



ELECTRIC BICYCLE

BICYCLE, AND KEEP THE MANUAL HANDY FOR FUTURE REFERENCE.

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THIS MANUAL CONTAINS IMPORTANT SAFETY, PERFORMANCE AND MAINTENANCE INFORMATION. READ THE MANUAL BEFORE TAKING YOUR FIRST RIDE ON YOUR NEW

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FULLY CHARGE BATTERIES BEFORE FIRST USE - Batteries should be fully charged immediately when they are received and immediately after each use for the recommended charge times (see below).

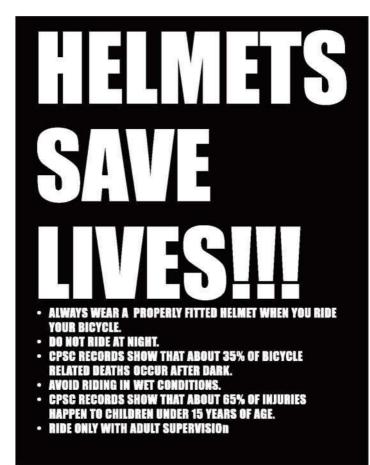
• Li-Ion (Lithium Ion) batteries 4-6 hours (2-3 hours for Via Urbano)

We recommend that you consult a bicycle specialist if you have doubts or concerns as to your experience or ability to properly assembly, repair, or maintain your bicycle. Additional warning/cautions are in the assembly section of this manual

With proper care and maintenance your Electric Bicycle will provide ease of use and be fun to ride. Below are points that will help you to maximize the enjoyment you get from your new hybrid electric bicycle.

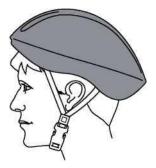
FACTORS TO MAXIMIZE THE RANGE OF YOUR HYBRID ELECTRIC BICYCLE

- Rider input the more the rider pedals the further the distance traveled. Continuous riding, as opposed to frequent stopping and starting, will yield the greatest range possible
- Elevation Gain the flatter the road the further the distance traveled
- Weather cold weather can adversely affect the battery capacity
- Wind traveling with a tailwind will increase distance traveled, traveling into a headwind will decrease distance traveled
- Terrain the smoother the terrain , the further the distance traveled
- Rider Weight the lighter the rider, resulting in less drain on the batteries, the further distance traveled
- Bicycle Maintenance a properly maintained bicycle will yield the greatest range possible
- Tire pressure properly inflated tires have less rolling resistance and will be easier to pedal
- **Batteries** properly charged and maintained batteries will yield the greatest range possible. Batteries stored in cold areas (below 50 degrees Fahrenheit /10 degrees Celsius) will show reduced range. Batteries that have not been kept in optimum condition will show reduced range and run time.





CORRECT FITTING - MAKE SURE YOUR HELMET COVERS YOUR FOREHEAD.



INCORRECT FITTING. FOREHEAD IS EXPOSED AND VULNERABLE TO SERIOUS INJURY.

Please Retain your Sales Receipt as Proof of Purchase. Attach receipt here.

PART 1 Bike Model Show and Tools
PART 2 Before You Ride
PART 3 Electrical Components & Charger
PART 4 Assembly
PART 5 Servicing
PART 6 Detailed Maintenance

Notes:			-
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Preface

BEFORE YOU RIDE

ABOUT THIS MANUAL

It is important for you to understand your new bicycle. By reading this manual before you go out on your first ride, you'll know how to get better performance, comfort, and enjoyment from your new bicycle.

It is also important that your first ride on your new bicycle is taken in a controlled environment, away from cars, obstacles, and other cyclists.

General Warning

Bicycling can be a hazardous activity even under the best of circumstances. Proper maintenance of your bicycle is your responsibility as it helps reduce the risk of injury. This manual contains many "Warnings" and "Cautions" concerning the consequences of failure to maintain or inspect your bicycle. Many of the warnings and cautions say "you may lose control and fall." Because any fall can result in serious injury or even death, we do not repeat the warning of possible injury or death where ever the risk of falling is mentioned.

A SPECIAL NOTE FOR PARENTS

It is a tragic fact that most bicycle accidents involve children. As a parent or guardian, you bear the responsibility for the activities and safety of your minor child. Among these responsibilities are to make sure that the bicycle which your child is riding is properly fitted to the child; that it is in good repair and safe operating condition; that you and your child have learned, understand and obey not only the applicable local motor vehicle, bicycle, and traffic laws, but also the common sense rules of safe and responsible bicycling. As a parent, you should read this manual before letting your child ride the bicycle. Please make sure that your child always wears an ANSI, ASTM, SNELL approved bicycle helmet when riding.

Your new bicycle was partially assembled in the factory and then partially disassembled for shipping. You may have purchased the bicycle already fully assembled and ready to ride OR in the shipping carton in the partially disassembled form. The following instructions will enable you to prepare your bicycle for years of enjoyable cycling. For more details on inspection, lubrication, maintenance and adjustment of any area please refer to the relevant sections in this manual. If you have questions about your ability to properly assemble this unit, please consult a qualified bicycle service specialist before riding.

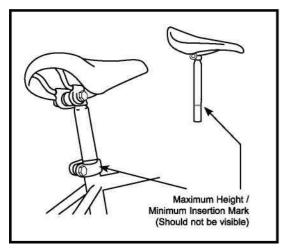
When working on your bicycle as instructed by this manual, please refer to the torque values chart on pages 120-121 for detailed torque requirements. Under- or over-tightened components may loosen or break, causing a fall.

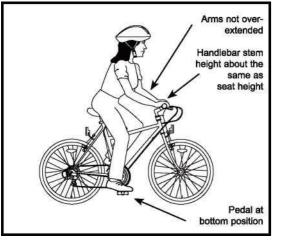


• 2.5mm, 3mm, 4mm, 5mm 6mm & 8mm Allen keys • Adjustable wrench or a 8mm, 9mm, 10mm, 13mm, 14mm, 15mm & 17mm open/box end wrenches • A pair of pliers with cable cutting ability.

Typical Tools Required:

· Phillips head screw driver





RIDING POSITION

Seat Height

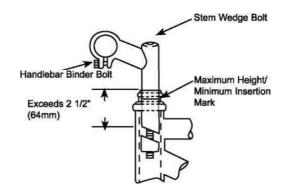
In order to obtain the most comfortable riding position and offer the best possible pedaling efficiency, the seat height should be set correctly in relation to the rider's leg length. The correct saddle height should not allow leg strain from over-extension, and the hips should not rock from side to side when pedaling. While sitting on the bicycle with one pedal at its lowest point, place the ball of your foot on that pedal. The correct saddle height will allow the knee to be slightly bent in this position. If the rider then places the heel of that foot on the pedal, the leg should be almost straight.

Under no circumstances should the seat post project from the frame beyond its "Minimum Insertion9" or "Maximum Extension" mark. If your seat post projects from the frame beyond these markings, the seat post or frame may break, which could cause you to lose control and fall. Prior to your first ride, be sure to tighten the seat clamp properly. A loose seat clamp or seat post binder can cause damage to the bicycle or can cause you to lose control and fall. Periodically check to make sure that the seat clamp is properly tightened.

Reach

To obtain maximum comfort, the rider should not overextend his or her reach when riding.

To adjust this distance, the position of the seat can be altered in relation to the seat post. (Refer to page 66 on how to adjust the seat clamp.)



Handlebar Height Maximum comfort is usually obtained when the handlebar height is equal to or slightly higher than the height of the seat. You may wish to try different heights to find the most comfortable position.

Threadless headsets and clamp-on stems are not easily adjustable. Please refer to page 61 for instructions on installation.

The stem's "Minimum Insertion" mark must not be visible above the top of the headset. If the stem is extended beyond this mark, the stem may break or damage the fork's steerer tube, which could cause you to lose control and fall.

Failure to properly tighten the stem binder bolt, the handlebar binder bolt, or the bar end extension clamping bolts may compromise steering action, which could cause you to lose control and fall. Place the front wheel of the bicycle between your legs and attempt to twist the handlebar/stem assembly using a reasonable amount of force. If you can twist the stem in relation to the front wheel, turn the handlebars in relation to the stem, or turn the bar end extensions in relation to the handlebar. Prior to riding, you must fully tighten the appropriate bolts accordingly.



SAFETY CHECKLIST

Before every ride, it is important to carry out the following safety checks:



Brakes

- Ensure front and rear brakes work properly.
- Ensure brake shoe pads are not over worn and are correctly positioned in relation to the rims.
- Ensure brake control cables are lubricated, correctly adjusted and display no obvious wear.
- Ensure brake control levers are lubricated and tightly secured to the handlebar.



Wheels and tires

- Ensure tires are inflated to within the recommended limit as displayed on the tire sidewall.
- Ensure tires have tread and have no bulges or excessive wear.
- Ensure rims run true and have no obvious wobbles or kinks.
- · Ensure all wheel spokes are tight and not broken.
- · Check that axle nuts are tight. If your bicycle is fitted with quick release axles, make sure locking levers are correctly tensioned and in the closed position.



Steering

- Ensure handlebar and stem are correctly adjusted and tightened, and allow proper steering.
- Ensure that the handlebars are set correctly in relation to the forks and the direction of travel.
- · Check that the headset locking mechanism is properly adjusted and tightened.
- the If bicycle is fitted with handlebar end extensions, ensure they are properly positioned and tightened.



4. Chain

- · Ensure chain is oiled, clean and runs smoothly.
- Extra care is required in wet or dusty conditions.



Bearings

- Ensure all bearings are lubricated, run freely and display no excess movement, grinding or rattling.
- Check headset, wheel bearings, pedal bearings and bottom bracket bearings.

• Ensure pedals are securely tightened to the cranks.



7. Derailleurs

- · Check that front and rear mechanisms are adjusted and function properly.
- Ensure shift and brake levers are attached to the handlebar, shift and brake.
- Ensure derailleurs, shift levers and shift and brake cables are properly lubricated.



Frame and Fork

6. Cranks and Pedals

- Check that the frame and fork are not bent or broken.
- either If are bent or broken, they should be replaced.



Accessories

- Ensure that all reflectors are properly fitted and not obscured.
- · Ensure all other fittings on the bike are properly and securely fastened, and functioning.
- Ensure the rider is wearing a helmet.



10. Motor Drive Assembly and Throttle

• Ensure all motor drive components are correctly mounted and functioning properly.



11. Battery Pack

• Ensure the batteries are in good operation condition and kept fully charged.



• Ensure cranks are securely tightened to the axle and are not bent.

Seat and Handlebar Mounting Reflectors

First attach the reflector to the reflector bracket with the reflector screw, see the top diagram. Next, remove the clamp screw and open the clamping reflector bracket. Place clamping reflector bracket around the handlebar or seatpost. If the clamp is too loose, insert a rubber spear inside of the clamp. Tighten the clamp screw to hold reflector assembly in place, see the second diagram. Finally, adjust the reflector assembly in place and ensure that it is upright and facing away from the bike.





61-69cm / 24-27 inches 66-76cm / 26-30 inches 71-79cm / 28-31 inches 76-84cm / 30-33 inches 79-86cm /31-34 inches 81-89cm / 32-35 inches 86-94cm / 34-37 inches

Approximate Rider Leg

Length

Seatstay Mount Reflector Bracket Assembly

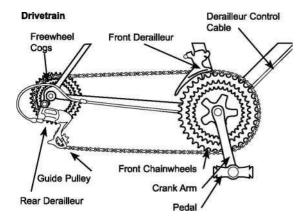
First insert one washer onto the hex bolt and insert hex bolt through the reflector bracket and then through the seatstay bridge. Next, insert a second washer onto the bolt and thread [†] a hex nut onto the bolt behind the seatstay bridge. Tighten bolts until snug, making sure the reflector is in an upright position. See diagram at the bottom right.



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Frame Sizing Guide

Suggested Frame Size for Racing/t curing Bicycle	Suggested frame Size for Mountain, Hybrid, Comfort, or Cruiser Bicycle
-	37cm /14.5 inches
-	43cm /17 inches
50cm /19.5 inches	45cm /18 inches
55cm / 21.5 inches	50cm /19.5 inches
57cm / 22.5 inches	52cm / 20.5 inches
60cm / 23.5 inches	53-56cm / 21-22 inches
63cm / 25 inches	58-60cm / 23-23.5 inches



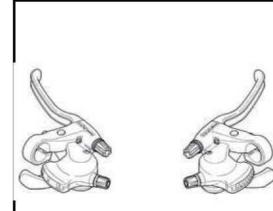
GEARS - HOW TO OPERATE

Derailleur Gears

Most multi-speed bicycles today are equipped with what are known as derailleur gears. They operate using a system of levers and mechanisms to move the drive chain between different sized driving gears or cogs. The purpose of gears is to let you maintain a constant, steady pedaling pace under varying conditions. This means your riding will be less tiring without unnecessary straining up hills or fast pedaling down hill. Bicycles come with a variety of gear configurations from 5 to 30 speeds. A 5 or 6 speed bicycle will typically have a single front chainwheel, a rear derailleur, and 5 or 6 cogs on the rear hub. Bicycles with more gears will additionally have a front derailleur, a front chainwheel with 2-3 cogs, and up to 10 cogs on the rear hub.

Operating Principles

No matter how many gears, the operating principles are the same. The front derailleur is operated by the left shift lever and the rear derailleur by the right. To operate you must be pedaling forward. You can not shift derailleur gears when you are stopped or when pedaling backwards. Before shifting ease up on your pedaling pressure. For a smooth gear change when approaching a hill, shift to a lower gear BEFORE your pedaling speed slows down too much. When coming to a stop, shift to a lower gear first so it will be easier when you start riding again. If, after selecting a new gear position, you hear a slight rubbing noise from the front or rear gears, some adjustments may be necessary. Gently adjust the appropriate shifter using the barrel adjusters until the noise goes away. For optimal performance and extended chain life, it is recommended that you avoid using the extreme combinations of gear positions (Refer to diagram on page 31) for extended periods. It is recommended that a trained bicycle technician perform all adjustments to the shifters and derailleurs.



Below the Bar Shifters in ^KHow Things Work".

Hand Grip Shifters

Some bicycles are equipped with a shifting mechanism called Grip Shift[™], which is built into the handlebar grips and does not make use of separate levers. The actuating mechanism is built into the inside part of the grip so that the hand and palm wrap around them naturally. To select a lower gear, twist the left shifter toward you to engage a larger rear cog. You can shift one gear at a time by moving the Grip ShiftTM one click, or through multiple gears by continued twisting. To select a higher gear, twist the left shifter forward or away from you to engage a smaller rear cog. Single shifts can be achieved by twisting one click at a time and multiple shifts by larger twists.







Front High Gear

Rear High Gear

Many mountain style bicycles now use a shift lever arrangement mounted on the underside of the handlebars, which use two levers operated by the thumb and index finger. To select a lower gear push the larger (lower) right shifter with your thumb to engage a larger rear cog. One firm push shifts the chain one cog, continuing to push will move the chain over multiple cogs. Pulling the smaller (upper) left shifter with your index finger moves the chain from a larger to a smaller chainwheel. To select a higher gear pull the smaller (upper) right lever with your index finger to engage a smaller rear cog. Pushing the larger (lower) left lever with your thumb will move the chain from a smaller to a larger chainwheel. Please refer to pages 118-119 for additional instructions





PAS Sensor Ring



Power selector toggle switch. For some models the ON/OFF is on the battery or rack (see battery section of manual)

Throttles

TAG Throttle

Throttles are equipped on some models of electric bicycles. Throttles operate by rotating the throttle towards the rider much like a motorcycle. They generally are the inner half of the right side handlebar grip and may also contain a battery gauge. The more you twist the throttle, the faster the motor system will propel the bicycle.

TAG (Twist and Go)

Before you begin riding, turn the main power switch on, then start riding as you would ride any regular, non motor assisted bicycle. After you have begun to ride, slowly twist the throttle (on equipped models) towards you. The more you twist the throttle, the more motor power will be applied to the wheels. You may feel the pedals get a "lighter¹' feel than when riding without the motor assisting you. Once you have twisted the throttle all the way, the motor will accelerate you to its full speed of about 18-20mph (28-32 km/h).

Begin by first riding as if you are on a normal non-electric bicycle. After a few seconds, the motor will slowly activate and ramp up to 50% power. Then, while the pedals are in motion, you can slowly twist the throttle towards you to activate the full motor power.

Battery Care and Information

Proper maintenance of batteries will maximize their lifespan and capacity. Currie Technologies® warranties your new batteries from the date of purchase only if properly cared for-refer to the limited warranty for details. Currie uses SLA (Sealed Lead Acid) or Li-Ion (Lithium Ion) batteries in all of our hybrid electric bicycles and scooters. These are both very user-friendly types of batteries when cared for properly.

Care

Even with proper care, rechargeable batteries do not last forever. Every time the battery is discharged and subsequently recharged, its relative capacity decreases by a small percentage. You can maximize the life of your battery by following the instructions in this guide.

- Batteries should be fully charged immediately when they are received for the full recommended charge times.
- Li-Ion recommended charge time: 4-6 hours (2-3 hours for Via Urbano). For a complete, 100% charge, leave the battery on the charger for one full hour after the charger indicator light turns green.
- Never charge batteries for longer than 24 hours.
- · SLA and Li-Ion batteries do not have a "memory." Partial discharge/charge cycles will not harm the batteries capacity or performance.
- The rated output capacity of a battery is measured at 77°F (25°C). Any variation in this temperature will alter the performance of the battery, and shorten its expected life. High temperatures especially reduce overall battery life & run time.
- Currie bikes and scooters are equipped with a five-minute sleep function. If no activity is detected after five minutes, the bike/scooter will go into "stasis" mode to conserve battery power. Simply cycle the bike/scooter off then on again to re-activate the battery.
- Always be sure to turn the bike/scooter power switch to "OFF" after each use. If you leave the power switch in the "ON" position, or your product has not been charged for a long period of time, the batteries may reach a stage at which they will no longer hold a charge.
- Be friendly to the environment! Be sure to recycle your old batteries at a local battery-recycling center. Do not throw them in the garbage! Check www.call2recycle.org for more information on free battery dropoff locations.

How to ASSEMBLY THE BATTERY

Before using the charger locate the voltage selector switch (Li-Ion chargers only) on the back of the charger. Select either 115 Volts or 230 Volts depending on the country you reside in. Using the wrong voltage setting will permanently damage the charger and/or electrical components on the hybrid electric bicycle.



1: Loose the Fixed Screw Anticlockwise

2: Pull out the Electric Cable

3: Twist the Bolt Anticlockwise, Pull out Battery

4: Normal Statue of Charger, with Green Light on

5: Under Charging, the right situation is Red Light on(attention: during the charging, if the green light on means wrong, while when the battery charged full, the green light on.)6: the flute and the convex part should be matched well

7: Insert the Electric Cable

8: Fix the screws

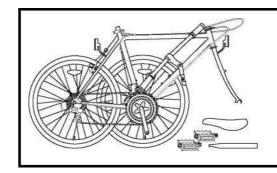
9: Twist the bolt in anticlockwise, put in the battery

Bicycle Assembly

Assembly Guides

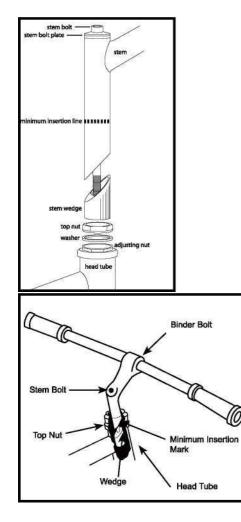
Individual assembly guides for each bicycle model can be found packaged with your bicycle, or viewed online by visiting www.currietech.com and clicking on the page for your model.

Bike Assembly Manual



Getting Started

Open the carton from the top and remove the bicycle. Remove the straps and protective wrapping from the bicycle. Inspect the bicycle and all accessories and parts for possible shortages. It is recommended that the threads and all moving parts in the parts package be lubricated prior to installation. Do not discard packing materials until assembly is complete to insure that no required parts are accidentally discarded. Note: Your bicycle may be equipped with different style components than the ones illustrated.



Stem and Handlebars (Standard Quill-type)

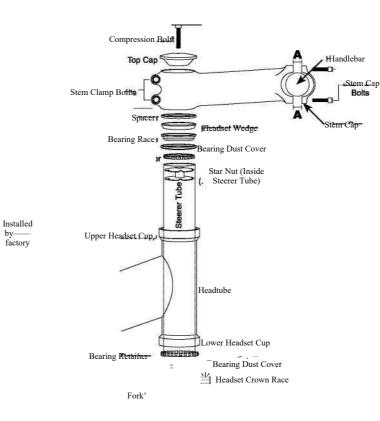
Most Currie bicycles use this stem type

- 1. Remove the protective shipping cap from the stem wedge.
- Remove the Stem Plug from the stem. Loosen the Stem Bolt with a 6mm alien wrench or 13mm box wrench.
- 3. Insert the stem into the headtube of the bicycle. Ensure that the Minimum Insertion Line is below the top nut of the headset.
- 4. Align the stem and handlebar so it is in line with the front wheel.
- 5. Tighten the Stem Bolt with the 6mm alien wrench. Reinsert the Stem Plug into the stem.
- 6. Check the headset for smooth rotation and that the top nut is secured tightly.
- Loosen the 6mm Binder Bolt and rotate the handlebar so the levers are at a 45 degree angle below the handlebar.

8. Retighten the Binder Bolt to ensure the handlebar does not rotate in the stem. Warning: Minimum insertion line Must Be hidden Within the HEADTUBE OF THE BICYCLE.

If the stem is not inserted into the top nut to at least the "Minimum Insertion" mark, it is possible to over-tighten the stem bolt and damage the fork steerer tube. If these instructions are not followed, it could cause an unsafe condition and risk injury to the rider. Check steering tightness prior to riding by straddling the front wheel. Try turning the handlebar. If you can turn it without turning the front wheel, the stem is too loose. Re-align the handlebar with the front wheel and re-tighten the stem bolt.

NOTE: Some models of bicycles may be equipped with a stem that has an adjustable angle. In addition to the normal assembly, these stems will require angling the stem to the desired position, and securely tightening the 6mm Allen bolt located underneath the stem. **Failure to do this may cause loss of steering control.**



Stem and Handlebars (threadless/a headset)

Stem Installation (Should be assembled on the bike already)

- 1. Insert the compression bolt through the top cap and the stem. Begin threading into the star nut.
- 2. Tighten compression bolt so it removes all play from the fork, but allows the fork to rotate smoothly.
- 3. Align the stem with the front wheel. Tighten the stem clamp bolts to secure the stem to the steerer tube.

Handlebar Installation

- 1. Remove the stem cap bolts and stem cap.
- 2. Insert handlebar into the stem cap.
- Tighten the stem cap bolts equally. Note the distance between the stem and stem cap "A" should be equal on the top and bottom of the stem cap.



Seat and Seat Post

Your bicycle may come equipped with either a standard or a micro-adjustable seatpost.

Standard Seatpost

Attach the seat to the seat post by first loosening the nuts on the seat clamp. Insert the tapered end of the seat post into the seat clamp until it is at the top of the clamp. Partially tighten the nuts on the seat clamp, then insert the seat assembly into the frame of the bicycle and adjust the seat to the proper height. The seat post must be inserted to at least the "Minimum Insertion^H line. Move the quick release lever to the closed position. You should feel considerable resistance while moving the lever. If not,

re-open and tighten the lever, then move it to the closed position. See the section in this manual regarding quick releases for more detailed instructions. Adjust the seat to be centered in the clamp and generally level with the ground, then re-tighten the clamp nuts evenly before riding. Avoid riding the bike with a loose saddle.

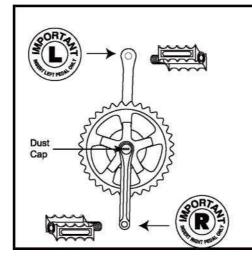
Micro-Adjustable Seatpost

Loosen the seat fixing bolt, then slide the seat into the clamp. The two seat rails should fit into the corresponding channels in the clamp. There is usually no need to completely remove the fixing bolt, but it may be necessary in some cases. Partially tighten the seat fixing bolt, then insert the seat assembly into the frame of the bicycle and adjust the seat to the proper height. The seat post must be inserted to at least the "Minimum Insertion" line. Move the quick release lever to the closed position. You should feel considerable resistance while moving the lever. If not, re-open and tighten the lever, then move it to the closed position. See the section in this manual regarding quick releases for more detailed instructions. Adjust the seat to be centered in the clamp and generally level with the ground, then re-tighten the seat fixing bolt before riding. Avoid riding the bike with a loose saddle.

NOTE: Some models of bicycles may be equipped with a suspension seat post (See diagram on next page). Some suspension posts can be adjusted for stiffness using the preload adjusting screw. Turning the 6mm Allen screw Clockwise will make the suspension stiffer, while turning the 6mm Allen screw Counter-clockwise will make the suspension softer.



The seat post must be inserted so that the minimum insertion mark cannot be seen. The quick release mechanism must be tightened securely to prevent a sudden shift of the seat when riding. Failure to do this may cause loss of bicycle control.



Pedals & Crank Set Look for the letters "R" for right, and "L" for left, stamped on each pedal spindle. Start threading each pedal by hand to avoid stripping the threads. Tighten with a 15mm narrow open ended wrench. Note that the right hand pedal attaches to the chainwheel side crank arm with a right-hand (clockwise) thread. The left pedal attaches to the other crank arm and has a left-hand (counter-clockwise) thread. It is very important that you check the crank set for correct adjustment and tightness before riding your bicycle. New cranks may become loose with initial use, refer to pages 107-109 for proper crank set adjustment and maintenance. Once the pedals have been installed, remove the dust caps from the center of each crank arm. Tighten the spindle nuts securely (approx. 350 in. lbs.) with a 14mm socket wrench or an 8mm Allen wrench, depending on style, then replace the dust caps.



Attachment of an incorrect pedal into a crank arm can strip pedal threads and cause irreparable damage. Before your first ride, please check to insure your pedals are attached correctly.

Seat Post Clamp - Quick Release

Many IZIP and eZip bicycle models use quick release (QR) levers to facilitate common tasks such as front wheel removal and seat height adjustment. When properly adjusted, quick release levers are both safe and convenient, but you must understand and apply the correct technique to adjust them properly before riding your bicycle to prevent serious injury or death from a fall.

Quick release levers use a cam action to clamp the wheel or other components in place. Because of their adjustable nature, it is critical that you understand how they work, how to use them properly, and how much force you need to apply to secure them. Warning: The full force of the cam action is needed to clamp the wheel securely. Holding the nut with one hand and turning the lever like a wing nut is NOT a safe or effective way to close a quick release and will not clamp the wheel or other components safely.

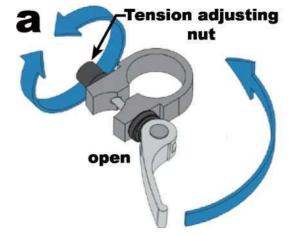
OUICK RELEASE USAGE

Riding with an improperly adjusted wheel quick release can allow the wheel to wobble or fall off the bicycle, which can cause serious injury or death. Therefore, it is essential that you:

- 1. Ask your dealer or a local bike shop to help you make sure you know how to install and remove your wheels safely.
- 2. Understand and apply the correct technique for clamping your wheel in place with a quick release.
- 3. Each time, before you ride the bike, check that the wheel is securely clamped.

Adjusting a quick release seatpost clamp

In a seatpost quick release system, the seatpost is clamped in place by the force of the quick release cam pushing against one side of the clamp and pulling the tension adjusting nut, by way of the skewer, against the other. The amount of clamping force is controlled by the tension adjusting nut Turning the tension adjusting nut clockwise while keeping the cam lever from rotating increases clamping force; turning it counterclockwise while keeping the cam lever from rotating reduces clamping force. Less than half a turn of the tension adjusting nut can make the difference between safe clamping force and unsafe clamping force.



- 1. With the quick release clamp in the OPEN position, insert the seatpost, with saddle attached, into the bicycle's seat tube.
- 2. Swing the quick release lever into the CLOSED position.
- 3. Grab the saddle with both hands and attempt to rotate it (and thus rotate the seatpost in the seat tube).
- 4. you If are able to force the seatpost out of alignment with the frame, the seatpost clamp needs to be adjusted. Holding the quick release lever in the OPEN position with one hand, tighten the tension adjusting nut with your other hand about 1/2 turn clockwise.
- 5. Attempt to swing the lever into the CLOSED position. If the lever cannot be pushed all the way to the CLOSED position (figure b), return the lever to the OPEN position, then turn the tension adjusting nut counterclockwise one-quarter turn and try tightening the lever again. Repeat steps 3, 4 & 5 until proper quick release tension is achieved.



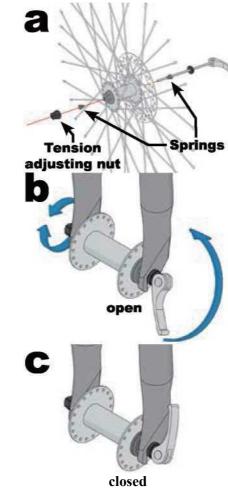


Front Wheel Ouick Release

Installing a quick release front wheel

In a quick release system, the wheel hub is clamped in place by the force of the quick release cam pushing against one dropout and pulling the tension adjusting nut, by way of the skewer, against the other dropout The amount of clamping force is controlled by the tension adjusting nut Turning the tension adjusting nut clockwise while keeping the cam lever from rotating increases clamping force; turning it counterclockwise while keeping the cam lever from rotating reduces clamping force. Less than half a turn of the tension adjusting nut can make the difference between safe clamping force and unsafe clamping force.

- 1. Remove the tension adjusting nut and one of the small springs, then slide the quick release skewer through the hub. If your bicycle has a disc brake, insert the skewer starting on the side with the brake rotor. Replace the spring and tension adjusting nut (fig a).
- If your bicycle has rim brakes, disengage them to increase the clearance between the tire and brake pads.
- Install the wheel into the dropouts, making sure the quick release lever is on the left side of the bicycle.
- 4. Holding the quick release lever in the OPEN position with one hand, tighten the tension adjusting nut with your other hand until it is tight against the fork dropout
- While pushing the wheel rim to fit the top of the slots in the fork dropouts, and at the same time centering the wheel rim in the fork, move the quick-release lever upwards and swing it into the CLOSED position (fig b & c) The lever should now be parallel to the fork blade and curved toward the wheel. To apply enough clamping force, you should have to wrap your fingers round the fork blade for leverage, and the lever should leave a clear imprint in the palm of your hand.

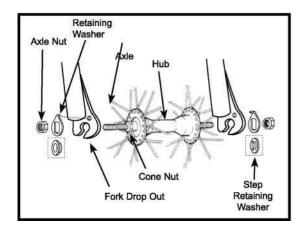


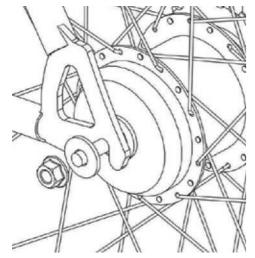
Warning : securely clamping the wheel takes considerable force. If you can fully close the quick release without wrapping your fingers around the fork blade for leverage, and the lever does not leave a clear imprint in the palm of your hand, the tension is insufficient o pen the lever; turn the tension adjusting nut clockwise a quarter turn; then try again.

- 6.
- correctly.

If the lever cannot be pushed all the way to a position parallel to the fork blade, return the lever to the OPEN position. Then turn the tension adjusting nut counterclockwise one-quarter turn and try tightening the lever again.

7. Re-engage the brake to restore correct brake pad-to-rim clearance; spin the wheel to make sure that it is centered in the frame and clears the brake pads; then squeeze the brake lever and make sure that the brakes are operating





Front Wheel - Bolt-on installation

- Make sure the brakes are loose enough to allow the wheel to pass through the brake pads easily.
- 2. Place wheel into fork dropouts.
- Install retaining washers with raised lip pointed towards the fork, and insert into the small hole of the fork blade. NOTE: Some bikes may have step retaining washers in place of the retaining washer (shown in dotted box). If so, install the step retaining washer, raised portion sliding in to the fork dropouts.
- 4. Install axle nut and tighten. Make sure the wheel is centered between the fork blades.
- 5. Spin the wheel to make sure that it is centered and clears the brake shoes. Tighten the brakes if necessary.

It is very important to check the front wheel connection to the bicycle. Failure to properly tighten may cause the front wheel to dislodge.

Rear Wheel - Bolt-on installation

- 1. If the bicycle has rim brakes, make sure the brakes are loose enough to allow the wheel to pass through the brake pads easily. For disc brakes, no adjustment is required.
- 2. Place the wheel into the frame dropouts.
- 3. Slide a washer onto each side of the axle
- 4. Install axle nuts and tighten. Make sure the wheel is centered in the frame. This may be easiest with the bike turned upside-down.
- 5. Spin the wheel to make sure that it is centered and clears the brake shoes. Tighten the brakes if necessary.





damage or injury.



Periodically, disassemble the mechanism from the bicycle and inspect for any wear or damage and replace if necessary. When reinstalling, it is very important to ensure the connections are made properly.

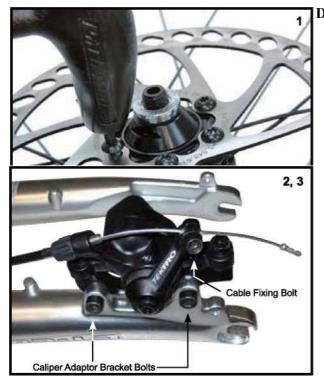
Tighten both rear wheel axle nuts securely. Failure to do this may cause the rear wheel to dislodge from the frame dropouts resulting in serious

Rear Wheel - Bolt-on Removal

1. If the bicycle has rim brakes, make sure the brakes are loose enough to allow the wheel to pass through the brake pads easily. For disc brakes, no adjustment is required.

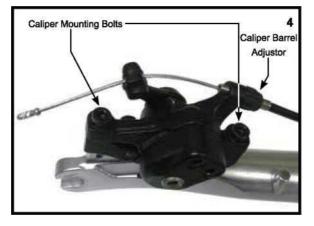
2. Most bikes have a plug or quick-disconnect box located on the seat stay or chain stay. These allow the motor to be easily disconnected from the controller. Simply undo the single large plug or open the black plastic box and undo the five plugs inside

3. With the bicycle in a stand or upside-down, loosen the axle nuts then remove the wheel from the bicycle.



Disc Brakes

- Check the tightness of the six disc mounting bolts holding the brake rotor onto the wheel. If you need to remove these bolts, be sure to us a thread-locking compound when re-installing them.
- 2. Make sure the two bolts securing the caliper adaptor bracket to the fork are tight
- 3. Thread the brake cable through the caliper as shown and secure it with the cable fixing bolt.
- Loosen the two caliper mounting bolts enough to allow the brake caliper to float freely.





- the brake rotor, then tighten the caliper mounting bolts.
- without rubbing.
- without rubbing.



brake system.



5. Install the wheel, making sure the brake rotor fits into the slot in the caliper. Center the caliper around

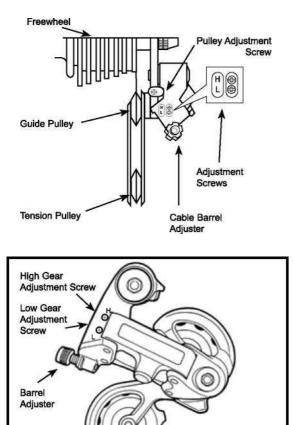
6. Using the inner pad adjusting bolt, adjust the inside brake pad so it is as close as possible to the rotor

7. Using the caliper barrel adjustor, adjust the outside brake pad so it is as close as possible to the rotor

Disc brakes require breaking in. Ride and use the brakes gently for about 13 miles before using the brakes in downhill conditions, for sudden stops, or any other serious braking. Please be aware that your brake system will change in performance throughout the wearin process. The disc brake should be cleaned before the first ride using rubbing alcohol. NEVER use oil or similar products to clean your disc

Avoid touching the rotor (disc) with your fingers at any time, naturally oily fingers can contaminate the rotor and/or the brake pads and diminish the brake's effectiveness.

Brake rotors get hot! Severe injury could result from contact with the hot rotor. Mind your legs, as well as your hands.



Rear Derailleur Side View

DERAILLEUR SYSTEMS

The derailleur system includes the font and rear derailleurs, the shift levers, and the derailleur control cables, all of which must function correctly for smooth gear shifting to occur.

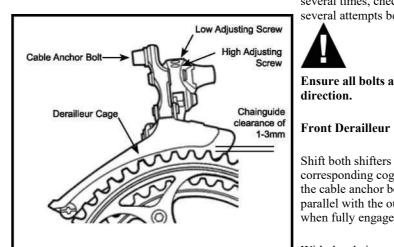
Derailleur

Although the front and rear derailleurs are initially adjusted at the factory, you will need to inspect and readjust both before riding the bicycle.

Rear Derailleur

Begin by shifting the rear shifter to largest number indicated, loosen the cable from the rear derailleur cable anchor bolt, and place the chain on the smallest sprocket.

Adjust the High limit screw so the guide pulley and the smallest sprocket are lined up vertically. Re-tighten the cable, pull out any slack, and retighten the anchor bolt securely. Shift through the gears, making sure each gear achieved is done quietly and without hesitation. If necessary, use the barrel adjuster to fine tune the cable tension by turning it the direction you want the chain to go. For example, turning clockwise will loosen the cable tension and move the chain away from the wheel, while turning counter-clockwise will tighten cable tension and direct the chain towards the wheel.



Do not ride a bicycle that is not shifting properly. Overlooking proper adjustments may cause irreparable damage to the bicycle and/or bodily injury. Never move the shifter while pedaling backward, nor pedal backwards after having moved the shifter. This could jam the chain and cause serious damage to the bicycle and/or rider.

Shift the rear shifter to the gear one and place the chain on the largest cog. Adjust the Low limit screw in quarter turn increments until the guide pulley and the largest cog are aligned vertically. Again, shift through each gear several times, checking that each gear is achieved smoothly. It may take several attempts before the rear derailleur and cable is adjusted properly.

Ensure all bolts are secured tightly and the chain does not fall off in either

Shift both shifters to the smallest number indicated and place the chain on the corresponding cog and chainwheel. Disconnect the front derailleur cable from the cable anchor bolt. Check the position of the front derailleur; it should be parallel with the outer chainwheel and clear the largest chainwheel by 1-3mm when fully engaged.

With the chain on the smallest chainwheel in front and the largest cog in back, adjust the Low limit screw so the chain is centered in the front derailleur cage. Reconnect the cable, pull any slack out, and tighten the anchor bolt securely. Shift the front shifter to the largest chainwheel. If the chain does not go onto the largest chainwheel, turn the high limit screw in 1/4 turn increments counter-clockwise until the chain engages the largest chainwheel. If the chain falls off the largest chainwheel, and into the pedals, you will need to turn the High limit screw in 1/4 turn increments clockwise until the chain no longer falls off. Shift through every gear, using the barrel adjusters to fine tune the cable tension. The barrel adjuster for the front derailleur is located on the front shifter where the cable comes out of the shifter. Clockwise will loosen the cable tension and direct the chain closer to the frame while counter-clockwise will tighten the cable tension and direct the chain away from the frame.

Final Check

- After all adjustments have been made, shift through every gear several times at varying speeds. This will ensure all your adjustments are correct and will allow you to pinpoint any trouble areas. If you encounter any problems, refer to the appropriate section and make any necessary adjustments.
- Check the tire pressure and inflate each tube to the recommended psi as stated on the sidewall of the tire.
- Check that the kickstand operates smoothly and the kickstand bolt is secured tightly.
- Finally, examine the bicycle. Make sure all accessories are attached and all quick releases, nuts and bolts have been tightened securely.
- Correct maintenance of your bicycle will ensure many years of happy riding. Service your bicycle regularly by referring to the relevant sections of this manual, OR take it to a professional bicycle shop.
- Remember: Always wear a helmet and obey all traffic laws.



Never inflate a tire beyond the maximum pressure marked on the tire's sidewall. Exceeding the recommended pressure may blow the tire off the rim, which could cause damage to the bicycle and injury to the rider and bystanders.

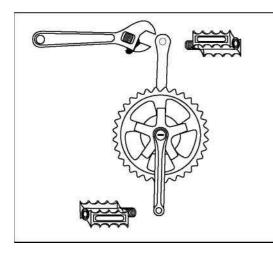
Tighten both rear wheel axle nuts or the quick release mechanism securely. Failure to do this may cause the rear wheel to dislodge from the frame dropouts resulting in serious damage or injury.

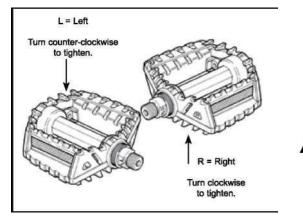
Correct routine maintenance of your new bike will ensure smooth running - Longer lasting components - Safer riding - Lower running costs

Every time you ride your bicycle, its condition changes. The more you ride, the more frequently maintenance will be required. We recommend you spend a little time on regular maintenance tasks. The following schedules are a useful guide and by referring to Part 6 of this manual, you should be able to accomplish most tasks. If you require assistance, we recommend you see a bicycle specialist.

Schedule 1 • Lubrication

Frequency	Component	Lubricant	How to Lubricate
Weekly	Chain		
	Derailleur Pulleys	Chain Lube or Light Oil Chain	Brush On or Squirt Brush On or
	Derailleurs	Lube or Light Oil Oil	Squirt Oil Can
	Brake Calipers	Oil	3 drops from oil can
	Brake Levers	Oil	2 drops from oil can
Monthly	Shift Levers	Lithium Based Grease	Disassemble
Every Six Months	Freewheel Brake Cables	Oil	2 squirts from oil can
		Lithium Based Grease	Disassemble
Yearly	Bottom Bracket	Lithium Based Grease Lithium	Disassemble Disassemble
	Pedals Derailleur Cables Wheel	Based Grease Lithium Based	Disassemble Disassemble
	Bearings	Grease Lithium Based Grease	Disassemble Disassemble
	Headset	Lithium Based Grease Lithium	
	Seat Post	Based Grease	





DRIVETRAIN The drivetrain of a bicycle refers to all parts that transmit power to the rear wheel including the	Problem	Possible Cause	Remedy
pedals, chain, chainwheel, crank set and freewheel.	Gear shifts not working properly	-Derailleur cables sticking/stretched/damaged	- Lubricate/tighten/replace cables
PEDALS Pedals are available in a variety of shapes, sizes and materials, and each are designed with a		 Front or rear derailleur not adjusted properly 	- Adjust derailleurs
particular purpose in mind. Some pedals can be fitted with toe clips and straps. These help to keep the feet correctly positioned and allow the rider to exert pulling force, as well as		-Indexed shifting not adjusted properly	- Adjust indexing
downward pressure, on the pedals. Use of toe clips with straps requires practice to acquire the necessary skill to operate them safely.	Slipping chain	 Excessively worn/chipped chainring or freewheel sprocket teeth 	- Replace chainring, sprockets and chain
		-Chain worn/stretched - Stiff link in chain	- Replace chain - Lubricate or replace link
Inspection Pedals should be inspected every month, taking note of the following areas: • Check correct tightness into the crank arms.		 Non-compatible chain/chainring/ freewheel 	- Seek advice at a bicycle shop
 allowed to become loose, they will not only be dangerous but will also cause irreparable damage to the cranks. Check that pedal bearings are properly adjusted. pedals up and down, and right to left, and also rotate them by hand. If you detect any looseness or roughness in the pedal bearings then adjustment, lubrication or replacement is required. 	Chain jumping off freewheel sprocket or chainring	 Chainring out of true Chainring loose Chainring teeth bent or broken Rear or front derailleur side-to-side travel out of adjustment 	 Re-true if possible, or replace Tighten mounting bolts Repair or replace chainring/set Adjust derailleur travel
 Ensure that the front and rear pedal reflectors securely fitted. Also ensure that the toe clips, if fitted, are securely the pedals. Also ensure that the toe clips, if fitted, are securely the pedals. 	Constant clicking noises when pedalin	 g- Stiff chain link Loose pedal axle/bearings Loose bottom bracket axle/bearings Bent bottom bracket or pedal axle 	 Lubricate chain / Adjust chain link Adjust bearings/axle nut Adjust bottom bracket Replace bottom bracket axle or
Never ride with loose pedals.		- Loose crankset	pedals - Tighten crank bolts
	Grinding noise when pedaling	 Pedal bearings too tight Bottom bracket bearings too tight Chain fouling derailleurs Derailleur jockey wheels dirty/binding 	 Adjust bearings Adjust bearings Adjust chain line Clean and lubricate jockey wheels

Problem	Possible Cause	Remedy	Problem	Possible Cause
Freewheel does not rotate	- Freewheel internal pawl pins are jammed	-Lubricate. If problem persists, replace freewheel	Steering not accurate	Wheels not aligned in frameHeadset loose or bindingFront forks or frame bent
Brakes not working effectively	 Brake blocks worn down Brake blocks/rim greasy, wet or dirty Brake cables are binding/stretched/damaged Brake levers are binding Brakes out of adjustment 	 Replace brake blocks Clean blocks and rim Clean/adjust/replace cables Adjust brake levers Center brakes 	Frequent punctures	 -Inner tube old or faulty Tire tread/casing worn Tire unsuited to rim Tire not checked after previous puncture Tire pressure too low
When applying the brakes they squeal/squeak	 Brake blocks worn down Brake block toe-in incorrect Brake blocks/rim dirty or wet Brake arms loose 	 -Replace blocks Correct block toe-in Clean blocks and rim Tighten mounting bolts 		 The pressure too low Spoke protruding into rim
Knocking or shuddering when applying brakes	 Bulge in the rim or rim out of true Brake mounting bolts loose Brakes out of adjustment Fork loose in head tube 	 True wheel or take to a bike shop for repair Tighten bolts Center brakes and/or adjust brake block toe-in Tighten headset 		
Wobbling wheel	 -Axle broken Wheel out of true Hub comes loose -Headset binding Hub bearings collapsed QR mechanism loose 	-Replace axle -True wheel - Adjust hub bearings -Adjust headset -Replace bearings -Adjust QR mechanism		

Remedy

- -Align wheels correctly
- -Adjust/tighten headset Take bike to a bike shop for possible frame realignment

-Replace Inner tube

- -Replace tire
 Replace with correct tire
 Remove sharp object embedded in tire
- Correct tire pressure
- File down spoke

PROBLEM	POSSIBLE CAUSE	REMEDY	Bicycle runs at full speed without		
5 8	Low batteries Faulty or old batteries	Charge batteries for recommended time Replace batteries	pedaling	Faulty sensor (Enlightened Series) Faulty throttle	Replace sensor and retest Replace throttle and retest
	Low tire pressure	Inflate tires to recommended pressure		Faulty controller	Replace controller and retest
	Brakes dragging against rim	Adjust brakes and/or rim	Bicycle	Sensor and sensor ring not aligned	Realigned so gap between sensor and
	Riding in hilly terrain, headwind, etc.	Reduced range to be expected in these types of terrain and/or weather conditions	works in TAG mode but not in PAS mode	Faulty "White Box"	sensor ring is 1-2mm Replace "White Box" and retest
Hub motor makes a "clicking" noise	Low batteries	Charge batteries for recommended time	Battery indicates full charge when	Blown fuse	Replace fuse
and has reduce power and/ or shuts of	^{ff} Damaged planetary gears	Replace hub motor/wheel	tested at the charger port but bicycle does not operate	Loose connectors	Check all connectors
				Poor contact between battery terminals	Inspect and clean battery terminals
No power when the switch is turned "ON"	Blown fuse Loose connectors	Replace fuse Check all connectors	Throttle (on bicycles so equipped) does not spring back to neutral	Grip jammed against throttle	Reposition grip so gap between it and the throttle is 1-2mm
	Broke wire	Inspect all wires for damage	position	Faulty throttle	Replace throttle
	Faulty switch	Replace switch and retest	Bicycle has intermittent power	Loose connectors	Check all connectors
	Faulty controller	Replace controller and retest		Loose fuse	Check fuse connector
Bicycle operates OK but battery gauge does not light up	Loose connectors	Check throttle and/or battery gauge connectors		Damaged wires	Inspect all wires
	Damaged wires	Inspect all wires	Charger shows a full charge in an	Faulty charger	Replace charger
	Faulty battery gauge	Replace battery gauge	unusually short amount of time	Faulty batteries	Replace batteries
	, ,,,,,		Indicator light on charger not illu-	Outlet has no power	Check outlet for power
Battery gauge lights up but bicycle does not operate	Faulty brake inhibitor Loose motor wire connector	Replace brake inhibitor(s) and retest Check motor wire connector	minated when charger is plugged into outlet	Blown fuse (Li-Ion chargers)	Replace fuse
	TMM sensor not adjusted	Re-adjust TMM sensor		Faulty charger	Replace charger
			Charger (Li-Ion) indicator light only	Damage wire from charger port to battery	Inspect wire
PROBLEM	POSSIBLE CAUSE	REMEDY		Faulty batteries	Replace batteries

Yolin

1. Product Name and Model Number

Smart LCD display for electric bicycle; Model: YL81F.

2. Specification

- 24V/36V/48V power supply
- Display rated current 15mA
- Display maximum current 30mA
- Shutdown leakage current <1uA
- Supplied current to the controller 50mA
- Operating temperature -20~60°C
- \bullet Storage temperature -30 to 70° C

3. Appearance and Size



Figure 3-2 Physical picture of the K5 control button



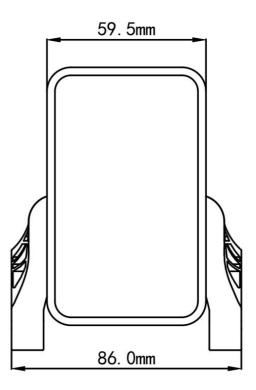


Figure 3-4 90T-V Front View Dimension

Figure 3-1 Physical picture of the YL81F display

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Figure 3-3 Physical picture of the K6 control button

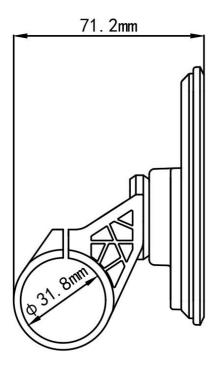


Figure 3-5 90T-V Side View Dimension

4. Function overview and Functional areas

4.1 Functional overview

- The YL81F display offers a variety of features to suit your riding needs, including:
- Battery level indicator
- Pedal assist (PAS) level indicator
- Speed (current speed, maximum speed, average speed)
- Mileage display (single and total mileage)
- Walk boost mode
- Light ON/OFF
- Error code indicator
- Motor power indicator (optional)
- USB connection indicator (optional)
- Cruise control indicator (optional)
- Bluetooth connection indicator (optional)
- Personalized parameter settings (e.g. wheel diameter, speed limit, battery power setting and PAS parameter setting,
- password setting, controller current limit setting, etc.).
 - Factory default parameter recovery function

4.2 Functional areas

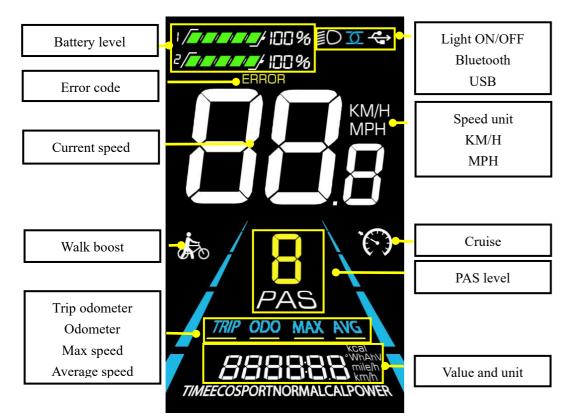


Figure 4-1 YL90T-V functional area distribution interface

4.3 Button definitions

The YL81F display is equipped with five buttons on the corresponding operating unit: power on/off 😃, plus 🕀,





- 5. Routine operation
- 5.1 Power on/off

Long press U to power on/off the display. When the display is off, it will not use the battery power and the leakage

current is less than 1uA.

▲ The display will automatically shut off if it is not used for more than 10 minutes.

5.2 Display interface switching

When the display is powered on, it will show the Current Speed (km/h) and Trip Odometer (km) by default. Short

press **1** to switch between Trip Odometer(km), Odometer (km), Maximum Speed (km/h), and Average Speed (km/h).

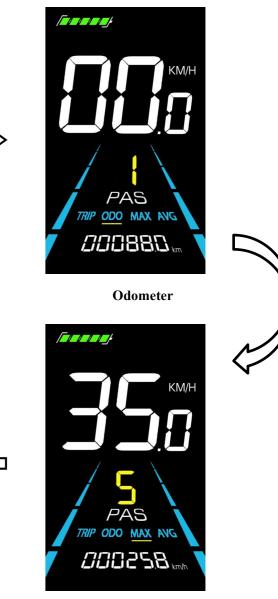


Average Speed

Figure 5-1 Display Interface Switching

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Maximum Speed

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5.3 Walk boost mode

Long Press and hold , the electric bicycle enters the walk boost mode. The electric bicycle will walk at a fixed

speed of 6 km per hour and the display shows keelease to stop the power output immediately and restore to the state before walk boost.



Figure 5-2 Helping to implement the display screen

A The walk boost mode can only be used when pushing the electric bicycle, please do not use it while riding.

5.4 Turning on/off lights

Press the D to make the controller turn on the lights and the display backlight becomes dim. Press Dagain to make the controller turn off the lights and the backlight restore brightness.



Figure 5-3 Backlight display interface

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5.5 PAS level selection

Press **•** / **•** to switch PAS level of electric bicycle, thus changing the motor output power.



Figure 5-4 PAS level display interface

5.6 Battery level display

The Battery level is shown as 5 bars. When the battery is full charged, all of the 5 bars lighten up. When the battery is fully depleted, the bar will begin to flash, warning the user to charge the battery as soon as possible.

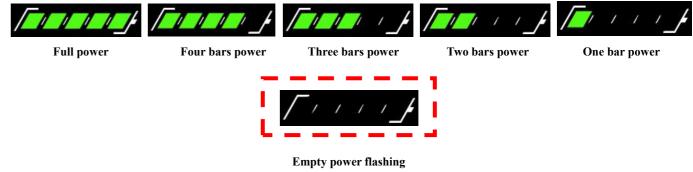




Figure 5-5 Battery Level Display Interface

5.7 Error code display

If there is a fault occurs in the electronic system of the electric bicycle, the display will automatically show an error code, see Schedule 1 for a detailed definition of the error code.

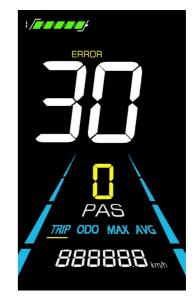


Figure 5-6 Error Code Display

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A When the error code appears on the display, please troubleshoot the problem in time, the electric bicycle will not be able to drive normally after the problem occurs.

6. Personalized parameter settings

▲ Each setting needs to be done with the bicycle stationary. The personalized parameter setting procedure is as follows: When the display is ON and the speed shows 0, (1) Press and hold **UD** simultaneously for more than 2 seconds to enter the personalized parameter setting interface.

(2) Press **b** / **b** to toggle between the personalized parameter setting interface, and press **ii** to enter the

parameter changing state.

(3) Press **B** / **B** to select the parameter, long press **B** for addition operation, long press **B** for subtraction

operation.

(4) Press **1** to save the parameter settings and return to the personalized parameter setting interface.

(5) Long Press i to save the parameter settings and exit the personalized parameter setting interface. The following options are available on the personalized parameter setting interface:

6.1 Backlight luminance setting

01P is the backlight luminance setting. Parameters 01, 02 and 03 are available, which represent the backlight luminance, 01 for the minimum luminance, 02 for the standard luminance and 03 for the maximum luminance.

Press the button **i** to enter the parameter modification interface. Press the button **b**/**b** for parameter selection.

Press the button **II** to save the parameter and return to the selection interface of general setting options.

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6.2 Metric and Imperial setting

02P is the metric and imperial setting, 00 for metric and 01 for imperial.

Press **i** to enter the parameter changing state. Press the **b**/ **b** to select the parameter and press **i** to save the

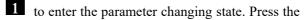
parameter setting and return to the personalized parameter setting interface.



Figure 6-2 Metric and Imperial Units Setting Interface

6.3 Rated voltage setting

03P is the rated voltage setting. The available rated voltage range is: 24V, 36V, 48V.



parameter setting and return to the personalized parameter setting interface.



Fig. 6-1 Backlight Luminance Setting Interface



Figure 6-3 Rated voltage setting interface

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Press **ii** to enter the parameter changing state. Press the **G**/ **G** to select the parameter and press **ii** to save the

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6.4 Auto Sleep Time Setting

04P is the auto sleep time setting. To save the battery power and reach higher range, this display will be turned off after it has not been used for a time. The adjustable range is: 1~60min, 00 means no auto shutdown. The factory default setting is 10 minutes.

Press **i** to enter the parameter changing state. Press the **b**/**b** to select the parameter and press **i** to save the

parameter setting and return to the personalized parameter setting interface.



Figure 6-4 Auto Power Off Time Setting Interface

6.5 PAS level setting

05P is the Pedal assist level setting. The available PAS level settings are: 0~3, 1~3, 0~5, 1~5, 1~7, 0~7, 0~9, 1~9.

Press **i** to enter the parameter changing state. Press the **D**/ **D** to select the parameter and press **i** to save the

parameter setting and return to the personalized parameter setting interface.



Figure 6-5 PAS level setting interface

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6.6 Wheel diameter setting

06P is the wheel diameter setting. The adjustable wheel diameter range is: 1~50inch. Press ii to enter the parameter changing state. Press the **B**/ **B** to select the parameter and press **ii** to save the parameter setting and return to the personalized parameter setting interface.



Figure 6-6 Wheel diameter setting interface

6.7 Number of speed sensor magnets setting

07P is the speed sensor magnet number setting. The adjustable speed sensor magnet number range is: $1 \sim 255$ pcs.

Press it to enter the parameter changing state. Press the **D**/ **D** to select the parameter and press it to save the

parameter setting and return to the personalized parameter setting interface.



Figure 6-7 Number of speed sensor magnets setting interface

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6.8 Speed Limit Setting

08P is the speed limit setting. The adjustable speed limit range is: 1~100km/h. (The maximum adjustable speed limit varies by different protocols).

Press **i** to enter the parameter changing state. Press the **B**/ **b** to select the parameter and press **i** to save the

parameter setting and return to the personalized parameter setting interface.



Figure 6-8 Speed limit setting interface

6.9 Start-up setting

09P is the start-up setting. The display can choose the following start modes: $00 \rightarrow \text{zero start}, 01 \rightarrow \text{non-zero start}$.

Press **1** to enter the parameter changing state. Press the **b**/**b** to select the parameter and press **1** to save the

parameter setting and return to the personalized parameter setting interface.



6.10 Drive mode setting

10P is the drive mode setting. The available drive modes are: $00 \rightarrow$ Pedal assist only, $01 \rightarrow$ Electric only, $02 \rightarrow$ Both Pedal assist and electric.

Press **i** to enter the parameter changing state. Press the **B**/**b** to select the parameter and press **i** to save the parameter setting and return to the personalized parameter setting interface.



Figure 6-10 Drive mode setting interface

6.11 Pedal assist sensitivity setting

11P is the pedal assist sensitivity setting. When set to higher numbers, it will take more crank rotations to activate the motor. On lower numbers, it will take little crank rotation to activate the motor. The adjustable range is: 1~24.

Press **ii** to enter the parameter changing state. Press the **G**/ **G** to select the parameter and press **ii** to save the

parameter setting and return to the personalized parameter setting interface.



Figure 6-9 Start-up setting interface

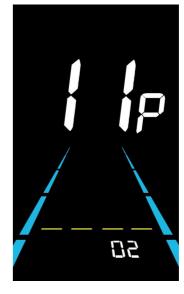


Figure 6-11 Pedal assist sensitivity setting interface

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6.12 Pedal assist strength setting

12P is the Pedal assist strength setting. The Pedal assist strength is the relative strength of the PWM signal from the controller when start to activate pedal assist. The adjustable range is $0 \sim 5$. 0 is the weakest strength and 5 is the strongest.

Press \mathbf{i} to enter the parameter changing state. Press the \mathbf{E} to select the parameter and press \mathbf{i} to save the

parameter setting and return to the personalized parameter setting interface.



Figure 6-12 Pedal assist Start-up intensity setting interface

6.13 Number of pedal assist sensor magnets setting

13P is the number of pedal assist sensor magnets setting. The adjustable range: 5, 8, 12 pcs.

Press ii to enter the parameter changing state. Press the **D**/ **D** to select the parameter and press ii to save the

parameter setting and return to the personalized parameter setting interface.



Figure 6-13 Number of pedal assist sensor magnets setting interface

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6.14 Controller Current Limit Setting

14P is the controller current limit setting. The adjustable range is: 1~50A.

Press **ii** to enter the parameter changing state. Press the **B**/ **b** to select the parameter and press **ii** to save the parameter setting and return to the personalized parameter setting interface.



6.15 Battery under voltage value setting

15P is the battery under voltage setting. The value can be adjusted based on the current rated voltage.

Press it to enter the parameter changing state. Press the (1) to select the parameter and press it to save the

parameter setting and return to the personalized parameter setting interface.



Figure 6-15 Battery under voltage value setting interface

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Figure 6-14 Controller current limit setting interface

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on walk boost function.

6.18 6km/h walk boost setting

6.16 ODO resets setting

16P is the ODO resets setting. The display can choose the following: $00 \rightarrow \text{non reset}, 01 \rightarrow \text{reset}.$

Press \mathbf{i} to enter the parameter changing state. Press the \mathbf{E} to select the parameter and press \mathbf{i} to save the

parameter setting and return to the personalized parameter setting interface.



Figure 6-16 ODO resets setting interface

6.17 Controller cruise control setting

17P is the controller cruise control setting. The display can choose the following: $00 \rightarrow non$ enable, $01 \rightarrow enable$.





parameter setting and return to the personalized parameter setting interface.

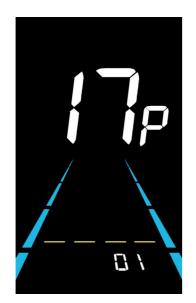


Figure 6-17 Controller cruise control setting interface

7. Shortcut operation

7.1 Restore factory settings operation

dEF is the restore factory default parameter settings. dEF-Y is to restore default settings, and dEF-N is not to restore.

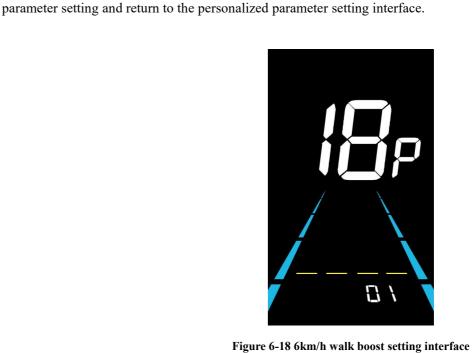
Enter into the main setting interface and keep the speed at 0, press and hold and simultaneously for 2s to

enter the restore factory default setting interface. Pressing **B** / **B** to toggle to dEF-Y. Then after pressing **1** to confirm, the display will show dEF-0 for a few seconds and then automatically start to restore the factory default settings. The display will automatically exit to setting interface after the restoration.





Figure 7-1 Restore Factory Default Settings Interface



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18P is the 6km/h walk boost setting. The display can choose the following: 00→turn off walk boost function, 01→turn

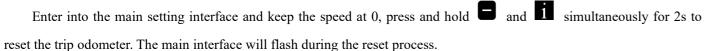
Press **i** to enter the parameter changing state. Press the **b**/**b** to select the parameter and press **i** to save the



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7.2 Trip odometer reset operation

The display can record trip odometer and odometer. Trip odometer is not automatically reset after turning off. The trip odometer needs to be reset manually.



Fa a a a f PAS PAS TRIP ODO MAX AVG TRIP ODO MAX AVG *000* 180_× 000000

Figure 7-2 Trip Odometer Reset Interface

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8. Quality Assurance and Warranty

8.1 Warranty info

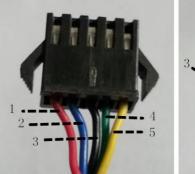
• Yolin will offer a limited warranty for any failure caused by the product defects under normal use during the warranty period. • The product is warranted for 12 months from the date out of factory.

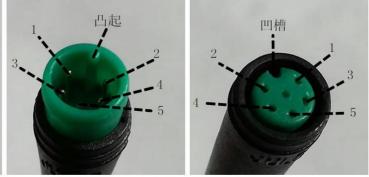
8.2 Warranty does not cover

- The shell is opened.
- The connector is damaged.
- Scratches on the appearance after the product is out of factory.
- Scratched or broken wires
- Out of warranty period.

9. Wire connection diagram

9.1 Standard wire connection sequence





Controller connector

Figure 9-1 Wire Connection Diagram

Standard Wire Sequence	Standard wire color	Function
1	Red (VCC)	Display power wire
2	Blue (Kp)	Controller power wire
3	Black (GND)	Display ground wire
4	Green (RX)	Display data reception wire
5	Yellow (TX)	Display data transmit wire

Some models are equipped with waterproof connectors and the color inside wires can not be seen.

10. Precautions

Pay attention to all the general operating when using the products and do not plug and unplug the display while it is powered on.

- Avoid bumping the display as much as possible.
- Please do not change the parameter settings at will, otherwise normal riding cannot be guaranteed.
- If display does not work properly, please send it to the repair center as soon as possible.

refer to the physical products.

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• Failure or damage caused by force majeure (e.g. fire, earthquake, etc.) or natural disaster (e.g. lightning strike, etc.)

Display connector (Female terminal) Display connector (Male terminal)

Table 9-1 Standard connector wire sequence table

• There may be differences between the physical products and this manual due to normal upgrade. Please

YL-01, YL-02 Error codes					
Error code	Definition		Error code	Definition	
E001	Controller failure		E004	Throttle failure	
E002	Communication failure		E005	Brake failure	
E003	Hall failure		E006	Motor phase failure	
YL-05, KDS, YL-J Error codes					
Error code	Definition		Error code	Definition	
E021	Current failure		E024	Hall failure	
E022	Throttle failure		E025	Brake failure	
E023	Motor phase failure		E030	Communication failure	

Schedule 1: Error Code Definition

Schedule 2: Error Code Definition

Customize YL-02 (LKLS) Error codes:				
Error code	Definition	Handling method		
Error05	Brake failure	Check whether the brakes are in position; Replace the brake handle.		
Error06	Low-battery	Check whether the battery needs recharging		
Error07	Motor phase failure	Check whether the hall wire of the motor is loose		
Error08	Throttle failure	Whether to return the handle; Check the connection of the handle, if normal, need to replace the handle		
Error09	Controller failure	Check the cable harness connection of the controller or replace the controller with a new controller		
Error10	Communication reception failure	Check that the display cable is properly connected		
Error11	Communication transmission failure	Check that the display cable is properly connected		

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