SENADA BIKES

**SABER**

**&**

**HERALD**

# OWNER' S MANUAL

## Welcome

Thank you for purchasing SABER/HERALD from Senada Bikes.

Please read carefully and understand this manual fully before assembling and riding your bike.

If you have questions after reading this manual, please contact us by email.

**We are here to help!**

**Email:contact@SenadaBikes.com**

## Using This Manual

This manual contains details of the product, its equipment, and information on operation, maintenance, and other helpful tips for owners. Read it carefully and familiarize yourself with the ebike before using it to ensure safe use and prevent accidents. This manual contains many warnings and cautions concerning the safe operation and consequences if proper setup, operation, and maintenance are not performed. All information in this manual should be carefully reviewed and if you have any questions you should contact Senada Bikes immediately.

The notes, warnings, and cautions contained within the manual and marked by the triangular Caution Symbol at the right of this page should be given special care. Users should also pay special attention to information marked in this manual beginning with ***NOTICE.***



Keep this manual, along with any other documents that were included with your bike, for future reference, however all content in this manual is subject to change or withdrawal without notice. Senada Bikes makes every effort to ensure the accuracy of its documentation and assumes no responsibility or liability if any errors or inaccuracies appear within.

Assembly and first adjustment of your bike from Sanada Bikes requires special tools and skills and it is recommended that this should be done by a certified, reputable bike mechanic if possible.

Because it is impossible to anticipate every situation or condition that can occur while riding, this manual makes no representations about the safe use of bikes under all conditions. There are risks associated with the use of any bike that cannot be predicted or avoided and are the sole responsibility of the rider.

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# General Info

## Assembly and Fit

Correct assembly and fit are essential elements of ensuring your bicycling safety, performance, and comfort. Even if you have the experience, skill, and tools to complete these essential steps before your first ride, Senada Bikes recommends having a certified, reputable bike mechanic to check your work.

***NOTICE:*** If you do not have the experience, skills, or tools to complete assembly and fit, Senada Bikes highly recommends having a certified, reputable bike mechanic complete these procedures as well as any future adjustments or tuning.

***NOTICE:*** A critical aspect of assembling your bike by Senada Bikes is securing the front wheel and checking the tightness of the rear wheel axle nuts. These mechanisms may become loose or unsecured during shipment or over time. The torque and security of all wheel mounting hardware should be inspected upon arrival and on a regular basis. Both wheels need to be properly secured before operating your bike.

## Mandatory Equipment and Use Locations

Before all rides, ensure you have all required and recommended safety equipment and are following all laws pertaining to using an electric bike in your region.

## Changing Components or Attaching Accessories

The use of non-original components or spare parts can jeopardize the safety of your ebike, void your warranty and, in some cases, cause your ebike to not conform with laws pertaining to your bike

## Safety Check Before Each Ride

Always check the condition of your bike before you ride in addition to having regular maintenance performed. If you are unsure of how to conduct a complete check of the condition of your bike before every ride, you should consult a certified, reputable bike mechanic for assistance. See the Pre-Ride Safety Checklist for more information.

## Electrical System

The electrical system on your ebike offers various levels of power assistance and lighting for different operating conditions and user preferences. It is critical that you familiarize yourself with all aspects of your ebike's electrical system and check to see that it is working correctly before every ride. The front and rear brake levers contain safety power cutoff switches, which disable the hub motor's assistance when applied, and both levers should be checked for correct operation. The throttle should provide smooth acceleration when gradually applied. If the throttle, brake lever cutoff switches, pedal assistance, or lighting are functioning abnormally, intermittently, or not working, please discontinue using your ebike immediately and contact the Senada Bikes Product Support team for assistance.

## Brakes

Ensure brakes are working correctly, all braking system components are free from damage, and properly secured. When you fully squeeze the brake levers, ensure neither the front nor rear brake levers touch the handlebar. Take your bike to a certified,reputable bike mechanic to have the brakes repaired if you find a problem.

## Tires and wheels

Your wheels should always spin straight and must be repaired or replaced if they wobble side to side or up and down when spinning. If your wheels become untrue or spokes loosen, which can happen with normal use, we recommend that a certified, reputable bike mechanic performs all wheel tuning and truing operations on your bike from Senada Bikes. Do not attempt to true wheels or tighten spokes unless you have adequate knowledge, tools, and experience. Ensure the tires and inner tubes are in good working condition without any visual damage and have the correct amount of air pressure. Always replace tires and inner tubes with punctures, cuts, or damage before you ride.  increase tire and component wear, and make riding your bike unsafe.

## Quick Release Levers

Quick release levers are located on your ebike for securing the seatpost . This provide convenience to the user since they allow the seatpost to be adjusted without tools. Since quick release levers can be loosened during transportation, or accidentally between or during rides, it is important that you regularly check to ensure these components are properly secured.

## Accessories, Straps, and Hardware

Ensure all hardware is secured and all approved accessories are properly attached per the specific component manufacturer's instructions. It is good practice to look over all hardware, straps, and accessories before each ride and if you do discover something is wrong or find something you are not sure about, have it checked by a certified, reputable bike mechanic.

## Suspension, Handlebar, Grips, and Seat Adjustments

The suspension fork on your ebike will affect the handling of the bike，you need to understand how it works before use. The suspension fork should be properly adjusted for your weight and terrain. Ensure the handlebar and handlebar stem are properly aligned, fitted to the user, and secured to their recommended torque values. Handlebar grips should not move easily on the handlebar end. Loose, worn, or damaged handlebar grips should be replaced before you ride and can be purchased from Senada Bikes. The seat and seatpost should be properly aligned, fitted to the user, and the seatpost quick release should be properly tightened, fully closed, and secured before riding.

## Battery Charged, Secured, and Unplugged

Ensure the battery is adequately charged and operating properly. The battery gauge on the LCD display and charge status indicator on the battery should read similarly. Ensure the battery charger is unplugged from the outlet, battery, then stored in a safe location before you ride.

## Fully Assembled

We have many other colors in these two series, the following pictures are for reference only.






## Assembly Instructions

***NOTICE:*** The following steps are only general guides to assist in the assembly of your ebike and are not a complete or comprehensive manual of all aspects of assembly, maintenance, and repair. Consult a certified, reputable bike mechanic to assist with assembly, repair, and maintenance of your ebike.

Step 1: **Unpack the bike.** Open the bike box and remove the small box inside. With the help of another person capable of safely lifting a heavy object, remove SABER/HERALD from the bike box. Carefully remove the packaging material protecting the bike frame and components. Open the small box and carefully set out all contents**.**

**Ensure all the following pieces are included with SABER/HERALD:**

- Front Wheel
- Manual
- Assembly Toolkit,adjustable wrench
- Keys (2x, identical)
- Charger
- Pedals (marked left and right)
- Front/rear fenders
- Spare screws
- Handlebar Stem faceplate bolts (4x)

## Step 2: **Install handlebar on the stem**

A. **Place the handlebar on the stem correctly.** Trace the front brake cable directly up from the front brake caliper to the left handlebar and ensure the cables and wires are not twisted.

B. Locate the four handlebar faceplate bolts in the accessory box.



C. **Center the handlebar** and tighten the four stem faceplate bolts evenly and part way.

D. **Secure to the recommended torque value.** Once adjusted properly, use a torque wrench with a 5 mm Allen bit to evenly tighten the four stem faceplate bolts (shown at right) to the recommended torque value, 10 Nm.

**Get help from a bike fitting professional** for safety and optimal fit and bike ergonomics**.** Consult a certified, reputable, and local bike fitting specialist for assistance properly fitting the bike to a rider.



Step 3: **Install the front wheel**.



## Remove the screw from front wheel




## Put front wheel in right position

1. Make sure the disc rotor be in the middle of the caliper
2. Put the fork on the axle



**Install the skewer into the front wheel axle**

thread the thumb nut onto the
skewer a couple turns.

**Fully seat the axle in the fork dropouts**

(and the brake rotor in the caliper)
and turn the thumb nut, as shown

Using the Wrench(15mm) to tight the thumb nut.As below picture.






**When properly installed**, the front wheel should be fully seated and centered in the dropouts of the front fork, the brake rotor should be in between the brake pads in the brake caliper Ensure the front wheel is properly secured before moving on to the next step.



Never touch the brake rotor, especially when the wheel and/or bike is in motion, or serious injury could occur. Hand oils can cause squeaking and decrease brake performance;

Step 4: **Lock the handlebar stem by tightening the screws as shown below,please make sure that the front wheel is aligned to the handlebar before tightening)**

If handlebar looks a little crooked by transportation,please adjust the two screws to adjust the handlebar direction.



Step 5: **Install Front Fender and Headlight.**

E. **Remove the fender and headlight mounting bolt** from the fork arch and set aside.

F. **Place the fender in position.** From the back of the front tire, pass the front fender mounting point under the front fork arch.



G. **Plug in the headlight.** Locate the two sides of the red, two-pin headlight connector, carefully align the internal pins and notches and external arrows, then press directly together without twisting to fully seat the connection.

Attach the headlight and fender to the fork arch. Pass the headlight mounting bolt through a washer, the headlight mount, the fender mounting point, the fork arch mounting point, a second washer, and thread the locknut onto the bolt end. Use a 5 mm Allen wrench at the bolt head and a 5 mm wrench on the locknut at the bolt end and tighten partway. Attach the fender mounting arms to the front fork. Ensure the fender is centered and torque all mounting bolts to the recommended torque value (6 Nm).

H. **Adjust the headlight angle** to illuminate the road ahead and not blind oncoming traffic. Use a 5 mm Allen wrench and 5 mm wrench to loosen the headlight angle adjustment bolt, tilt the headlight to the optimal position, and then tighten in place securely.

Then unscrew the 2 screws and bolts on both sides right below the fork (see image below), and screw the fender mounting arms in.





Step 6: **Install the pedals.** Locate the pedal with a smooth pedal axle exterior and an engraved “R”, which indicates it is the
right pedal (as shown below). The right pedal goes on the crank on the right side of the bike (which has the drive train gears and is the same as a rider’s right side when riding). Apply a small amount of grease to the thread of the pedal of each axle as shown below

**The right pedal (1) is threaded so that it is tightened by turning clockwise**. Carefully thread the right pedal onto the crank on the right side of the bike slowly and by hand by rotating **clockwise**. Do not cross thread or damage the threads and make sure to tighten the pedal with wrench provided

**The left pedal (2) is reverse-threaded and tightens counterclockwise**. The pedal has an engraved “L” into the end of the axle (pictured below), indicating it is the left pedal. Carefully thread the pedal onto the left crank by hand slowly by tightening **counterclockwise**. Do not cross thread or damage the threads and make sure to tighten the pedal with the 15mm wrench.










Step 7: **Inflate the tires.** Check that the tire beads and tires are evenly seated on the rims Use a pump with a Schroeder valve and pressure gauge to inflate each tire to the recommended pressure indicated on the tire sidewall, 20 PSI (1.38 Bar). Do not over inflate or under inflate tires.



Step 8: **Set the desired seat height.** Open the quick release lever by hinging it open fully. Ensure the seatpost clamp opening is aligned with the notch at the front of the seat tube. Adjust the seatpost up or down to a comfortable height, while ensuring the seatpost is inserted into the frame past the minimum insertion point.

If needed, use the thumb nut to add tension to the clamp so there is some resistance when the lever is in line with the clamp bolt, but do not overtighten. Close the quick release lever to secure the seatpost and check that it cannot move.

**Step 9:Always check that the battery is locked to the frame of the Saber/Herald**



before riding. The Start-Up Procedure section of this manual has more information on the Key positions of the battery; on and locked to the frame, off and locked to the frame, and off and unlocked (ready for removal from the frame). Operate the electrical system when the battery has been adequately charged and the battery is secured to the mounting receptacle on the frame.

Step 10: **Install the rear rack**

**Senada bikes equip not only the rear rack and fender,but also the signal light.**
**Rear rack is sturdy and reliable,but not adjustable,hoping to meet your needs for placing items.**

**Installation ways are as follows: use a tool to tighten the 4 screws pre-install on the frame.**









Step 11: **Ensure all hardware is tightened properly** following recommended torque values.

| Hardware Location | Hardware | Torque |
|---|---|---|
| Handlebar Area | Handlebar Stem Clamp Bolts | 15 |
| Handlebar Area | Handlebar Stem Faceplate Bolts | 10 |
| Handlebar Area | Brake Lever Clamp Bolt | 6 |
| Handlebar Area | Shifter Clamp Screw | 6 |
| Brakes | Caliper Adapter to Frame | 6-8 |
| Brakes | Caliper to Adapter | 6-8 |
| Brakes | Brake Cable to Caliper Clamp | 6-8 |
| Brakes | Disc Brake Rotor to Hub | 7 |
| Seatpost Area | Seat Angle Adjustment Bolt | 20 |
| Rear Dropout Area | Rear Axle Nuts | 40 |
| Rear Dropout Area | Rear Torque Arm Bolt | 5 |
| Rear Dropout Area | Derailleur Bash Guard Mounting | 5 |
| Rear Dropout Area | Derailleur Hanger Mounting Bolt | 6 |
| Rear Dropout Area | Derailleur Mounting Bolt | 10 |
| Rear Dropout Area | Derailleur Cable Pinch Bolt | 6-8 |
| Rear Dropout Area | Kickstand Mounting Bolts | 8 |
| Bottom Bracket and | Bottom Bracket and Lockring | 60 |
| Bottom Bracket and | Crank Arm Bolt into Bottom Bracket | 35 |
| Bottom Bracket and | Pedal into Crank Arm | 35 |
| Bottom Bracket and | Chainring Bolts | 10 |
| Bottom Bracket and | Controller Mounting Bolts | 6 |
| Fenders | All Fender Mounting Bolts | 6 |
| Optional Rear Rack | Mounting Hardware for Rear Rack | 7 |

Step 12: **Review the remainder of the manual**. Once the bike has been assembled per the above instructions, read, understand and follow the procedures outlined in the remainder of the manual before operating the bike.

***NOTICE:*** If you have any questions regarding the assembly of your bike, contact Senada Bikes. If you are not able to ensure all the assembly steps are performed properly, please consult a certified, reputable local bike mechanic for assistance in addition to contacting Senada Bikes for help.

***NOTICE:*** Ensure all hardware is tightened properly following recommended torque values and all safety checks in the following sections are performed before the first use of the bike.



**Do not extend any components including the handlebar stem, seatpost, or seat saddle beyond any minimum insertion marking etched into the components. Ensure that all hardware is properly tightened and components are secured before moving on to the next step, otherwise damage to the bike, property, serious injury, or death could occur.**

## Adjusting the Seat Position and Angle

To change the angle and horizontal position of the seat:

1) Use a 6 mm Allen wrench to loosen the seat adjustment bolt on the clamp positioned immediately underneath the seat, above the rear wheel. Do not remove the bolt fully.
2) Move the seat backward or forward and tilt to adjust the angle. A seat position horizontal to flat ground is desirable for most riders. Do not exceed the limit markings on the seat rail, which show the minimum and maximum horizontal movement allowed.
3) While holding the seat in the desired position, use a 6 mm Allen wrench to tighten the seat angle adjustment bolt securely to the recommended torque value.

**Prior to first use, be sure to tighten the seat clamp via the seat adjustment bolt properly. A loose seat clamp or seatpost adjustment bolt can cause damage to the bike, property, loss of control, a fall, serious injury, or death. Regularly check to make sure that the seat clamp is properly tightened.**



## Rider Comfort

Depending on a rider's preference, ability, and amount of experience with bike and ebike riding, lowering the seat so the rider can put one or both feet on the ground without dismounting from the seat may offer a safer and more comfortable experience while operating the bike.

Generally, for the most comfortable riding position and best possible pedaling efficiency, the seat height should be set correctly in relation to the rider's leg length, as described in the Adjusting the Seat Height section, allowing the knee to be slightly bent with the ball of the foot on the pedal and the pedal at the lowest point at the bottom of the pedal stroke.

To obtain maximum comfort, riders should not overextend their arms' reach when riding. It is generally advised to ensure the handlebar and brake lever angles allow for a comfortable arm position and relatively straight line from forearms, wrists, and hands. Ensure the handlebar angle is adjusted so that it allows the handlebar to remain clear of the rider's body while turning.

A bike fitting professional, such as a certified, reputable bike mechanic who specializes in bike fit, should be consulted to ensure you have a good fit.

***NOTICE:*** If you have any questions regarding the proper fit of your bike please consult a certified, reputable local bike mechanic for assistance fitting the bike to a rider or contact Senada Bikes.

# Battery Charging

## Charging Procedure

Follow these steps for charging your bike from Senada Bikes:

1. **Ensure the battery is off** by inspecting the key port markings (1, below). If needed, align the key port with the "LOCK" icon by inserting the key into the key port and rotating to align the key with the off icon as shown (at right).



2. **Remove the rubber cover on the charging port** on the opposite side of the battery from the key
3. **Plug the charger into the battery's charging port.** With the battery on or off the bike, place the charger in a flat, secure place, and connect the DC output plug from the charger (round barrel connector) to the charging port on the side of the battery.
4. **Plug the charger into a power outlet.** Connect the charger input plug (110/220-volt plug) to the power outlet. Charging should initiate and will be indicated by the LED charge status lights on the charger illuminating to redlight.
5. **Unplug the charger from the outlet, then the charging port.** Once fully charged, indicated by one charging indicator light turning green , unplug the charger from the wall outlet first and then remove the charger output plug from the battery charging port.

Before installing battery,please make red button returns to off state,after checking battery to be Firmly mounted on the frame,make red button on the battery returns to on state,then open the LCD display.

**Always charge your battery in temperatures between 50 °F – 77 °F (10 °C – 25 °C) and ensure the battery and charger are not damaged before initiating charge. If you notice anything unusual while charging, please discontinue charging and use of the bike and contact Senada Bikes Product Support for help.**

## Battery Charging Information

**Check the charger, charger cables, and battery for damage** before beginning each charge.

**Always charge in a safe area** that is cool*, dry, indoors, away from direct sunlight, dirt, or debris, in a clear area away from potential to trip on the charging cords, or for damage to occur to the bike, battery, or charging equipment while parked and/or charging. *Always charge your battery in temperatures between 50 °F – 77 °F (10 °C – 25 °C).

**The battery can be charged on or off the bike**. To remove the battery, turn the battery key counterclockwise "open direction" and then hold the battery key to remove the battery.

**The battery should be recharged after each use**, so it is ready to go the full range per charge next ride. There is no memory effect, so charging the battery after short rides will not cause damage.

**Charging the battery for approximately 4 hours**. In rare cases, it may take longer to allow the battery management system to balance the battery, particularly when the bike is new or after long periods of storage.

**The charge indicator lights** will show a red light while the battery charges. When charging is complete, the indicator light will turn green.

**Remove the charger from the battery within one hour of the green light indicating a complete charge**. The charger is designed to automatically stop charging when the battery is full, but unnecessary wear of the charging components could occur if the charger is left attached to the battery and a power source for longer than 12 hours. Detach the charger within one hour, or as soon as possible, once the green light indicates a complete charge to avoid unnecessary wear of charging components.

**Never charge a battery for more than 12 hours at a time**.

**Do not leave a charging battery unattended**.



**Failure to follow Battery Charging Best Practices could result in unnecessary wear to the charging components, battery, and or charger, and could lead to an underperforming or non-functional battery and replacement will not be covered under warranty.**

## When the Battery Is Removed

Be careful not to drop or damage the battery when lifting the battery off the frame or while loose from the bike.
Do not touch or damage the “+” and “-” terminal contacts on the bottom of the battery and keep them clear of debris.
Do NOT operate the bike with the electrical system in the on position, or damage to the electrical system can occur.

⚠ **Use caution to avoid damage to battery connector terminals, which are exposed when the battery is unlocked and removed from the frame of the bike. In the case of damage to the terminals or battery mounts, please discontinue use and contact Senada Bikes Product Support immediately.**

## When Installing the Battery onto the Bike

Do not force the battery onto the receptacle; slowly align and gently push the battery down into the receptacle.
Ensure the battery has been properly secured to the bike before each use by carefully pulling upward on the battery with both hands to test the security of the attachment of the battery to the mount once locked.

## Charger Safety Information

The charger should only be used indoors in a cool, dry, ventilated area, on a flat, stable, hard surface.
Avoid charger contact with liquids, dirt, debris, or metal objects. Do not cover the charger while in use.
Store and use the charger in a safe place away from children and where it cannot suffer damage from falls or impact.
Fully charge the battery before each use to ensure it is ready to go the full range per charge, to extend the life of the battery, and help reduce the chance of over-discharging the battery.
Do not charge the battery with any chargers other than the one originally supplied from Senada Bikes or a charger designed for use with your specific bike purchased directly from Senada Bikes.
The charger works on 110/220 V 50/60 Hz standard home AC power outlets and the charger automatically detects and accounts for incoming voltage. Do not open the charger or modify voltage input.
Do not yank or pull on the cables of the charger. When unplugging carefully remove both the AC and DC cables by pulling on the plastic plugs directly, not pulling on the cables.

**Charge the battery only with the charger originally supplied with the bike from Senada Bikes, or a charger purchased directly from Senada Bikes, designed for use with your specific bike serial number, as approved by Senada Bikes. Never use an aftermarket charger, which can result in damage, serious injury, or death.**

**Please take special care in charging your bike from Senada Bikes in accordance with the procedures and safety information detailed in this manual. Failure to follow proper charging procedures can result in damage to your bike, the charger, or personal property, and/or cause serious injury or death.**

## Long-Term Battery Storage

If storing your bike from Senada Bikes for longer than two weeks at a time, follow the instructions below to maintain the health and longevity of your battery.

Charge (or discharge) the battery to approximately 75% charged.
Power off the battery either locked to the frame or unlocked and removed from the frame for storage
Store the battery in a dry, climate controlled, indoor location between 50 °F – 77 °F (10 °C – 25 °C).
Check the battery every month, and if necessary, use the Senada Bikes charger to charge the battery to 75% charged.



**Please follow the above instructions for storing your bike and battery from Senada Bikes. Failure to follow proper battery storage procedures can result in a non-functional battery. Replacement will not be covered under warranty.**



**If the battery is physically damaged, non-functional or involved in a crash, with or without obvious signs of damage, please discontinue use and charging and contact Senada Bikes immediately.**



**Do not cover up the charger when plugged in or charging. The charger air cools and needs to be on a hard, flat surface in an open space. Use the charger with the indicator lights facing upward. Do not use with the charger inverted, which can inhibit cooling and reduce charger lifespan.**



**Do not open the battery housing, which will void the warranty and can result in damage to the battery or property or cause serious injury and/or death.**

## Operation

***NOTICE:*** Do not perform any of the steps in the Operation section of this manual until you have read this entire manual, since there are important details related to safety in the following sections.



**Read and understand all sections of this entire manual before operating the bike for the first time. There are important safety warnings throughout the whole manual that must be followed to prevent dangerous situations, accidents, damage to the bike, damage to property, injury, or death.**



**Users must follow the instructions and warnings contained in this manual for safety. Do not attempt to operate your bike from Senada Bikes until you have adequate knowledge of its control and operation. Damage caused by failing to follow instructions is not covered under warranty and could result in dangerous situations, accidents, injury to you and others, damage to the bike, damage to property, injury, or death. Contact Senada Bikes if you have any questions about assembly or operation.**



**Users must become accustomed to the bike's power control system before operating. The throttle mechanism allows full power to be activated from a stop and inexperienced users should take extra care when first applying the throttle. The pedal assistance feature is also a powerful option and users should fully research and understand how to operate it before first use. Not taking care to familiarize yourself and practice the operation of the power system on your bike from Senada Bikes can lead to damage, serious injury, or death.**

## Handlebar Features

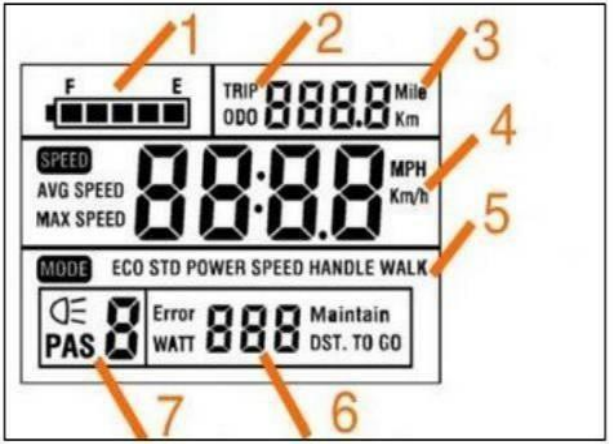
| Location on Handlebar | Component |
|---|---|
| 1 | DISPLAY REMOTE |
| 2 | LCD DISPLAY |
| 3 | SHIFTER LEVEL |
| 4 | THROTTLE SWITCH ON/OFF |
| 5 | THROTTLE |



## LCD Display Information

The table and image below show the various features and information displayed on the LCD display.

| Location | Information on Display |
|---|---|
| 1 | Battery Charge Indicator |
| 2 | Distance (Odometer, Trip Odometer) |
| 3 | Distance Unit (kilometers (Km), miles (Mile)) |
| 4 | Speed Unit (kilometers per hour (Km/h), miles per hour (MPH)) |
| 5 | Operation Mode |
| 6 | Watt Meter, Error Code Indicator |
| 7 | Pedal Assist Level |




## LCD Display Controls

The display is controlled using the 3-button display remote mounted on the left side of the handlebar (depicted at right). The top button shows an arrow pointing up, the middle button is labeled “MODE”, and the bottom button shows an arrow pointing down

## LCD Display Operations

| Operation | Directions |
|---|---|
| Turn on bike | Press and hold M button (2) until power engages |
| Turn on headlight | Press and hold up arrow(1) until light illuminates |
| Increase pedal assist (PAS) level | Press and release up arrow(1) |
| Decrease pedal assist (PAS) level | Press and release down arrow(3) |
| Toggle odometer, trip odometer | Press and release MODE (2) |
| Turn on walk mode | While dismounted, press and continue to hold down arrow |
| Turn on cruise control system(CCS) | Press and continue to hold down arrow (3) |
| Charge device using USB port | Locate USB port on LCD edge closest to rider and unplug rubber cover.With LCD powered off, plug USB charging cable (not included) into USB port on LCD display and device (not included), and then turn on bike by pressing and holding MODE until power engages. |

## Start-Up Procedure

After the bike has been properly assembled if all components are secured correctly, and you have read this entire manual, you may turn the bike on and select a power level following the steps outlined below:

Test the battery lock security.Ensure the key port is aligned in the “lock” position.

Ensure proper handlebar and seat adjustment of the bike to the rider.For details see the “adjusting the seatheight” and “adjusting the seat position and angle” section.Ensure the handlebar faceplate bolts and seatpost quick release are fully and properly secured.

Turn on the bike. Make sure the throttle is back to its original position
Long press the "M" button to turn on the display.

Turn on the headlight,press and hold the UP arrow for 3 seconds.

**Select the desired level of pedal assistance** (PAS) between level 0 through 5 using the up and down arrows on the display remote. Level 1 corresponds to the lowest level of pedal assistance, and level 5 corresponds to the highest level of pedal assistance. Level 0 indicates pedal assistance is inactive. Start in PAS level 0 or 1 and adjust from there.

**Begin riding carefully.** With the proper safety gear and rider knowledge, Press the red button and you may now operate your bike from Senada Bikes. On a flat surface, in a low gear (1 or 2), most riders should be able to begin pedaling the bike with pedal assist level 0 or 1. You may also use the throttle to accelerate and maintain your desired speed.

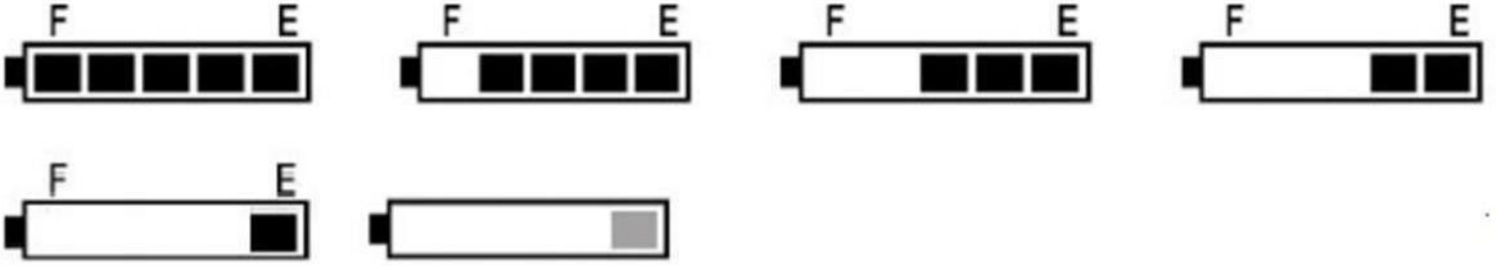
**The throttle** is used by slowly and carefully rotating the throttle backward, toward the rider. Do not use the throttle unless you are on the bike.If LCD shows ERROR 08,please press the red button.



**Do not use the throttle while dismounted. Avoid accidental application of the throttle while dismounted; anytime you are moving the bike while dismounted, ensure the bike is powered off to prevent accidental application of the throttle.**

## Battery Charge Level Indicator

The LCD display on the handlebars of your bike from Senada Bikes features a battery charge level indicator (like a fuel gauge on a car). This indicator calculates battery life based on the battery power output (instantaneous voltage reading) and can fluctuate while riding if power demand and/or output changes. Once one bar is left on the display, users should charge the battery as soon as possible. At lower states of charge, the bike may limit power output to prevent damage to the battery.




## Best Practices for Extending Range and Battery Life

***Notice:*** Follow the best practices listed below to help extend your range and battery life.

Whenever possible, avoid applying full throttle when the bike has slowed to very low speeds, has stalled, or stopped.
Pedal to assist the motor when climbing hills and accelerating from a stop.
Reduce your power consumption whenever possible.
Do not climb hills steeper than 15% in grade.
Avoid sudden starts and stops.
Accelerate slowly.

## Driving Range

The range of your bike from Senada Bikes is the distance the bike will travel on a single full charge of the onboard battery. The range values in this manual are estimates based on expected usage characteristics of bikes by Senada Bikes. Some of the factors that affect range include changes in elevation, speed, payload, acceleration, number of starts and stops, ambient air temperatures, tire pressure, and terrain.

We suggest that you select a lower assistance level when you first get your bike from Senada Bikes to get to know your bike and travel routes. Once you become familiar with the range requirements of your travel routes and the capabilities of your bike from Senada Bikes, you can then adjust your riding characteristics if you so desire.

## Carrying Loads

MAXIMUM PAYLOAD CAPACITY FOR SABER and HERALD

The total maximum weight limit, or payload capacity, of SABER and HERALD (330LBS) includes the weight of the rider as well as clothing, safety gear, cargo, accessories, passengers, etc.

**Total maximum payload: 330 LBS**

# Maintenance

## Basic Bike Care

To ensure safe riding conditions you must properly maintain your bike from Senada Bikes. Follow these basic guidelines and see a certified, reputable bike mechanic at regular intervals to ensure your bike is safe for use and fun to ride. See the Pre-Ride Safety Checklist and Recommended Service Intervals sections in this manual for more detailed information.

- Properly maintain batteries by keeping them fully charged when between uses of up to two weeks apart. See Long-Term Battery Storage section of manual for information on storing the battery for longer than two weeks between rides.
- Never immerse or submerge the bike or any components in water or liquid as the electrical system may be damaged.
- Periodically check wiring and connectors to ensure there is no damage and the connectors are secure.
- To clean, wipe the frame with a damp cloth. If needed, apply a mild non-corrosive detergent mixture to the damp cloth and wipe the frame. Dry by wiping with a clean, dry cloth.
- Store under shelter; avoid leaving the bike in the rain or exposed to corrosive materials. If exposed to rain, dry your bike afterward and apply anti-rust treatment to chain and other unpainted steel surfaces.
- Riding on the beach or in coastal areas exposes your bike to salt, which is very corrosive. Wipe down your bike frequently and wipe or spray all unpainted parts with anti-rust treatment. Damage from corrosion is not covered under warranty so special care should be given to extend the life of your bike when used in coastal areas or areas with salty air or water.
- If the hub and bottom bracket bearings have been submerged in water or liquid, they should be taken out and re-greased. This will prevent accelerated bearing deterioration.
- If the paint has become scratched or chipped in the metal, use touch up paint to prevent rust. Clear nail polish can also be used as a preventative measure.
- Regularly clean and lubricate all moving parts, tighten components, and adjust as required.
- Regularly inspect all pre-attached and optional component hardware to ensure proper torque spec, secure attachment, and good working condition.



**If you do not have the experience, skill, and tools to complete maintenance and adjustment of your bike, Senada Bikes strongly recommends having a certified, reputable bike mechanic maintain, tune, and ensure the bike is safe to ride.**

## Pre-Ride Safety Checklist

***Notice:*** Before every ride, and after every 25-45 miles (40-72 km), we advise following the pre-ride safety checklist.

| Safety Check | Basic Steps |
|---|---|
| 1. Brakes | Ensure front and rear brakes work properly.<br>Check brake pads for wear and ensure they are not over worn.<br>Ensure brake pads are correctly positioned in relation to the rims.<br>Ensure brake cables are lubricated, correctly adjusted, and display no obvious wear.<br>Ensure brake levers are lubricated and tightly secured to the handlebar.<br>Test that the brake levers are firm and that the brake, motor cutoff functions, and the brake light are functioning properly. |
| 2. Wheels and Tires | Ensure tires are inflated within the recommended limits posted on the tire sidewalls and hold air.<br>Ensure tires have good tread, have no bulges or excessive wear, and are free from any other damage.<br>Ensure rims run true and have no obvious wobbles, dents, or kinks.<br>Ensure all wheel spokes are tight and not broken.<br>Check axle nuts and front wheel skewer and nuts to ensure they are tight. |
| 3. Steering | Ensure the handlebar and stem are correctly adjusted, tightened, and allow proper steering.<br>Ensure the handlebar is set correctly in relation to the forks and the direction of travel. |
| 4. Chain | Ensure the chain is clean, oiled, and runs smoothly.<br>Extra care is required in wet, salty/otherwise corrosive, or dusty conditions. |
| 5. Bearings | Ensure all bearings are lubricated, run freely, and display no excess movement, grinding, or rattling.<br>Check headset, wheel bearings, pedal bearings, and bottom bracket bearings. |
| 6. Cranks and Pedals | Ensure pedals are securely tightened to the cranks.<br>Ensure the cranks are securely tightened and are not bent. |
| 7. Derailleur and Mechanical Cables | Check that the derailleur is adjusted and functioning properly.<br>Ensure shifter and brake levers are attached to the handlebar securely.<br>Ensure all shifter and brake cables are properly lubricated. |

| | |
|---|---|
| 8. Frame, Fork, and Seat | Check that the frame and fork are not bent or broken.<br>If either frame or fork are bent or broken, they should be replaced.<br>Check that the seat is adjusted properly, and seatpost quick release lever is securely tightened. |
| 9. Motor Drive Assembly and Throttle | Ensure hub motor is spinning smoothly and motor bearings are in good working order.<br>Ensure all power cables running to hub motor are secured and undamaged.<br>Make sure the hub motor axle bolts are secured and the torque arm and torque washers are in place. |
| 10. Battery | Ensure battery is charged before use.<br>Ensure there is no damage to battery.<br>Lock battery to frame and ensure that it is secured.<br>Charge and store bike and battery in a dry location, between 50 °F – 77 °F (10 °C – 25 °C).<br>Let bike dry completely before using again. |
| 11. Electrical Cables | Look over connectors to make sure they are fully seated and free from debris or moisture.<br>Check cables and cable housing for obvious signs of damage.<br>Ensure headlight, taillight, and brake light are functioning, adjusted properly, and unobstructed. |
| 12. Accessories | Ensure all reflectors are properly fitted and not obscured.<br>Ensure all other fittings on bike are properly secured and functioning. Inspect helmet and other safety gear for signs of damage.<br>Ensure the rider is wearing a helmet and other required riding safety gear.<br>Ensure the mounting hardware is properly secured if fitted with a front rack, rear rack, basket, etc.<br>Ensure the taillight and taillight power wire are properly secured if fitted with rear rack.<br>Ensure fender mounting hardware is properly secured if fitted with fenders.<br>Ensure there are no cracks or holes in fenders if fitted with fenders. |



**Your cables, spokes, and chain will stretch after an initial break-in period of 50-100 mi (80-160 km), and bolted connections can loosen. Regular inspections and tune-ups are particularly important for ensuring that your bike remains safe and fun to ride.**

## Tire Inflation and Replacement

SABER and HERALD employs 26'' x 4'' rubber tires with inner tubes. The tires are designed for durability and safety for regular cycling activities and to be checked before each use for proper inflation and condition. Proper inflation, care, and timely replacement will help to ensure that your bike's operational characteristics will be maintained, and unsafe conditions avoided. Senada Bikes recommends 20 psi/1.4 bar for the stock tires on SABER and HERALD.Always stay within the manufacturer's recommended air pressure range as listed on the tire sidewall.



**It is critically important that proper air pressure is always maintained in pneumatic tires. Do not underinflate or overinflate your tires. Low pressure may result in loss of control, and overinflated tires may burst. Failure to always maintain the air pressure rating indicated on pneumatic tires may result in tire and/or wheel failure.**



**Inflate your tires from a regulated air source with an available pressure gauge. Inflating your tires from an unregulated air source could overinflate them, resulting in a burst tire.**

Even tires equipped with built-in flat-preventative tire liners, like those that come with bikes by Senada Bikes, can and do get flats from punctures, pinches, impact, and other causes. When tire wear becomes evident or a flat tire is discovered, you must replace the tires and/or tubes before operating the bike or injury to operators and/or damage to your bike could occur.



**When changing a tire or tube, ensure that all air pressure has been removed from the inner tube prior to removing the tire from the rim. Failure to remove all air pressure from the inner tube could result in serious injury.**



**Using aftermarket tires or inner tubes, not provided by Senada Bikes may void your warranty, create an unsafe riding condition, or damage to your bike by Senada Bikes. If required by law, ensure replacement aftermarket tires have sufficient reflective sidewall striping.**

For more information on tire or tube replacement procedures, or questions about tire inflation, visit SenadaBikes.com and contact Senada Bikes Product Support.

## Troubleshooting

| | Symptoms | Possible Causes | Most Common Solutions |
|---|---|---|---|
| 1 | **The bike does not work** | 1. Insufficient battery power<br>2. Faulty connections<br>3. Battery not fully seated in tray<br>4. Improper turn on sequence<br>5. Brakes are applied<br>6. Blown 40a discharge fuse | 1. Charge the battery<br>2. Clean and repair connectors<br>3. Install battery correctly<br>4. Turn on bike with proper sequence<br>5. Disengage brakes<br>6. Replace 40a discharge fuse |
| 2 | **Irregular acceleration and/or reduced top speed** | 1. Insufficient battery power<br>2. Loose or damaged throttle<br>3. Misaligned or damaged magnet ring | 1. Charge or replace battery<br>2. Replace throttle<br>3. Align or replace magnet ring |
| 3 | **The motor does not respond when the bike is powered on** | 1. Loose wiring<br>2. Loose or damaged throttle<br>3. Loose or damaged motor plug wire<br>4. Damaged motor | 1. Repair and or reconnect<br>2. Tighten or replace<br>3. Secure or replace<br>4. Repair or replace |
| 4 | **Reduced range** | 1. Low tire pressure<br>2. Low or faulty battery<br>3. Driving with too many hills, headwind, braking, and/or excessive load<br>4. Battery discharged for long period of time without regular charges, aged, damaged, or unbalanced | 1. Adjust tire pressure<br>2. Check connections or charge battery<br>3. Assist with pedals or adjust route<br>4. Balance the battery; contact Tech Support if range decline persists<br>5. Adjust the brakes |
| 5 | **The battery will not charge** | 1. Charger not well connected<br>2. Charger damaged<br>3. Battery damaged<br>4. Wiring damaged<br>5. Blown charge fuse | 1. Adjust the connections<br>2. Replace<br>3. Replace<br>4. Repair or replace<br>5. Replace charge fuse |
| 6 | **Wheel or motor makes strange noises** | 1. Loose or damaged wheel spokes or rim<br>2. Loose or damaged motor wiring | 1. Tighten, repair, or replace<br>2. Reconnect or replace motor. |

## Error detection

Your bike from Senada bikes Bikes is equipped with an error detection system integrated into the display and controller. In the case of an electronic control system fault an error code should display. The following error codes are the most common and can aid in troubleshooting. If your bike has an error code displayed at any time it is recommended that you cease operation and contact Senada Bikes immediately. Additional information on error codes can be found at www.senadabikes.com.

| Error Code | Definition |
|---|---|
| 2 | Brake |
| 5 | Real-time cruising |
| 6 | Battery is undervoltage |
| 7 | Motor's problem |
| 8 | Throttle's problem |
| 9 | Controller's problem |

E 02,try to Squeeze the brake lever repeatedly

E06,please full charge the battery,or check P03 to see the value 48

E07,motor's problem,check motor wire to see if loose connection

E08,throttle,press red button,normally will fix but if not,check the red button to see if it is broken or throttle wire

E09,controller problem,contact Senada bikes

# Warnings and Safety

## General Operating Rules

**Notice:** Pay special attention to all the general operating rules below before operating your bike from Senada Bikes.

- When riding, obey the same road laws as all other road vehicles as applicable by law in your area.
- For additional information regarding traffic/vehicles laws, contact the road traffic authority in your area.
- Ride predictably, in a straight line, and with the flow of traffic. Never ride against traffic.
- Use correct hand signals to indicate turning.
- Ride defensively; to other road users you may be hard to see.
- Concentrate on the path ahead. Avoid potholes, gravel, wet or oily roads, wet leaves, curbs, train tracks, speed bumps, drain gates, thorns, broken glass, and other obstacles, hazards, and puncture flat risks.
- Cross train tracks at a 90-degree angle or walk your bike across.
- Expect the unexpected such as opening car doors or cars backing out of driveways.
- Be careful at intersections and when preparing to pass other vehicles or other cyclists.
- Familiarize yourself with all the features and operations of the bike by Senada Bikes. Practice and become proficient at shifting gears, applying the brakes, using the power assist system, and using the throttle in a controlled setting before riding in riskier conditions.
- Wear proper riding clothes including closed-toe shoes. If you are wearing loose pants, secure the bottom using leg clips or elastic bands to prevent them from being caught in the chain or gears. Do not use items that may restrict your hearing.
- Check your local rules and regulations before carrying cargo.
- When braking, apply the rear brake first, then the front brake. If brakes are not correctly applied, they may lock up, you may lose control, and you could fall.
- Maintain a comfortable stopping distance from all other objects, riders, and vehicles. Safe braking distances are based on factors such as road surface and light conditions among other variables.

## Safety Notes

**The following safety notes provide additional information on the safe operation of your bike from Senada Bikes and should be closely reviewed. Failure to review these notes can lead to serious injury or death.**

- All users must read and understand this manual before riding their bike from Senada Bikes. Additional manuals for components used on the bike may also be provided and should be read before installing or using those components.
- Ensure that you comprehend all instructions and safety notes/warnings.
- Ensure the bike fits you properly before your first use. You may lose control or fall if your bike is too big or too small.
- Always wear an approved bicycle helmet whenever riding a bike and ensure that all helmet manufacturer instructions are used for fit and care of your helmet. Failure to wear a helmet when riding may result in serious injury or death.
- Ensure correct setup, tightening, and torqueing to recommended torque values is performed on your bike before firstusing it and check the setup, tightening, and condition of components and hardwareregularly.
- It is your responsibility to familiarize yourself with the laws and requirements of operating this product in the area(s) where you ride.
- Ensure the handlebar grips are undamaged and properly installed. Loose or damaged grips can cause you to lose control and fall.
- Do not use this product with standard bike trailers, stands, vehicle racks, or accessories that Senada Bikes Bikes has not tested for safety and compatibility and have verified as safe and compatible with the bike. Contact Senada Bikes to check if your equipment will work with the bike.
- Off-road riding requires close attention, specific skills, and presents variable conditions and hazards. Wear appropriate safety gear and do not ride alone in remote areas. Check local rules and regulations about whether off-road ebike riding is allowed.
- DO NOT ENGAGE IN EXTREME RIDING. This includes but is not limited to jumps, stunts, or any riding that exceeds your capabilities. Although many articles/advertisements/catalogs depict extreme riding, this is not recommended nor permitted, and you can be seriously injured or killed if you perform extreme riding.

## Wet Weather



**It is recommended to not ride in wet weather if avoidable. Ride in wet weather only if necessary.**

This electric bike is not meant for use in puddles, heavy rain, or streams. Never immerse or submerge this product in water or liquid as the electrical system may be damaged.

- In wet weather you need to take extra care when operating this bike.
- Decrease riding speed to help you control the bike in slippery conditions.
- Brake earlier since it will take longer to slow than when operated in dry conditions.
- Take care to be more visible to others on the road. Wear reflective clothing and use approved safety lights.
- Road hazards are more difficult to see when wet; proceed with caution.

## Night Riding



**It is recommended to not ride at night if avoidable. Ride at night only if necessary.**

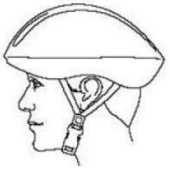
- Wear reflective and light-colored clothing.
- Slow down and use familiar roads with street lighting, if possible.
- Ensure tire wall, pedal, and other reflectors are installed and unobstructed.
- Ensure head light and taillight/brake light are functioning correctly and use them.

- Bikes and bike parts have strength and integrity limitations, and extreme riding, including but not limited to jumps, stunts, etc., should not be performed as it can damage bike components and/or cause or lead to dangerous riding situations in which you may be seriously injured or killed.
- Failure to perform and confirm proper installation, compatibility, proper operation, or maintenance of any component or accessory can result in serious injury or death.
- After any incident, you must consider your bike unsafe to ride until you consult with a certified, reputable bike mechanic for a comprehensive inspection of all components, functions, and operations of the bike.
- Failure to properly charge, store, or use your battery will void the warranty and may cause a hazardous situation.
- You should check the operation of the brake motor cutoff switches before each ride. The brake system is equipped with an inhibitor that cuts off power to the electric motor whenever the brakes are squeezed. Check proper operation of brake motor cutoff switches before riding.
- Extreme care should be taken when using the pedal assistance sensor and throttle on this product. Ensure you understand and are prepared for the power assistance to engage as soon as pedaling is underway.
- Users must understand the operation of the twist throttle and pedal assistance sensors before using the bike and must take care to travel at speeds appropriate for the usage area, riding conditions, and user experience level. Always use the lowest assist level until you are comfortable with the bike and feel confident in controlling the power.
- Any aftermarket changes to your bike from Senada Bikes not expressly approved by Senada Bikes could void the warranty and create an unsafe riding experience.
- Because electric bikes are heavier and faster than normal bikes, they require extra caution and care while riding.
- Take extra care while riding in wet conditions including decreasing speed and increasing braking distances. Feet or hands can slip in wet conditions and lead to serious injury or death.
- Do not remove any reflectors or the bell.

## Helmets

It is strongly advised that a rider and child passenger always wear a properly fitting and approved bicycle safety helmet when riding. Once safely dismounted from the bike, a child's helmet should be removed. Bicycle helmets should only and always be used for bicycle riding.

**When riding a bike, always wear a properly fitted helmet that covers the forehead. Many locations require specific safety devices. It is your responsibility to familiarize yourself with the local laws, rules, and regulations where you ride and to comply with all applicable laws, including equipping yourself and your bike as the law requires.**



## General Warnings

**Like any sport, bicycling involves risk of damage, injury, and death. By choosing to ride a bike, you assume the responsibility for that risk, so you need to know, and practice the rules of safe and responsible riding and the proper use and maintenance of this bike. Proper use and maintenance of your bike reduces risk of damage, injury, and death.**

**Biking and controlled substances do not mix. Never operate a bike while under the influence of alcohol, drugs, or any substance or condition that could impair motor functions, judgment, or the ability to safely operate a bike or another vehicle.**

**SABER and HERALD are designed for use by persons 18 years old and older. Riders must have the physical condition, reaction time, and metal capability to ride safely and manage traffic, road conditions, and sudden situations, as well as respect the laws governing electric bike use where they ride, regardless of age. If you have an impairment or disability such as a visual impairment, hearing impairment, physical impairment, cognitive/language impairment, a seizure disorder, or any other physical condition that could impact your ability to safely operate a vehicle, consult your physician before riding any bike.**

## A Note for Parents and Guardians

As a parent or guardian, you are responsible for the activities and safety of your child.SABER and HERALD are not designed for use by children under the age of 18. If you are carrying a passenger in a child safety seat, they should also be wearing a properly fitted and approved helmet. Additional safety information can be found in the Helmet section of this manual. See the Carrying a Child section of this manual for more information on keeping a child safe when being transported in an approved child safety seat attached to the optional rear rack of SABER and HERALD.

# Limited Warranty

## Warranty Info

Every bike by Senada Bikes is covered under a manufacturer's one-year all-inclusive warranty for the original owner against all manufacturing defects. Senada Bikes warrants this product, including all individual components against defects in material or workmanship as follows:

Senada Bikes LIMITED 1 YEAR WARRANTY

Senada Bikes bike components including frame, forks, stem, handlebar, headset, seatpost, seat, brakes, lights, bottom bracket, crank set, pedals, rims, wheel hub, freewheel, derailleur, shifter, battery, motor, throttle, controller, wiring harness, display, kickstand, and hardware are warranted to be free from manufacturing defects in materials and/or workmanship for a 1-year period from the date of original purchase.

Senada Bikes lithium-ion batteries are warranted to be free from manufacturing defects in materials and/or workmanship for a 1-year period from the date of original purchase. The battery warranty does not include damage from power surges, use of improper charger, improper maintenance or other such misuse, disassembly, normal wear, or water damage.

## Warranty Exclusions

- Liability for material defects does not cover normal wear and tear, which occurs from the manufacturers' intended use of the product. Components such as the battery, motor system, braking system, drivetrain system, seat, grips, and pedals are all subject to intended use-related wear and are not covered under the warranty from normal wear.
- Damage arising from the use of the bike in a competition or other applications outside of normal intendeduse.
- Damage arising from improper tools, improper assembly, or improper maintenance performed on the bike.
- Damage resulting from adding non-standard equipment, parts, or modifications.

## Additional Warranty Terms

This warranty does not cover any damage or defects resulting from failure to follow instructions in the owner's manual, acts of God, accidents, misuse, neglect, abuse, commercial use, alterations, modification, improper assembly, wear and tear, installation of parts or accessories not originally intended or compatible with the bike as sold, operator error, water damage, extreme riding, stunt riding, or improper follow-up maintenance. This warranty does not include normal wear and tear or consumable parts designed to wear down over time, including tires, tubes, brake pads, cables and housing, spokes, and handlebar grips.

Senada Bikes will not be liable and/or responsible for any damage, failure, or loss caused by any unauthorized service or use of unauthorized parts. In no event shall Senada Bikes be responsible for any direct, indirect, or consequential damages, including without limitation, damages for personal injury, property damage, or economic losses, whether based on contract, warranty, negligence, or product liability in connection with their products. All claims to this warranty must be made through Senada Bikes. Proof of purchase is required with any warranty request.

## Additional Information on Wear

Components of SABER and HERALD are subject to higher wear when compared to bikes without power assistance. This is because the Herald&Saber can travel at higher average speeds than regular bicycles and has a greater weight. Higher wear is not a defect in the product and is not subject to warranty. Typical components affected are the tires, brake pads and rotors, suspension forks, spokes, wheels, and the battery.

# We are here to help!

**If you have questions, please:**

**Contact us directly by email at**

**contact@senadabikes.com**