



# F23 Installation and User Manual

English

Last Update: Jan 2024

# Preface

Dear Customer,

Welcome to the Byqee family. We are thrilled that you have joined us on this journey.

This manual is applicable for the Byqee F23 model.

This product is environmentally friendly and designed for urban transportation.

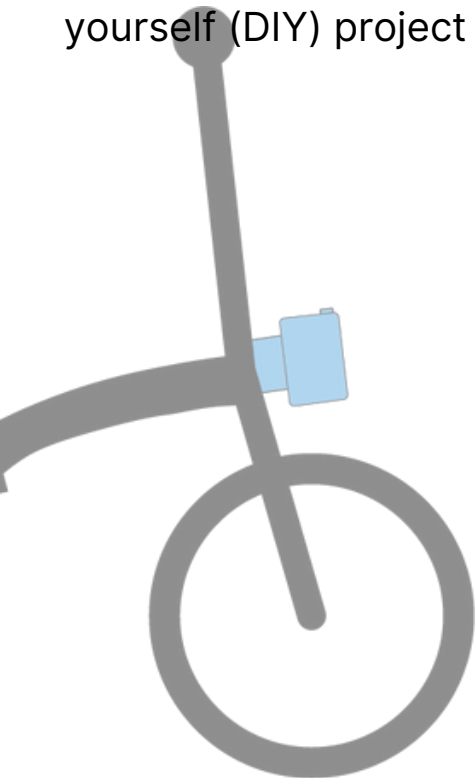
Byqee assumes that all individuals involved in the use, repair, maintenance, cleaning, or disposal of this or any Byqee product have fully read and understood these instructions. Furthermore, Byqee does not accept responsibility for any injuries or damages resulting from the misuse of any Byqee product.

# What is Byqee?

Byqee is an eco-friendly electric bike conversion kit.

It is an alternative micro-mobility product for urban transportation that allows you to quickly set up on either your existing bike or a new one and hit the road.

Byqee, with its innovative design and ultra-light battery, is compact enough to carry with you, offers a high cruising pleasure, and is a personalized do-it-yourself (DIY) project made just for you.



# Proper Use

Always make sure all components are properly attached before riding. Neglecting this can lead to problems later on.

Always adhere to the rules specified for cycling.

To reduce the risk of accidents and injuries, prioritize the use of helmets and knee pads.

Wear appropriate bright clothing and use accessories to increase visibility while cycling.

Ensure that front lights and rear lamps are operational to enhance night vision.

If you do not own lights, make sure to use reflectors.

Learn and use bicycle hand signals. Whether there is a bike lane or not, always be cautious while cycling.

# Warnings

Connect the battery to the charger when the warning light on the charge indicator turns red, do not wait for it to be completely depleted.

Use the pedals when you want to use your bike electrically. This way, your range will increase and the battery's lifespan will be extended.

For bikes without a license plate, the maximum speed is legally set at 25km/h, hence the maximum speed that Byqee kits can reach on flat ground is limited to 25km/h.

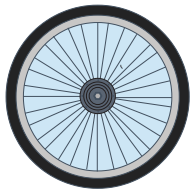


# Box Contents



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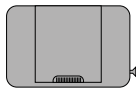
## Main Components



**Motorized Rim:** This is the main drive unit of your bike. It is manufactured by Byqee according to the dimensions of your bike.



**Battery Pack:** This is the power source for your bike. It has a capacity of 36V, 6.6Ah. Do not use the Byqee battery pack without its case. Protect it from impacts. When carrying it with you, ensure that no metal objects or any conductive materials come into contact with it.



**Bracket:** This is the housing for the battery pack. It facilitates power transfer between the power pack and the electric motorized wheel.



**Charger:** This is the device that charges the battery pack. Avoid direct contact with heat. Do not leave it under the sun. If the "Red" light is on, it means the battery is charging. When the "Green" light is on, it means the battery is fully charged, and you can remove the battery from the charger. You can only see if the battery is fully charged through the charger.

# Box Contents

## Major Add-ons



### **106DX Throttle**

It is used to control speed. It features an on/off button and an indicator.



### **103X Throttle**

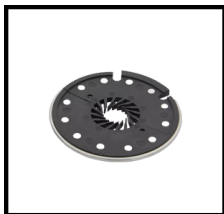
It is used to control speed.



### **On/Off Switch**

*(Pedal Sensor Package standard equipment)*

It turns the system on and off with the button on it.



### **B-PAS Pedal Assist Sensor**

*(Pedal Sensor Package standard equipment)*

It enables the B-PAS system to intelligently activate as you pedal.



### **Disc Brake Rotor**

*(Sold separately)*

Used for bicycles with disc brakes. Mounted on the motor.

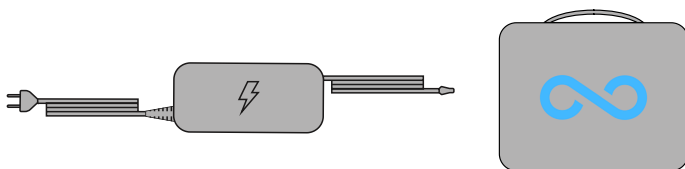


# Installation

Following the installation steps in order and correctly is important for the healthy use of your Byqee.

Byqee assumes that its users have thoroughly read and understood the installation steps. Therefore, Byqee is not responsible for any damages arising from incorrect or incomplete installations.

## 1- Plug-in your battery to charge!



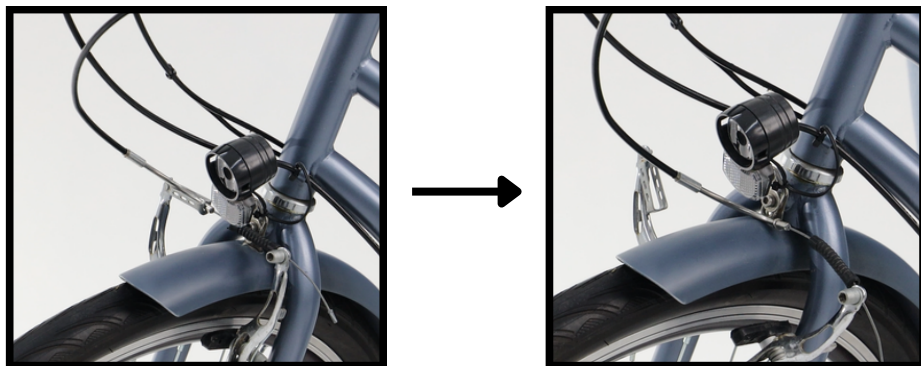
By plugging in your battery before installation, you not only ensure a full battery for the first use but also test the charging functions of the Charger and Battery Pack.

When you plug the charger into an AC outlet, the LED indicator on it should light up in "green". When you plug the DC socket into the charging port on the back of the battery, this indicator should turn to "red".

The "red" color indicates that your battery is charging, and the "green" color indicates that the charging is complete.

# Installation

## 2- Open the front brake (For V-brakes)



Open the front brake to easily remove the front wheel.

## 3- Turn your bicycle upside down

To continue with the installation more easily, turn your bicycle upside down. If you have any equipment on the handlebars could be damaged, don't forget to protect them.

## 4- Remove the front wheel nuts and separate the wheel

Unscrew the nuts located on the right and left sides of your front wheel, which hold your wheel to the bicycle's fork, with the help of a wrench. They are typically unscrewed with a wrench size between 14-18. Some bicycles use quick-release levers instead of nuts. In this case, you can easily remove the lever by hand.

After unscrewing, set your wheel aside to separate the rubber tire.

# Installation

## 5- Separate your tire



First, deflate your tire, and then use the lever (or the back of a metal spoon) provided in your box to separate the tire from the rim.

## 6- Install your tire onto your Byqee Motorized Wheel



In the exact opposite manner of the previous step, use the same lever to place your tire onto your new rim. Inflate it with a pump to make it ready for use.

*Note: For bicycles with disc brakes, please refer to the "Disc Brake Rotor" installation instructions.*

# Installation

## 7- Install your new Byqee wheel



**Attention:** In this step, for 100mm motors, the motor cable should be on the **right** side, and for 74mm motors, it should be on the **left** side.

Place your motorized wheel and tighten the nuts firmly with the help of a wrench. Return your brake to its original position.

## 8- Bracket assembly

**Caution:** Proper bracket assembly is crucial for the safe use of your Byqee set. Improper bracket installations may result in damage to your Byqee set during riding.

Before starting the assembly, turn your bicycle right side up again.



Place the front attachment device onto the front bag connection point of your bicycle.

**For Brompton brand bicycles, you can skip this step and use the original bag attachment device.**

# Installation



Install the mounting bolts from your box to secure the “Mounting Part” using a 4mm Allen key.

**For Brompton brand bicycles, you can bypass this step and use the original bag attachment device.**

Firmly position the bracket onto the “Mounting Part”.



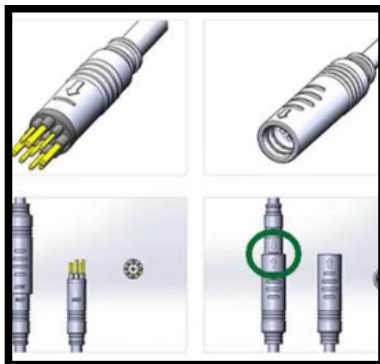
**Securing Screws: Do not apply this step for Brompton bicycles!** Locate the securing screw holes on the side of the bracket. Use these holes to mount the small black screws that came in your box, thereby securing the bracket.

**Once the bracket assembly is complete, it is recommended to check the steps once again!**



# Installation

## 9- Connect the Motor Cable



Connect the motor cable coming out of the bracket to the connection point on the motor.

**Caution:** The arrows on the cables **should face each other**, and you should push the cable until the lines of the arrows meet. An improperly seated motor cable connection can cause your motor to malfunction.

## 10- Attach the cables to the bicycle

Organize and secure the cables to your bicycle using the cable ties that came in your box.

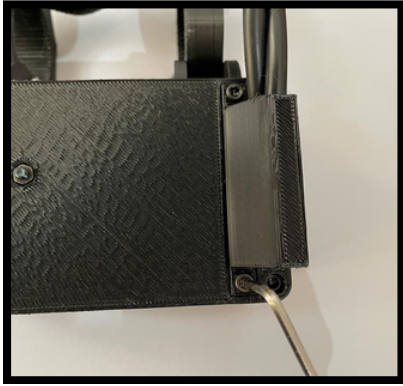
## 11- Install your accessories

Install the accessories included in your package as described in the following section.

## 12- Install your battery!

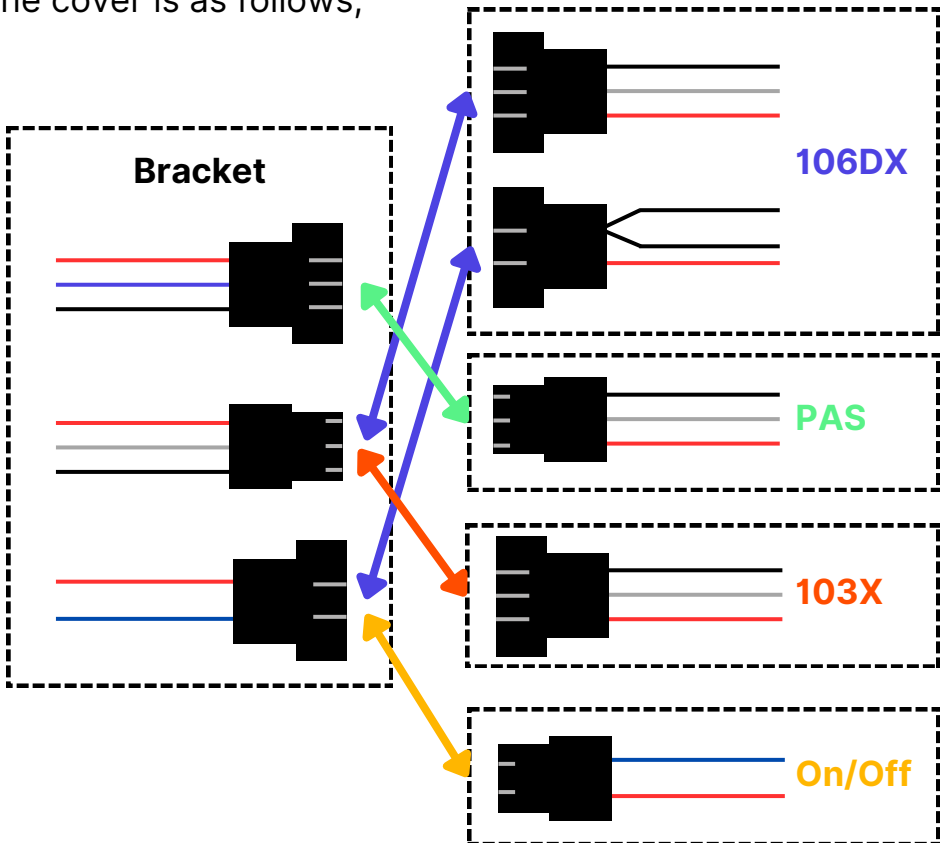
Your Byqee is now ready for use!

# Add-on Installation



The Byqee accessories that came in your box or those you acquired separately are connected to the connectors located under the outlet cover at the bottom of the bracket. To access the connectors, you can remove the cover using a 2.5mm Allen key.

The arrangement of the connectors coming out from under the cover is as follows;



# Add-on Installation



For the "106DX Throttle", "103X Throttle", and "On/Off Switch" accessories, you will need to remove the grip. To make grip removal easier, you can use "cologne".

## 106DX Throttle



After removing the grip, install the throttle and then tighten it securely with a number 3 Allen key.

The 106DX Throttle has functions for turning the system on and off, displaying battery level, and providing a throttle control.



Battery indicator

On/Off switch

Throttle control



# Add-on Installation

## 103X Throttle

After removing the grip, install the throttle and then secure it tightly using a 3mm Allen key.

103X küçük hacimli bir el gazıdır. Motoru manuel olarak kontrol etmeye yarar.

## On/Off Button

Insert the on/off button after removing the grip, and then firmly secure it using a number 3 Allen key.

The on/off button is an ergonomic attachment used for turning the system on and off.

## Disk Brake Rotor



Remove the bolts on the left side of the motor to detach the plate. Install your new disc brake rotor in its place. When positioning the motor on the fork, align the disc brake rotor with the brake mechanism for proper seating.

# Add-on Installation

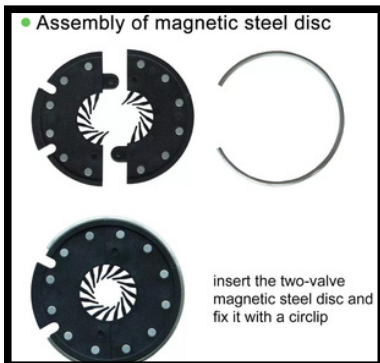
## Pedal Assist Sensor

The Byqee Pedal Sensor is a necessary component for the operation of the F23's smart pedal assist system. With this accessory, the intelligent pedal support system that automatically transfers the required traction to the motor becomes active.



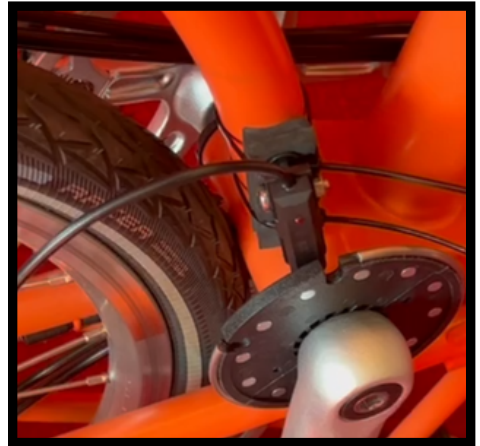
For installation, first determine a position where the "+" sign on the sensor can touch the magnets on the disc after mounting. Then mount it to the location shown in the picture using cable ties.

The pedal sensor has two discs. Mount them by covering the discs on the pedal arm where you placed the sensor. Ensure the disc rotates with the arm by fitting the surrounding metal ring.



# Add-on Installation

Connect the connectors according to the cable diagram shown above. Once the installation is complete, when you rotate the pedal with the battery connected, the light on the sensor should be blinking. If you cannot observe the light, it indicates an error in the installation.



If your sensor does not reach the disk, place the rubbers from your box behind the sensor as shown in the right picture. **(This is necessary for Brompton)**

**To move forward, simply rotate the pedals.** The Byqee smart pedal assist will engage and transfer the necessary thrust to the motor.

**To cut the power, reverse the direction of the pedal.** You can use the brake to stop, but if you don't reverse the pedal, the motor will continue to power for about 1 second. The motor will cut off the power as soon as you reverse the pedal.

# After Installation

Use the following checklist to ensure everything is in order;

- Ensure that the battery is fully charged.
- Verify that the bracket is installed in accordance with this guide.
- Ensure that the motor is fully and tightly seated in the hub and can rotate freely and without friction in the forward direction.
- Check the tire pressure.
- Verify that the brakes are functioning properly.
- Check that the motor cable is correctly connected according to this manual.
- Check that every cable is securely attached to the bicycle frame and there are no loose cables.
- Make sure the handlebar can move freely.
- Activate the Byqee system and test if the motor can turn with electrical power.

*\*Byqee is not responsible for any damage that may occur due to improper installation according to the instructions.*

# Warnings

- ! Byqee should not be used in heavy rain. It is suitable for use with a rain cover in light rainy conditions.
- ! Avoid roads with speed bumps, potholes, etc., that may cause vibrations to the Byqee system, especially if you do not have confidence in your bicycle's suspension.
- ! For your safety, make sure to cross sudden speed bumps, potholes, and inclines by using controlled braking to avoid damaging the Byqee system.
- ! Do not accelerate while descending a steep ramp. Descend by slowing down with the brakes.
- ! Always use a helmet while riding your bicycle. For evening rides, use a reflective vest in compliance with the regulations.
- ! Legally, only pedal-assisted vehicles are allowed on bicycle paths. Ensure that you always ride with pedal assistance on these paths.
- ! Be aware that the battery pack contains flammable materials. Do not leave it in direct sunlight or within reach of children.

# Warnings

! ■ Byqee is designed for urban transportation purposes. Any damage resulting from off-road or similar conditions is **not covered by the warranty**.

! ■ The range and maximum speed values offered by Byqee represent average figures. It is normal for these values to vary depending on factors such as driving conditions, etc.

! ■ Byqee equipment should not be left exposed to direct sunlight for extended periods. They should not be placed in positions that may increase temperature, such as near a window or radiator. Exposure to such conditions may cause deterioration of the components. These situations are **not covered by the warranty**.

! ■ To initiate warranty-related procedures, please request and **keep your invoice**. From the date of your invoice, the warranty period for your battery pack is 1 year, while the warranty period for other parts is 2 years.

! ■ If you believe you need any technical service, please first visit the 'Help Center' at '[www.byqee.tech](http://www.byqee.tech)'.

! ■ In the event of any deviation from this manual, all components of your product will no longer be covered by the warranty.

# According to the Road Regulation,

## It is PROHIBITED to:

- Ride on pedestrian pathways.
- Ride on roads designated for bicycles and motorized bicycles when a separate bicycle path is available.
- Ride more than two bicycles side by side on a single lane.
- Carry additional passengers on these vehicles unless there is sufficient seating behind the driver.
- Carry more than one passenger even if there is sufficient seating behind the driver.
- Engage in behaviors while using these vehicles that obstruct or endanger the movement of other road users, such as while overtaking or making maneuvers.
- Perform acrobatic movements on these vehicles, except in authorized demonstrations.
- Towing or being suspended from another vehicle while using these vehicles.
- Carrying baggage, packages, and the like by hand while riding.
- Using these vehicles for commercial purposes by attaching casings, crates, and similar structures and riding them on the roads, except for three-wheeled and specially manufactured motorcycles.



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