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**Main technical parameter and performance index:**

**12 inch**

12" Mini E-bike fig.		Li-ion Battery fig.	
Mini Size: L*W*H	126cm*55*109cm	Type:	Li-ion Battery
Folding Size: L*W*H	61cm*27.5cm* 81cm	Battery Capacity(AH): (optional)	10,4Ah
N.W: (KG)	18.5KG (with 10,4Ah battery)	Voltage(v):	36V
G .W: (KG)	22.0KG (with 10,4Ah battery)	Full Recharge Time needed (h):	3-5h
Max Speed: Km/h	25Km/h	Controller fig.	
Battery-Full Charge range:	50-90km	Bottom-voltage limited protection index(V):	28.5±1V
Max. Loading:	< 110kg	E-current limiting protection index(A)	11±1.5A
Type:	DC Brushless with gear	Riding Type:	by battery power, or with pedal assistant
Output Rating(W):	250W	Climbing Capacity:	≤20°
Rating Voltage (V)	36V		

## 2: Basic structure figure and parts: (as photo)



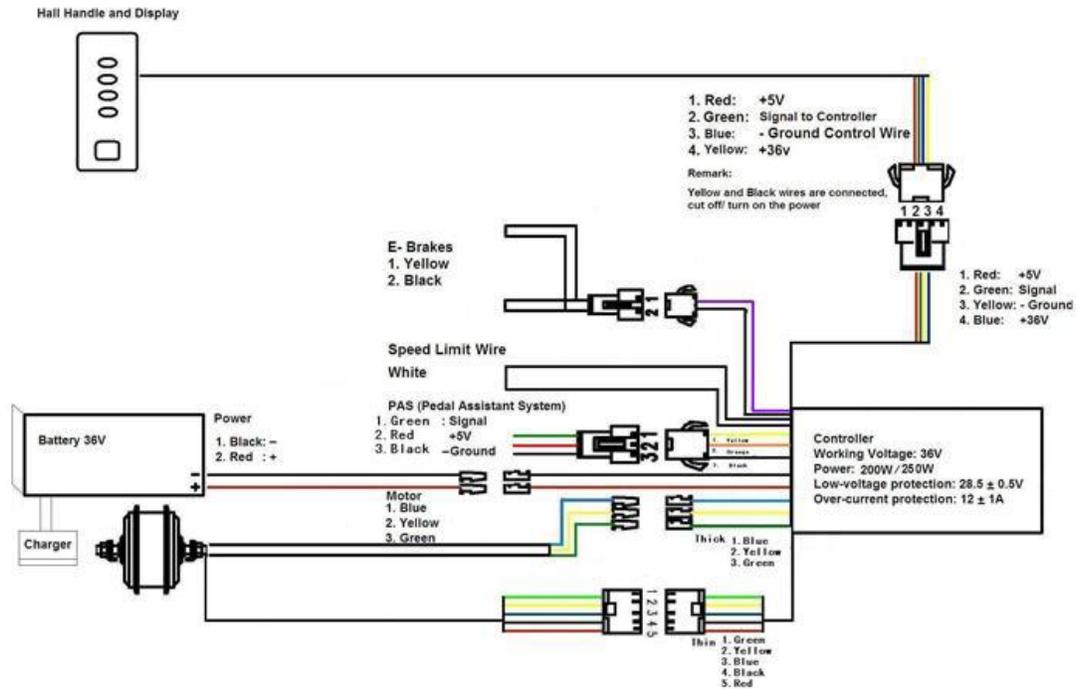
1: Saddle 2: Middle Seat Post 3: Big Seat Post 4: Folding Lift Handle 5: Lock System 6: Support Post 7: Li-ion Battery 8: Rear Wheel 9: Kickstand 10: Controller 11: Arc Link 12: Top Four-bar link 13: telescopic Link 14: Down Four-bar Link 15: DC Motor 16: Front Wheel 17: Quick-release 18: Stem 19: Foldable Handlebar

### 3: Operating-process:

- 1): Folding process: hold ③ and ⑥ together with one hand, after clamping these together ③ will slide down, then release ② and let it slide down to the bottom of seat post, then lift handle ④ up quickly till you hear the “click” meaning that ⑤ is in locked position. Folding process is finished.
- 2): Unfolding process: lift the saddle ①&② up and lock in place at height required, then kick ⑨ back softly, the frame of the Mini will pull itself open quickly, allowing ③ and ⑥ to be pulled back up to their right place, **Attention:** Before riding, you must check that ⑥ has opened to its correct position. And the saddle & handle bar are locked at desired heights.



#### 4:E-circuit diagram of the Mini e-bike:



#### 5: Attention to details: during riding and adjustment of main parts:

During the pedal assist riding, there is no need to turn off the power switch, you may keep the switch on. This will feel just like riding a normal bicycle.

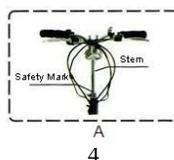


1-Before riding, you can loosen the quick release ②, adjust the saddle height up or down for your required fit, and then lock the quick release fastener ②. If the height is still not enough, please pull out the seat post to its correct height, then lock the quick-release fastener ①.

2-The safety marker line on the seat post is the marker for maximum extending of the seat post (height) – the post must be inserted inside the middle seat post to the point that you.

**MAKE SURE THAT THE SAFETY MARKER LINE IS HIDDEN**

(1): Handlebar Adjustment  
See in reference illustration A:



·Insertion depth of the stem cannot be less than the minimum depth, to make sure that the safety line on the stem is hidden.

·The fastening torque of the handle bar screw and clamp screw bolt can not be less than 18 N.M

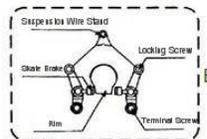
\*Attention: During the adjustment of the handlebar stem up or down, please do not disconnect any plug or electrical parts.

(2): E-throttle grip adjustment ( for USA only not for Europe Market)

(As parts # 20 shown) the e-throttle grip is installed on the right handlebar; there is a on/off switch to turn power on & off , After turning power on and as you turn the grip in counter-clockwise direction the working e-current will become stronger as the e-throttle is opened / turned more , the maximum rotate top position can be at 90°, as the e-throttle opening to the top.

During you release the e-throttle grip, will return back to its starting position, and accordingly you can turn off the e-power.

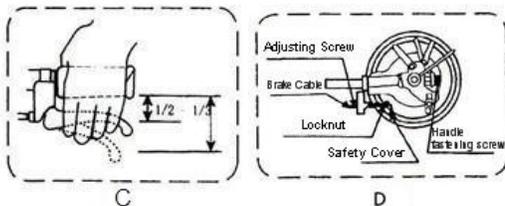
(3): Front brake Adjustment



See in reference illustration B:

- Gap adjustment: let the single side touch, loosen the terminal screw a little, there are three holes on the board, when moving up the spring, the elasticity will be raised to make the gap between brake and rim become bigger and vice versa.
- The best gap between brake and rim is 1.5mm.
- The best position of brake wire stand is that it not to touch the front mudguard.

(4): Rear Adjustment of expansion servo brake



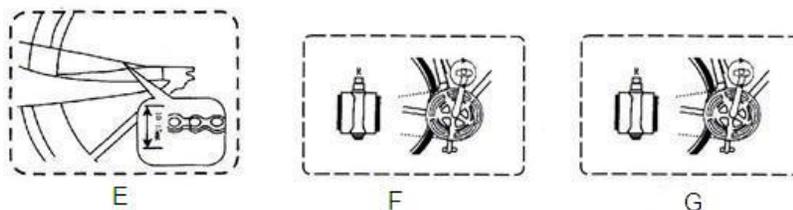
See in reference illustration C and D, adjust for rear brake:

- Loose nut and pull-rod nut of the adjusting screw, unscrew the adjusting screw, while meantime, hold the brake to make sure its position is on the 1/3—1/2 of total distance in order the rear brake shoe cling to the centre of the brake to reach ideal braking effect, and then screw down nut and the pull-rod nut.

#### (5): Wheel hub tightening Adjustment

When you tighten the wheel hub, the fasten torque should be as below:

- For rear wheel hub, the fasten torque can not be less than 40-45 N.M
- For front wheel hub, the fasten torque can not be less than 18-20 N.M
- ★ Attention: Front wheel hub axle collets nut can not be over-tightened , otherwise can cause warping at the front wheel (not be smooth & round )



#### 4): Adjustment of Chain ( See in reference illustration E )

The chain may become loose after long-time riding, when you find this problem, you can unscrew the nut of rear hub axle; adjust the chain adjustor for tightening the chain. Pull the chain down 10-15mm to its best tension.

Hold the pedal and rotate on counter-clockwise, the chain should be in normal state: rotate well, without abnormality, without noise.

#### 5): Assembly of the Pedal

The screw thread direction of the Right Pedal is right-hand thread; its lock direction is shown (photo F.

The screw thread direction of left Pedal is left-hand thread; its lock direction is shown as photo G.

**▲ Please carefully read the manual before riding your E-bike; please do not lend out to persons who do not know the details.**

- 1) Your Mini has been equipped with brake switch-off device, left and right brake levers are installed with brake power switch. No matter which brake you use, left or right during riding, the power will be cut off -Automatically for safety purposes.
- 2) When the battery output voltage is reached the bottom index, Mini electronic control system will cut off the power automatically to protect the battery cycle lifetime. When the battery reaches its bottom voltage, you can just ride your bike by the pedal. And the battery should be recharged full for the next cycling time.
- 3) Please switch off your Mini e-power when e-bike not in use.
- 4) Please ensure your e-bike while parked is stable and the kickstand is locked as well.
- 5) During riding please do not turn on the right switch throttle grip to full throttle, it can cause a large start e-current, that may damage your battery. If somebody often steadily starts your e-bike like the above, it may limit the battery cycle lifetimes.
- 6) Your e-bike once fully charged- riding range are more or less are subjected to the following facts like: road condition, loading weight or wind direction etc. We suggested that you try to pedal more during your start of riding and climbing and against the wind to help increase your range distance and the longer life of the battery & motor .

- 7) Always try pedaling during riding on muddy or rough road.
- 8) During your start on the ramp-way for climbing, please first ride by pedaling, then start the power switch for the e-motor assist.
- 9) During cleaning of your Mini, wipe with moist cloth or wet cloth, never using water hose or squirt gun for the cleaning work.
- 10) Prohibit putting oil on the front brake shoes.
- 11) Big seat post ③ and middle seat post ② should be cleaned, maybe put a little sewing-machine oil for lubrication if necessary.

## **6: Battery Charger User Guide:**

(the charger indicator: red means is charging, green means battery is full.)

- 1) Be sure to fully charge the battery before the first use.
- 2) The charge time for the first initial 3 uses should be 12 hours.
- 3) The Li-ion battery can be stored with full charge. If you are not riding far distance, it's not necessary to charge the batteries frequently.
- 4) If your e-bike will be stored a long time without riding, you should take off the battery box, and store it with 50% of its charge, and do re-charge fully every 3 months.
- 5) During the battery charging process, always keep the battery and the charger out of children reach.
- 6) Do not try to disassemble or modify the battery charger.
- 7) The charger you got is only for li-ion battery use, and should not be used with any other batteries.
- 8) Do not try to use this battery charger for charging other batteries, which are not supplied by us.
- 9) Battery balance charge can be shown at the indicator of the battery, which can be read once you turn on the e-power switch key.
- 10) Charging the battery: first plug the connector between the charger and the battery, then plug the charger to the power source, the LED on the charger will show red, that means the charger is on / working. When the LED becomes green, it means the battery is fully charged. When you finished the charge, please first take off the charger's plug from the power source, and then depart the connector between the battery and the charger. Please do not work on the opposite process.
- 11) During charging, the charger and the battery should be placed in a stable and cool place. The working temperature for the battery ranges between 32 and 113°F. The optimum working temperature ranges between 68°F and 77°F. Do not place any cover on the battery or the charger- while using. Ensure that no liquids or metal filings diffuse into the charger; if the battery box surface is found to be too hot (higher than 140°F), during charging, that might suggest a malfunction. The power should be cut off at once and the battery should be repaired in appointed service station.

## **7: Care and maintenance:**

To ensure your e-bike is in the best condition, please keep regular maintenance & cleaning.:

- ★ Check the tires/tubes regularly to ensure that they are inflated to the correct air pressure.
- ★ Make sure all quick release fasteners, nuts and bolts have been tightened securely.
- ★ After a period of riding, check whether the spokes' tension is normal. Make adjustments as needed
- ★ The frame and other components are made of aluminum alloy. Avoid the friction or collision and clean them regularly.
- ★ Maintenance of the motor, battery, controller, etc. Please do not disassemble by yourself, but take the e-bike to the service centre for repair if necessary.
- ★ Never wash the e-bike with high-pressure water .
- ★ Apply lubrication periodically (once per three months) in the following sections: chain, freewheel, rear brake, head parts, kickstand, etc. if necessary.
- ★Never soak the Li-ion battery in water or any liquid!