

BANDIT

OWNERS MANUAL



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WELCOME

Congratulations on the purchase of your new Bandit, and welcome to the team!

This manual is designed to break down the basics and help you make sure that your eBike remains in top shape. It's important to have a good understanding of the basic operation and maintenance in order to keep your bike performing at a high standard.



Riding a bicycle can be a dangerous activity and it's your responsibility to make sure you are riding safely. We recommend familiarizing yourself with this entire manual as well as your local eBike laws prior to your first ride.

The latest version of the Owner's Manual is always available online at:
www.flx.bike/manuals

Proper assembly and care are crucial to you having the safest ride of your life. If you are unable to complete the assembly or need help with general maintenance, please reach out to us. You didn't just purchase a bike — you joined our team, and we are here to support you whenever you may need it.



Reach us by email:
support@flx.bike




Visit our Shop:
4170 Morena Blvd. Suite D
San Diego, CA 92117
Hours: 10am - 5pm Monday - Friday





Ready to get started? Let's ride!

- Team FLX

GENERAL WARNING

Riding an eBike, as with any motorized vehicle, involves the risk of property damage and serious or fatal injury. By choosing to ride an eBike, you assume the responsibility for that risk, so it's important that you know and practice responsible riding. Proper use, care and maintenance of your eBike are essential in reducing the risk of injury. This manual will include **bold warnings** concerning potential consequences that can occur as a result of your failure to properly maintain your eBike or follow safe riding practices.



Bolded text combined with this  alert symbol, will indicate an array of warnings including but not limited to:

-  **A potentially hazardous situation that could result in injury or death if not avoided**
-  **A potentially hazardous situation that could result in minor/moderate injury if not avoided**
-  **An alert regarding unsafe practices**
-  **A situation which could result in serious damage to the eBike or any action that would void your warranty**

It would be nearly impossible to anticipate every condition you may experience while riding your eBike, therefore this manual does not represent the safe use of your eBike in every possible scenario. There are risks associated with the use of any eBike that cannot be predicted or avoided — those risks are the sole responsibility of the rider.

Special Note for Parents:

As a parent/guardian, you are fully responsible for the safety of your minor. This responsibility includes making sure that the eBike is sized appropriately for the child, that it is operating correctly, and the conditions are safe. You must also ensure that you and your child have both learned and understand how to safely operate the eBike, how to obey local motor vehicle, bicycle and traffic laws, as well as common sense for safe responsible riding. As a parent, it is important that you read through this manual and familiarize yourself with the warnings and proper operation of this eBike. Please review them with your child before allowing them to ride.

-  **Make sure your child wears an approved eBike helmet only when riding their eBike.**
-  **Make sure your child's' eBike is properly sized (adjust the seat so that both feet can touch the ground). If the eBike doesn't fit, do not allow your child to ride it, as riding an improperly fitted bike can result in injury or death.**

GETTING STARTED



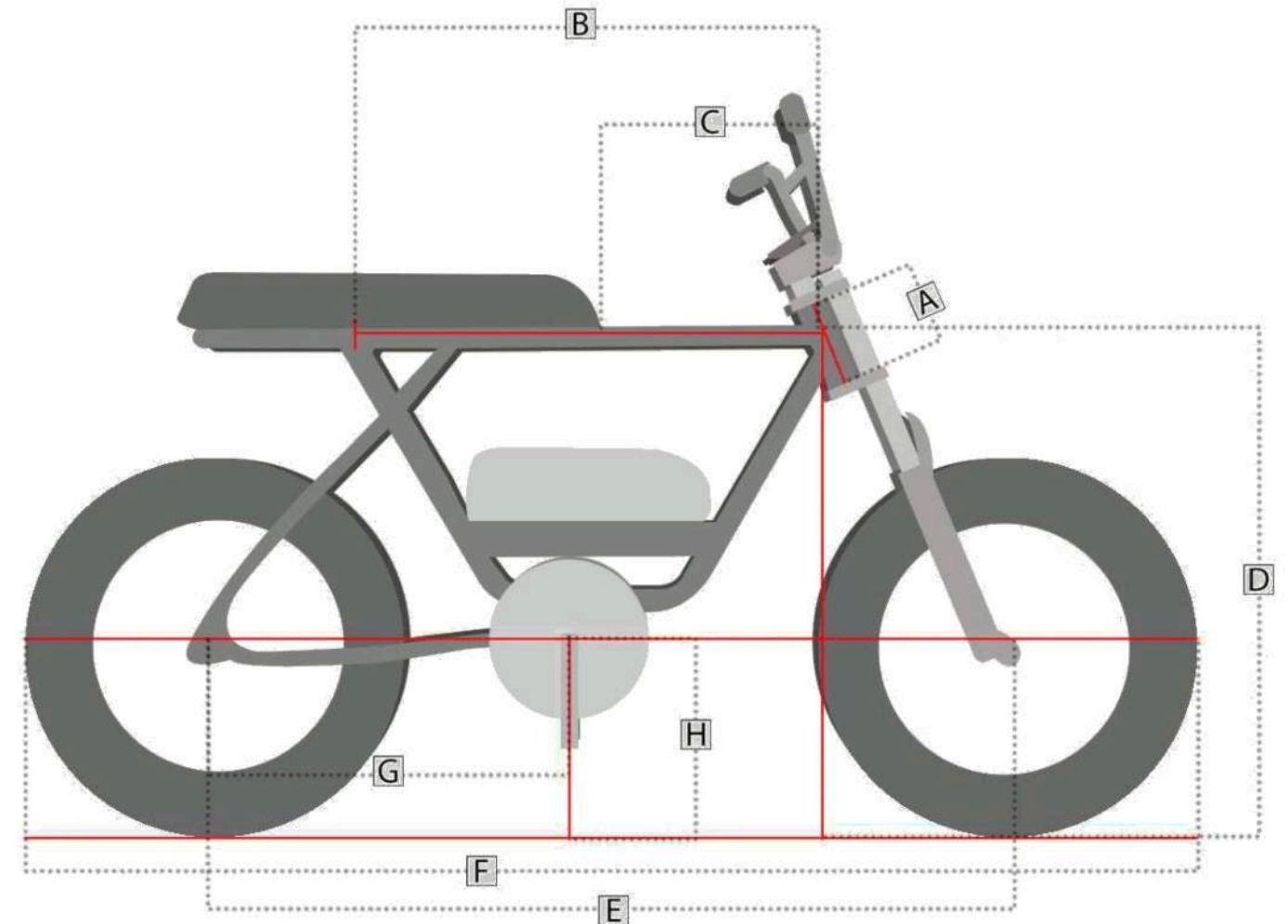
GEOMETRY

The Bandit comes in one size that has been engineered to suit a variety of riders at different heights.

On the following page, you will find a geometry chart with the measurements for the most important parts of your Bandit. Measurements are given in both Standard and Metric units for your convenience.

⚠ Please ensure that your eBike is properly sized for you before riding. If your eBike is too small/too large, you may lose control and fall.

⚠ If your eBike does not fit, please do not ride it, as riding an improperly fitted bike can result in injury or death.



A. Head Tube Length (Frame Size)	4.72" (120 mm)	E. Wheelbase	44.5" (1130 mm)
B. Effective Top Tube Length	27.6" (700 mm)	F. Total Length	65" (1651 mm)
C. Reach	17.9" (455 mm)	G. Chainstay Length	20.5" (521 mm)
D. Standover Height	29.5" (750 mm)	H. Bottom Bracket Height	12" (305 mm)

IN THE BOX

Overview

Knowing your eBike inside and out will help you get the most out of it. We highly encourage you to familiarize yourself with the components of your bicycle, so you know where to start when it comes to assembly and maintenance.

Here's what's included in your box:

- 1. Handlebars
- 2. Set of Keys
- 3. Allen Keys (x4)
- 4. 16mm Wrench
- 5. Body: Frame, wheels, battery, etc.
- 6. Pedals
- 7. Charger

If for any reason you are missing any parts— please reach out to us at support@flx.bike so we can get your missing part to you.




7.

ASSEMBLY

Overview

The following section covers the assembly directions for the Bandit. Proper assembly is an essential step in ensuring your safety and the proper operation of the bike. **If at any point you do not feel comfortable assembling the bicycle yourself, please seek professional assistance or reach out to our support team.**

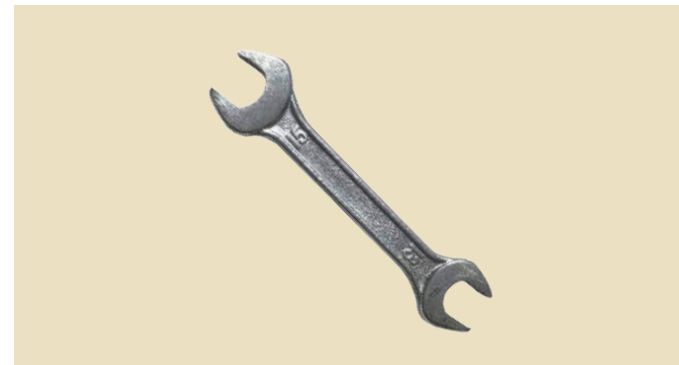
You can also find a detailed assembly video on the FLX YouTube channel:
www.flx.bike/banditassembly

 **If you do not feel that you have the ability or skill to assemble the bike yourself, please take it into a local bike shop for professional assistance. Failure to properly assemble your eBike can result in serious injury or death.**


Tools Included:



4mm & 5mm Allen Wrench



15mm Wrench

 Please read through the entire assembly instructions section before you begin. Proper assembly is important in order to ensure your safety and satisfaction while operating your eBike.

STEP 1: Install the Handlebars



Figure 1. Stem Plate Bolt Removal

1. Using the 4mm Allen wrench, loosen the 4 bolts on the stem plate.
2. Remove the stem plate and carefully set it aside for later.
3. Place your handlebars in the groove and replace the stem plate.

Tip: You can tilt your LCD display to get better access to the stem plate/bolts.

4. Tighten the bolts halfway, leaving enough wiggle room to make adjustments.
5. Double check to see that the handlebars are properly centered and that they are angled to your riding preference
6. Tighten the stem plate bolts all the way until your handlebars are fully secured.

Tip: Tighten them in a "Figure-8" pattern to ensure the plate is secured evenly.



Figure 2. Tilting LCD Screen



Figure 3. Tightening Stem Plate Bolts

STEP 2: Attach the Pedals

1. Check the sticker on both pedals in order to identify the left and right pedal.
Tip: Imagine you are sitting on the bike to correctly determine left vs. right side when attaching the pedals
2. Using the 15 mm wrench, carefully screw each pedal tightly into the correct crank.
*Tip: The right pedal will tighten clockwise, while the **left pedal will tighten counterclockwise.***



Figure 4. Left Vs. Right Pedal



Figure 5. Attaching Pedal to Crank

STEP 3: Adjust the Brakes



Figure 6. Barrel Adjusters

1. Test your brake tension by squeezing your brake levers. If they feel too loose, adjust the tension by twisting the barrel adjusters on either side.

Tip: Twist clockwise to decrease tension, and counterclockwise to increase tension.

STEP 4: Charge the Battery

1. Using the keys that came with your bike, unlock the battery from the frame and carefully remove it by sliding it forward toward the front of the bike.



Figure 7. Removing the Battery



Figure 8. Battery Charging Port

2. Plug the charger into the bike first, and then connect the charger to your wall outlet. Allow the battery to charge for 8-12 hours for the first few cycles. After that, you may return to charging it normally (approx. 4-6 hours).

3. Your battery has a red ON/OFF switch located along the side of the battery. Be sure to flip the switch to the ON position before riding your bike.

o = OFF

/ = ON



Figure 9. Battery On/Off Switch



4. Check your battery life by pressing the button on the front end of your battery. The lights will indicate how much juice is left before the battery will run out of charge.

Tip: Each light represents approximately 25%.

Figure 10. Checking the Battery Life

5. After allowing your bike to fully charge, re-attach your battery to your bike and test to make sure your LCD smart display is working. Press and hold the “M” button (located on the thumb control with the up/down arrows). Repeat this step to turn it off.



Current Speed

Pedal Assist Level

Distance Traveled

Figure 11. Checking the LCD Display

Voila!

Your Bandit is now fully assembled in all its glory. Give yourself a pat on the back and admire your work. Take some pictures, call a friend, and take a well deserved break while it charges.

MAINTENANCE

While FLX bikes are built to endure regular use, you will get better performance and a longer life from your bike if you keep a basic maintenance schedule. Be sure to read through this instruction manual carefully, and you will be set up for success.

⚠ Proper maintenance is crucial for your safety when riding. If you are unable to perform the general maintenance yourself, please reach out to a qualified mechanic.

You can find more detailed maintenance videos on the FLX YouTube channel: www.flx.bike/youtube

⚠ Many eBike service and repair tasks require special tools and knowledge. Do not begin any service on your eBike unless you have learned from FLX how to properly complete it. We recommend that significant repairs be done by a qualified eBike mechanic, as improper service can result in damage to the bike, or an accident which can cause injury or death.

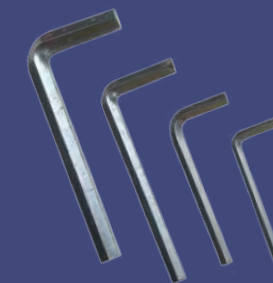


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Tools Required:



4mm & 5mm Allen Wrench



15mm Wrench

BRAKES

 **It's important for you to learn and remember which brake lever controls each brake (front/rear) in order to ensure your safety.**

Traditionally, the right brake lever will control the rear brake, while the left brake lever will control the front brake. However, this may vary depending on what country you are in, and can always be adjusted to suit your own preference.







To check which configuration your eBike is set up with, squeeze one brake lever and look to see whether the front or rear brake engages. Now do the same with the other brake lever. Remember this configuration.

While you are testing the brake configuration, make sure that your hands can comfortably reach and squeeze the levers with no issues. If you experience any issues or discomfort operating the brakes, please reach out to us before riding.

Disc Brakes

Disc Brakes will be located on a metal disc that is seated within each wheel. The disc brakes will clamp onto this disc in order to slow or stop your bike depending on how much pressure you are applying.

WARNING!

-  **Riding with improperly installed brakes is dangerous and can result in serious injury or death.**
-  **Applying the brakes suddenly or with too much pressure can result in your wheels locking up. This can cause you to lose control and fall. Some brakes are incredibly powerful, so it's important that you take extra care when becoming familiar with using these brakes.**
-  **Disc brakes can get extremely hot during and after extended use. Be careful not to touch a disc brake until it has had plenty of time to cool. This is especially important to remember if you are performing maintenance that requires you to remove the front or rear wheel.**
-  **Disc rotors have sharp edges, exercise caution when handling them during maintenance.**
-  **Review the brake manufacturer's user manuals and be sure to properly care for your brakes. It's your responsibility to be able to recognize when your brake pads need to be replaced.**
-  **Sudden or excessive application of the front brake may pitch the rider over the handlebars.**

You can find the correct user manual for your brakes on the manufacturer's website, or at: www.flx.bike/manuals


TIRES

Your Bandit will come standard with 20" x 4.25" Kenda fat tires. It's important for you to understand the appropriate conditions and terrain these tires can handle in order to ensure safe riding.

Tire Pressure

Tires come available in many different sizes and their uses can range from general purpose to highly specialized weather/terrain conditions. It's important that you know which tires your eBike comes with and understand the limitations and specifications that they can perform under.


Size, pressure rating and other information can often be found on the sidewall of the tire. Tire Pressure is the most key piece of information for you to remember.

 **Inflating a tire beyond the maximum pressure can blow the tire off the rim, resulting in damage to the bike and potential injury to the rider.**

Using a bike specific tire pump with a built-in pressure gauge is highly recommended. If you do not have access to one, or do not feel comfortable inflating them yourself, please seek professional assistance from your local bike shop.

High tire pressures work best for smooth, dry pavement rides, while low pressures give the best performance on smooth, slick terrain. However, increasing, or decreasing tire pressure will have no affect on the terrain that the tire is designed to handle. A road tire at low pressure still cannot handle terrains such as clay or sand.

If you are unsure, reach out to us, or your local bike shop to determine the best tire pressure for the kind of riding you will most often do.


 **Be sure to check your tire pressure frequently (at least every week) using a high quality dial gauge.**

Tire Valves

Not all bike tube valves are created equal, and it's your responsibility to make sure that the bike pump you are using has the appropriate fitting to the valve stems on your eBike.

The Step Through will come fitted with a Schrader valve. This valve is common to most bikes, cars and even tractors. To inflate a valve tube using a Schrader headed bike pump follow the steps below:


1. Remove the valve cap
2. Insert the pump head to the valve head and inflate.
3. To let air out, press down on the valve core with something small (like a pen cap)

 **We recommend carrying a spare inner tube with you when riding your bike, as patching a tube is an emergency repair. If you do not execute it correctly, or if you apply multiple patches, it can result in possible tube failure. This could cause you to lose control and fall. Replace a patched tube immediately.**

BATTERY CARE

It's important to follow these instructions and safety tips in order to preserve the longevity of your battery's life and ensure proper performance.

Fully charge the battery before each ride to make sure it's ready to go the full range. This will help reduce the chance of over-discharging the battery.

 **Based on IATA regulations you are not allowed to ship Lithium Ion batteries this size by air. Please consult a land or sea freight agent for transportation of the battery.**

 **If the battery becomes physically damaged, non-functional, has been dropped, or involved in a crash, or you notice it performing abnormally, please discontinue use and contact FLX Bike immediately.**

Charging your Battery

The charger is rated for 100-240V. Be sure to check the charger, charging cables, and battery for damage before beginning each charge.


Charging time takes about 4-6 hours. On rare occasion, it may take longer to allow the battery to fully charge, particularly when the bike is new, or has been stored for a long period of time.

 **Only charge the battery with the supplied FLX charger as others may cause damage to the battery or increase the possibility of fire or explosion.**


While the charger is designed to automatically stop charging once the battery is full, do not leave it plugged in for periods of time greater than 12 hours.

Make sure your charger avoids contact with liquids, dirt, and debris.

The charger may get hot while in use. However, if it gets too hot to touch or you notice anything such as a strange smell, or other indications that it may possibly be over-heating, discontinue use immediately and contact FLX Bike.

 **Do not cover the charger while in use.**

 **Do not open the charger or alter the voltage input.**

 **If there appears to be any issue with the charger or battery, stop riding and contact us immediately.**

Balancing your Battery

When you first receive your bike, it's important that you follow these steps to ensure that your battery cells are properly balanced in order to keep them operating as efficiently as possible.

1. For the first initial charge upon receiving your bike (or after long storage times), be sure to charge the battery for at least 8 hours before riding.

Note: We recommend that you let the battery charge for at least 8 hours for the first 3 charges to make sure the cells balance properly.


2. After the first 3 rides, you may begin normal charging procedures.

Storing Your Battery


If you plan on storing your bike (or spare battery) for longer than two weeks at a time, please be sure to follow these guidelines in order to maintain the lifespan of your battery.





It is recommended that you do not leave the battery at lower than an 80% charge when storing for long periods of times. If storing for a month or longer, periodically check the battery and be sure to keep the charge up to at least 80%



Store your battery in a cool, dry area away from water and other elements at a temperature between 50°F – 77°F (10°C - 25°C).

 **Failure to follow proper battery care practices can result in unnecessary wear to the components, battery, and/or charger, which could lead to a battery that underperforms, or becomes non functional. Under these circumstances, a replacement battery would not be covered under the warranty.**

MORE TIPS


 Proper maintenance is essential for your safety and to ensure that you get optimal performance from your eBike. If you are unable to perform the general maintenance yourself, please reach out to a qualified mechanic.

-  Be sure to frequently inspect and tighten your crank bolts as needed. Crank bolts can loosen on any bike, especially after strenuous use.
-  While you are able to ride in the rain, rust is a bikes worst enemy! Be sure to dry off your Bandit after a wet ride.
-  In general, it is good to give your bike a nice wipe down with a damp rag when it gets particularly dirty. Make sure to be mindful when going near the electronics.
-  Inspect the bolts on a regular basis to ensure that they are tight and all components are secure.





Note: Be sure they are secure, but avoid over tightening the bolts as this can cause them to strip.
-  Regularly check your brake pads, and change them if you notice:
 - Contamination
 - Less than .8mm of material
 - Cracks or deformation
-  Properly inflate your tires. Under inflated tires are prone to flats and can affect the smoothness of your ride.

TAKING CARE

Service

 Technological advances have made eBikes and their components more complex, thus it is impossible for this manual to cover all of the information required to repair/maintain your eBike. It's important to have any repairs or maintenance not covered in this manual done by a qualified professional in order to reduce the chances of an accident/possible injury.

Lifespan

-  Like any machine, an eBike and its components will be subject to wear and tear over time. Different parts and materials will have varying life-spans, and when a components lifespan is exceeded, it can suddenly fail, resulting in serious injury or even death for the rider.
-  Be sure to check your eBike and components thoroughly for signs of scratches, cracks, fraying or discoloration as any parts with these kinds of visible distress may be at the end of their lifespan.
-  Components may be covered for a period of time through the warranty, however there is no guarantee that a product will last the term of the warranty. The lifespan of your eBike and its components is related to the riding you do, and the care that you take.
-  A crash or heavy impact can put incredible stress on eBike components, causing them to wear out prematurely. Components that suffer from extreme stress can fail suddenly, causing loss of control, serious injury, or death. Be sure to choose the correct bike for your intended purpose.



This warranty is not meant to suggest or imply that the products cannot be broken or will last forever. It does mean that the products are covered subject to the terms of this warranty. FLX will have no obligation, under this limited warranty, in the event that the product is damaged or destroyed as a result of any of the following events: wear and tear, component use on a non FLX product.

Warranty Information

FLX bike warrants that this product is warranted to the buyer against manufacturing defects in materials or workmanship for a period of (1) year from the original date of shipment. The original receipt of purchase is required to establish proof of purchase and must be provided to FLX Bike for any claims. FLX Bike will require customers to complete a mandatory standard procedure for warranty claims that will involve media, such as photos and videos to help FLX Bike establish the fault with the product. Only the individual components themselves are covered by the warranty. The removal, assembly, and tuning requirements of the component is borne by the customer making the claim. The costs and inconvenience that result from a loss of use of the product is not covered whilst the warranty procedure takes place.

The warranty for replacement components will be based on the date of shipment. Under no circumstance will a replacement component have a warranty date that is different than the original date of delivery. If a replacement is necessary due to a defect in materials or workmanship, then FLX Bike will replace the component during the warranty period, once the defective part has been returned to us. FLX will have no obligation under this limited warranty in the event that the product is damaged or destroyed as a result of any of the following events: component use on a non FLX product, damage or destruction by abuse, collision, theft, improper maintenance, or mishandling of the product, natural forces such as wind, lightning hail etc., any willful or negligent act, penetration or opening the product casings in any manner. Replacement will be honored only by FLX. This is FLX's exclusive warranty. No party is granted express or implied authority to change or annul this warranty in any manner. FLX disclaims any liability for special, incidental or consequential damages.

The warranty applies only to the original buyer of the product and is not transferable to subsequent owners or any other party. This warranty is void if the product is subjected to abuse, neglect, improper repair, improper maintenance, alteration, modification, an accident or other abnormal, excessively improper use at the sole discretion of FLX.

Warranty Exclusions

This warranty does not cover:

- Damage or failure from abuse, neglect, misuse or accident
- Damage from stunt riding, ramp jumping, acrobatics, competitive events, such as bicycle racing, bicycle motocross racing, or similar activities or any activity that is not consistent with the intended use of the product.
- Damages resulting from improper charging of the battery pack or use of any charger not supplied by FLX
- Installation of any parts, accessories, or electrical components not originally intended for or compatible with the product as sold, or any modification of the frame or any components originally supplied; tires, brake pads, chains, lights, motors, batteries, displays, or vehicle controllers that have been opened for any purpose whatsoever, other than by FLX.
- All warranties are void if the product is used for any purpose other than the reasonable intended use of the product. Additionally, this warranty does not cover damage associated with commercial use.
- Aftermarket components or modifications
- 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.

CLASSIFICATION

Laws vary in different states / countries. Please check your local regulations. Here is a good resource of information in the US: <http://peopleforbikes.org/our-work/e-bikes/policies-and-laws/>

Electric Bicycles defined by the California Vehicle Code:

New legislation became effective in January 2016. The current regulations define an “electric bicycle” as: a bicycle equipped with fully operable pedals and an electric motor of less than 750 watts, separated into three classes:

- 1. A “class 1 electric bicycle,”** or “low-speed pedal-assisted electric bicycle,” is a bicycle equipped with a motor that provides assistance only when the rider is pedaling, and that ceases to provide assistance when the bicycle reaches the speed of 20 miles per hour.
- 2. A “class 2 electric bicycle,”** or “low-speed throttle-assisted electric bicycle,” is a bicycle equipped with a motor that may be used exclusively to propel the bicycle, and that is not capable of providing assistance when the bicycle reaches the speed of 20 miles per hour.
- 3. A “class 3 electric bicycle,”** or “speed pedal-assisted electric bicycle,” is a bicycle equipped with a motor that provides assistance only when the rider is pedaling, (no throttle) and that ceases to provide assistance when the bicycle reaches the speed of 28 miles per hour and equipped with a speedometer.

Local government ordinances are allowed to permit or ban any class of electric bicycles on dedicated bicycle paths and trails, with Class 1 & 2 permitted, and Class 3 banned, by default

READY TO RIDE



