

# Owners Manual<sup>v1.1</sup>

## Optibike Argon



This is the Owners Manual for the Optibike Argon Electric Bicycle. The Manual provides basic information required to ride the bike. It is recommended that you always ride your electric bike with a helmet and observe all traffic regulations.

The maintenance information in this manual requires a basic understanding of using common tools. If you do not have the experience required to perform these operations, you should take your bike to a Certified Bicycle Shop for Maintenance and repairs.



Failure to perform the repairs and maintenance correctly can result in death or injury.

NOTE: We strongly urge you to read this Manual in its entirety before your first ride.

Contact Optibike  
[optibike.com/contact](http://optibike.com/contact)  
Phone 303.443.0932

# Special Electric Bike Riding Tips

- Electric bikes travel faster than conventional bikes.
- Car drivers may think you are going slower than you are and pull out in front of you.
- This may happen when they pull out from a side street or have just passed you and are turning right.
- Be Aware!
- Be Courteous to pedestrians and other cyclists.
- Use Hand Signals



## Night Riding

Riding a bicycle at night is much more dangerous than riding during the day.

A bicyclist is very difficult for motorists and pedestrians to see.



Therefore, children should never ride at dawn, at dusk or at night.

Adults who chose to accept the greatly increased risk of riding at dawn, at dusk or at night need to take extra care both riding and choosing specialized equipment which helps reduce that risk.

You must use active lights when riding at night. This means a headlight and taillight. It is also recommended that you ride with a reflective coat or vest.

# E-Bike Classification

E-Bike laws vary by state. The most popular and latest laws are the three Class classifications.

**By default the Optibike Argon is a Class 2 E-Bike with a max speed of 20MPH, and both Pedelec and Throttle control.**

**The Argon can easily be changed to a Class 1 E-Bike with only Pedelec control, by disconnecting and removing the throttle from the bike.**

It is your responsibility to consult your local and state laws to determine where your bike is legal to ride.

Latest State E Bike Classifications			
	Max Power	Max Speed	Pedelec or Throttle
Class 1	750 watts	20 MPH	Pedelec
Class 2	750 watts	20 MPH	Throttle
Class 3	750 watts	28 MPH	Throttle under 20 MPH. Pedelec from 20-28 MPH

## Before You Ride Each Time

- Check the tires for proper inflation and damage (45-60 psi is a good pressure).
- Be sure the brakes are in good working order and adjusted.
- Check the battery charge level using the display.
- Each 100 miles of riding, check all bolts on the bike.

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# Riding Gear

The following riding gear is recommended:

Properly fitted helmet  
Bicycle Gloves  
Eye Protection  
Bright Clothing



In areas with rapidly changing weather conditions, be sure to bring extra clothing.

It is highly recommended that you carry the following tools and spares:

Spare inner tube  
Tire changing levers  
Basic tool kit  
Tire pump



A water bottle for hydration is also a good idea.



Use Sun Screen if riding in sunny areas.



# How to Turn the Bike On and Off

## To Turn On

Press the orange button on front end of display until display turns on.

## To Turn Off

Press the orange button on front end of display until display turns off.

Display will also turn off after a few minutes of non use.



# How to Adjust Height of Seat

The height of the seat can easily be adjusted by loosening the over center clamp on the frame.

**Over Center Clamp**



**Caution!** Do not extend seat post beyond maximum extension mark. If the seat post is still not high enough at maximum extension, a longer seat post is required.

## How to Read the Display

The Argon LCD display mounted to the handlebar provides information to the rider. This is where you turn the bike on and off, check battery level and change power levels.



## How to Check the Charge Level of the Battery

The battery charge level is shown on the bottom of the display by the Battery Icon (see above)

There are 5 segments on Icon. Each segment equals 20% of the battery charge.

When climbing hills the charge level may reduce due to high power drain from battery. When done climbing, the charge level will return to previous level.

## How to Engage the Motor

The power on the Argon is controlled by the dual sided torque sensor in the bottom bracket. The dual sided torque sensor means that when you apply pressure to either pedal, the bike will accelerate.

To engage the motor, simply begin pedaling. To increase the power, pedal harder.

The Argon has a speed limit of 20 MPH. The motor will no longer assist after 20 MPH.

## How to Change the Power Assist Level

The Argon has 5 Power Assist Levels.

The assist levels (1-5) are shown on the top of the display.

1 is the lowest assist level and 5 is maximum.

To increase the Power Assist level, push the **UP** Button on the keypad.

To reduce the level, push the **DOWN** button on keypad.

To have no Assist, keep pushing the **DOWN** button until OFF is displayed.



## How to Turn the Headlight on and off

The Argon comes with a headlight that is powered by the main battery, and is controlled from the display.

To toggle the headlight, press and hold the UP arrow on the display.





# How to Reset Trip Distance to Zero

You can reset the trip distance, average speed and max speed to zero.

Step 1: Hold the orange button until the bike turns on and release. Then wait at least 15 seconds.

Step 2: Hold the MENU button until CLEAN appears at top of screen.



Step 3: Press the MENU button again and “CLEAN DATA” screen will appear with YES and NO.

Step 4: Press MENU button to confirm YES. This will reset trip data to zero.



# How to Use the Brakes

- Like regular bicycles the Argon has front and rear brakes.
- The brakes are hydraulic disk brakes and offer great stopping ability.
- The rear brake is on the right side and should always be used first.
- The rear brake helps stabilize the bike.
- The front brake is on the left side and should always be used after the rear brake has been applied.
- The front brake accounts for 75% of the stopping ability.



Front Brake

Rear Brake



Always apply the rear brake first. Stopping ability is reduced in wet or slippery conditions. In these conditions, plan for extra time to stop.

# How to Charge the Battery

- Remove the cap from the charge port on the left side of frame
- Plug the charger into the wall socket. (A standard 15 amp wall plug is fine)
- Plug the Charger into the bike charge port.
- The LED on the charger will turn red while charging, and green once finished.



The temperature of room and battery must be above 35F. If the battery has been stored in a room that is below 35F, then it should be put in a room above 50F for several hours prior to charging.

Do not leave charger plugged into bike if charger is disconnected from the wall plug.

The charger should be disconnected from the bike within 24 hours of finishing charging.

Charging the battery when it is under 35F will damage the battery and void the warranty.  
Only use the Optibike supplied charger.

# What the Charger LED Indicates

- When the charger is first plugged into the wall, the LED will turn on green.



- When the charger is plugged into the bike, the LED on charger will turn from green to a red. Red indicates charging.



- When the charging is complete, the LED will turn to Green.



## Argon Charge Times 37 volt 14 AH Battery

Charger Type	Charger Output Current	70% Charge Time	100% Charge Time
Standard	2 Amp	5 hours	7 hours

## Care of the Frame

- Wash only with mild soap and water.
- Do not use acetone or other solvents on frame surface.
- Do not use a pressure washer. Use a garden hose only to wash the bike.



## Battery Storage

If you need to store your bike without use for more than a month, you should follow the steps below to maximize the lifespan of your battery

Li-ion batteries are best stored between 30% and 80% charge. Riding the bike a few miles before storage is the best way to do this.

If you are able to, check the battery level every month or two, and if it is very low (below 30%), or the bike doesn't turn on at all, place on the charger for 2-3 hours.

- The battery must be above 32F or 0C before charging, to prevent damage to the battery.
- It is OK to store your bike in an area that is cold. Colder storage temperature will prolong the life of the battery.
- Do not store below -4F or -20C

# Front Wheel Removal

The Argon front fork uses a Quick Release Front Axle with over center clamp.

**Step 1:** Place the bike on a stand so the front wheel does not have weight on it. Alternatively, turn the bike upside down.



**Step 2:** Grasp the over center clamp lever on left side. Pull the lever away from the bike

**Step 3:** While holding wheel, loosen the nut on right side of axle until wheel falls out of the fork .



Do not pull the front brake lever while wheel is off. This will cause disk brake pads to move together. If this happens, use a clean straight blade screw driver to gently push pads apart.

# Front Wheel Installation

**Step 1:** Insert the wheel in fork so the disk is inside the brake pads.



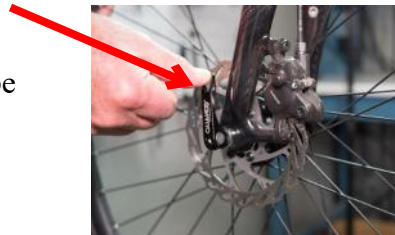
**Step 2:** Slide the axle into fork



**Step 3:** Tighten the axle nut a few turns. Close the over center clamp. It should be snug to close. If not, tighten nut another turn and check again.



When over center clamp tightness is correct, it should be difficult to push and almost touch the fork. (See Picture)



Over Center Clamp must be tight.

If brake pads do not have a gap, use a clean screw driver to gently move them apart.

# Rear Wheel Removal

**Step 1:** Remove the right and left Rubber Axle Nut Covers



**Step 2:** Cut the cable tie on the motor wire near hub



**Step 3:** Pull the motor wire apart at connector. This can take some effort.



**Step 4:** Use a 19mm wrench and loosen the left and right axle nuts a few turns. The wheel may drop out at this point, so be ready and hold onto it.





# Rear Wheel Removal

**Step 5:** Drop wheel



**Step 6:** Slide the Belt off the rear sprocket



## Rear Wheel Installation

**Step 1:** Hold the wheel under the dropouts and slide belt over sprocket.



**Step 2:** Slide the axle into the dropouts. Be sure the anti rotation washer has small edge to the bottom, as in picture. Be sure disk is inserted between the brake pads.



**Step 3:** Use a 19mm wrench to lightly tighten the two axle bolts.



**Step 4:** Place bike on the ground and push down on frame to be sure axle is fully inserted in drop outs. Fully tighten the two axle bolts with 19mm wrench.



# Rear Wheel Installation

**Step 5:** Install the axle nut rubber covers.



**Step 5:** Connect the motor wire together. Be sure to align the arrows on connectors before pushing together.



**Step 6:** Install tie wrap on motor wire.

# Adjusting Belt Tension

The toothed belt on the Argon is mostly maintenance free. It does not require lubrication. From time to time it may need to have the tension adjusted.

**Step 1:** If belt needs to be adjusted, loosen the two pinch bolts on either side of frame with a 4mm Allen wrench. Loosen about 1 turn each



**Step 2:** Use a 2mm Allen wrench to adjust belt tension. Turn clockwise to increase belt tension. Turn counter clockwise to loosen belt tension.



Adjust both left and right sides evenly.

After adjusting belt, squish belt together to tension it and then check tension again.

**Step 3:** After tension is correct, tighten the four pinch bolts evenly.



# Maintenance Intervals

	Each Ride	Monthly	1000 miles	2000 miles	3000 miles	10,000 miles
Tire Pressure	X					
Tire Condition	X					
Battery Charge	X					
Check Brake Function	X					
Check Belt Tension		X				
Check nuts and bolts		X				
Inspect Brake Pads (change as needed)		X				
Tension Spokes (as needed)			X			

# Warranty Information

## Optibike Argon Warranty

	Term	
Frame	5 years	Optibike Warranty
Electronics	1 year	Optibike Warranty
Motor	1 year	Optibike Warranty
Brakes	1 year	Manufacturer Warranty Applies
Tires	none	Manufacturer Warranty Applies
Battery	2 years	Optibike Warranty

Items listed with Optibike Warranty are covered directly by Optibike. Other items are covered under the warranty of the company the makes the part. Warranty applies to original owner only. Warranty is valid for pleasure use only and does not cover racing or commercial use.

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# Warranty Information

## Warranty Details

### Battery warranty

Optibike batteries have been shown to have the longest life in the electric bike industry. The Optibike Lithium-ion battery is guaranteed to have 70% of its original tested capacity at the end of the warranty period.

If the battery fails completely during the first year it will be replaced or repaired at no charge. During the balance of the warranty, the battery will be replaced on a prorated basis. Capacity is tested at Optibike prior to shipment.

Lithium batteries require care and some maintenance to maximize life expectancy.

Abusing your battery will void your warranty. See below for details.

Warranty is void if battery is charged below 32 degrees F (0C).

Warranty is void if battery is not charged every month.

In the event that a battery needs to be removed for return shipment to Optibike, Optibike will reimburse customer for labor in the first 12 months of bike ownership. Subject to terms and conditions. After 12 months, all labor is the responsibility of the customer.

There is not a labor charge to remove the battery during the warranty period if the bike is brought in to Optibike located in CO.

Optibike retains the right to repair or replace battery at the sole discretion of Optibike.

In the event that the battery is not repairable, the battery will be replaced with a prorated credit applied towards the replacement for the remainder of the original battery warranty.

For customers living in the Continental US, Optibike pays shipping in both directions for battery repairs/replacement for the first 12 months. For the remainder of the warranty after 12 months, the customer is responsible for paying for the shipping to Optibike and Optibike will pay to return the battery to the customer.

All Lithium batteries must be shipped as Class 9 dangerous goods (HAZMAT) and must be shipped in accordance with all local, state, federal, and international laws.

Lithium batteries sold by Optibike can NEVER be taken on board a passenger aircraft.

### Frame warranty

The Optibike frame is covered for the term listed in the table for the original owner from defects. Subject to terms and conditions.

In the event a frame is found defective, domestic shipping, parts and labor to replace said frame is paid by Optibike for the first 12 months from the original date of manufacture.

After 12 months, Optibike pays for parts only. Labor and shipping are paid by customer.

The cost of repairing/replacing Custom paint is never included in frame warranty at any time.

### Motor: Hub Motor warranty

The rear hub motor is warranted for 12months form date of purchase.

# Warranty Information

## **Electronics warranty**

The electronic components are warranted for 12 months from original date of manufacture to be free of defects.

Subject to terms and conditions.

In the event of a warranty claim requiring the electronics to be returned to Optibike, the customer is responsible for removal and shipment to Optibike.

Optibike pays for parts, in house labor and domestic return shipping by FEDEX Ground.

For international customers and customers living in Alaska or Hawaii, shipping is not included in the electronics warranty.

## **Brakes warranty**

The brakes are covered for the term listed in the table. Normal wear of the brake pads is not covered.

Warranty claims on components are made in accordance with component manufacturers guidelines.

In the event of a warranty claim requiring the components are to be returned to Optibike. Customer is responsible for removal and shipment to Optibike.

Optibike pays for parts, in house labor and domestic return shipping by FEDEX Ground.

International customers and customers living in Alaska or Hawaii, shipping is not included in the brake warranty.

## **Drivetrain warranty**

The drivetrain includes the sprockets, shifting system, chain and wheels. Drivetrain units are covered for the term listed in the table. Normal wear and tear of the drivetrain, such as chain and sprocket wear, tire flats, bent wheels and worn tires are not covered.

Warranty claims on components are made in accordance with component manufacturers guidelines.

In the event of a warranty claim requiring the components are to be returned to Optibike. Customer is responsible for removal and shipment to Optibike.

Optibike pays for parts, in house labor and domestic return shipping by FEDEX Ground.

For international customers and customers living in Alaska or Hawaii, shipping is not included in the drivetrain warranty.

## **Terms and Conditions**

This warranty does not cover damage from abuse, misuse, neglect, improper assembly or from the addition of parts and components not originally installed at the factory.

Any alterations to the original design shall void warranty coverage

Optibike explicitly exempts from coverage any damage on bicycles used for jumping, stunt riding, rental programs, observed trials and any similar extreme riding or events.

Incidental and consequential damages are also not covered.

Optibike does not cover the cost of international warranty shipping or warranty shipping to Hawaii or Alaska at any time, for any reason.

Warranty may be voided if normal maintenance procedures are not followed



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