GIANT

Liv

momentum

E-BIKE

GETTING STARTED MANUAL

SMART GATEWAY 2.0

V1.0

Table of contents

1 Preface

Welcome

Welcome and congratulations on your purchase of a new Giant, Liv or Momentum E-bike. The fun of pedalling is only moments away!

How to use this manual

This document is intended as a short introduction to your new e-bike. It contains essential safety information, and provides a first look at some of the e-bike's main components and functions. Before using the e-bike, it is important to also visit the support section of the website, to view and/or download the extensive information available there. In addition to e-bike specific information, also make sure to read the general information in the Bicycle Owner's Manual.

Illustrations

Illustrations shown in this document may differ in detail from the exact configuration on your particular e-bike model. The illustrations are a general reference for instruction and description purposes only.

Symbols used in this manual

WARNING: Warns about a situation that can cause death, serious physical injury and/or heavy material damage if one does not obey the safety instructions.

CAUTION: Warns about a situation that can cause physical injury or material damage if one does not follow the safety instructions.

NOTICE: Provides important information to avoid problems.

INFO: Provides additional information.

Information resources & downloads

GIANT: https://www.giant-bicycles.com/global/manuals

LIV: https://www.liv-cycling.com/global/manuals

MOMENTUM: https://www.momentum-biking.com/global/manuals

For information on other bicycle parts and warranty, consult the general bicycle owner's manual.

Service and Support

This manual is not intended to be an extensive reference book about service, maintenance or repairs. Please contact your dealer for service and technical support.

Read all information in this manual carefully before you start riding the bike. Safety instructions are very important and should not be overlooked. By reading the manual you will have a better understanding of the general operation.

2 Safety

Safe use of the bicycle

Before using the e-bike on the open road, ride the bike in a secure area to get acquainted with riding a bike with electric pedalling support. Try all settings on the bike and get familiar with the results.

WARNING

- Keep both hands on the grips on the handlebar and the brake levers within reach while riding, to be able to immediately respond to any circumstance. Failing to do so can cause you to loose control over the bicycle.
- Before every ride, perform a pre-ride check of the technical state of the bike and all essential bike functions, like steering and braking.
- Make sure the battery is properly placed and locked.
- Ensure that all fasteners are properly tightened.
- Make sure that there are no worn or damaged parts that may fail during the ride.

NOTICE

Save these instructions: This manual contains important safety and operating instructions.

Battery and Charger

Take all following information into account when handling the battery and the charger.

WARNING

- **Please follow the instructions to prevent the risk of fire, electric shock, or injury to persons.**
- Keep the battery away from children and pets.
- Keep the battery & charger away from water and open fire.
- Do not drop or subject the battery & charger to any big shocks.
- Charge the battery only with the charger that was supplied with the e-bike, or the spare-/replacement charger supplied by an official dealer.
- Do not use the battery & charger for other purposes.
- Never connect the battery's terminals with each other.
- Do not cover the battery & charger or place objects on top of it during charging.
- Do not leave the battery & charger unattended while charging.
- Disconnect the charger and the battery immediately if you notice a strange smell or smoke.
- In the unlikely case that the battery is on fire: NEVER try to put the fire out with water. Cover the fire with large amounts of sand, and call emergency services immediately.

- **Coin cell:** Coin battery are hazardous and must be kept away from children. Never put batteries in mouth or in any part of the body. Severe or fatal injuries can occur within 2 hours if swallowed or placed inside the body. If this occurs or is suspected, seek medical attention immediately.
- **High temperature:** Do not touch the surface with your bare hands which may lead to severe burn injuries.

CAUTION

Avoid contact with battery and charger during charging operation. The charger can become hot during charging.

NOTICE

When the battery has reached the end of the service life, it should be treated as hazardous waste material. It should not be disposed of in regular household trash. Ask your dealer for advice on proper disposal of the battery.

Luggage Carrier

WARNING

Always make sure that any luggage or child-seat feature fitted to the luggage carrier is securely fitted in accordance with the manufacturer's instructions, and that there are no loose straps or other items that can get caught in the wheel.

CAUTION

- Luggage can only be safely carried on the carrier(s). Do not attach luggage to any other part of the bike.
- The bicycle may behave differently (particularly with regard to steering and braking) when the luggage carrier is loaded.
- Maximum rear carrier capacity including EnergyPak: 22kg.

NOTICE

- It is recommended to check and adjust positioning of reflectors and lamps such that these are not obscured when luggage is attached to the luggage carrier.
- On some bikes the battery holder and luggage carrier are combined. Please ensure that luggage is securely fixed to avoid damage to the battery and/or holder.

INFO

It is recommended distribute luggage evenly between the two sides of the luggage carrier.

Accessories

CAUTION

- Always follow the child seat manufacturer’s instructions for installation, usage and safety. Never modify any original parts of the E-bike to accommodate a child seat.
- Never exceed the carrier load capacity and/or total permissible load weight of the E-bike as stated elsewhere in this user manual.
- Please be aware that the use of a child seat can cause extra load stress and increased wear on the E-bike’s electric and/or mechanical parts.
- If a child seat is used, and the bike is fitted with a saddle with exposed coil springs underneath the saddle, there is a substantial risk that the child’s fingers can get injured from getting trapped in the coil springs. Please take appropriate steps to prevent the trapping of the child’s fingers.
- Always consult the documentation that came with a carrier and/or consult your local dealer for installing instructions, maximum load, torque specifications, parts specifications, maximum compatible wheel size, trailerand child seat compatibility.
- For information about the name and address of the manufacturer, importer or representative, trademark, model and production batch number or reference, check the carrier's documentation and/or on the carrier itself.

3 Using your E-bike

3.1 EnergyPak

The EnergyPak is the rechargeable battery that powers the e-bike system. EnergyPaks vary in shape, size, energy capacity and compatibility. They can be mounted on different locations on the e-bike, depending on the e-bike model. An EnergyPak should be charged with the original charger that is supplied with the e-bike.

CAUTION

- Products with broken seals shall not be used and shall be immediately forwarded for appropriate recycling.
- Operate the EnergyPak at a device temperature between -20°C~60°C (-4°F~140°F)

  Optimal performance above 0°C, performance may be reduced when device temperature is lower.

NOTICE

- Not every EnergyPak type or version may be shown in this manual.
- Please refer to the support section of the website for more information on EnergyPaks.
- Exact technical specifications and other details for each EnergyPak can be found on the printed label on the EnergyPak.

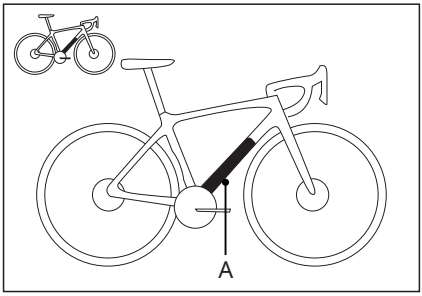
3.1.1 First use

- Each EnergyPak's system is deactivated by the factory before it ships out.
- An EnergyPak will not function until it is activated.
- An EnergyPak can be activated by charging it with the charger.
- It is recommended to fully charge a new EnergyPak before the first use.
- A new EnergyPak might not yet achieve maximum performance upon first use.
- EnergyPak performance stabilizes after few full cycles of discharging (by riding) and recharging.

3.1.2 EnergyPak Smart InTube

Parts Description

A. EnergyPak



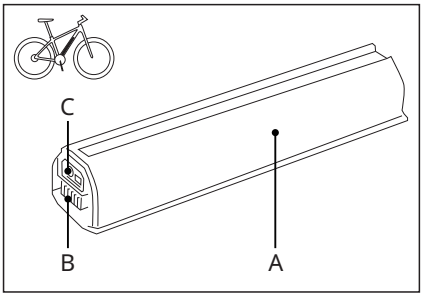
NOTICE

For safety concerns, the EnergyPak Smart Intube should only be removed or installed by an authorized mechanic.

3.1.3 EnergyPak Smart Integrated

Parts Description

A. EnergyPak
B. Charging socket
C. Battery level indicator



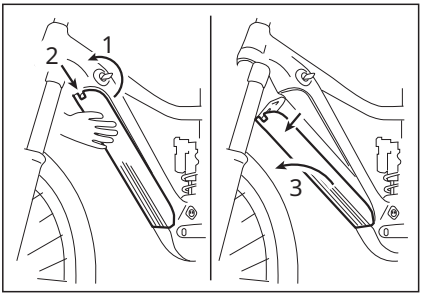
Installation & Removal

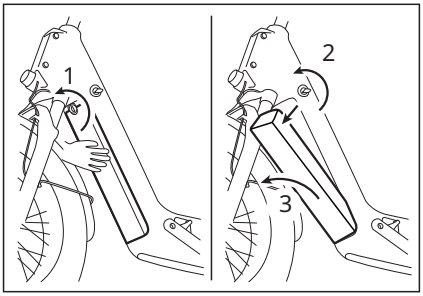
NOTICE

Always switch off the power first, before removing the EnergyPak.

Removing the EnergyPak (Key Lock Type)

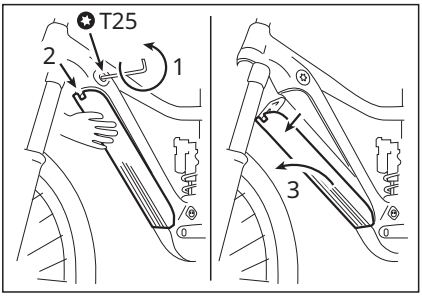
- Loosen the twist knob on the battery cover and remove it from the underside of the downtube.
- Hold the battery in the frame to make sure it cannot drop when unlocking.
- Insert the key and unlock the EnergyPak. The EnergyPak will be ejected slightly.
- For top loading integrated batteries only: Lift out the EnergyPak to remove.
- Push the drop protection lever to fully unlock the EnergyPak.
- Remove the battery from the bike.

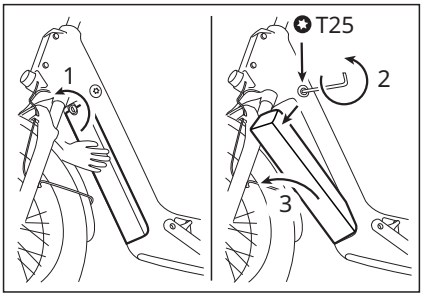




Removing the EnergyPak (Torx Lock Type)

- Loosen the twist knob on the battery cover and remove it from the underside of the downtube.
- Hold the battery in the frame to make sure it cannot drop when unlocking.
- Insert the Torx tool size 25 and turn counter-clockwise to release the EnergyPak (the screw is endless so it will not come out).
- Push the drop protection lever to fully unlock the EnergyPak.
- Remove the battery from the bike.



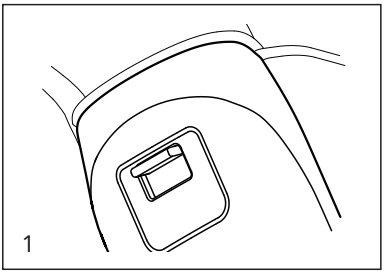


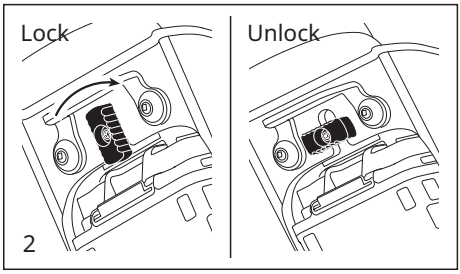
Installing the EnergyPak

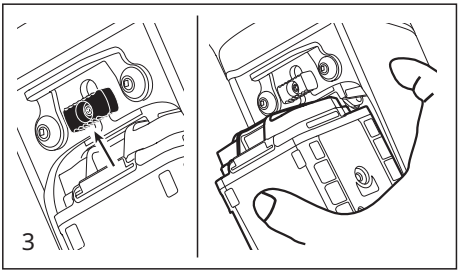
- Reverse removal procedure to install the EnergyPak.
- Make sure the connector slots are aligned correctly at the bottom.
- Push the top of the EnergyPak and make sure the EnergyPak is secured properly (a 'click' can be noticed while doing so).
- Replace the cover and secure with the twist knob.
- Pull out the key / Torx tool.

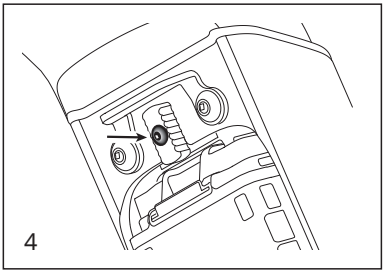
Internal Lock Type

1. Release the clip to remove the battery cover from the downtube.
2. After removing the battery cover, you'll see the latch lever on the top of the downtube. Turn it 90 degrees to unlock position.
3. Pushing the lever all the way up toward to the stem, the battery will be released. Making sure to hold the battery with the other hand for preventing it falling off.
4. You can also lock the locknut in the center of the lever when in locking position for preventing accident battery fall-off.
5. To install the battery, check if the battery latch lever is in unlock position, then fit in the battery from the lower end closed to the bottom bracket area and push it into the frame to engage the latch. A clear click will be heard if installed properly.
6. Turn the lever to the locking position. If not, the battery cover will not be able to be clipped in.
7. Clip in the battery cover and you are ready to go.





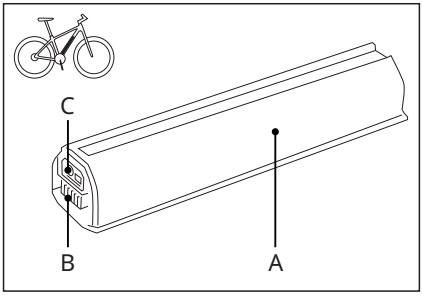




3.1.4 EnergyPak Smart Compact

Parts Description

A. EnergyPak
B. Charging socket
C. Battery level indicator



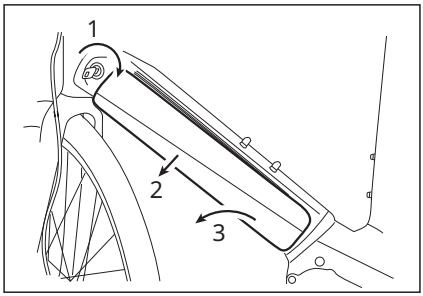
Installation & Removal

NOTICE

Always switch off the power first, before removing the EnergyPak.

Removing the EnergyPak

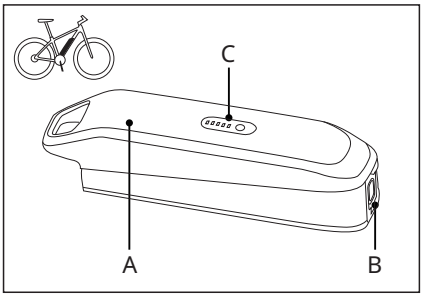
- Hold the battery in the frame to make sure it cannot drop when unlocking.
- Insert the key and unlock the EnergyPak. The EnergyPak will be ejected slightly.
- Remove the battery from the bike.



Installing the EnergyPak

- Reverse removal procedure to install the EnergyPak.
- Make sure the connector slots are aligned correctly at the bottom.
- Push the top of the EnergyPak and make sure the EnergyPak is secured properly (a ‘click’ can be noticed while doing so).
- Pull out the key.

3.1.5 EnergyPak Smart Side Release



Parts Description

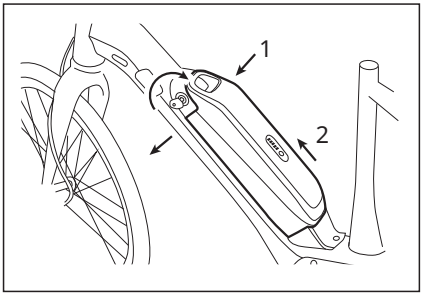
A. EnergyPak
B. Charger socket
C. Battery level indicator

Installation & Removal

NOTICE

Always switch off the power first, before removing the EnergyPak.

Removing the EnergyPak

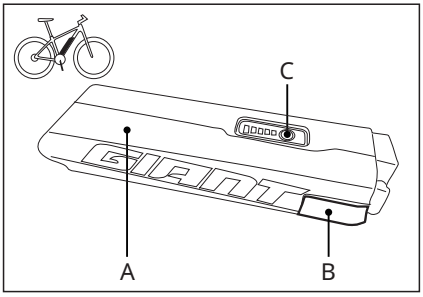


- Hold the battery in the frame to make sure it cannot drop when unlocking.
- Insert the key and unlock the EnergyPak
- Pull the top of the EnergyPak sideways.
- Lift it out to remove the EnergyPak from the bike.

Installing the EnergyPak

- Reverse removal procedure to install the EnergyPak.
- Make sure the connector slots are aligned correctly at the bottom.
- Push the top of the EnergyPak and make sure the EnergyPak is secured properly (a 'click' can be noticed while doing so).
- Pull out the key.

3.1.6 EnergyPak Side Release



Parts Description

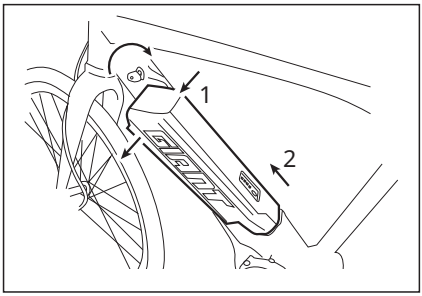
A. EnergyPak
B. Charger socket
C. Battery level indicator

Installation & Removal

NOTICE

Always switch off the power first, before removing the EnergyPak.

Removing the EnergyPak



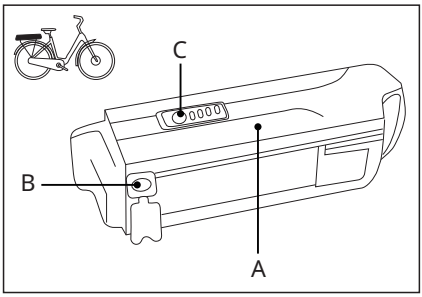
- Hold the battery in the frame to make sure it cannot drop when unlocking.
- Insert the key and unlock the EnergyPak.
- Pull the top of the EnergyPak sideways.
- Lift it out to remove the EnergyPak from the bike.

Installing the EnergyPak

- Reverse removal procedure to install the EnergyPak.
- Make sure the connector slots are aligned correctly at the bottom.
- Push the top of the EnergyPak and make sure the EnergyPak is secured properly (a 'click' can be noticed while doing so).
- Pull out the key.

3.1.7 EnergyPak Carrier

Parts Description



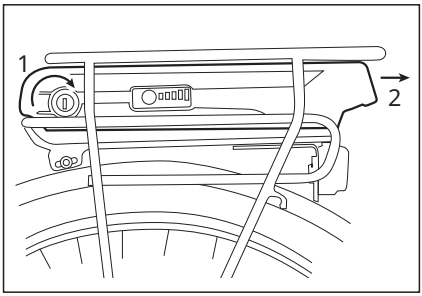
A. EnergyPak
B. Charger socket
C. Battery level indicator

Installation & Removal

NOTICE

Always switch off the power first, before removing the EnergyPak.

Removing the EnergyPak



- Insert the key and unlock the EnergyPak.
- Hold the grip and pull the EnergyPak backwards.
- Slide out the EnergyPak.

Installing the EnergyPak

- Reverse removal procedure to install the EnergyPak
- Make sure the slots are aligned correctly at the bottom.
- Push the EnergyPak forward and make sure the EnergyPak is secured properly (a 'click' can be noticed while doing so).
- Pull out the key.

3.2 Charger

CAUTION

Use only a suitable charger provided with the e-bike or provided by Giant/Liv/Momentum.

NOTICE

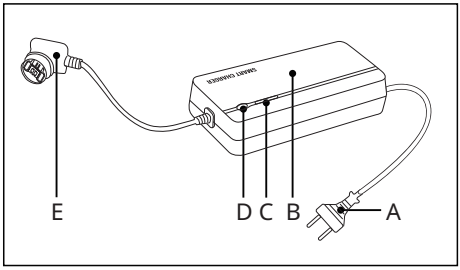
- Not every charger type or version may be shown in this manual. Please refer to the support section of the website for more information on chargers.
- Exact technical specifications and other details can be found on the printed label on the charger.

3.2.1 Smart Charger 4A, 48V, Dual

The 4A Smart Charger is a powerful charger for our high capacity EnergyPaks. The smart charger continuously monitors the internal state of the battery and adjusts the charging process accordingly for the fastest charging speed and the maximum battery lifespan.

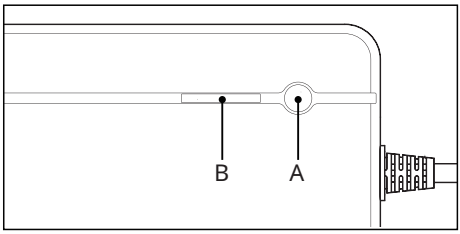
Parts Description

A. AC socket (110V~240V)
B. Charger
C. 60% charge indicator LED / Button
D. 100% charge indicator LED
E. Charge socket



LED Status Description

A. LED
B. Button / LED



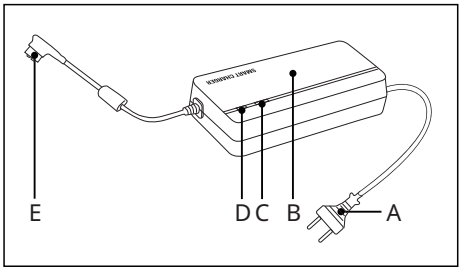
LED	Color	Behavior	Status
A B	Red > Green> Off Green > Red > Off	Sequence	Power on self test
A	Red	On	No battery connected
A	Green	Blinking (0.5 sec interval)	Charging active
A	Green	On	Charging completed
A	Green	Slow blinking (1.0 sec interval)	Battery charging over temperature protection
B	Yellow	Push button B	Activate storage charge (60% mode)
A	Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Voltage Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Current Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Temperature Protection)
A B	Red > Green > Off Green > Red > Off	Sequence	Charging issue (Short Circuit Protection)

If there is a charging issue, please check the charging circuit, and disconnect the AC source of the charger, and then reconnect it after the LED goes out.

3.2.2 Smart Charger 4A, 36V, Dual

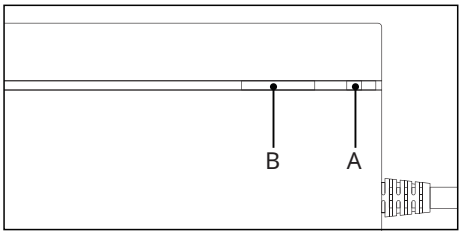
Parts Description

A. AC socket
B. Charger
C. Button
D. LED
E. Charge socket



LED Status Description

A. LED
B. Button



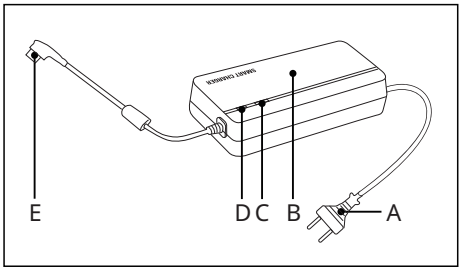
LED	Color	Behavior	Status
A	Red > Green > Off	Sequence	Power on self test
A	Red	On	No battery connected
A	Green	Blinking (0.5 sec interval)	Charging active
A	Green	On	Charging completed
A	Green	Blinking (1.0 sec interval)	Battery charging over temperature protection
A	Yellow	Push button B	Activate storage charge (60% mode)
A	Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Voltage Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Current Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Temperature Protection)
A	Red > Green > Off	Sequence	Charging issue (Short Circuit Protection)

If there is a charging issue, please check the charging circuit, and disconnect the AC source of the charger, and then reconnect it after the LED goes out.

3.2.3 Smart Charger 6A, 36V, Single

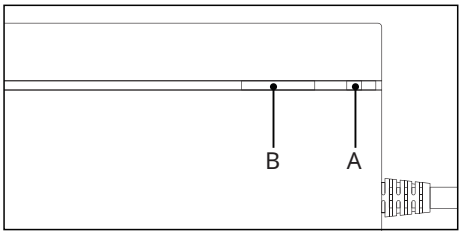
Parts Description

A. AC socket
B. Charger
C. Button / LED
D. LED
E. Charge socket



LED Status Description

A. LED
B. Button / LED



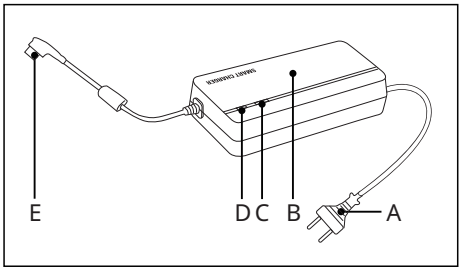
LED	Color	Behavior	Status
A B	Red > Green > Off Green > Red > Off	Sequence	Power on self test
A	Red	On	No battery connected
A	Green	Blinking (0.5 sec interval)	Charging active
A	Green	On	Charging completed
A	Green	Blinking (1.0 sec interval)	Battery charging over temperature protection
B	Yellow	Push button B	Activate storage charge (60% mode)
A	Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Voltage Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Current Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Temperature Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Short Circuit Protection)

If there is a charging issue, please check the charging circuit, and disconnect the AC source of the charger, and then reconnect it after the LED goes out.

3.2.4 Smart Charger 4A, 36V, Single

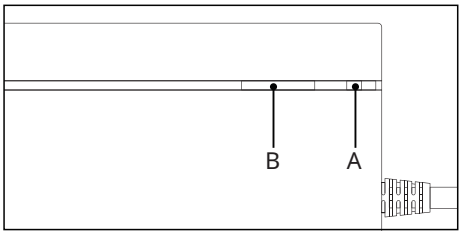
Parts Description

A. AC socket
B. Charger
C. Button
D. LED
E. Charge socket



LED Status Description

A. LED
B. Button



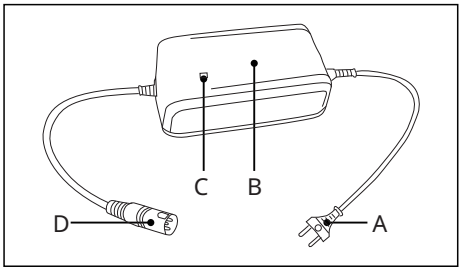
LED	Color	Behavior	Status
A	Red > Green > Red	Sequence	Power on self test
A	Red	On	No battery connected
A	Green	Blinking (0.5 sec interval)	Charging active
A	Green	On	Charging completed
A	Green	Blinking (1.0 sec interval)	Battery charging over temperature protection
A	Yellow	Push button B	Activate storage charge (60% mode)
A	Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Voltage Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Current Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Temperature Protection)
A	Red > Green > Off	Sequence	Charging issue (Short Circuit Protection)

If there is a charging issue, please check the charging circuit, and disconnect the AC source of the charger, and then reconnect it after the LED goes out.

3.2.5 Fast Charger 3A/4A, 36V

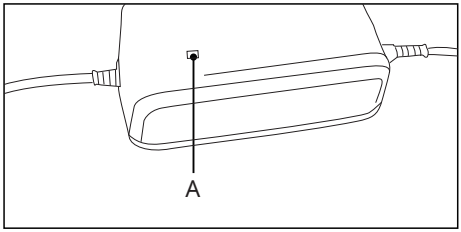
Parts Description

A. AC socket
B. Charger
C. LED
D. Charge socket



LED Status Description

A. LED



LED	Color	Behavior	Status
A	Red	On	Power on self test
A	Red	Blink	Charging issue
A	Green	On	No battery / Battery full

3.2.6 Charging

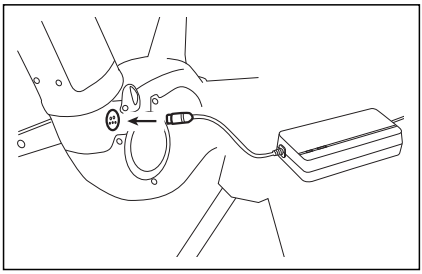
CAUTION

- Always take care to align all connectors properly before connecting.
- Charge the EnergyPak at a device temperature between 0°C~45°C (32°F~113°F) (recommended temperature is 20°C/68°F)
- Charging below 0°C (32°F) or above 45°C (113°F) can lead to insufficient charging and can have a negative impact on the battery life cycle.
- Make sure the bike is steady and standing firmly when charging the EnergyPak on the bike.
- Do not sit on the bike, move the bike or rotate the cranks while the charger is connected to the bike.

With the EnergyPak attached to the bike

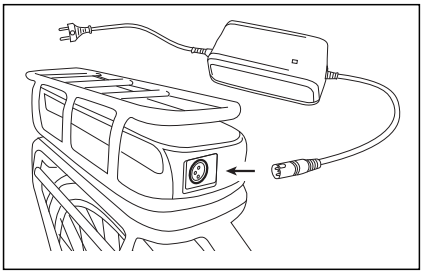
Start charging

- Connect the charger to the charge port of the EnergyPak.
- Connect the charger to an AC outlet.
- The charging process starts.



Stop charging

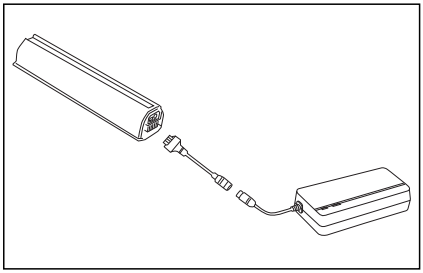
- Disconnect the charger from the AC outlet.
- Disconnect the charger from the EnergyPak.



With the EnergyPak removed from the bike

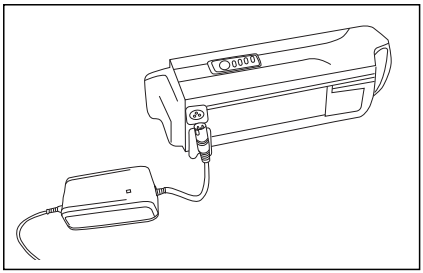
Start charging

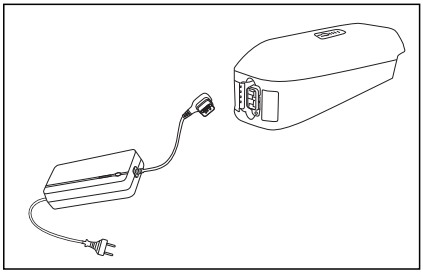
- Remove the EnergyPak from the bike.
- Connect the charger to the charge port of the EnergyPak.
- Connect the charger to an AC outlet.
- The charging process starts.



Stop charging

- Disconnect the charger from the AC outlet.
- Disconnect the charger from the EnergyPak.
- Place the EnergyPak back into the bike





NOTICE

Disconnect the charger from the EnergyPak and AC outlet when the EnergyPak is fully charged.

INFO

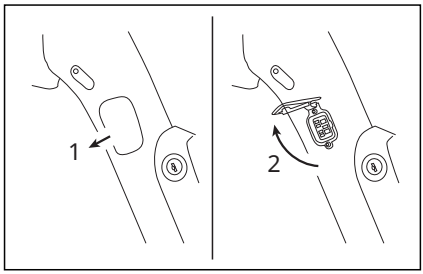
- The LED(s) on the charger show the process status.
- The LED indicator on the EnergyPak shows current battery level.
- Charging can be stopped / interrupted at any time.

With the EnergyPak Smart Side Release

The EnergyPak Smart side release have the ability to remain in standby mode, allowing additional charging feedback in the display. The E-bike System needs to be switched ON for onboard charging to work with the EnergyPak attached to the bike.

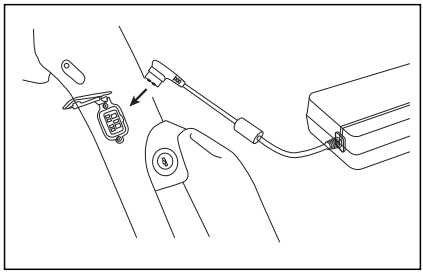
Start charging

- Press On/Off button to power on E-bike.
- Pull the charge-port cover.
- Connect the charger to the charge-port on the bike.
- Connect the charger to an AC outlet.
- Check screen or LED on charger to see of charging is activated.



Stop charging

- Disconnect the charger from the AC outlet.
- Disconnect the charger from the EnergyPak.
- Place the EnergyPak back into the bike.



NOTICE

Disconnect the charger from the EnergyPak and AC outlet when the EnergyPak is fully charged.

INFO

- Press On/Off button to power on E-bike before charging.
- The LED indicator on the EnergyPak shows current battery level.
- The display shows current battery level.

3.2.7 Charging time

EnergyPak Smart InTube 36V

Capacity		400 Wh		250 Wh	
Charger		6A	4A	6A	4A
Charge	0~60%	1:20 h	1:40 h	1:20 h	1:20 h
	0~80%	2:00 h	2:30 h	2:00 h	2:00 h
	0~100%	4:30 h	4:50 h	3:30 h	3:30 h
Smart charging		●		●	
Storage mode (60%)		●		●	

EnergyPak Smart Integrated 36V / 48V

		36V					
Capacity		800 Wh		750 Wh		625 Wh	
Charger		6A	4A	6A	4A	6A	4A
Charge	0~60%	2:15 h	3:30 h	2:10 h	2:50 h	1:50 h	2:30 h
	0~80%	3:10 h	4:40 h	2:55 h	3:50 h	2:35 h	3:30 h
	0~100%	5:40 h	7:20 h	5:10 h	6:40 h	4:40 h	5:50 h
Smart charging		●		●		●	
Storage mode (60%)		●		●		●	

		36V				48V	
Capacity		500 Wh		430 Wh		780 Wh	560 Wh
Charger		6A	4A	6A	4A	4A	4A
Charge	0~60%	1:30 h	2:00 h	1:20 h	1:50 h	2:45 h	2:10 h
	0~80%	2:10 h	2:50 h	2:10 h	2:40 h	3:50 h	3:10 h
	0~100%	4:10 h	5:10 h	4:10 h	4:30 h	5:20 h	4:30 h
Smart charging		●		●		●	●
Storage mode (60%)		●		●		●	●

EnergyPak Smart Compact 36V

Capacity		500 Wh		375 Wh	
Charger		6A	4A	6A	4A
Charge	0~60%	1:30 h	2:00 h	1:20 h	1:50 h
	0~80%	2:10 h	2:50 h	2:00 h	2:30 h
	0~100%	4:10 h	5:10 h	4:30 h	4:50 h
Smart charging		●		●	
Storage mode (60%)		●		●	

EnergyPak Smart Side Release 36V

Capacity		600 Wh	500 Wh
Charger		4A	4A
Charge	0~60%	2:30 h	2:00 h
	0~80%	3:30 h	2:50 h
	0~100%	5:50 h	5:10 h
Smart charging		●	●
Storage mode (60%)		●	●

EnergyPak Side Release 36V

Capacity		250 Wh	
Charger		6A	4A
Charge	0~60%	1:20 h	1:20 h
	0~80%	2:00 h	2:00 h
	0~100%	3:30 h	3:30 h
Smart charging		●	
Storage mode (60%)		●	

Capacity	500 Wh		400 Wh	
AC voltage	110 V	200~240 V	110 V	200~240 V
0~80%	3:40 h	2:45 h	3:00 h	2:00 h
0~100%	7:20 h	5:00 h	6:00 h	4:30 h
Smart charging	–		–	
Storage mode (60%)	–		–	

EnergyPak Plus 36V

Capacity		250 Wh		200 Wh	
Charger		6A	4A	6A	4A
Charge	0~60%	1:20 h	1:20 h	2:10 h	2:10 h
	0~80%	2:00 h	2:00 h	2:50 h	2:50 h
	0~100%	3:30 h	3:30 h	4:10 h	4:10 h
Smart charging		●		●	
Storage mode (60%)		●		●	

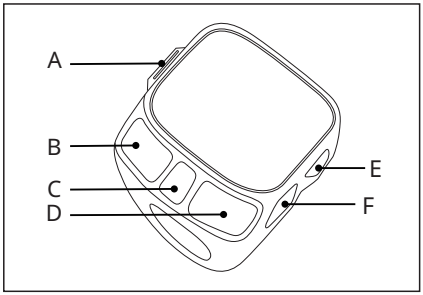
EnergyPak Top Pull, Carrier 36V

Capacity	500 Wh		400 Wh		300 Wh	
AC voltage	110 V	200~240 V	110 V	200~240 V	110 V	200~240 V
0~80%	3:40 h	2:45 h	3:00 h	2:00 h	2:20 h	1:45 h
0~100%	7:20 h	5:00 h	6:00 h	4:30 h	4:40 h	3:30 h
Smart charging	–		–		–	
Storage mode (60%)	–		–		–	

3.3 Controls

3.3.1 RideControl Dash 2

The RideControl Dash 2 is an integrated remote control with color display screen that shows extensive bike and ride information from the EnergyPak, SyncDrive motor, sensors, lights and other connected e-components. The ergonomic design provides an intuitive, effortless user experience, you can operate all riding functions simply with the thumb without leaving your hand from neutral position. Combining with the upgraded user interface, the RideControl Dash 2 will be the best partner in your e-cycling journey.

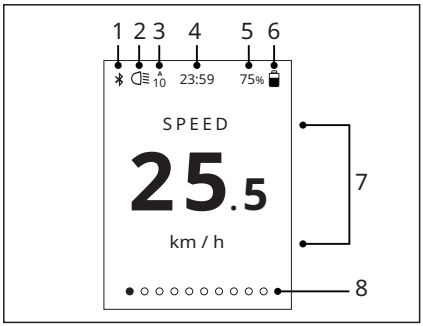


Function Operation:

- Power on/off
  - Power on: Short press the button (A)
  - Power off: Press and hold the button (A) >1.5s
- Assistance level up
  - Short press the button (B)
- Walk assist
  - Press the button (C) >1.5s then press and hold the button (D)
  - Stop walk assist function: Release the button (D)
- Assistance level down
  - Short press the button (D)
- Light on/off
  - Short press the button (A)
- Activate Smart Assist (AUTO)
  - Press and hold the button (B) >1.5s
- Switch riding page (left/right)/ *e-shift (gear up/down)
  - Short press the button (E) or (F)
- Setting menu
  - Short press the button (B) & (D) simultaneously
- Confirm menu selection
  - Short press the button (C)
- Manual / Autoshift mode*
  - Short press the button (E)
  - Press (D) or (F) in Auto mode for preferred cadence setup.

Display Items:

1. Wireless connection
2. Light status
3. E-Shift
4. Clock time
5. Battery status
6. Battery status bar
7. Data field
8. Riding page



INFO

* This feature is only available when the bike is equipped with e-shift. In that case, the rider will have to use button (C) for switching the riding page only to the right.
- Due to local regulations, the Walk Assist function is not available in certain regions/countries.

Power on/off

- Press the “Power on/off” button (A) to turn the system on and off, the LED will be illuminated in 2 seconds with the screen showing a Giant/Liv/Momentum brand logo as a startup animation followed by the battery level indication. After that the riding page will be displayed and you are ready to go.
- Press the “Power on/off” button (A) for at least 1.5 seconds and release the button to turn the system off. The LED will fade out with the display showing ”See you” before shutting down the screen.

Assist mode

Each assist mode has a dedicated screen background color for easier recognition, shown as below:

Assist level	Background color
OFF	Grey
ECO	Light green
TOUR	Green
ACTIVE	Yellow
SPORT	Orange
POWER	Red
AUTO - Smart Assist	Blue

- Assist levels availability and power ratio per level depend on SyncDrive motor type and factory system settings.
- The POWER level offers the strongest power assist, but has the highest energy consumption.
- The ECO level offers the lowest Power Assist, but has the highest distance range.

Switch the assist mode

- Press the button (B) or (D) to change the assist mode.
- By switching between the assist modes the display will indicate together with an estimated remaining range by using that mode. After 3 seconds it will return to the riding page.

Smart Assist (AUTO) mode

- In Smart Assist (AUTO) mode, the SyncDrive motor will adapt the assist pattern automatically in response to the terrain and rider's input.
- Press and hold the button (B) for 1.5 seconds to activate the Smart Assist with the assist level showing "AUTO" on the display.
- When operating in the Smart Assist (AUTO) mode, you may press either button (B) or (D) to switch to manual assist mode. The system will always default to ACTIVE mode when exiting from AUTO mode.

Assist off

You may also turn the motor assist off to ride with your own efforts.

- Go through the assist modes with the button (D), until the screen shows "OFF" with its estimated remaining range.
- All other system functions remain available.

Walk assist

The walk assist is a feature to drive the bike forward when you walk the bike. By activating this function, the drive unit will slightly propel the rear wheel to ease the bike weight. Depending on how fast you walk the bike, the walk assist can support up to a speed of 6 km/h (4 mph).

- Press the button (C) for 1.5 seconds to set the walk assist stand-by.
- Press the button (D) within 3 seconds to activate the walk assist.
- Release the button (D) to pause the walk assist. By pressing the button (D) within 3 seconds after pause, the walk assist will be working again.

INFO

- If there's no command to activate the walk assist within 3 seconds after either pressing the button (C) for walk assist stand-by or leaving button (D) for a pause in use, the walk assist will end and return to the normal riding page.
- Due to local regulations, the Walk Assist function is not available in certain regions/countries.

Screen

1. Wireless connection: It indicates the wireless connection between the bike and the RideControl app is activated.
2. Light status: The icon indicates that the bike light is switched on/off.
3. E-shift: This icon appears to indicate the electronic shifting status.
   - A: Automatic shift mode
   - M: Manual shift mode

   The number below "A" or "M" indicates the rear gear level.
4. Clock time: Showing the clock time.
5. Battery status: It indicates the current EnergyPak remaining power from 100% to 0%.

- When battery power is less than 3%, the battery icon starts blinking. The system will switch to the lowest assist level.
- When battery power is indicated to be less than 1%, the battery icon will continue blinking. The power assist system will automatically shut off. The bike light will continue to function for at least 2 hours as a safety feature.

INFO

- The battery status, clock time, and light on/off will always stay on the status bar. The other icons will show once the function is working.
- Please download the latest version of the RideControl App to access all features. Please note that some functions are exclusive to specific bike models or components. For detailed information, please check the feature compatibility chart or consult an authorized dealer.

Data fields

Data fields are used to display variable information of your ride in a single riding page. The number of displayed information can be modified through the setting menu, and it can be customized from 1 to 2. You can also define how many riding pages you would like to show. You can scroll between them by a single press of the button (C). Default setup of riding pages and data fields (6 pages, 1 field each):

- SPEED: Current riding speed.
- REMAINING RANGE: Estimated remaining battery range based on selected assist level.
- DISTANCE: Accumulated riding distance since last reset.
- TRIP TIME: Accumulated riding time since last reset.
- CADENCE: Current pedaling speed in rpm (rotations per minute).
- ODO: Total riding distance since the first use.

INFO

- The actual battery range varies depending on terrain conditions, rider's condition, riding style, and weather. Always check the battery range before each ride to ensure sufficient power. Note that factors such as terrain profile and wind conditions may affect the range during your ride.
- You can also press the button (E) or (F) to switch between different riding pages.
- The maximum number of riding page is 10, and the minimum is 1.

Bike light and screen brightness

- Short press the button (A) after the system on to switch the bike lights on or off.
- The light status can also be identified from the icon on the status bar.
- The day/night screen brightness will follow the front light switch to be in day/night mode when the light is off/on.
- You may also adjust your preferred day/night time screen brightness level through the Settings > Riding > Brightness.

INFO

System functionality varies based on the connected RideControl remote.

Battery status bar

There are ten battery levels for indicating the remaining range with a 10% intervals in between. When it's below 20% there will be a sequence of colored icons for notifying the low battery status:

- 19%-10%: yellow constant light
- 9%-4%: red constant light
- 3%-0%: red flashing

INFO

When the e-bike is equipped with dual batteries, two battery status icons will be displayed. The icon on the left represents the secondary battery, while the icon on the right indicates the main battery. The battery percentage is the combined total of both batteries.

Setting menu

Short press the buttons (B) and (D) simultaneously to access the settings menu. While in the settings menu, buttons (B) and (D) will function as setting controls. These buttons will return to their riding function controls when you exit the settings menu.

System events

There are three types of pop-up notification for notifying different levels of system event: When a malfunction occurs, the system event warning screen is displayed.

- Level 3: Warning

  This system event level indicates critical conditions caused by malfunctions or errors that may prevent riding. When this message appears, we recommend inspecting the bike or consulting an authorized dealer for further assistance. The level 3 warning message can only be cleared manually. Pressing any button will dismiss the warning message, and a wrench icon will appear on the status bar.

- Level 2: Caution

  Level 2 caution messages will notify you of any secondary errors or status conditions. While these events do not immediately affect system operation, they require attention (such as abnormal tire pressure). The level 2 notification will automatically disappear after 3 seconds, or you can dismiss it by pressing any button during this period. Similar to level 3 warnings, a wrench icon will appear on the status bar after the message disappears.

- Level 1: Notification

  Level 1 notifications display system status changes or responses to your operations (such as e-shift gear changes). These notifications will automatically disappear after 3 seconds, or you can dismiss them by pressing any button during this period. Unlike higher-level warnings, no wrench icon will appear on the status bar for level 1 notifications.

Quick troubleshooting steps:

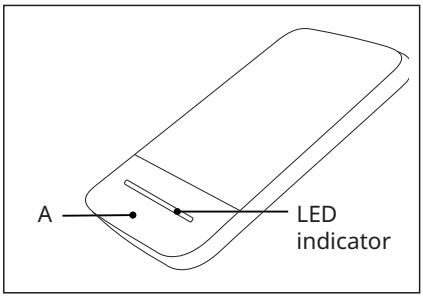
1. Make a note of the event description on the display.
2. Turn the system off.
3. Check for any cause that can be solved at the moment such as a tire puncture or system restart.
4. If the issue is without safety concern, try to exclude the issue and restart the system.
5. If the issue is successfully solved, you can continue your ride but please schedule a service check at authorized e-bike stores for ensuring there's no remaining issue / maintenance required.
6. If the issue still exists, repeat step 1-4.
7. Stop riding for your own safety if several checks still cannot solve the issue, contact authorized dealer for service and repair.

3.3.2 RideControl Go Lux

The RideControl Go Lux is an integrated head unit with an on/off button and a color display which fits best to performance riders. The sleek is perfectly embedded at the front of the top tube for a clean outlook integration and clear screen visibility. With its high quality, premium design, and upgraded user interface, the RideControl Go Lux will elevate your cycling experience to a level which you'd never been.

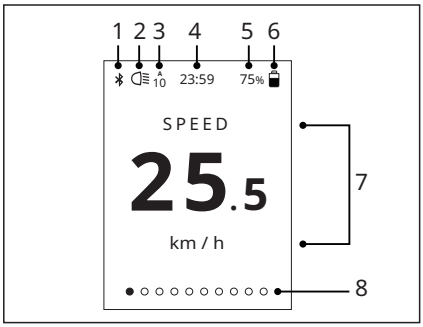
Function Operation:

- Power on/off
  - Power on: Short press the button (A)
  - Power off: Press and hold the button (A) >1.5s
- Light on/off
  - Short press the button (A)



Display Items:

1. Wireless connection
2. Light status
3. E-Shift
4. Clock time
5. Battery status
6. Battery status bar
7. Data field
8. Riding page



INFO

To operate the main functions and access advanced settings, additional remote controls are required (such as the RideControl Ergo 4).

Power on/off

- Press the “Power on/off” button (A) to turn the system on, the LED indicator will be illuminated in 2 seconds with the screen showing a Giant/Liv/Momentum brand logo as a startup animation followed by the battery level indication. After that the riding page will be displayed and you are ready to go.
- Press the “Power on/off” button (A) for at least 1.5 seconds and release the button to turn the system off. The LED indicator will fade out with the display showing “See you” before shutting down the screen.

Screen

1. Wireless connection: It indicates the wireless connection between the bike and the RideControl app is activated.
2. Light status: The icon indicates that the bike light is switched on/off.
3. E-shift: This icon appears to indicate the electronic shifting status.
   - A: Automatic shift mode
   - M: Manual shift mode

   The number below “A” or “M” indicates the rear gear level.
4. Clock time: Showing the clock time.
5. Battery status: It indicates the current EnergyPak remaining power from 100% to 0%.
   - When battery power is less than 3%, the battery icon starts blinking. The system will switch to the lowest assist level.
   - When battery power is indicated to be less than 1%, the battery icon will continue blinking. The power assist system will automatically shut off. The bike light will continue to function for at least 2 hours as a safety feature.

INFO

- The battery status, clock time, and light on/off will always stay on the status bar. The other icons will show once the function is working.
- Please download the latest version of the RideControl App to access all features. Please note that some functions are exclusive to specific bike models or components. For detailed information, please check the feature compatibility chart or consult an authorized dealer.

Assist mode

Each assist mode has a dedicated screen background color for easier recognition, shown as below:

Assist level	Background color
OFF	Grey
ECO	Light green
TOUR	Green
ACTIVE	Yellow
SPORT	Orange
POWER	Red
AUTO - Smart Assist	Blue

- Assist levels availability and power ratio per level depend on SyncDrive motor type and factory system settings.
- The POWER level offers the strongest power assist, but has the highest energy consumption.
- The ECO level offers the lowest Power Assist, but has the highest distance range.

Data fields

Data fields are used to display variable information of your ride in a single riding page. The number of displayed information can be modified through the setting menu, and it can be customized from 1 to 2 (maximum 4 in a page). You can also define how many riding pages you would like to show. Default setup of riding pages and data fields (6 pages, 1 field each):

- SPEED: Current riding speed.
- REMAINING RANGE: Estimated remaining battery range based on selected assist level.
- DISTANCE: Accumulated riding distance since last reset.
- TRIP TIME: Accumulated riding time since last reset.
- CADENCE: Current pedaling speed in rpm (rotations per minute).
- ODO: Total riding distance since the first use.

INFO

- The actual battery range varies depending on terrain conditions, rider's condition, riding style, and weather. Always check the battery range before each ride to ensure sufficient power. Note that factors such as terrain profile and wind conditions may affect the range during your ride.
- The maximum number of riding page is 10, and the minimum is 1.

Bike light and screen brightness

- Press the button (A) after the system on to switch the bike lights on or off.
- The light status can also be identified from the icon on the status bar.
- The RideControl Go Lux has a built-in light sensor for automatically adjusting the screen brightness between day/night modes in response to the surrounding brightness level. When it is turned to be manual mode, the day/night screen brightness will follow the front light switch to be in day/night mode when the light is off/on.

INFO

- An additional remote control is required for main functions and advanced settings. To adjust screen brightness, navigate to Settings > Riding > Brightness.
- System functionality varies based on the connected RideControl remote.

Battery status bar

There are ten battery levels for indicating the remaining range with a 10% intervals in between. When it's below 20% there will be a sequence of colored icons for notifying the low battery status:

- 19%-10%: yellow constant light
- 9%-4%: red constant light
- 3%-0%: red flashing

INFO

When the e-bike is equipped with dual batteries, two battery status icons will be displayed. The icon on the left represents the secondary battery, while the icon on the right indicates the main battery. The battery percentage is the combined total of both batteries.

System events (error code)

There are three types of pop-up notification for notifying different levels of system event: When a malfunction occurs, the system event warning screen is displayed.

- Level 3: Warning

  This system event level indicates critical conditions caused by malfunctions or errors that may prevent riding. When this message appears, we recommend inspecting the bike or consulting an authorized dealer for further assistance. The level 3 warning message can only be cleared manually. Pressing any button will dismiss the warning message, and a wrench icon will appear on the status bar.

- Level 2: Caution

  Level 2 caution messages will notify you of any secondary errors or status conditions. While these events do not immediately affect system operation, they require attention (such as abnormal tire pressure). The level 2 notification will automatically disappear after 3 seconds, or you can dismiss it by pressing any button during this period. Similar to level 3 warnings, a wrench icon will appear on the status bar after the message disappears.

- Level 1: Notification

  Level 1 notifications display system status changes or responses to your operations (such as e-shift gear changes). These notifications will automatically disappear after 3 seconds, or you can dismiss them by pressing any button during this period. Unlike higher-level warnings, no wrench icon will appear on the status bar for level 1 notifications.

Quick troubleshooting steps

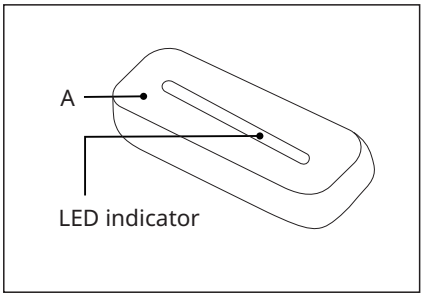
1. Make a note of the event description on the display.
2. Turn the system off.
3. Check for any cause that can be solved at the moment such as a tire puncture or system restart.
4. If the issue is without safety concern, try to exclude the issue and restart the system.
5. If the issue is successfully solved, you can continue your ride but please schedule a service check at authorized e-bike stores for ensuring there's no remaining issue / maintenance required.
6. If the issue still exists, repeat step 1-4.
7. Stop riding for your own safety if several checks still cannot solve the issue, contact authorized dealer for service and repair.

3.3.3 RideControl Go 2

The RideControl Go 2 is a top tube integrated on/off button with a LED light bar and front light switch. With the philosophy of simplicity, it not only provides an intuitive user experience, but also delivers a pure aesthetics in a clean, sleek design.

Function Operation:

- Power on/off
  - Power on: Short press the button (A)
  - Power off: Press and hold the button (A) >1.5s
- Light on/off
  - Short press the button (A)



INFO

Additional remote control units (such as the RideControl Ergo 4) are required to operate main functions and advanced settings.

Power on/off

- Press the “Power on/off” button (A) to turn the system on, the LED indicator will be illuminated in 2 seconds.
- Press the “Power on/off” button (A) for at least 1.5 seconds and release the button to turn the system off. The LED indicator will fade out.

Bike light and screen brightness

Press the button (A) after the system on to switch the bike lights on or off.

INFO

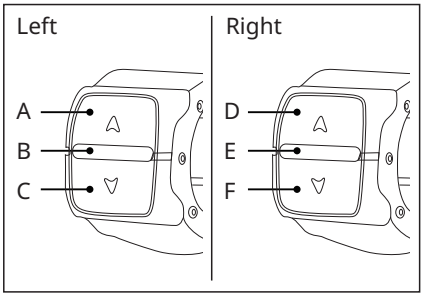
- The RideControl Go 2 has a built-in light sensor. When it accompanies with the display (ex. RideDash Evo 2.0), it will automatically adjust the screen brightness between day/night modes in response to the surrounding brightness level.
- Additional RideControl remote and RideDash display (such as RideControl Ergo 4 and RideDash Evo 2.0) are required for accessing main functions and advanced settings.
- For adjusting the screen brightness level, navigate to Settings > Riding > Brightness.

3.3.4 RideControl Ergo 4

The RideControl Ergo 4 is a multifunctional switch designed for intuitive control with a sleek cockpit integration. The ergonomic button layout provides you an effortless, easy-to-operate interface that you can activate the e-bike function with the minimum range of finger movements. With the combination of the RideControl Go 2 or RideControl Go Lux, you can control all e-bike functions in a snap. Fast and Fun!

Function Operation:

- Assistance level up
  - Short press the button (A)
- Walk assist
  - Press the button (B) >1.5s then press and hold the button (C)
  - Stop walk assist function: Release the button (C)
- Assistance level down
  - Short press the button (C)
- Activate Smart Assist (AUTO)
  - Press and hold the button (A) >1.5s



- Switch riding page (right)
  - Short press the button (B)
- Setting menu
  - Short press the buttons (A) & (C) simultaneously
- Confirm menu selection
  - Short press the button (B)
- Switch riding page (left/right)/ *e-shift (gear up/down)
  - Short press the button (D) or (F)
- Manual / Autoshift mode*
  - Short press the button (E)
  - Press (D) or (F) in Auto mode for preferred cadence setup.

INFO

* This feature is only available when the bike is equipped with e-shift. In that case, the rider will have to use button (B) for switching the riding page only to the right.

- To access main functions and advanced settings, an additional display unit (such as the RideControl Go Lux) is required.
- Up to two RideControl Ergo 4 units can be connected to the system. Note that button functions cannot be customized through the RideControl App. When using either one or two RideControl Ergo 4 units, the system will operate with default button configurations.
- Due to local regulations, the Walk Assist function is not available in certain regions/countries.

Switch the assist mode

Press the button (A) or (C) to change the assist mode.

Smart Assist (AUTO) mode

- In Smart Assist (AUTO) mode, the SyncDrive motor will adapt the assist pattern automatically in response to the terrain and rider's input.
- Press and hold the button (B) for 1.5 seconds to activate the Smart Assist with the assist level showing "AUTO" on the display.
- When operating in the Smart Assist (AUTO) mode, you may press either button (A) or (C) to switch to manual assist mode. The system will always default to ACTIVE mode when exiting from AUTO mode.

Assist off

You may also turn the motor assist off to ride with your own efforts.

- Go through the assist modes with the button (C), until the screen shows "OFF" with its estimated remaining range.
- All other system functions remain available.

Walk assist

The walk assist is a feature to drive the bike forward when you walk the bike. By activating this function, the drive unit will slightly propel the rear wheel to ease the bike weight. Depending on how fast you walk the bike, the walk assist can support up to a speed of 6 km/h (4 mph).

- Press the button (B) for 1.5 seconds to set the walk assist stand-by.
- Press the button (C) within 3 seconds to activate the walk assist.
- Release the button (C) to pause the walk assist. By pressing the button (C) within 3 seconds after pause, the walk assist will be working again.

INFO

- If there's no command to activate the walk assist within 3 seconds after either pressing the button (B) for walk assist stand-by or leaving button (C) for a pause in use, the walk assist will end and return to the normal riding page.
- Due to local regulations, the Walk Assist function is not available in certain regions/countries.

Data fields

Data fields are used to display variable information of your ride in a single riding page. You can scroll between them by a single press of the button (B). Default setup of riding pages and data fields (6 pages, 1 field each):

- SPEED: Current riding speed.
- REMAINING RANGE: Estimated remaining battery range based on selected assist level.
- DISTANCE: Accumulated riding distance since last reset.
- TRIP TIME: Accumulated riding time since last reset.
- CADENCE: Current pedaling speed in rpm (rotations per minute).
- ODO: Total riding distance since the first use.

INFO

- The actual battery range varies depending on terrain conditions, rider's condition, riding style, and weather. Always check the battery range before each ride to ensure sufficient power. Note that factors such as terrain profile and wind conditions may affect the range during your ride.
- You can also press the button (D) or (F) to switch between different riding pages.

Setting menu

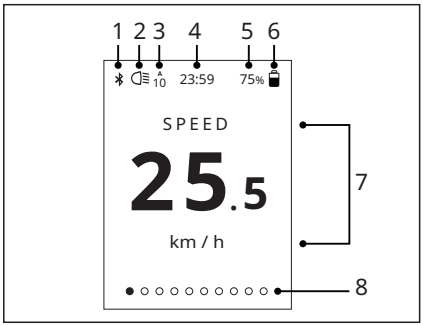
Short press the buttons (D) and (F) simultaneously to access the settings menu. While in the settings menu, buttons (D) and (F) will function as setting controls. These buttons will return to their riding function controls when you exit the settings menu.

3.3.5 RideDash Evo 2.0

The RideDahs Evo 2.0 is an e-bike display with a full color 2.5-inch screen that delivers the information of your trip, rider data, and system status. The glass screen, high resolution and frame rate provides a smooth user experience and visibility.

Display Items:

1. Wireless connection
2. Light status
3. E-Shift
4. Clock time
5. Battery status
6. Battery status bar
7. Data field
8. Riding page



INFO

The RideDash Evo 2.0 is a display screen that delivers the information and will need to go together with RideControl remote buttons (ex. RideControl Ergo 4) for operating the e-bike functions.

Screen

1. Wireless connection: It indicates the wireless connection between the bike and the RideControl app is activated.
2. Light status: The icon indicates that the bike light is switched on/off.
3. E-shift: This icon appears to indicate the electronic shifting status.
   - A: Automatic shift mode
   - M: Manual shift mode

   The number below “A” or “M” indicates the rear gear level.
4. Clock time: Showing the clock time.
5. Battery status: It indicates the current EnergyPak remaining power from 100% to 0%.
   - When battery power is less than 3%, the battery icon starts blinking. The system will switch to the lowest assist level.
   - When battery power is indicated to be less than 1%, the battery icon will continue blinking. The power assist system will automatically shut off. The bike light will continue to function for at least 2 hours as a safety feature.

INFO

- The battery status, clock time, and light on/off will always stay on the status bar. The other icons will show once the function is working.
- Please download the latest version of the RideControl App to access all features. Please note that some functions are exclusive to specific bike models or components. For detailed information, please check the feature compatibility chart or consult an authorized dealer.

Data fields

Data fields are used to display variable information of your ride in a single riding page. The number of displayed information can be modified through the setting menu, and it can be customized from 1 to 2 (maximum 4 in a page). You can also define how many riding pages you would like to show. Default setup of riding pages and data fields (6 pages, 1 field each):

- SPEED: Current riding speed.
- REMAINING RANGE: Estimated remaining battery range based on selected assist level.
- DISTANCE: Accumulated riding distance since last reset.
- TRIP TIME: Accumulated riding time since last reset.
- CADENCE: Current pedaling speed in rpm (rotations per minute).
- ODO: Total riding distance since the first use.

INFO

- The actual battery range varies depending on terrain conditions, rider's condition, riding style, and weather. Always check the battery range before each ride to ensure sufficient power. Note that factors such as terrain profile and wind conditions may affect the range during your ride.
- The maximum number of riding page is 10, and the minimum is 1.

Bike light and screen brightness

- The light status can also be identified from the icon on the status bar.
- The day/night screen brightness will follow the front light switch to be in day/night mode when the light is off/on.
- You may also adjust your preferred day/night time screen brightness level through Settings > Riding > Brightness.

INFO

System functionality varies based on the connected RideControl remote button.

Battery status bar

There are ten battery levels for indicating the remaining range with a 10% intervals in between. When it’s below 20% there will be a sequence of colored icons for notifying the low battery status:

- 19%-10%: yellow constant light
- 9%-4%: red constant light
- 3%-0%: red flashing

INFO

When the e-bike is equipped with dual batteries, two battery status icons will be displayed. The icon on the left represents the secondary battery, while the icon on the right indicates the main battery. The battery percentage is the combined total of both batteries.

Assist mode

Each assist mode has a dedicated screen background color for easier recognition, shown as below:

Assist level	Background color
OFF	Grey
ECO	Light green
TOUR	Green
ACTIVE	Yellow
SPORT	Orange
POWER	Red
AUTO - Smart Assist	Blue

- Assist levels availability and power ratio per level depend on SyncDrive motor type and factory system settings.
- The POWER level offers the strongest power assist, but has the highest energy consumption.
- The ECO level offers the lowest Power Assist, but has the highest distance range.

Setting menu

While in the settings menu, buttons will function as setting controls. These buttons will return to their riding function controls when you exit the menu.

System events

There are three types of pop-up notification for notifying different levels of system event: When a malfunction occurs, the system event warning screen is displayed.

- Level 3: Warning

  This system event level indicates critical conditions caused by malfunctions or errors that may prevent riding. When this message appears, we recommend inspecting the bike or consulting an authorized dealer for further assistance. The level 3 warning message can only be cleared manually. Pressing any button will dismiss the warning message, and a wrench icon will appear on the status bar.

- Level 2: Caution

  Level 2 caution messages will notify you of any secondary errors or status conditions. While these events do not immediately affect system operation, they require attention (such as abnormal tire pressure). The level 2 notification will automatically disappear after 3 seconds, or you can dismiss it by pressing any button during this period. Similar to level 3 warnings, a wrench icon will appear on the status bar after the message disappears.

- Level 1: Notification
  - Level 1 notifications display system status changes or responses to your operations (such as e-shift gear changes). These notifications will automatically disappear after 3 seconds, or you can dismiss them by pressing any button during this period. Unlike higher-level warnings, no wrench icon will appear on the status bar for level 1 notifications.

Quick troubleshooting steps

1. Make a note of the event description on the display.
2. Turn the system off.
3. Check for any cause that can be solved at the moment such as a tire puncture or system restart.
4. If the issue is without safety concern, try to exclude the issue and restart the system.
5. If the issue is successfully solved, you can continue your ride but please schedule a service check at authorized e-bike stores for ensuring there's no remaining issue / maintenance required.
6. If the issue still exists, repeat step 1-4.
7. Stop riding for your own safety if several checks still cannot solve the issue, contact authorized dealer for service and repair.

3.3.6 Aegis Tire Checker

The Aegis Tire Checker is a smart sensor that monitors the tire pressure real-time for ensuring the best performance and rider safety. The fully automatic Tire Checker will be activated instantly once the bike is turned on, getting you well prepared before hitting on the road. An abnormal pressure alert will notify through either the remote controls or RideControl App once the tire pressure researches the upper/lower limit or has a sudden drop.

NOTICE

Make sure to remove the insulation pad attached to the battery in the Aegis Tire Checker before use.

Setting & Use

You can always set up the alert threshold with your own preference and riding style through the RideControl app and remote controls.

1. You can set up preferred tire pressure alert threshold through both RideControl app and remote controls:
   - RideControl app: E-bike Setup > Aegis Tire Checker Setup
   - Remote controls: Settings > Accessories > Tire pressure sensor

2. The tire pressure will be displayed not only in the startup animation following the battery level indication. You can also read the instant tire pressure by adding a data field in the riding screen or on the RideControl app in the Aegis Tire Checker setting menu.
3. The Aegis Tire Checker is ultra-sensitive. In general, by turning on the e-bike you can read the tire pressure instantly. If not, try to move the bike or roll the wheels to activate the tire checker.
4. The Aegis Tire Checker will notify you if the tire pressure is below/over the setting value or when the tire pressure has a rapid drop. The notification will be sent on both the e-bike display and RideControl app with acoustic alert. For your own safety, when warned with an abnormal tire pressure, please stop by and check if's a puncture or simply because the pressure is too low.
5. The LED indicator at the front side shows the status of the Aegis Tire Checker, refer to the chart below for detailed information.

Color	Behavior	Status
Green	Blinking (2 secs interval)	The Aegis Tire Checker is activated
Red	Blinking (2 secs interval)	Battery low
Red	Blinking (1 sec interval)	Abnormal tire pressure detected
Red and green	Blinking (1 sec interval)	The firmware is updating

Battery replacement

The Aegis Tire Checker has a claimed battery life for up to 600 hours, depending on the use case the actual number can be vary. If one of the events happens, it indicates the battery level is low, please replace with a CR1632 type coin battery:

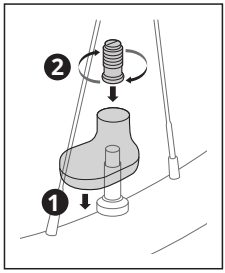
- A red blinking LED on the tire checker.
- Battery low notification on the e-bike display.
- Battery low notification on the RideControl App.

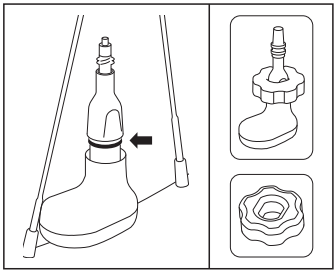
WARNING

- Never dispose of batteries in a fire.
- Do not use sharp or conductive objects to remove the battery.
- Coin cell: Coin battery are hazardous and must be kept away from children. Never put batteries in mouth or in any part of the body. Severe or fatal injuries can occur within 2 hours if swallowed or placed inside the body. If this occurs or is suspected, seek medical attention immediately.

Installation Notice

- Align and insert Tire Checker to valve stem. Hold in place and tighten inner sleeve by hand or 3mm hex wrench (Torque: 0.3Nm).
- Hold Tire Checker and tighten outer valve until o-ring is NOT VISIBLE. Use attached lock tool for easy assembly (Torque: 0.8Nm~1.25Nm)





Maintenance Guide

Recommended Lubricants

Use silicone-based or mineral oil-based grease for outer sleeve installation and O-ring protection. Mineral oil-based grease is recommended due to wider availability. Compatible products include PUFF DINO 197 Yellow Grease (lithium-based) and Shimano CABLE GREASE (silicone + lithium-based).

Important: Do NOT use rust-removal products (such as WD-40), cleaning solutions, strong solvent-based greases, or oily cleaners, as these may damage components.

Cleaning Instructions

If Aegis Tire Checker malfunctions due to tire sealant contamination, clean it using only a dry cloth or cotton swab. Avoid liquid cleaning agents as they may cause additional problems. Metal components like the outer sleeve can be cleaned with water. Clear all small holes of blockages and ensure thorough drying of all components before reassembly.

CAUTION

Take care not to scratch component surfaces during cleaning as this may compromise sealing effectiveness.

3.3.7 Aegis Radar

The Aegis Radar is an integrated safety system that combines rear light functionality with vehicle detection. The system actively detects vehicles approaching from behind and automatically adjusts the rear light flash pattern to enhance visibility. Vehicle proximity alerts are displayed on the screen, providing riders with real-time awareness. The system seamlessly integrates with the rear light assembly to deliver a reliable and worry-free cycling experience.

WARNING

The radar serves as a reference of approaching vehicles for minimizing the potential risk of bike accident. However, please pay attention to the surroundings when riding and do not complete rely on the radar for your own safety.

INFO

The Aegis Radar requires a compatible display unit (such as RideControl Go Lux, RideControl Dash 2, or RideDash Evo 2.0) to show information and alerts.

Setting

Radar on/off

The default setting is “on”. When Aegis Radar is off, the right lane display and the sound notification will be deactivated.

Radar beeper on/off

The default setting is “on”. When Aegis Radar beeper is off, the right lane display will be remained, and the alert notification will be turned off.

INFO

Using the setting menu or the RideControl App to adjust the settings.

Aegis radar detection

Specification	Details
Detection distance	Up to 140 m
Detection vehicle relative speed	From 10 to 100 km/h (6 to 60 mph)
Detection vehicle number	Up to 8 units
Radar beam width	40 degrees

Viewing radar on the display

When the radar detects the vehicle approaching the e-bike from behind, it will display the information as dots on the screen. The color will change according to the potential threat level, accompanied by the beeper alarm to provide the warning.

Color	Situation	Beeper alarm
Red	Vehicle approaches with high speed (speed difference ≥ 60km/h)	twice
Green	Vehicle approaches with low speed (speed difference < 60km/h)	once

INFO

- Red warning indicators appear at both the upper and lower screen boundaries.
- Aegis radar's accompanying taillight will flash to alert approaching vehicles from behind to enhance safety.

Safety information

Read the safety information and the manual before using. Improper use can cause damage of the component and/or injuries.

WARNING

- The Aegis Radar serves only as an assistance tool and cannot replace your visual judgment and road condition observation.
- Stay alert and regularly check for approaching vehicles using your mirrors. Do not rely solely on the radar system.
- Adverse weather conditions (such as heavy rain or fog) may affect radar detection performance.
- Radar detection may be limited when turning, in tunnels, or under complex road conditions.

NOTICE

- Keep the radar sensor and taillight assembly clean to prevent dirt from affecting detection performance.
- Check the radar system regularly to ensure proper operation.
- If any abnormality is detected (such as false alerts or detection failure), contact an authorized dealer immediately for inspection.

3.3.8 E-Lock

For ensuring the bike safety and a worry-free e-cycling experience, the e-bike has an E-Lock feature that protects your bike from the theft by shutting off the motor. You can simply lock/unlock the e-bike through the wireless communication via the RideControl app.

E-Lock setup

1. Before setting up the E-Lock, please make sure to finish the process of e-bike activation and owner registration. Only registered user with a valid Giant ID can activate the E-Lock function
2. Turn on your e-bike.
3. Connect your e-bike with RideControl app.
4. Find the E-Lock setting button at the e-bike setup main page.
5. Set up the user 4-digit pin code for the E-Lock.
6. The code will be stored exclusively for the bike owner, which has been connected to the Giant ID in the process of E-Lock activation. After the pin code being set up you can lock/unlock the e-bike simply with the virtual button on the RideControl app.

Use the E-Lock

1. Turn the e-bike on. The locking status will remain the same as the system being turned-off.
2. Connect the RideControl app to your e-bike.
3. Find the E-Lock icon/button on the top right side at the home page, following the name of connected e-bike.
4. Press this virtual button to lock/unlock your e-bike.
5. You can also unlock your e-bike by using the RideControl Dash 2 or RideDash Evo 2.0/RideControl Ergo 4 with the user pin code:
   - Enter the setting menu, find the E-lock setup under the page of riding. By selecting the “Manual Lock” the e-bike will be locked.
   - To unlock your e-bike, simply press any key then you can enter the 4-digit pin code.
   - Press confirm to unlock after entering the pin code.
   - If a wrong password is assigned, you will be notified and have to enter the pin code again.

WARNING

- Keep your PIN code secure and confidential. Never share it with others or record it in places where others might see it.
- If you forget your PIN code, please contact an authorized dealer for assistance. Do not attempt to force unlock the system as this may cause damage.
- For enhanced security, it is recommended to use E-Lock in combination with a traditional mechanical lock rather than relying solely on the E-Lock feature.

NOTICE

- Regularly check if the E-Lock function is working properly to ensure system security.
- If any abnormality is detected, contact an authorized dealer immediately for inspection.

INFO

The E-Lock is a bound-account-only feature for ensuring the bike security. Any user aside from the bike owner can still connect to the e-bike but only the general functions will be available

3.4 Keys

Several models come standard with two identical keys that fit the battery lock and/or bike lock. Without 1 of the keys, the lock(s) cannot be unlocked.

NOTICE

- Always bring the key when visiting the dealer for maintenance or repairs.
- Store the key and key number tag together with the bike's frame number and other documents.
- It is recommended to have a qualified locksmith make an extra spare copy of the original key and store it separately.

3.5 Riding range

The range on one charge strongly depends on several circumstances, such as (but not limited to):

- The total vehicle weight including the rider, passengers and cargo loaded onto the bike.
- Weather conditions, such as ambient temperature and wind.
- Road conditions, such as elevation and road surface.
- Bike conditions, such as tire pressure and maintenance level.
- Amount of charge and discharge cycles.
- Age and condition of the EnergyPak.
- Bike usage, such as acceleration and shifting.
- Assist level(s) used.
- User assist level settings (by smartphone app).

4 Transport & Storage

Transport

CAUTION

- Any removable (electronic) parts, such as the charger and EnergyPak, should always be removed from the e-bike before transport.
- Always follow the instructions provided by the manufacturer(s) of the vehicle and/or bicycle carrier being used for transporting the e-bike.

NOTICE

- Avoid transporting the e-bike in bad weather conditions when possible.
- Properly cover any exposed electronic parts during transport when transport in bad weather conditions can not be avoided.
- High speeds combined with wind and rain could cause moisture to be pressured into the electronic parts, which can lead to temporary malfunctions or permanent defects.
- If a malfunction occurs after transport in such conditions, remove the EnergyPak and allow all parts to dry by air when the destination is reached.

E-bike storage

Store the e-bike in a location where it is protected from the elements whenever possible.

NOTICE

- Snow, rain, road salts and acids can cause certain parts of the e-bike to corrode or deteriorate.
- Ultraviolet light from the sun can fade the paint and can cause rubber or plastic parts to become porous or to crack.
- Exposure to excessively high or low temperatures during storage can cause temporary malfunctions or even permanent defects.

Battery storage

Disconnect and remove the EnergyPak from the bike for long term storage.

CAUTION

- Store the EnergyPak in a dry, safe location.
- Store the EnergyPak at a environmental temperature between -20°C and 50°C (-4°F~122°F)
  - -20°C~50°C (-4°F~122°F): For storage within 1 month.
  - -20°C~40°C (-4°F~104°F): For storage between 1-3 months.
  - -20°C~20°C (-4°F~68°F): For storage between 3-12 months.

NOTICE

- Store the EnergyPak at an appropriate temperature, or it can decrease battery health and overall service life.
- Store the EnergyPak at about 60% charge level.
- Check the EnergyPak charge level monthly during longer storage periods.
- Recharge the Energypak when charge level has dropped below 60%.
- Charge the EnergyPak to 60% at least once in every 3 months.
- Improper storage and/or long term neglect of the EnergyPak can cause decreased capacity and defects, and may void the factory warranty.

5 Maintenance

Regular maintenance and cleaning are essential for optimal performance and safety.

INFO

Make sure to also read the information on maintenance on the website and in general bike owner's manual.

Cleaning

Use a soft cloth or brush, optionally with a minimal amount of a neutral cleaning solution, to wipe dirt off. Wipe dry with a clean soft cloth afterwards.

CAUTION

- Do not use high-pressure water or air hoses for cleaning. It can force water into (sealed) electric components, which may cause malfunctions and defects.
- Do not wash the E-bike components with excessive water. If water reaches internal electrical parts, it may cause malfunctions and other problems.

NOTICE

Do not use non-neutral cleaning solutions to wash the components. Nonneutral solutions may cause materials to deteriorate, change colour, distort, scratch etc.

Drivetrain

WARNING

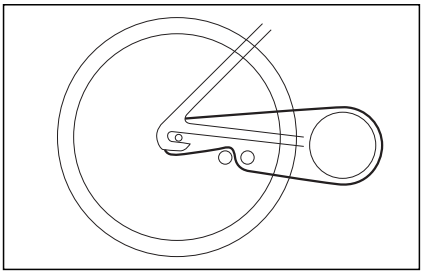
Always remove the battery when checking the chain tension. Placing your hands (or other body parts) anywhere on the drivetrain while the system is still powered, could result in sudden activation of the motor.

CAUTION

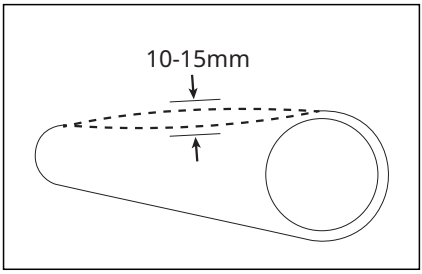
- Any adjustments or replacements should only be performed with proper tools by a trained mechanic.
- Ask your dealer for more information and support on your E-bike’s technical maintenance.

Chain tension

Some models have an internal gear hub in the rear wheel. It may also have an automatic chain-tensioner that maintains proper chain tension. If there is too much slack on the chain, the tension may have to be adjusted, or the chain may have worn out and needs to be replaced.



How to check chain tension



To check the chain tension, block crankarm rotation and hold the chain in the middle section between the front and rear sprockets.

- Move the chain up and down to check the slack on the chain.
- There should be between 10-15mm of vertical movement.
- If the movement is significantly more or less, contact your dealer for technical service.

Belt Drive

Read the belt drive manufacturer's operating instructions provided with the E-bike for technical specifications and requirements. All models with belt drive have sliding rear drop-outs and tension adjustment screws to adjust the belt tension. The adjustment procedure for a belt drive is the same as for a chain.

6 Disposal

According to directive 2006/66/EC of the European Parliament, defective or used batteries, battery packs or single cells must be collected separately and disposed of in an environmentally friendly manner.

Used cells and batteries are recyclable economic goods. In accordance with the marking showing a crossed-out waste bin, these batteries may not be disposed of as domestic waste.

NOTICE

- Used batteries must be treated as hazardous waste.
- Batteries must be disposed of in accordance with the relevant national environmental protection regulations.
- Return batteries to a recycling facility, or an authorized Giant dealer.
- In case of uncertainty contact Giant customer service department.

7 Legal documentation

7.1 Warranty

Giant/Liv/Momentum warrants for the original owner only the frame, rigid fork, or original component parts of each new Giant/Liv/Momentum brand bicycle to be free from defects in material and workmanship for the following specified periods.

Warranty of two years for electronic equipment such as:

- RideControl display & Buttons
- SyncDrive motor
- EnergyPak battery: a maximum of 600 charges to 60% of original nominal capacity.
- Wiring

Please refer to the label of regulation on the frame for the maximum total permissible bike of your e-bike since the permissible overall loading is subject to change with the bike specification and riding scenarios.

For all other parts and components, refer to the general user manual that is delivered with this e-bike as well. That user manual is leading in case of any issues. The information below and in Exclusions on page 54 is only for reference.

Required Assembly When Purchased

This warranty applies only to bicycles and frame sets purchased new from an Authorized Giant/Liv/Momentum Dealer and assembled by that dealer at the time of purchase.

Limited Remedy

Unless otherwise provided, the sole remedy under the above warranty, or any implied warranty, is limited to the replacement of defective parts with those of equal or greater value at the sole discretion of Giant/Liv/Momentum. This warranty extends from the date of purchase, applies only to the original owner, and is not transferable. In no event shall Giant/Liv/Momentum be responsible for any direct, incidental or consequential damages, including, without limitation, damages for personal injury, property damage, or economic losses, whether based on contract, warranty, negligence, product liability, or any other theory.

Giant/Liv/Momentum makes no other warranties, express or implied. All implied warranties, including the warranties of merchantability and fitness for a particular purpose are limited in duration to that of the express warranties stated above. Any claim against this warranty must be made through an Authorized Giant/Liv/Momentum or distributor. The purchase receipt or other proof of the date of purchase is required before a warranty claim may be processed. Claims made outside the country of purchase may be subject to fees and additional restrictions. Warranty duration and detail may differ by frame type and/or by country. This warranty gives you specific legal rights, and you may also have other rights which may vary from place to place. This warranty does not affect your statutory rights.

7.2 Exclusions

Normal wear and tear on parts such as tires, chains, brakes, cables and gearwheels in situations where there are no assembly or material defects.

- Bicycles serviced by other than an Authorized Giant/Liv/Momentum dealer.
- Modifications from the original condition.
- Use of the bicycle for abnormal, competition and/or commercial activities or for purposes other than those for which the bicycle was designed.
- Damage caused by failing to follow the user manual.
- Paint finish and decal damage resulting from taking part in competitions, jumping, downhill and/ or training for such activities or events or as a result of exposing the bike to, or riding the bike in, severe conditions or climates.
- Labour charges for part replacement or changeover.

Except as is provided by this warranty and subject to all additional warranties Giant/Liv/-Momentum and its employees and agents shall not be liable for any loss or damage whatsoever (including incidental and consequential loss or damage caused by negligence or default) arising from or concerning any Giant/Liv/Momentum bicycle.

7.3 Conformity

CE

Hybrid power bicycles with a maximum support speed of 45km/h fulfil the requirements of EU Directive 168/2013/EC for L1e-B category vehicles.

Hybrid power bicycles with a maximum support speed of 25km/h fulfil the requirements of EU Machinery Directive 2006/42/EC.

The A-weighted emission sound pressure level at the rider's ears is less than 70 dB(A).

These bicycles also comply with the following non-harmonized standards:

- Bicycle standard: ISO 4210-2
- Electric bicycles: EN 15194
- Electric bicycles-Mountain: EN 17404

The declaration of conformity for your specific e-bike can be found as an inlay in this user manual.

7.4 Disclaimer

Do not tamper with your bicycle. Tampering is removing or replacing any original equipment or modifying your bicycle in anyway that may change its design and/or operation. Such changes may seriously impair the handling, stability and other aspects of the bicycle, making it unsafe to ride. Tampering can void the warranty and render your bike not in compliance with the applicable laws and regulations. To ensure safety, quality and reliability, use only original parts or Giant/Liv/Momentum authorized replacements for repair and replacement. Giant/Liv/Momentum is not responsible for any direct, incidental or consequential damages, including, without limitation, damages for personal injury, property damage, or economic losses due to tampering.

7.5 FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

INFO

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with radio frequency exposure limits set forth by the FCC for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 5mm between the device and the user or bystanders.

This device must not be co-located or operating in conjunction with any other antenna or transmitter.

GIANT EUROPE B.V. | Pascallaan 66 8218 NJ Lelystad

GIANT UK LTD. | Charnwood Edge, Syston Road, Cossington, LE7 4UZ, UK

GIANT BICYCLE CO., PTY LTD. | Unit 7, 3-5 Gilda Court Mulgrave Vic 3170 Australia

GIANT BICYCLE INC. | 3587 Old Conejo Road, Newbury Park, CA 91320, USA

GIANT BICYCLE CANADA INC. | 100-2255 Dollarton Highway, North Vancouver, BC V7H 3B1, Canada