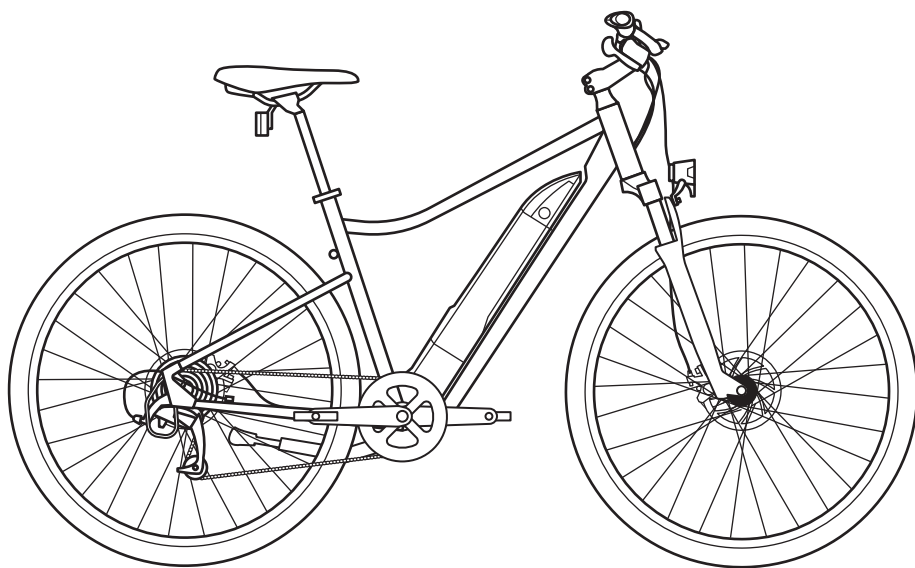


Date of last update : 16/01/2023

EN - User manual

RIVERSIDE 520E



DECATHLON



Dear Customers,

Thank you for purchasing a RIVERSIDE electrically-assisted bike.

We invite you to read the instruction manual to get the most out of your RIVERSIDE 520E bike.

Never forget that an electrically-assisted bike is not a moped. It needs your help to go further, faster and longer.

We suggest that you learn how to use your electrically-assisted bike in an open area in order to get used to the feel of the motor kicking in and thus ensure optimum control of your bicycle.

An electrically-assisted bike is heavier than a conventional bike (the weight of the RIVERSIDE 520E on its own is 22.5 kg). Without power assistance, pedalling can be more difficult.

You must always make sure you are capable of riding the entire journey without assistance, in case your battery runs flat.

Here is what you need to do to get the most out of your RIVERSIDE power-assisted bike.

Important, this instruction manual only applies to the electrical characteristics of your bicycle.

You should refer to the B'TWIN user manuals common to all our bicycles that accompany this document and are also available on our website www.decathlon.com or on request in our DECATHLON stores.

How to get the most from your PAB

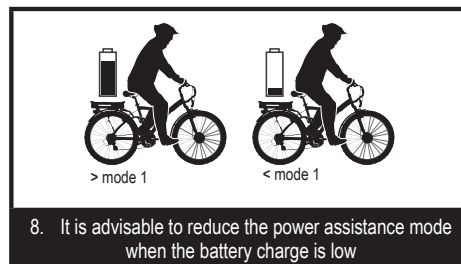
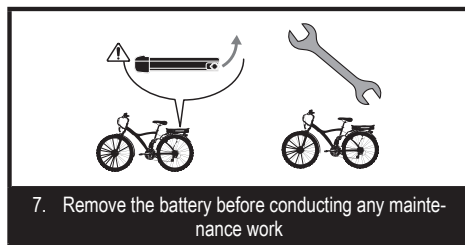
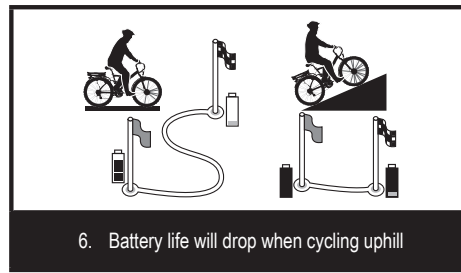
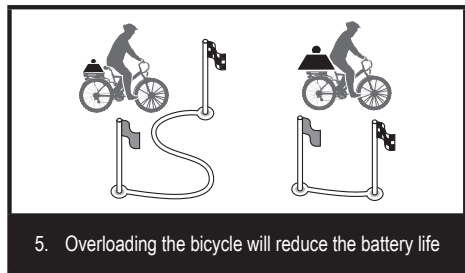
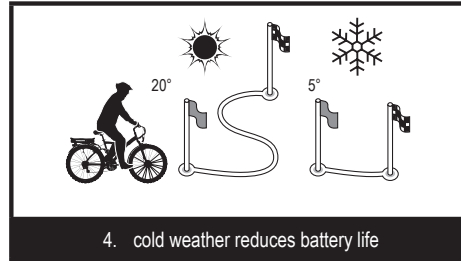
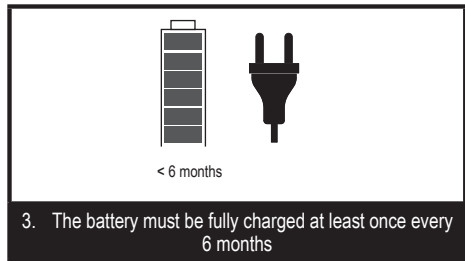
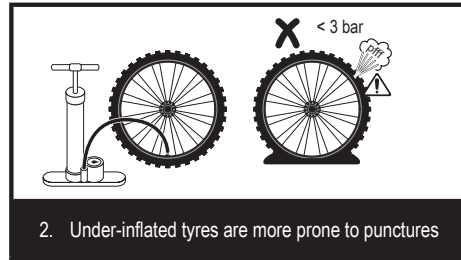
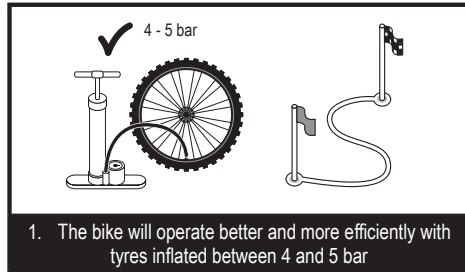


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PRODUCT DESCRIPTION

Electrically-assisted bike technical features



A Battery

B Battery lock handle and barrel

C Controller

D Control screen

E Cable from the control screen to the controller

F MOTOR

G Pedal housing with torque sensor

General operation of the electrical assistance

The power-assisted bike can be used with or without assistance by pressing the ON/OFF button or altering the modes 0-1-2-3. The 0-1-2-3 assist modes selectable from the «D» screen let you choose a power assist level in addition to the effort you provide yourself. Power assistance will only work if you are pedalling, with a mode selected other than 0. Assistance cuts off when the speed is above 25km/h. In case of intensive use and in exceptional climatic conditions, assistance may be cut off to safeguard the whole system.

The power supplied is calculated by the controller «C» according to your pedalling rate and the force applied to the pedals. According to the mode selected, the controller «C» sends more or less current to the motor «F» to provide you with the desired level of assistance

Power assistance does not activate or shuts down in the following situations:

The speed is above 25km/h

You're not pedalling

The remaining charge in the battery is not sufficient

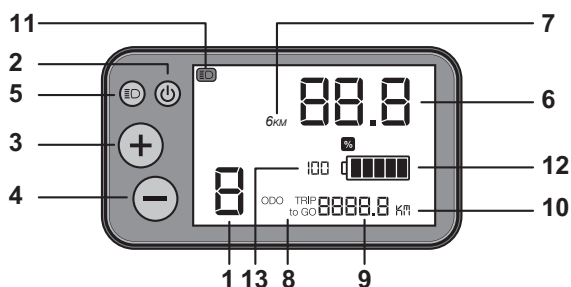
«0» is the power assistance mode selected




When the control screen is switched off











In case of intensive use and in exceptional climatic conditions, assistance may be cut off to safeguard the whole system

SCREEN AND CONTROL ELEMENTS

Screen data and function



1	<div>LEVEL</div> <div>0</div>	Assistance mode (0-1-2-3): «0» no assistance. «1» is the default assistance mode. Each mode corresponds to the maximum assistance speeds set out below:			
Mode		0	1	2	3
Maximum assistance speeds**		No assistance	+50% assistance	+100% assistance	+150% assistance
2		ON/OFF button: Switch the electrically-assisted bicycle on and off by holding the button down for a few seconds. Scroll through the route information (TRIP, ODO, TRIPtoGO) with a short press.			
3		«+» button: Step up to the higher power assistance mode by briefly pressing the button Switch to «walk assist» mode by holding the button down for a few seconds.			
4		«-» button: Switch to a lower power assistance mode by briefly pressing the button. Resetting the TRIP distance counter by a long press (5-10s)			

5		Lighting button Short press the power button to turn the front and rear lights, and display backlight, on and off. Go to the settings by holding the button down for a few seconds
6		Speed indicator**
7		«Walk assist» mode: For walking beside the bicycle in walk assist mode, up to 6 km/h, without pedalling. Please note that this mode should not be used when riding the bicycle
8		ODO: Records the total distance travelled. It cannot be reset to zero. TRIP: Records the partial distance travelled. TRIPtoGO: Remaining distance that may be covered with the power assistance mode.
9		Distance indicator
10		Units: kilometres or miles
11		Lighting indicator: Appears on the screen when the lights are on
12		Five battery levels. When the battery level is low, the indicator starts to flash.
13		Additional battery and system information: % Indicates the battery charge level as a percentage
		Setting : Hold the «Lighting» button down for a few seconds to enter or quit the settings Short press on the «+» or «-» buttons to select the desired setting. - Choice of units (km/h or mph) - SLEEP = Selecting the time before the screen goes to sleep (in minutes) (only available on certain screen versions)

MOTOR

The motor «F» of your power-assisted bike is a brushless-type motor with mechanical reduction, which means you can have high torque and less resistance (quieter motor). The A-weighted emission sound pressure level at the driver ears is less than 70 dB(A). Motor power is limited to 250 W maximum.

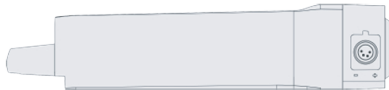

BATTERY AND CHARGER

Battery properties and warranty

All batteries in our electric bikes use Lithium-Ion cell technology and have no memory effect. (the battery can be recharged at any time; there's no need to wait until it's completely discharged).

Recharging the battery after each use is recommended.

Charge the battery to 100% prior to its first use.

Battery	Charger
<p>Battery 36 V / 14 Ah 504Wh</p> 	<p>Input: 100-240 V Output: 42 V</p> 




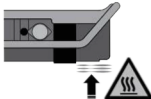








Your battery is guaranteed for 2 years or 500 charging and discharging cycles (1 cycle = 1 charge from 0% to 100% + 1 discharge from 100% to 0% or 1 cycle = 2 charges to 50%) subject to compliance with the proper conditions of use and storage. Never use a different charger to the one supplied by DECATHLON for this bike model. Use of another charger may damage the battery or cause serious incidents (sparks, outbreak of fire)

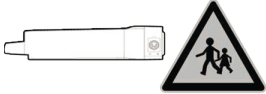

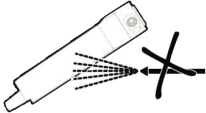

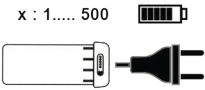

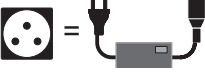




Battery life

The battery life of your electric bike depends on numerous factors:

- The weight on the bike: Overloading the bicycle will reduce the battery life (panniers, baby carrier etc).
- Use: Depending on the human input provided during pedalling, battery life will increase or decrease.
- The type of route ridden: Battery life will drop when cycling uphill.
- Tyre pressure: Battery life will be better with tyres inflated between 4 and 5 bar.
- Outside temperature: Cold weather reduces battery life.
- The mode of assistance used: It is advisable to reduce the power assistance mode when the battery charge is low.
- The selected transmission ratio: On steep slopes, it is advisable to choose the right gear to reduce the effort required from you and the motor.
- Complying with the proper conditions for charging and storing the battery: For a cyclist weighing 75kg, adhering to these best practices, and cycling in light wind using mode 1, the battery range of the RIVERSIDE 520E is estimated to be around 100km.

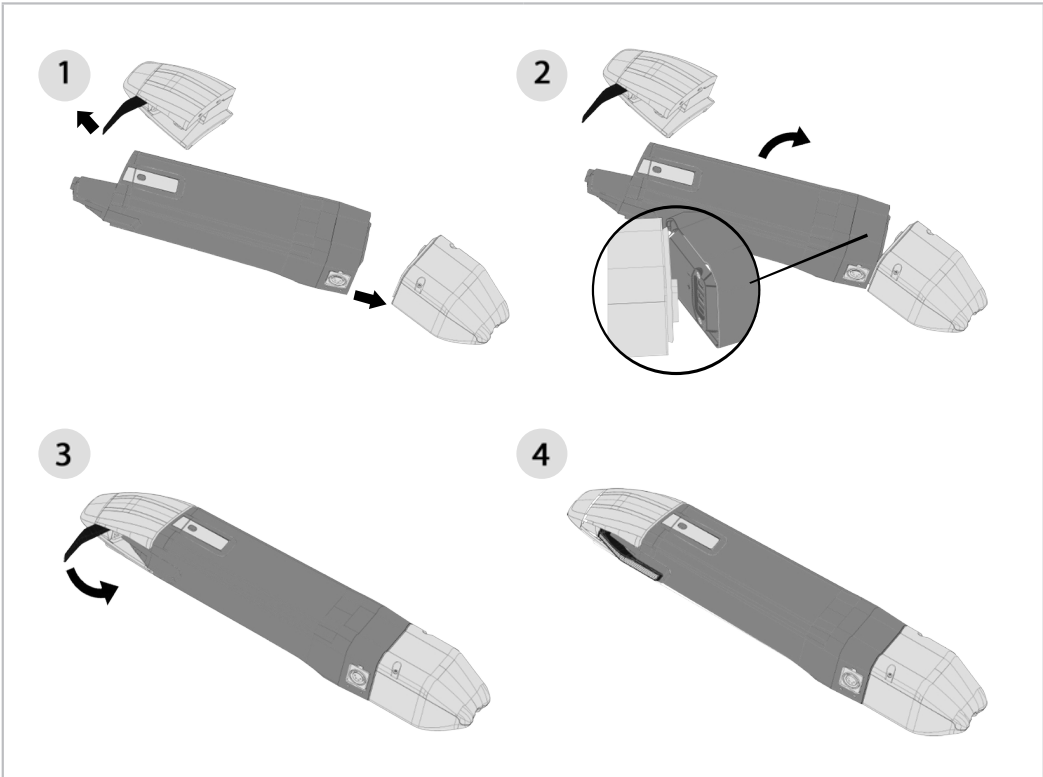
Precautions for use

 <div>+50°</div>	Do not expose to temperatures above 50°C. Outside this range, battery life will be affected.		
	< +10°C	+10°C / +50°C	> +50°C
 <div>+10°C +25°C</div>	Storage conditions: It is essential to store the battery charged and in a dry, cool place (between +10°C and +25°C), out of sunlight.		
	< +10°C	+10°C / +25°C	> +25°C
 <div>+10°C +40°C</div>	Charge your battery in a dry environment at a temperature of between +10°C and 40°C.		
	< +10°C	+10°C / +40°C	> +40°C
	Important: Under certain conditions, the controller, charger and mechanical brake discs may reach high temperatures.		
	Never dismantle it.		
 	Do not dispose of the battery in non-suitable containers. Return the used battery to your Decathlon store for recycling.		
	Risk of fire.		
	Risk of electrocution.		
 	To be handled with care. Product is sensitive to impacts.		
	Never short-circuit the battery by connecting the positive and negative terminals.		

	<p>Never permit children to play with or handle the battery.</p>
	<p>Do not immerse in water.</p>
	<p>Do not clean using a high-pressure washer.</p>
	<p>The battery and other electrical components are designed to withstand rain.</p>
<p>x : 1..... 500</p> 	<p>Your battery can be fully charged and discharged 500 times without any significant drop in performance.</p>
<p>V / Hz</p> 	<p>Always make sure that the battery and charger are compatible.</p>
<p>+100 V / +240 V</p> 	<p>Always ensure the charger is compatible with the local electrical grid: Voltage: 100 V, 240 V maximum.</p>
<p>+50 Hz / +60 Hz</p> 	<p>Frequency: 50 Hz minimum, 60 Hz maximum.</p>
	<p>Only charge the battery indoors.</p>
	<p>Transport by aeroplane is prohibited.</p>
	<p>Any failure to comply with the precautions for use will void the manufacturer warranty.</p>

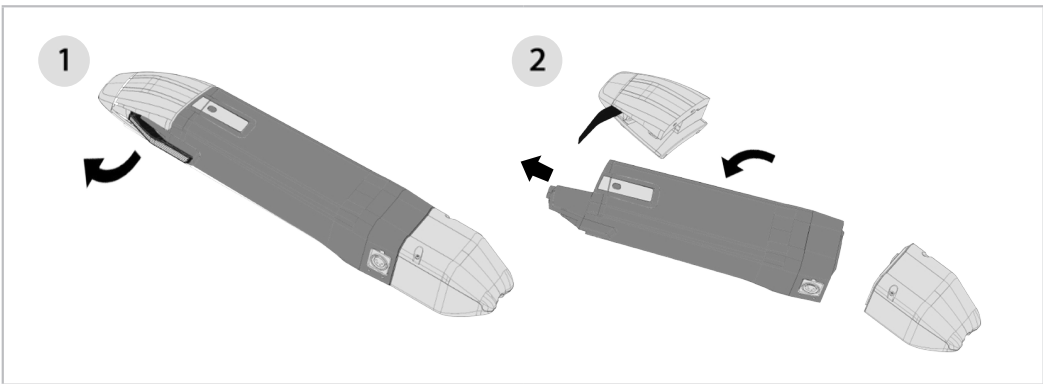
Installing and removing the battery

Installation:



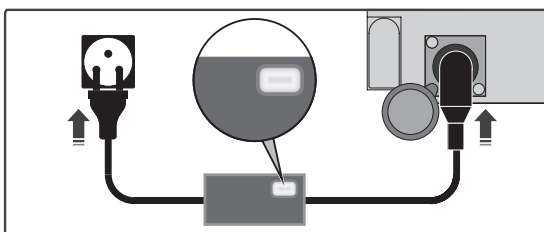
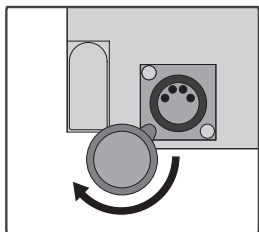
Before inserting your battery in its housing, make sure that the lock is in the open position and does not interfere with the insertion of the battery.

Removal:

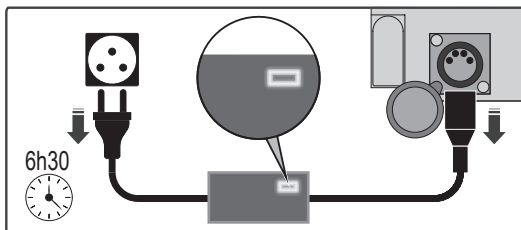


Remember to unlock your battery before removing it from its housing.

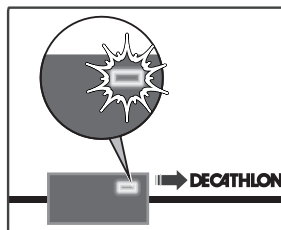
Recharging the Battery



Start of charging red LED.



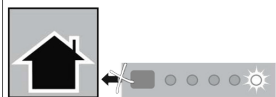
Green LED when charging is complete.



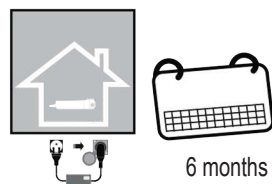
LED flashing red, problem during charging, contact customer services.

A full charge (from 0 to 100%) takes 6 hr 30

Maintenance and lifetime (warranty conditions)

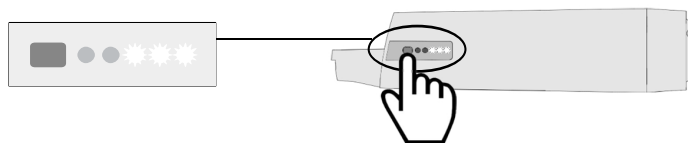


Do not store the discharged battery (1 flashing blue LED) to avoid deep discharge, which may cause it to malfunction.



In cases of extended storage, recharge the battery once every 6 months.

Battery self-diagnostic



	11% - 20%	
	21% - 40%	
	41% - 60%	
	61% - 80%	
	81% - 100%	

		<p>Battery recharge is needed urgently</p>
	<10%	
	Undervoltage protection	






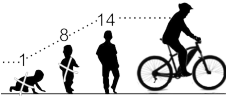



	temperature protection	 <p>Return your battery to your after-sales service</p>
	short circuit protection	
	other protection	

LED off


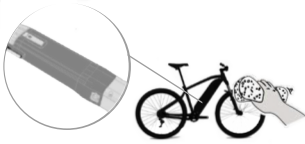
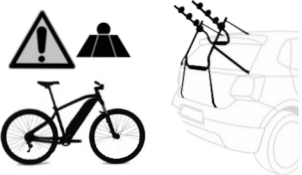

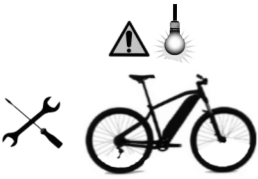
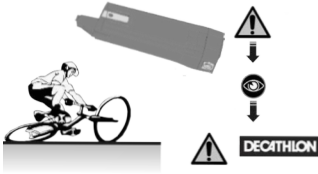
LED on


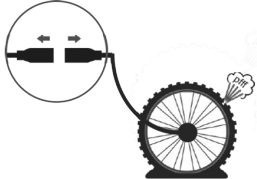
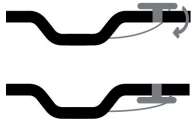
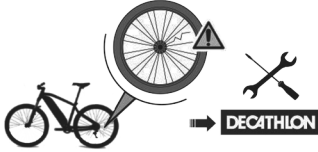

LED flashing

SAFETY INFORMATION

	<p>Please note: this bike is designed for TREKKING use. Mountain bike use is inappropriate and should be avoided (Risk of accident and cancellation of the bike guarantee if you do not comply with this condition)</p>
	<p>Warning, in the event of wheel removal, you must ensure the direction of rotation of your wheel is correct.</p>
	<p>Before each use you must make sure that your brakes and electric system are working properly</p>
	<p>The weight, power, manufacturing year and maximum speed are indicated on your bicycle's frame. As the weight of your bike with electric assistance exceeds 15kg, we recommend that 2 persons transport it.</p>
	<p>Always wear a helmet when riding your bike.</p>
	<p>These electric bikes are designed for persons aged 14 and over.</p>
	<p>Maximum weight allowed on the bike: 120 kg in total (including accessories)</p>
	<p>Never modify the bike's components or electrical system! Any change is dangerous and prohibited by law. If a modified bike breaks down or is damaged, Decathlon will in no case take care of repairs (warranty cancelled)). You will also be legally responsible for any accident that arises with the bike.</p>
	<p>Caution: in rain, frost, or snow, you may have less tyre traction.</p>

MAINTENANCE

	<p>Warning - the maintenance of electrical components requires special skills and is not carried in stores but in Decathlon regional workshops and can take several days.</p>
	<p>All cleaning work must be done with the battery on the bike but the bike turned off! That way, the battery connections will be hidden and protected from the water.</p> <p>Electrical or mechanical maintenance operations must be carried out with the bike switched off, with the battery removed from the bike. Maintenance operations specific to the bike's electric system other than checking the connections must be carried out by qualified, trained personnel.</p>
	<p>NB: the weight of the bicycle may exceed that of your assembly stand or bicycle rack.</p>
	<p>We advise you to bring your electrically-assisted bike back to your DECATHLON store for its 6-month service.</p>
	<p>Always carry out maintenance operations in sufficient light.</p>
	<p>If the bike or battery suffers a fall, check that your battery is intact.</p> <p>If the battery is physically damaged, go to a DECATHLON workshop for a battery diagnostic test.</p>

	<p>Prohibited: cleaning using a high-pressure jet. Not recommended: cleaning under running water. Recommended: cleaning using a damp sponge.</p>
	<p>In case of puncture to the rear wheel, remember to disconnect the motor cable before removing the wheel from the bike to perform the repair.</p>
	<p>If you turn the bike wheels upward (puncture repair etc), be sure to protect your screen by swivelling it downwards to avoid damaging it.</p>
	<p>The motorised wheel is also subject to higher stress than a standard bike wheel, and although it is reinforced, it is possible that spokes may break. If a spoke breaks, contact your DECATHLON store.</p>
	<p>For more information on use, maintenance, after-sales services or in case of questions, visit DECATHLON's support website: www.support.decathlon.fr/ or visit a DECATHLON store.</p>

To find out which controller version is assembled on your bike and the associated error codes, disconnect the motor connectors beforehand. If the display shows error 42, refer to Table A. If the error displayed is 32, refer to Table B

ERROR CODE A

Error code	Definition	Solutions
10 / 12	Low battery voltage	Charge the battery.
11	High battery voltage	Switch off the bike and switch it back on again.
20 / 24 / 25	Abnormal current or voltage	Charge the battery. Switch off the bike and switch it back on again.
21 / 23	Temperature sensor error	Switch off the bike and switch it back on again.

26 / 80 / 82 / 83 / 84	Programme error in the controller	Switch off the bike and switch it back on again.
30	Walk mode error	Switch off the bike and switch it back on again. Take care not to overload the motor when in walk mode (moderate slope, no load on the bike).
40 / 41 / 44	Over-voltage or overheating of the motor	Allow the motor to cool by pedalling more gently or lowering the assistance mode
42 / 44	Motor error or short circuit	Check that the screen connections are properly plugged in. Restart the bike.
45	Error corrected during use	Switch off the bike and switch it back on again.
46	Motor error	Check that the motor connections are properly plugged in. Restart the bike.
60	Communication error between the screen and the controller	Check that the screen connections are properly plugged in. Restart the bike.
70 / 71 / 72 / 73	Torque sensor error	Switch off the bike and switch it back on again.
81	Unrecognised speed	Check that the motor connections are properly plugged in. Restart the bike.
200 / 201 / 202	Torque or cadence sensor error	Switch off the bike and switch it back on again.

ERROR CODE B

Error code	Definition	Solutions
16 / 17	Abnormal voltage in the torque sensor	Turn off the bike and remove the battery. Replace the battery and turn on the bike. If the fault has not disappeared, go to a Decathlon workshop for repair.
32 / 33	Motor fault	Check the positioning and condition of the motor connectors. If the fault has not disappeared, go to a Decathlon workshop for repair.
48	Speed sensor fault in the motor.	Visit a Decathlon store for possible motor diagnostics
49	Cadence sensor malfunction	Turn off the bike and remove the battery. Replace the battery and turn the bike back on. If the fault has not disappeared, go to a Decathlon workshop for repair.

64	Battery overload	Turn off the bike and remove the battery. Replace the battery and turn the bike back on. If the fault has not disappeared, go to a Decathlon workshop for repair.
65 / 66 / 67	Battery underload	Charge the battery. Once fully charged, put the battery back on the bike and turn on the screen. If the fault has not disappeared, go to a Decathlon workshop for repair.
80	Overheating controller	Turn off power assistance and turn off the control screen. Allow the electrical system to cool down. If the fault has not disappeared, go to a Decathlon workshop for repair.
81	Communication error battery control screen	Check the battery charge Make sure that the battery is correctly inserted in its housing. Check that the control screen connection is fully pressed in. If the fault has not disappeared, go to a Decathlon workshop for repair.
83	Electrical system fault	Reset the electrical system: switch off the bike and remove the battery. Replace the battery on the bike and switch on the screen
84	Communication error controller command screen	Check that the control screen connection is fully pressed in. If the fault has not disappeared, go to a Decathlon workshop for repair.
116	Controller fault	Visit a Decathlon workshop for diagnostics and repair



APPENDIX 1: COMPONENT TIGHTENING TORQUE

Component	Tightening torque
Seatpost clamp screw	9 +/- 1 Nm
Handlebar/Stem	9 +/- 2 Nm
Fork/Stem	9 +/- 2 Nm
Control screen	No movement
Seat collar	10 +/- 1.5 Nm
Headset compression screw	No play/No hard spots
Handlebar grips	3 +/- 1 Nm
Bottom bracket	35 +/- 5 Nm
Gear shifter	3 +/- 1 Nm
Crankset and crank	45 +/- 5 Nm
Rear derailleur	9 +/- 1 Nm
Rear derailleur cable	6 +/- 1 Nm
Derailleur clamp	<2.7 Nm
Cassette	40 +/- 5 Nm
Brake lever	6 +/- 1 Nm
Disk / Hub	5.5 +/- 0.5 Nm
Brake calliper / Brake adapter	9 +/- 0.5 Nm
Rear wheel nut	45 +/- 2 Nm
Front wheel axis	Quick release
Bottle cage bolt	No movement
Bell	No movement when in use but can be moved manually
Kickstand (centre side)	17 +/- 2.5 Nm
Plastic plate	4 +/- 1 Nm
Front light / Fork	1.5 +/- 1 Nm
Rear light	1.5 +/- 2.5 Nm

CONTENTS OF THE COMMERCIAL WARRANTY FOR YOUR ELECTRICALLY-ASSISTED BIKE

Please ensure that you keep your invoice as proof of purchase.

The bicycle has a lifelong guarantee on the structural components (frame, handlebar stem, handlebar and saddle-pillar), 2 years on parts subject to normal wear and tear.

The warranty does not cover damage resulting from misuse, from a failure to respect the precautions for use, from accidents, from improper use or from commercial use of the bike.

This bike is for personal use only and not for professional use.

The warranty does not cover damage resulting from repairs carried out by persons not authorised by Decathlon.

Each electronic component is permanently sealed. Opening one of these components (battery, battery sheath, controller, screen, motor) may cause physical injury to persons or damage to the system. Opening or modifying a component in the system will void the warranty for the bike. The warranty does not cover cracked or broken screens showing visible signs of impacts.

FURTHER DETAILS REGARDING THE LIFETIME WARRANTY ON B'twin BIKES, purchased as of 1 June 2013.

B'twin brand bikes are products designed to provide complete satisfaction to their users. For this reason, B'twin wishes to commit to the quality and durability of its bikes. Within this context, B'twin offers its clients a lifetime warranty which exclusively covers the following noncarbon parts: frames, rigid forks (non-suspension forks), handlebars and stems fitted to B'twin brand bikes. This warranty begins on the date of purchase of (a) B'twin brand bike(s).

It is specified that, for the lifetime warranty to be valid, the buyer must:

either have a DECATHLON store loyalty card and register his/her purchase on it at the time of checkout,

or complete the warranty certificate available online on the www.btwin.com site within one month of the purchase date. During this registration, the buyer must provide the following information: last name, first name, purchase date, e-mail address, and bicycle tracking number.

By virtue of this warranty, B'twin offers either the replacement by an equivalent of the frame, rigid fork, handlebars or stem, or their repair, within a reasonable time period, after being brought to a DECATHLON retail store repair shop. It is specified that travel and transportation costs remain the responsibility of the customer.

However, this contractual obligation will not apply in the event of poor maintenance or misuse of B'twin bikes, as defined in the user manual of the product in question.

To benefit from the warranty covering one of the parts listed above, you must simply visit the repair shop of a DECATHLON retail store, bringing either your DECATHLON store loyalty card or your warranty certificate with you.

B'twin reserves the right to verify that all conditions of the lifetime warranty have been met and to implement all due necessary measures to verify this.

It is also specified that the lifetime warranty does not exclude the application of the legal guarantee(s) provided for under the French Consumer Code (Code de la consommation) and Civil Code (Code civil), namely:

Article L. 211-4 of the Consumer Code: «The seller must deliver goods in conformity with the contract and take responsibility for any lack of conformity present at the time of delivery. The seller is also held liable for any lack of conformity caused by the packaging, the assembly instructions or the installation if he/she was made responsible for the latter under the contract or if it was conducted under his/her responsibility».

Article L. 211-5 of the Consumer Code: «To be compliant with the contract, goods must:

Be suitable for the use normally expected for similar goods and, if necessary:

match the description provided by the seller and possess the qualities that he/she presented to the buyer in the form of a sample or a model;

display the qualities that a buyer can legitimately expect in view of public statements made by the seller, the producer, or his/her representative, notably in advertising or labelling;

Or display the features defined by a mutual agreement between the parties or be suitable for any special use sought by the buyer, made known to, and agreed upon by, the seller».

Article L. 211-12 of the Consumer Code: «Legal action prompted by lack of conformity lapses two years after the date of delivery of the goods.»

Article 1641 of the Civil Code: «The seller is bound to the warranty on account of hidden defects of the item sold which render it unfit for the use for which it was intended, or which so impair that use that the buyer would not have acquired it, or would only have paid a lesser price for it, had he/she been aware of them.

Article 1648 paragraph 1 of the Civil Code: «Legal action prompted by unacceptable defects must be brought by the buyer within a period of two years from the date of discovery of the defect».



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