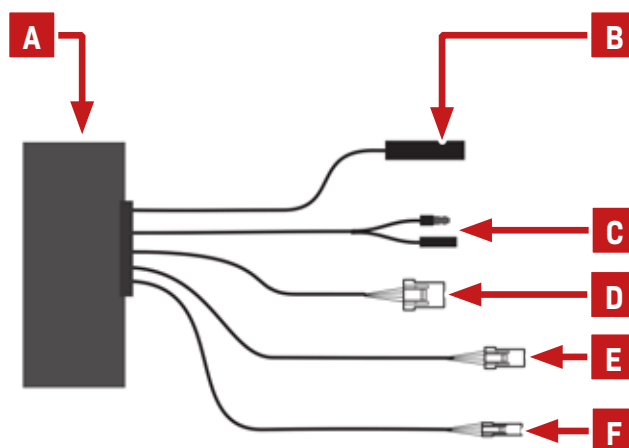




## 2.3. IDENTIFICATION OF THE DRIVE UNIT

### 2.3.1. Connection diagram

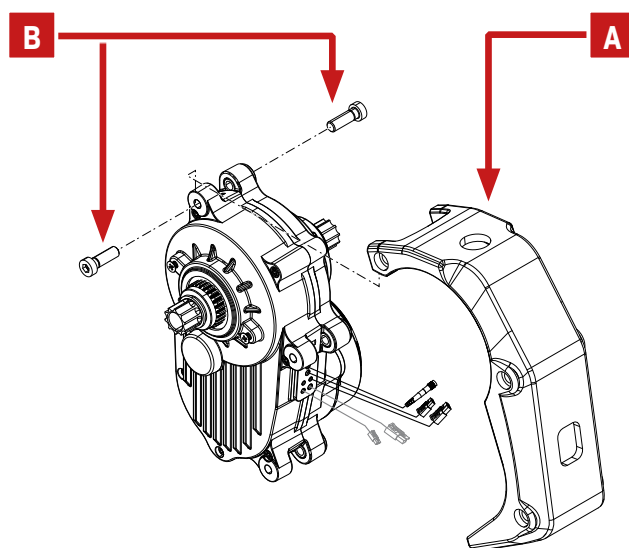
- A.** drive unit
- B.** display cable
- C.** battery cable
- D.** battery cable
- E.** speed sensor cable
- F.** lights cable



### 2.3.2. Assembly of the drive unit

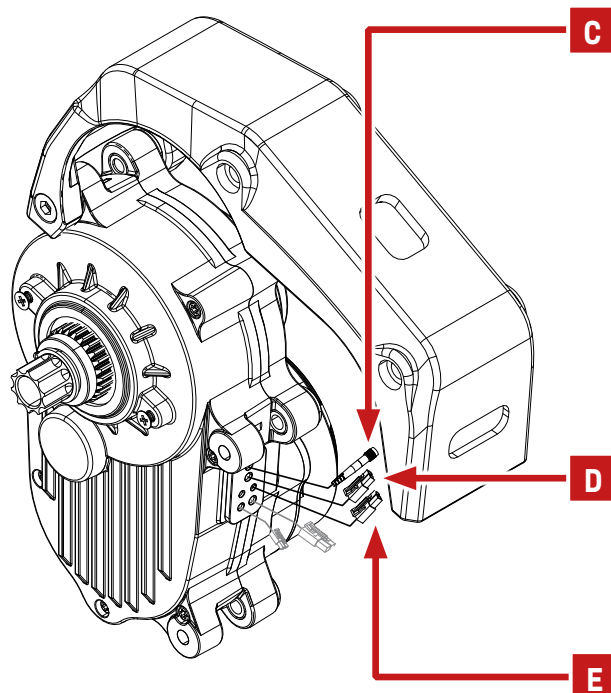
Position the drive unit in correspondence with the interface of the frame **A**

Insert the M8x25 screws **B** in the connections on the right and left, without tightening them.



Connect the following cables:

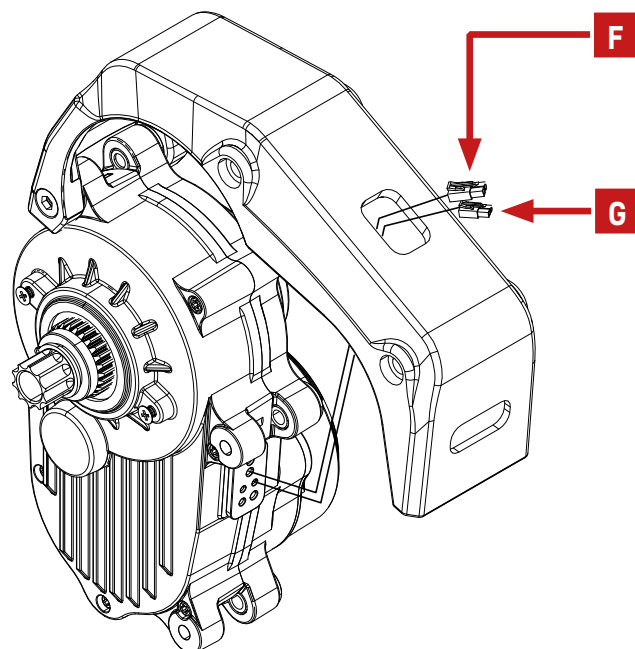
- display **C**
- speed sensor **D**
- lighting system **E** (if provided for by the installation).



**WARNING:** During assembly, check that no cables are blocked between the motor and the interface.

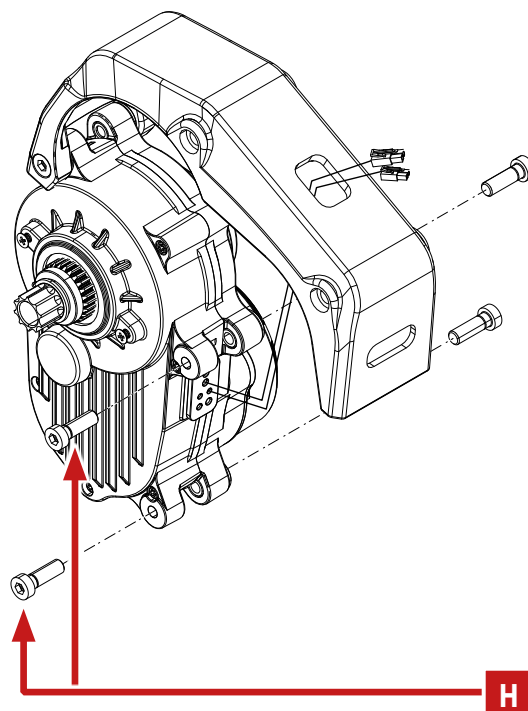


Insert the cables to be connected to the battery **F** and **G** in the hole in the interface of the frame.



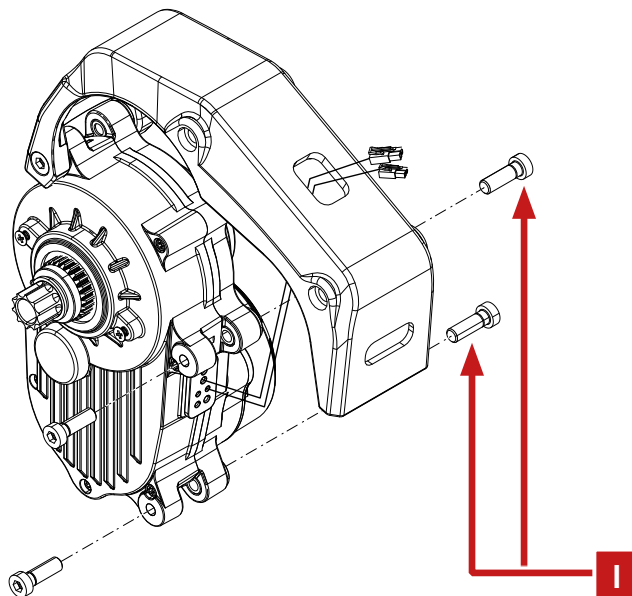
Lift the drive unit until it reaches its final position.

Insert the M8x25 screws **H** on the right side without tightening them.



**IMPORTANT:** To optimize the assembly, it is necessary to first insert the screws on the right side of the drive unit.

Insert the M8x25 screws **I** on the left side without tightening them.



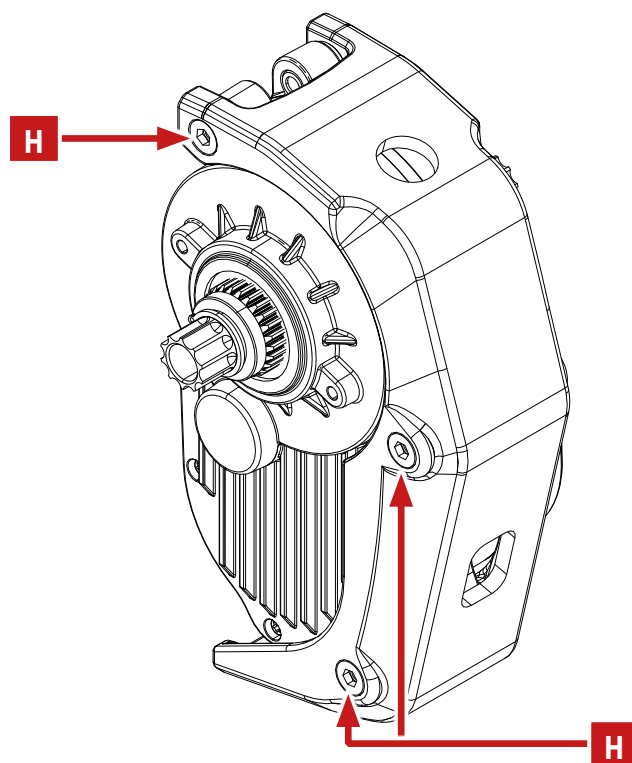
Tighten the screws **H** on the right side.



8



10 Nm



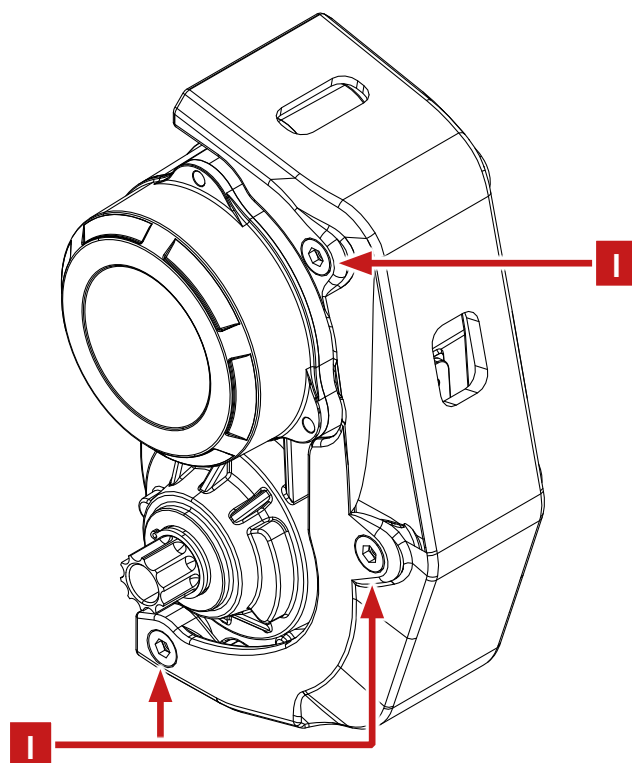
Tighten the screws **I** on the left side.



8

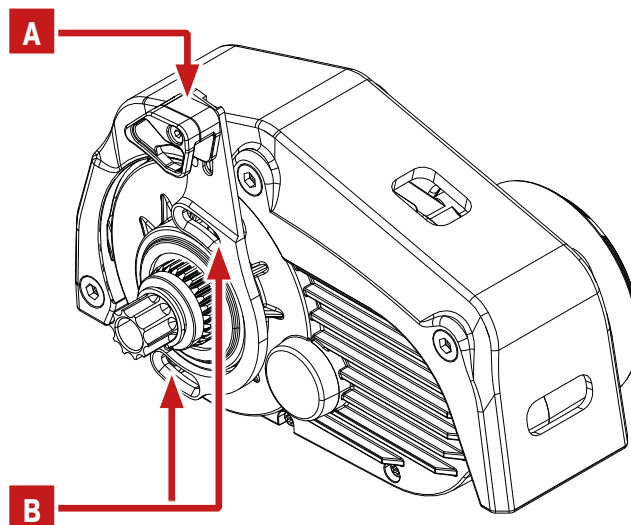


10 Nm

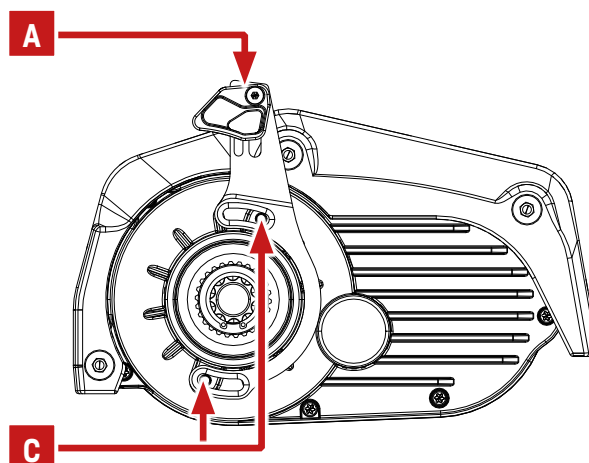


### 2.3.3. Chain guide assembly (optional)

Position the chain guide **A** so that the fixing slots are in correspondence with the threaded holes **B** present in the drive unit.



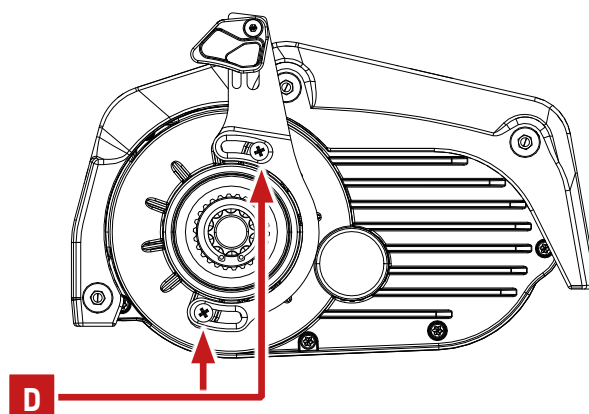
If necessary, optimize the angle of the chain guide **A** in relation to the assembly position of the drive unit using the adjustment slots **C**.



Secure the chain guide to the drive unit using the screws **D**.



3-5 Nm



### 2.3.4. Spider and crank installation

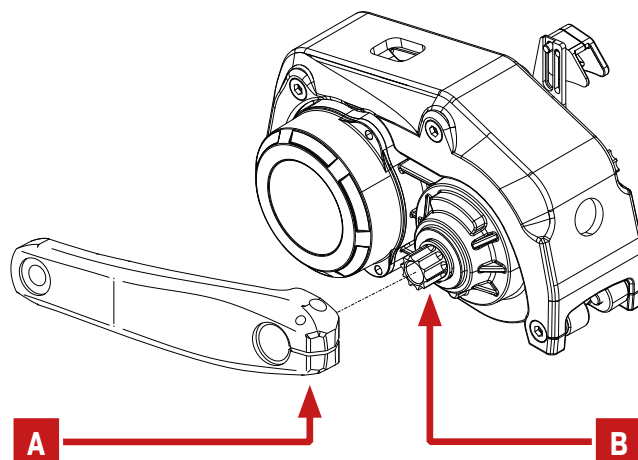
Engage the crank arm **A** (left side) on the shaft **B** and tighten.



8



Refer to the manufacturer's specifications.



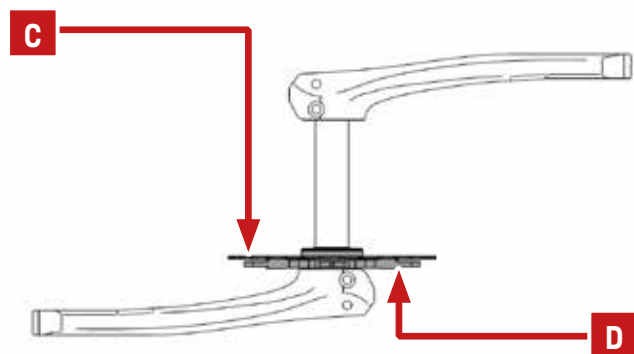
### Crown installation

The crown can be installed on the inner or outer side of the spider, according to the rear carriage stop.

Standard chain line

**C.** crown

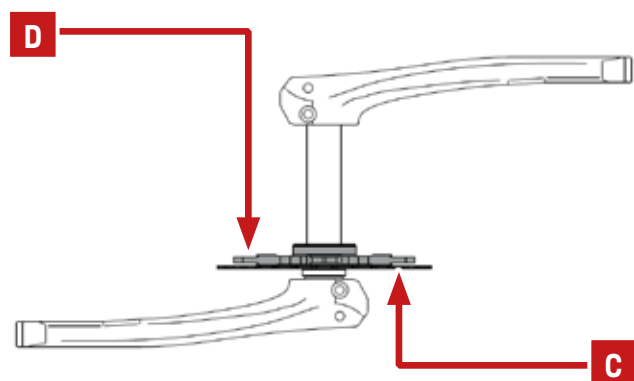
**D.** spider



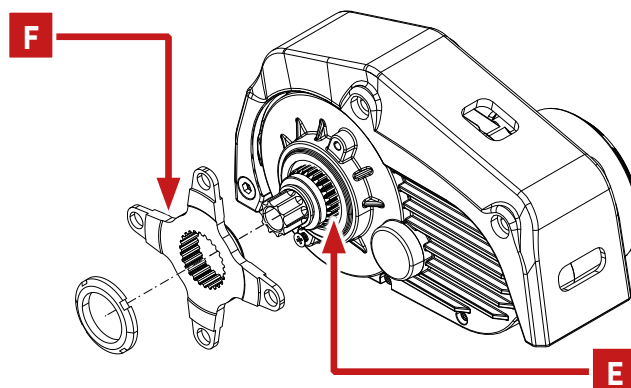
Boost chain line

**C.** crown

**D.** spider



Lubricate the coupling of the spider **E** and then engage the spider **F** (right side).



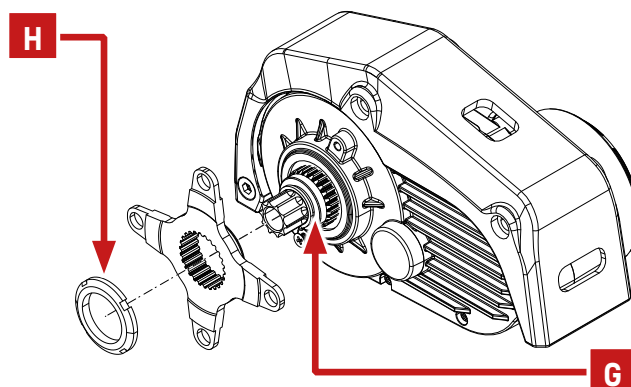
Lubricate the thread **G** and then tighten the fixing ring **H**



KM30



25 Nm



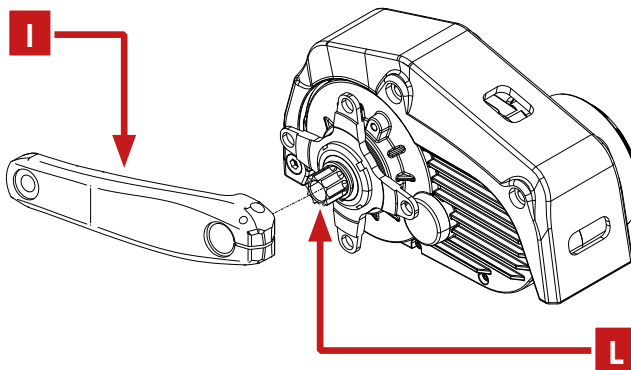
Engage the crank arm **I** (right side) on the shaft **L** and tighten.



8

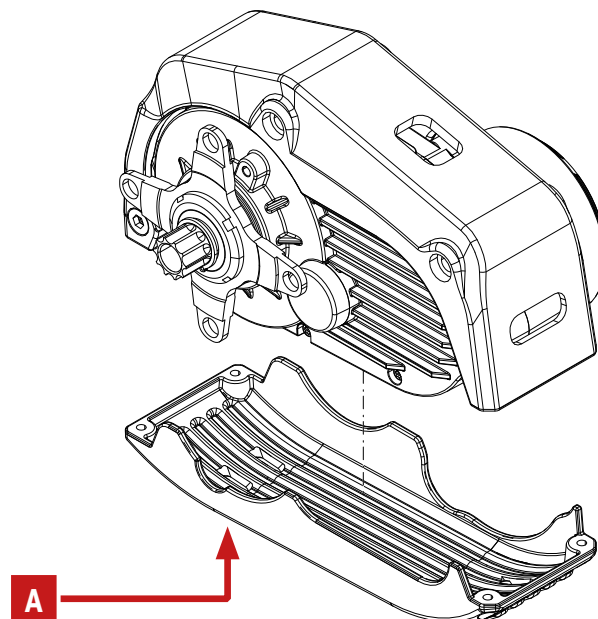


Refer to the manufacturer's specifications.



### 2.3.5. Engine mount assembly (optional)

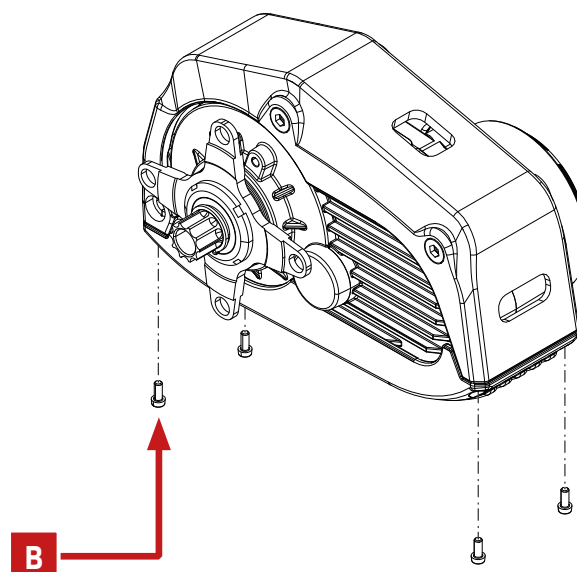
Position the paramotor **A** so that the fixing holes are in correspondence with the threaded holes in the frame of the bicycle.



Tighten the four fixing screws **B**



3-5 Nm



## 2.4. RESIDUAL RISKS

**IMPORTANT:** Despite all the measures taken, the unit installation operations present some residual risks the elimination of which is not compatible with correctly meeting the objectives. Therefore operators must always use personal protective equipment.



**IMPORTANT:** The customer is required to perform a risk analysis based on the work to be performed, the place of installation and the surrounding environment.





## 3. USE AND MAINTENANCE MANUAL

### 3.1. SAFETY STANDARDS

In order to minimise the causes that can create hazardous situations for users and others, we encourage you to adopt good rules of behaviour. Particularly when using the bicycle, it is good practice to respect the following points:

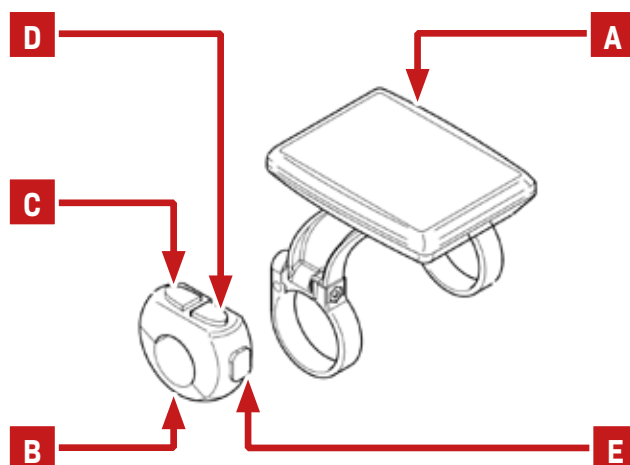
- › consult your doctor before starting a training program;
- › observe the traffic regulations relating to pedal assisted bicycles;
- › don't get distracted by looking at the display when you are riding the bicycle;
- › do not use the display as a handle;
- › only use the HMI unit and the control panel supplied;
- › remove the battery before performing any type of operation.



**IMPORTANT:** The Manufacturer declines all responsibility in the event of damage to persons or things due to improper use of the unit or failure to follow the instructions given in the use and maintenance manual.

### 3.2. DESCRIPTION OF THE HMI UNIT

- A. Display
- B. Control panel;
- C. ON Key
- D. DOWN Key
- E. MODE Key



This manual uses the following conventions:

- › Long press: > 2s
- › Short press: <1s

---

### 3.3. TURNING ON AND OFF

To turn on the system, press the MODE key briefly. To turn off the system, press and hold the MODE key.

If the e-bike is not used for 5 minutes, the system will automatically turn off.

---

### 3.4. ASSISTANCE ACTIVATION AND DEACTIVATION

The drive unit is activated as soon as the pedalling is started and it is deactivated immediately when the pedal stops.

The power supplied by the motor depends on the force applied to the pedals according to a multiplicative factor that derives from the level of assistance chosen. For more information on setting the assistance level, refer to the "Setting the assistance level" paragraph.

---

### 3.5. SETTING THE ASSISTANCE LEVEL

The assistance level can be chosen from any display screen.

Press the UP key briefly to increase the level, and DOWN to decrease the level.

The table shows the multiplicative factor for each level of assistance.

Level	Multiplicative factor
0	0% (motor not active)
1	50%
2	100%
3	200%
4	300%
5	400%

---

### 3.6. ON-BOARD COMPUTER MODE

The on-board computer is able to manage different modes of use of the e-bike, from commuting to sports use.

To cycle through the available modes, briefly press the MODE key.

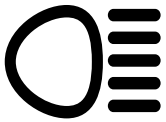
## 3.6.1. "CITY" Mode

**A. Lights status indicator:** The activation of the backlighting of the display and of the e-bike lights (depending on the equipment) includes three different modes:

- › **Automatic turn on:** It is turned on automatically if the twilight sensor built into the HMI detects insufficient light level. The following icon is displayed.



- › **Always on:** The backlighting of the display and the e-bike lights are always active. The following icon is displayed.



- › **Always off:** The display backlighting and e-bike lights are turned off. No icon is displayed. To change the operating mode of the lights, go to any data display screen and press and hold the UP key.

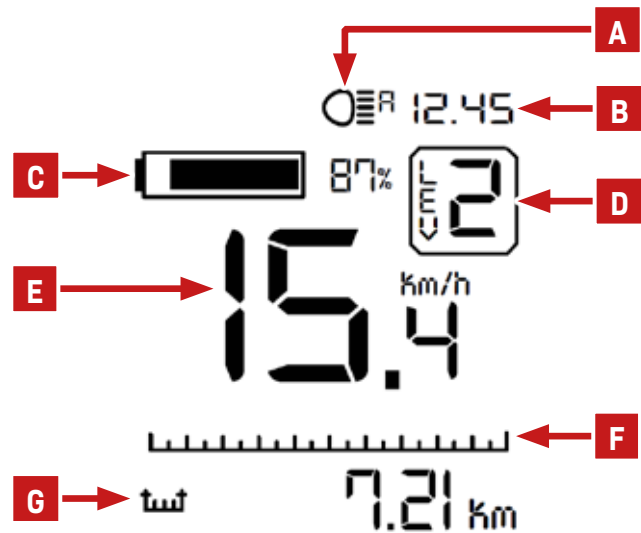
**B. Clock:** Displays the current time. To set the time, refer to the "Main menu" paragraph.

**C. Remaining charge indicator:** Allows you to know the state of charge of the battery. Depending on the layout, the textual indicator can predict the state of charge (%) or the battery voltage.

**D. Assistance level:** Indicates the selected assistance level. For more information on assistance levels, refer to the "Setting the assistance level" paragraph.

**E. Instantaneous speed:** Displays the current speed of the e-bike in km/h.

**F. motor power indicator:** Displays the power delivered by the motor.



**G. Dynamic indicator:** The dynamic indicator is a field that can display different types of information. A short press of the MODE key allows you to change the data displayed. The information available is as follows:


- › **Lap distance:** Indicates the distance travelled since the last trip data reset.

 7.21 km

- › **Lap time:** Indicates the time spent in motion since the last trip data reset.

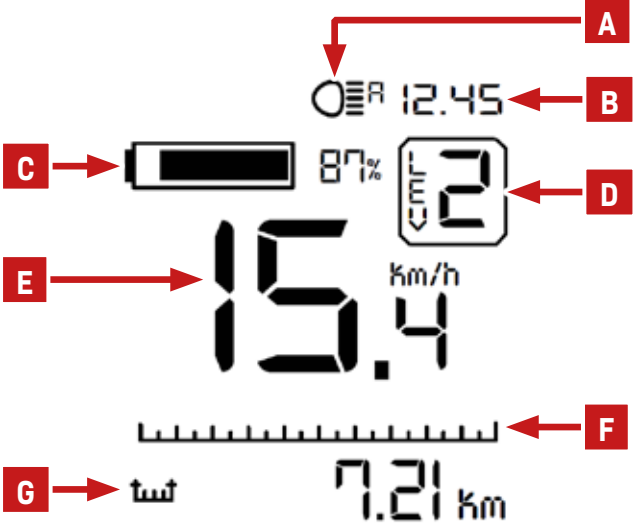
 0.29.17

- › **Frequency:** Indicates the instantaneous speed (rotation speed of the pedals).

 0 rpm

- › **Cyclist energy:** Indicates the energy consumed by the cyclist since the last trip data reset.

 493 kcal

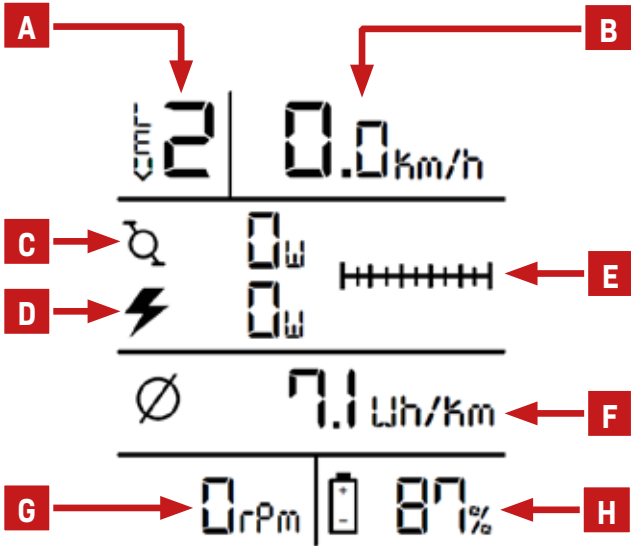


3.6.2. “RACE” Mode



**IMPORTANT:** This mode is intended for experienced users and for sports use of the e-bike.

- A. Support level:** Indicates the selected assistance level. For more information on assistance levels, refer to the “Setting the assistance level” paragraph.
- B. Instantaneous speed:** Displays the current speed of the e-bike in km/h
- C. Instantaneous power of the cyclist:** Indicates the instantaneous power expressed by the cyclist in Watts. There is a power meter built into the motor with a precision equal to the very expensive models installed on bicycles by advanced amateurs and professionals.
- D. motor power:** Indicates the instantaneous power delivered by the motor in Watts.
- E. Graphic power display:** Graphic display of the cyclist's power (upper bar) and of the motor (lower bar).
- F. Average consumption in WhxKm:** This data is extremely useful as we can know the average consumption per Km instant by instant. This allows us to adjust the level and therefore the consumption of the e-bike based on our needs and it will no longer suddenly end up without energy. By dividing the displayed value by the capacity of the battery, we will obtain the exact mileage data possible for each charge.
- G. Frequency:** Indicates the speed of rotation of the pedals, expressed in revolutions per minute.
- H. Remaining charge indicator:** Allows you to know the state of charge of the battery. Depending on the layout, the textual indicator can predict the state of charge (%) or the battery voltage.



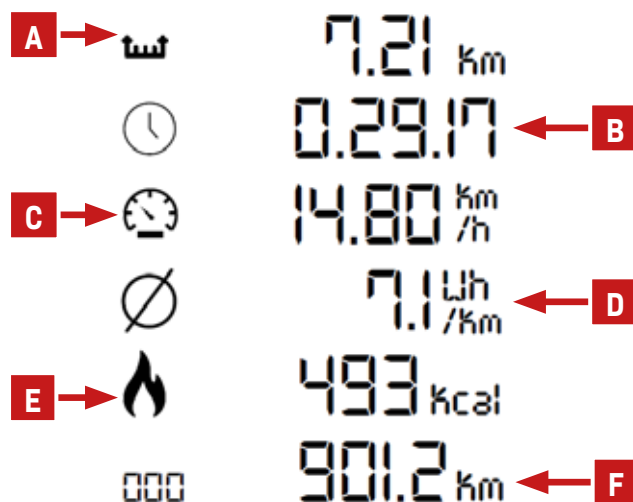
### 3.6.3. "SUMMARY" Mode:

In the Summary display mode, the main lap statistics calculated from the last reset are listed. The total distance travelled by the e-bike (data that cannot be reset) is also displayed.

**IMPORTANT:** Summary mode can only be viewed when the vehicle is stationary.



- A. Lap distance:** Distance travelled since the start of the lap.
- B. Lap time:** Time spent in motion since the beginning of the tour.
- C. Average speed:** Average speed detected since the start of the lap.
- D. Average consumption:** Average consumption recorded from the beginning of the lap in Wh/km.
- E. Cyclist energy:** Estimate of energy burned by the cyclist in kcal.
- F. Total distance:** Total distance covered by the e-bike in km.



## 3.7. WALKING ASSISTANCE

The system is equipped with a walk assistance function that allows the motor to be activated up to a maximum speed of 6 km/h to allow for easier handling of short sections by pushing the e-bike.

To activate the walk assistance function, press and hold the DOWN key.

The motor will be activated and the warning in the figure will be shown on the display.

The motor will deactivate in the following cases:

- › Release of the DOWN button;
- › Speed higher than 6 km/h;
- › Locking of the e-bike wheel.



Walk

**WARNING:** If the assistance level "0" is set, the motor is disabled and it is not possible to use the walking assistance function.



---

## 3.8. MENU

From any display screen, it is possible to access the menu by simultaneously pressing the UP and DOWN keys simultaneously.

- › To scroll through the menu items, briefly press the UP and DOWN keys.
- › To select the highlighted option, briefly press the MODE key.
- › To exit the menu or cancel entering a value, press the UP and DOWN keys simultaneously or wait a few seconds without pressing any key.
- › To return to the previous screen select (in the screens that provide it) the “Back” item.

All the operations that can be set are listed below.

### 3.8.1. Main menu

#### Trip reset

---

Allows you to reset all lap data.

Select the Trip reset item. To confirm that the operation was successful, the warning “Trip...reset” appears on the display for a few seconds.



The image shows a digital display with the word 'MENU' at the top. Below it, a list of options is shown: 'Trip reset', 'Set clock', 'Advanced', 'System infos', 'Battery infos', and 'Back'. The 'Trip reset' option is highlighted with a black background and white text.

## Time setting

Select the item "clock set".



MENU

---

Trip reset  
**Set clock**  
Advanced  
System infos  
Battery infos  
Back

Use the UP and DOWN keys to increase or decrease the hours value.

Press the MODE key to confirm the set value and switch to minutes.

Use the UP and DOWN keys to increase or decrease the minutes value.

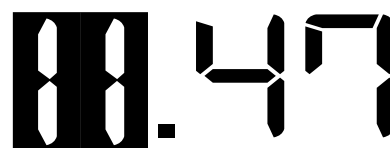
Press the MODE key to confirm and save the time.

Press and hold the UP and DOWN to activate the rapid increase/decrease mode of the selected value.



SET CLOCK

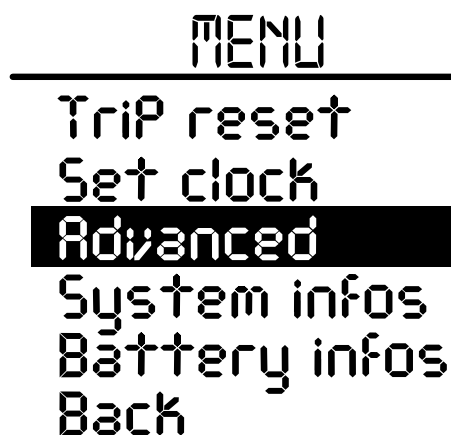
---



00.47

## Advanced

Allows access to the advanced settings menu. For more details, see the "Advanced Settings" paragraph.



MENU

---

Trip reset  
Set clock  
**Advanced**  
System infos  
Battery infos  
Back



---

### System info

---

Select the item "system info".

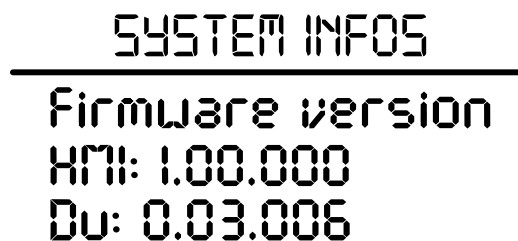


MENU

---

Trip reset  
Set clock  
Advanced  
**System infos**  
Battery infos  
Back

The display shows the firmware version of the HMI and drive unit.



SYSTEM INFOS

---

Firmware version  
HMI: 1.00.000  
Du: 0.03.006

## Battery info

**WARNING:** Depending on the equipment, some information may not be available.



Select the item "battery info".

```

      MENU
-----
Trip reset
Set clock
Advanced
System infos
Battery infos
Back

```

The battery status information is displayed in the display.

```

      BATTERY INFOS
-----
Pack voltage: 40.75V
Charge cycles: 31
Last charge: 168h
Battery temp.: 19.5C
Cell voltages:
  1: 4.011V      6: 4.025V
  2: 4.023V      7: 4.028V
  3: 4.023V      8: 4.025V
  4: 4.023V      9: 4.023V
  5: 4.023V     10: 4.020V

```

### 3.8.2. Advanced settings

#### Cancellation of errors

---

Select the item "Delete errors".

This operation allows you to reset all the stored error codes.

ADVANCED MENU

---

Clear errors

LCD contrast

Language

Diagnosis

Back



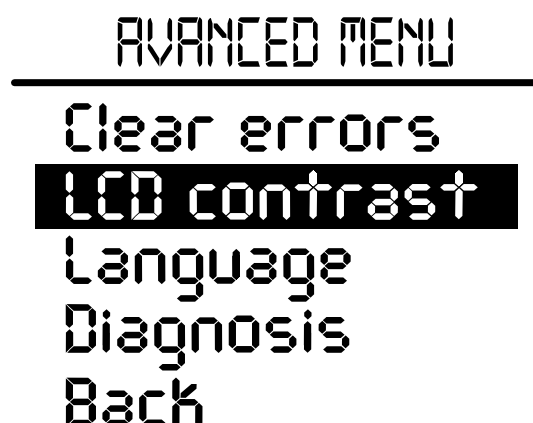
**WARNING:** If, after this operation, the error code is still displayed you must go to a service centre.

## LCD contrast

---

Select the item "LCD Contrast".

This operation allows you to set the LCD display contrast for maximum display quality.



The upper part of the display shows a character pattern that allows you to instantly evaluate the effect of changing the contrast. To set the value use the UP and DOWN keys. To confirm and store the set value press the MODE key.



## Language

Select the item "Language".  
This operation allows you to select the menu language.

### ADVANCED MENU

Clear errors  
LCD contrast  
Language  
Diagnosis  
Back

To scroll through the list of available languages use the UP and DOWN keys. To confirm and store the set language press the MODE key.

### LANGUAGE

Italiano  
English  
Français

## 3.9. ERROR MESSAGES

In the event of a fault, the system reports the problem to the user by displaying a danger icon together with a 4-character code that allows you to trace the type of error.



Error  
0104



**WARNING:** Depending on the type of fault, the system could prevent the motor from being activated or run at reduced power.

The following table lists the possible faults and the 4-character codes displayed in the error messages.

Error code	Description
0001	Communication problem with the battery. It is possible that the battery status data is displayed incorrectly. Check that the wiring and the battery contacts are correctly connected and intact.
0101	Communication problem between drive unit and HMI. Check that the wiring is correctly connected and intact.
0104	Speed sensor not detected. Check that the alignment between the magnet and the speed sensor is correct. Check that the speed sensor is installed and connected correctly.
0105	Torque meter signal not compliant. The torque meter signal has a fault. Low power operation.
0106	Torque meter offset not compliant. The torque meter signal has a fault.
0801	Faults in the motor rotation sensors.
0802	Faults in the pedals rotation sensors.
0804	Excessive controller temperature. The temperature sensor inside the controller has detected a temperature above the danger threshold.
0805	Excessive motor temperature. The motor has reached a temperature above the danger threshold.
0806	Peripheral bus voltage not compliant.
0808	Locked rotor. The motor failed to start due to a mechanical blockage or a problem with the internal wiring of the drive unit.
0809	The battery voltage is above the maximum voltage allowed.

Error code	Description
0810	Signal of the current sensor not compliant.
0811	The drive has detected an overcurrent.
1101	Communication problem between HMI and drive. Check that the wiring is correctly connected and intact.
1102	One key on the control panel is locked in the press position.

### 3.10. TROUBLESHOOTING

The following table lists the main problems that can be found and the possible solutions to be undertaken.

Problem	Cause/Solution
The system does not turn on.	Check that the battery is properly in place and is charged.
Assistance does not activate.	Check that the selected assistance level is greater than 0 and that the battery charge level is sufficient.
The display shows an error message.	The system has detected a fault. Depending on the type of fault, the motor could be deactivated or run at reduced power. For more details refer to the paragraph "Error messages".
The display glass is fogged up.	Due to sudden changes in the environmental conditions, condensation may form inside the glass. The condensation will disappear after temperature stabilisation.



**WARNING:** If, after this operation, the problem persists, you must go to a service centre.

---

## 3.11. CLEANING

Cleaning operations do not require dedicated products or tools. None of the components, including the drive unit, should be immersed in water or cleaned with a high pressure jet. To clean the motor and the HMI unit, only use a cloth dampened with water.

**WARNING:** Do not use aggressive products. Never use abrasive products or powders or base or acid chemical detergents.



**IMPORTANT:** The manufacturer declines all responsibility for damage caused by improper cleaning or resulting from the use of unsuitable products.



---

## 3.12. RETURNS

If the product is returned, if the original packaging has been preserved, re-use it for shipping. Otherwise, store the drive unit and/or display in a box, trying to protect them as well as possible from shocks resulting from transport.

---

## 3.13. DEMOLITION AND DISPOSAL

At the time of decommissioning and dismantling of the unit it is necessary to separate the plastic parts and the electrical components which are to be sent to the differentiated collection centres in compliance with the regulations in force. The metal parts must be subdivided to correctly send for recycling.

With reference to the WEEE Directive, the electrical and electronic components, marked with a special symbol, must be disposed of in authorised collection centres. Unauthorised disposal of "Waste Electrical and Electronic Equipment" (WEEE) is punishable by penalties governed by applicable laws.

Defective or rechargeable batteries/faulty or used batteries must be collected separately and sent for ecological reuse. Return the non-functioning HMI unit to an authorised e-bike dealership.

**IMPORTANT:** Demolition operations must be carried out by suitably trained personnel.





## 4. SPARE PARTS

### 4.1. HOW TO ORDER SPARE PARTS

OLI eBike Systems thanks to its logistical structure is able to minimize the delivery time of the spare parts. The manufacturer also guarantees quality and high performance for spare parts. Spare parts are subjected to numerous tests to ensure the same standards as the components initially installed on the product and have been developed and approved specifically for the drive unit and the HMI unit. To optimize the process of evasion of the spare parts, please specify the identification data of the unit shown on the manufacturer's plate. Communications and requests may be sent to:

*OLI eBike Systems*  
*Via delle pesche, 891 - 47522 Cesena - (FC) -ITALY*  
*Tel +39 / 0547 / 318322*  
*info@oli-ebike.com*  
*www.oli-ebike.com*



**WARNING:** Use only original spare parts. Adopting unapproved and untested components can cause malfunctions, breakages and create hazardous conditions.

### 4.2. SPARE PARTS AVAILABLE

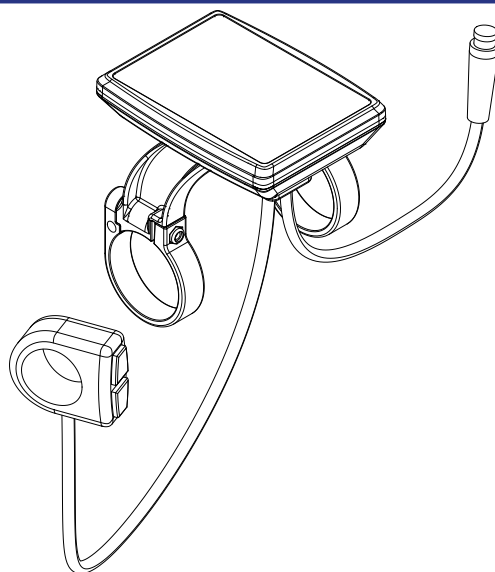
The following table summarizes the spare parts available for the drive unit and the HMI unit.

Code and Description	Spare part identification
EBKRV0001 Speed Sensor	

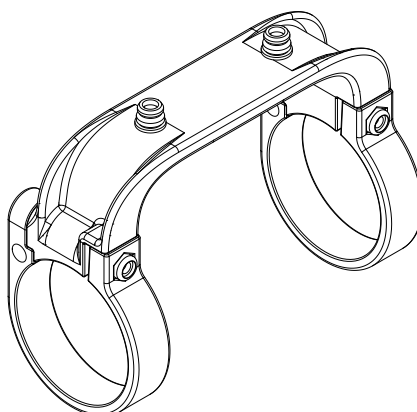
## Code and Description

## Spare part identification

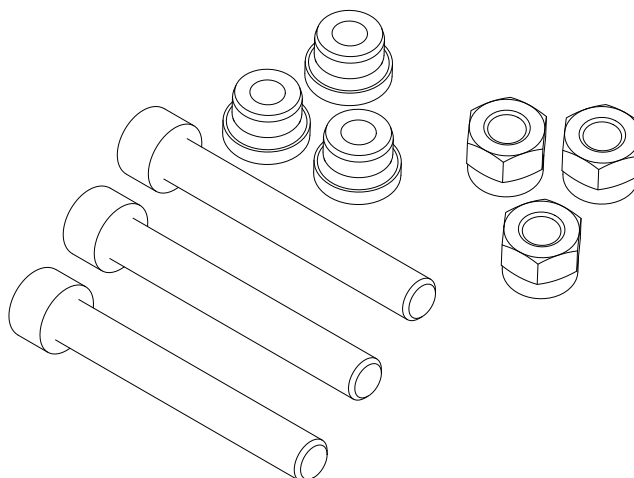
EBHMI0003  
Display

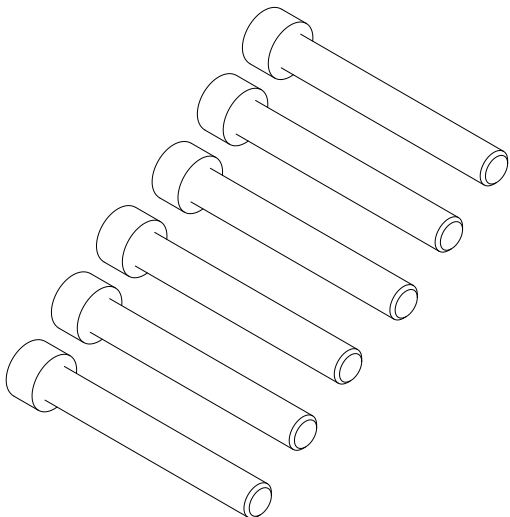
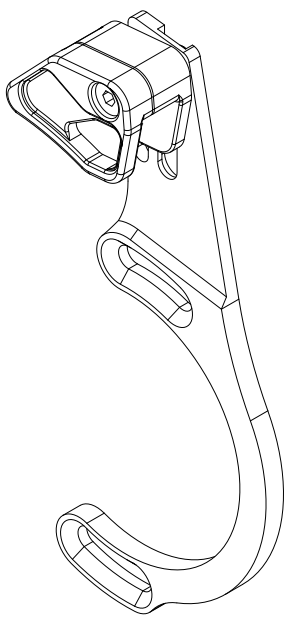
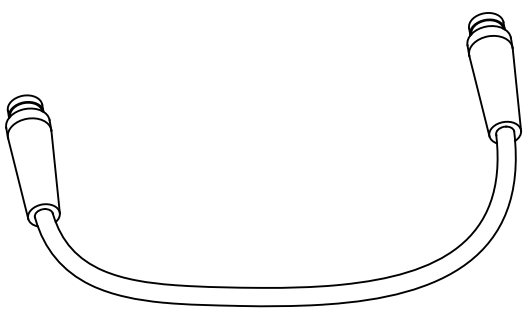


EBHMI000F  
Support for display



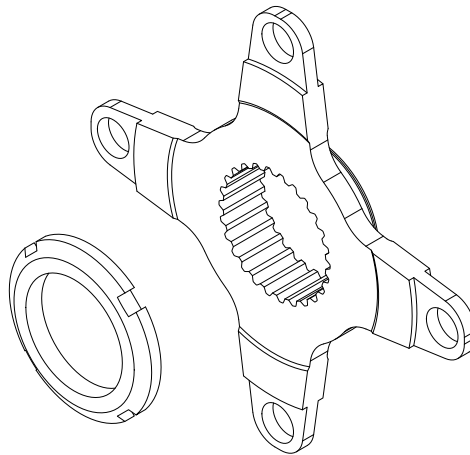
EBKRV000X  
Hardware for Move Plus



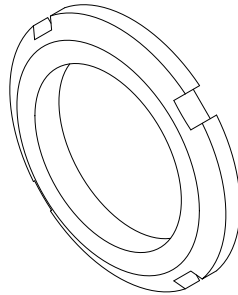
Code and Description	Spare part identification
EKR000Y Hardware for SPORT	
EBCG0001 Chain guide	
EBCE02001 Display extension cable	

**Code and Description****Spare part identification**

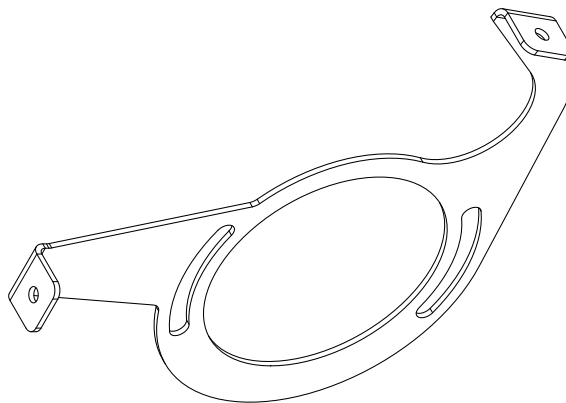
EBKRV0004  
Spider



EBSN0002  
Ring



EBCB0001  
Support for chain guard



EBMG0001  
Sport Paramotor

