

TUTTIO

Adria 24

USER MANUAL

Product Installation video :



Thanks for your purchase of TUTTIO electric bike

We really appreciate your business cooperation with us and we wish you a good time with the TUTTIO ebike. This manual will help you assemble and operate your new electric bike. Be sure to read all of the information in this manual before riding.

If you have any quality problems, please contact our after-sales service as follows:

Customer Service Email: tuttiosport@gmail.com

WhatsApp Account: +86 19129309986

Website: www.tuttiosport.com

In order to quickly and efficiently solve your problem, please add our WhatsApp account.



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Product Safety Notice

Don't Ride Until You Read This

1	Always wear a helmet when riding your electric bike
2	Keep the keys properly. If the unique keys are lost, you will not be able to turn on the bike or replace the battery. If necessary, you should get more spare keys. we don't have a backup key.
3	Make sure your electric bike has a full battery before taking it out to ride.
4	Always be aware of local road laws, and follow them.
5	Do not ride the ebike under the influence of drugs or alcohol.
6	Always respect pedestrians.
7	Do not put the bike under humid condition for a long time. Although our electric bikes are waterproof humidity ruins everything.It may damage electronic and void warranty.
8	NOTE TO ALL RIDERS UNDER 18 YEARS OF AGE: It's very important that you get parental permission before riding your electric bike.



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 (Product Information)

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, 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 (roadways vs. Fire roads, etc,) 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.

HELMETS SAVE LIVES!!!

- ALWAYS WEAR A PROPERLY FITTED HELMET WHEN YOU RIDE YOUR BICYCLE
- DO NOT RIDE AT NIGHT
- CPSC RECORDS SHOW THAT ABOUT 35% OF BICYCLE RELATED DEATHS OCCUR AFTER DARK
- AVOID RIDING IN WET CONDITIONS
- CPSC RECORDS SHOW THAT ABOUT 65% OF INJURIES HAPPEN TO CHILDREN UNDER 15 YEARS OF AGE
- RIDE ONLY WITH ADULT SUPERVISION



**CORRECT FITTING - MAKE SURE YOUR
HELMET COVERS YOUR FOREHEAD.**



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

Read this entire manual before assembling or using your new electric bike. Do not modify, disassemble, or replace the original electrical components on your eBike. Doing so will invalidate your warranty and could put you in danger. Riding any type of eBike comes with some risks which can't be predicted or avoided. Taking proper care of eBike components can lower the risk of sudden failure of components but cannot prevent it. These sudden failures could cause serious harm, injury, or death to the rider. If you notice abnormalities in any component on the eBike, take it to a licensed mechanic to be repaired or replaced immediately. TUTTIO Ebike assumes no liability for harm, injury, or death of the rider.

This manual is not intended to function as a detailed service manual. TUTTIO Ebike recommends having your local bike shop mechanic perform a detailed safety check of your eBike before your first ride. Ensure your local mechanic is experienced and reputable.

The TUTTIO Adria 24 Ebike can withstand most rain showers without sustaining damage. The eBike has an IP rating of 56. This means it is dust tight and can withstand jetting water. See the IP code for more details.

It does not mean that the eBike and its mechanical and electrical components are waterproof. We do not recommend storing or using the eBike in excessively wet conditions. The warranty does not cover water damage.

Product information

Brand	TUTTIO	Model name	Adria 24
Weight	36KG	Tire	24*4.0inch
Brake	Front and rear hydraulic disc brakes	Gears	Shimano 7-speed
Battery	52V/30AH	Max load	150kg/330lbs
Charging time	8-9H	Shock absorption	Front fork suspension & Air suspension
Material	Body aluminum alloy	Current of charger	3A

Product Installation Instructions





A01. The Packaging of the e-bike



A02. Remove the packing EPE pearl cotton



A03. The arch of the fork should be facing forward



A04. Turn the stem forward (do not turn the whole fork)



A05. The correct direction the stem should be facing



A06. Remove the 4 bolts



A07. The correct orientation of the handlebar



A08. Fit the stem and handlebar together



A09. Tighten the 4 bolts to fix handleba



A10. Turn the 2 bolts on both sides to tighten the stem



A11. Tighten the top bolt



A12. Ready to install the front wheel



A13. Remove the fork spacer. (it protects the fork from crushing and deformation during shipping, it is not a part of the bike)



A14.Remove the front wheel screws



A15. Put the front wheel on the fork



A16.Put the gasket first, then the nut



Pay attention to the position and angle of the thick and thin gaskets



A17. Fix the spacers and nuts on both sides of the hub axle



A18.The front motor line should be arrow-aligned



A19.Fenders and headlights



A20. Use the bolt to join the headlight, fork arch and fender



A21.Stick the screw on the lock



A22 Link the interface arrow on the headlight to the arrow.



A23. Open the lever and turn the nut to loose theseat post clamp



A24. Insert the seat post into the seat tube



A25. Remove the shelf screws.



A26. The two holes on the upper part of the seat stay



A27. The rear rack may need to be adjusted



A28. Tighten the 2 upper bolts on both sides



A29. Tighten the 2 lower bolts on both sides



A30. Turn spanner counter-clockwise to fix the pedal L on the left side



A31. Turn the spanner clockwise to fix the pedal R on the right side



A32.The taillight is placed on the shelf support



A33Lock the screw



A34.Tie the thread with a cable tie



A35.Battery picture



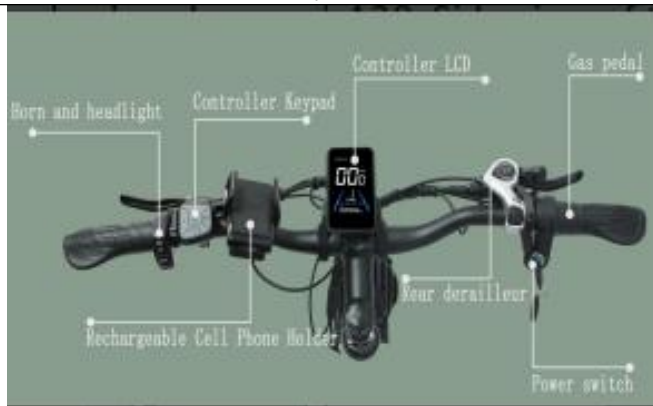
A36. Put the battery on the battery base



A37. Push the battery downward to install it tightly



A38. The installation is complete



A39. Turn the key on the handlebar first and then press button M for 3 seconds on the display to turn on power.



A40. LCD Display: battery status. real-time speed. Speed grade. Mileage traveled

How to Start Adria 24

1. Lock the battery and pull off the key.
2. Turn on the battery.
3. Press and hold the “POWER ON/OFF” button until the display lights.



4. How to start the front and rear motors:



5. Charge Your E-Bike

1. The battery can be charged while attached or detached from the e-Bike. To remove the battery. You should plug your battery in when you first receive it to ensure it is fully charged prior to your first ride.
2. Remove the rubber cover on the charging port on the right side of the battery. Insert the charger output plug into the battery charging port.
3. Plug the charger into a power outlet. Charging should initiate and will be indicated by the LED charge status light on the charger turning red.
4. Once fully charged, the charging indicator light turns green. Unplug the charger from the power outlet first and then remove the charger output plug from the battery charging port. Avoid leaving the charger plugged in when the battery is fully charged.

WARN:

1. Do not leave your battery unattended while it is charging.
2. Do not charge the battery with chargers other than the charger provided by TUTTIO Ebike.
3. Prohibit indoor charging.
4. Ensure there is no dirt, debris, or flammable items nearby when using the charger.
5. The charger will automatically stop charging once the battery reaches its full capacity.
6. Store the battery indoors in a dry space, away from heat or flame sources and out of direct sunlight.
7. The charger may get hot when charging. Use caution and avoid touching the body of the charger.

Preparing to Ride

1. Ensure all components are properly secured before riding other wise serious harm or death could occur. All components should be torqued to the torque specified in the Recommended Torque Values section of this manual. This includes but is not limited to: pedals, handlebars, handlebar clamp, cranks, seat, and seat post clamp. Make sure you can't twist the seat or stem out of alignment by hand.
2. Check to see if your saddle is positioned at the proper height. Sit on the saddle facing forward and place the ball of your foot on the pedal at its lowest point. Your leg should be mostly straight at this point with a slight bend at the knee. You should be able to pedal the bike without overextending your leg when the pedal is at its lowest point. Your legs maybe overextended if it causes your hips to move side to side, which means the seat must be lowered.
3. Check that your suspension fork is properly adjusted for the terrain and your weight. The suspension fork will affect the handling of the bike, primarily when going over bumps and stopping. In some situations, it may be advantageous to lockout the suspension so it is fully rigid.

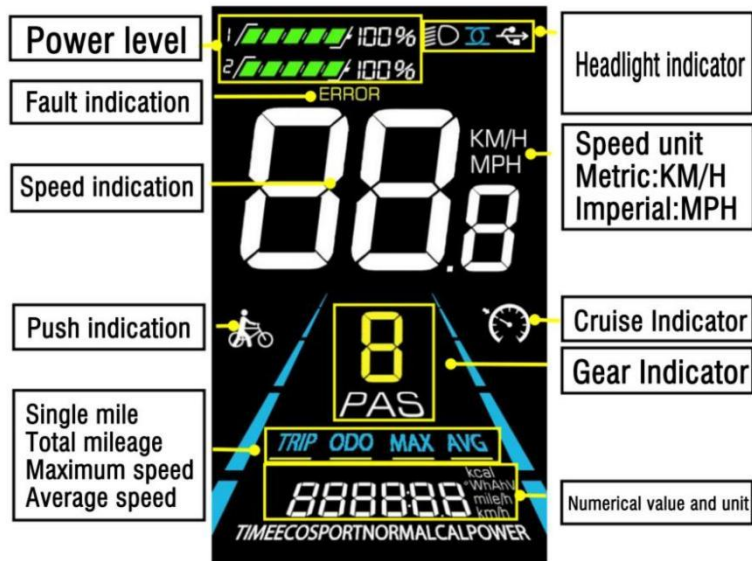
4. The suspension fork can be locked out so it is rigid, and the tension is adjustable. To adjust the suspension fork use the knob. To fully lock the suspension, turn the knob clockwise towards the “lock” direction indicated until it cannot be turned further.
5. To increase the stiffness, turn the knob clockwise towards the “lock” direction indicated. To make the suspension softer turn the knob counterclockwise towards the “open” direction indicated.



Operate Your E-bike

Now that your eBike is installed. It is almost time to start riding. The TUTTIO ebike are equipped with pedal assist, a twist throttle, and can also be used as a regular bike.

Before learning about how to operate your new eBike, it is important you know where all of the important controls are located. Below are photos showing where key controls and features are on your eBike.



3 Working Mode

1. Pedal Mode

Turn off the ignition key .

At the Pedal Mode, the motor doesn't work ,and the human riding has no electric power, you can pedal the bicycle normally as you would any bicycle.

In pedal mode, you can adjust the gear level through the “gear regulator” switch shown in the above figure(7-speed gear).

2. Fully Electric Mode

Turn on the ignition key.At the Fully Electric Mode or the Pedal Assist Mode,the motor will work.

Long press the power on/off button for 3 seconds until the display lights.

When the power is turned on, you can control the forward movement of the electric bike through the handle throttle.

3. Pedal Assist Mode(PAS)

In fully electric mode, just turn on the switch a little bit, don't drive too fast, and then pedal the electric bike, so it enters pedal assist mode

If you want to step on your feet more easily, twist the switch to increase the speed. If you want to exercise more with your feet, twist the switch to increase the speed. The speed is still mainly controlled by the switch. The advantage of

riding in this way is that it can help reduce the instantaneous electricity required for electric bicycles to start, which is beneficial for protecting the battery and motor. Additionally, the speed control is stable and there is no overshoot.

In pedal assist mode, it can increase the driving range of electric bicycles and increase the pass rate under adverse road conditions.

Tips:

Full Electric Mode (i.e. using throttle only) is for flat roads.

Do not use Full Electric Mode on slopes or rough roads or beaches, otherwise excessive resistance will cause the motor or controller damage. If the road condition is unsuitable or too rough, please use PAS (Pedal Assist System) mode. PAS is when you use your feet to pedal in order to help the motor overcome resistance.

Riding with power assisted mode , if use speed shifting & climbing mode on flat road will waste electric power and accompany with the feeling of empty treading.

Display Settings

To change display settings, hold the up and down button simultaneously to enter into the advanced settings menu In this menu , clicking the TAB-1 button will toggle between each numbered(P01~P16) setting.To adjust the value of each setting,click the up and down buttons accordingly.



hold the up and down
button simultaneously



Setting	Function	Default	Explanation
P01	Brightness	3	Backlight display brightness. The darkest level is 1, the brightest level is 3.
P02	DistanceUnits	1	Distance Units. 0: KM; 1: MILE
P04	Sleep	10	LCD Display sleep timer. With the default setting, the display will turnoff after it has not been used for 10 minutes.
P05	PAS Gear	005	The available PAS level settings are: 0~3, 1~3, 0~5, 1~5, 1~7, 0~7, 0~9, 1~9.
P06	Tire Size	26.5	Tire size. Used by the electronics to compute speed and distance Traveled. Do not change it.

P09	Start-up setting	0	09P is the start-up setting. The display can choose the following start modes: 00→zero start, 01→non-zero start.
P10	Drive mode setting	1	The available drive modes are: 00→Pedal assist only, 01→Electric only, 02→Both Pedal assist and electric.
P11	Pedal assist sensitivity setting	1	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.
P12	Pedal assist strength setting	5	P12 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 ~ 5. 0 is the weakest strength and 5 is the strongest
P13	Number of pedal assist sensor magnets setting	5	P13 is the number of pedal assist sensor magnets setting. The adjustable range: 5, 8, 12 pcs.
P14	Controller Current Limit Setting	15	P14 is the controller current limit setting. The adjustable range is: 1~50A.
P15	Battery under voltage value setting	39.0	P15 is the battery under voltage setting. The value can be adjusted based on the current rated voltage
P16	ODO resets setting	NA	P16 is the ODO resets setting. The display can choose the following: 00→non reset, 01→reset

We do not recommend that you change the settings if your e-Bike works well. Changing the settings may cause your e-Bike to stop working properly. If your e-Bike doesn't work properly after you change the settings, please return to the default settings. Dakeya may change the default value in production without notice. If you need any help, please contact us.

Battery Capacity Display

On the top of the LCD display, a battery indicator bar can be found which is labeled “energy bar”. This battery indicator shows the estimated charge left in the bike's battery. As the battery depletes, tick marks will begin to disappear according to approximately how much charge in the battery has been used. The various charge level indicator states are shown below. The battery display will flash when there is no charge remaining.

Troubleshooting

If your bike is not operating normally, there are some simple steps that can be taken to remedy the situation quickly. There may or may not be an error code that pops up on the screen depending on the issue. Solutions to common problems, as well as error code meanings, can be found below. If you have any questions at all regarding the basic troubleshooting below reach out to TUTTIO Ebike customer support.

Symptoms	Possible Causes	Most Common Solutions
The bike does not work	<ol style="list-style-type: none"> 1. Battery not fully installed into frame mount receptacle 2. Battery switch turn off 3. Insufficient battery power 4. Faulty connections 5. improper turn on sequence 6. Brakes are applied 7. Blown discharge fuse 	<ol style="list-style-type: none"> 1. Install battery correctly 2. Turn on the battery switch 3. Charge the battery 4. Clean and repair connectors 5. Turn on bike with proper sequence 6. Disengage brakes 7. Replace discharge fuse
Irregular acceleration and/or reduced top speed	<ol style="list-style-type: none"> 1. Insufficient battery power 2. Loose or damaged throttle 	<ol style="list-style-type: none"> 1. Charge or replace battery 2. Replace throttle

<p>The motor does not respond when the bike is powered on</p>	<ol style="list-style-type: none"> 1. Loose wiring 2. Loose or damaged throttle 3. Loose or damaged motor plug wire 4. Damaged motor 	<ol style="list-style-type: none"> 1. Repair and or reconnect 2. Tighten or replace 3. Secure or replace 4. Repair or replace
<p>Reduced range</p>	<ol style="list-style-type: none"> 1. Low tire pressure 2. Low or faulty battery 3. Driving with too many hills, headwind, braking, and/or excessive load 4. Battery discharged for long period of time without regular charges, aged, damaged, or unbalanced 	<ol style="list-style-type: none"> 1. Adjust tire pressure 2. Check connections or charge battery 3. Assist with pedals or adjust Route 4. Balance the battery; contact customer support if range decline persists
<p>Wheel or motor Makes strange noises</p>	<ol style="list-style-type: none"> 1. Loose or damaged wheel spokes or rim 2. Loose or damaged motor wiring 	<ol style="list-style-type: none"> 1. Tighten, repair, or replace 2. Reconnect or replace motor.

Error Codes

Error Code	Definition	Handling method
E001	Controller failure	
E002	Communication failure	
E003	Hall failure	
E004	Throttle failure	
E005	Brake failure	Check whether the brakes are in position; Replace the brake handle.
E006	Low-battery	Check whether the battery needs recharging
E007	Motor phase failure	Check whether the hall wire of the motor is loose
E008	Throttle failure	Whether to return the handle; Check the connection of the handle, if normal, need to replace the handle
E009	Controller failure	Check the cable harness connection of the controller Or replace the controller with a new controller
E010	Communication reception failure	Check that the display cable is properly connected
E011	Communication transmission failure	Check that the display cable is properly connected

Note: If you hold the brake while starting the bike, there might be E005 showing up too which will disappear in seconds, it's normal and affects nothing.

Maintenance and use skills of electric bicycle

The maintenance methods of electric bicycle under different use conditions mainly include the following points.

1. Influence of temperature.

Temperature has an impact on the use of lithium batteries. Generally speaking, the impact on the use of lithium batteries at room temperature is not significant, but when the temperature is higher than 40°C or lower than -10°C the discharge capacity of lithium batteries will change.

For example, if the temperature is below 0°C in winter, the effect will be affected. When the battery is fully charged, the driving mileage will be shortened, because under this condition, the battery capacity can only be released by 60%-70%. Therefore, the driving mileage when the battery is fully charged in winter will be much less than in summer

Maintenance method.

- 1) When the temperature is low in winter, the battery should be placed indoors, and the charging should also be carried out indoors. After the battery is fully charged, the charging time should be extended for another two hours.
- 2) In summer, avoid the sun exposure of batteries. Avoid charging the battery at high temperature. Avoid charging the battery immediately after use in high temperature. Do not charge for too long. The battery needs to be charged for another one or two hours after the red indicator turns green.

2. Use on different road conditions

E-bike is not suitable for driving on the road with bad or steep conditions. If there are many uphill on the way, we will find that the mileage of charging once will be much less than that on the flat road. When starting, uphill, loading or driving against the wind, please use the motor drive combined with human pedal to ensure the working life of your battery and

motor be longer.

3.Avoid exposure to the sun and rain.

Although the electric bicycle has good waterproof performance, it can still ride in rainy and snowy weather, but when passing through water puddles and ponding and other roads, pay attention to the wading height, which shall not be higher than the motor, so as to prevent the motor from damage caused by water inflow. Do not use a high-pressure water gun to wash the electric bicycle, so as to avoid damage caused by water entering the electronic parts and accessories.

4.Frequent braking is bound to be accompanied by frequent start-up.

Which will lead to frequent large current discharge and power cut-off of the battery, which has a certain impact on its life. Countermeasures: pay attention to safety when driving, drive at a proper speed, and try to avoid frequent braking.

5.Remember to regularly maintain electric bicycles.

Regularly check and tighten all key screws, add lubricating oil, keep them clean and avoid rusting, and try to avoid exposure to sunlight and rain.