



User Manual

YD1200D-06

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Electric Moped

Operation and Maintenance Instructions





★We strongly recommend that you read this entire manual before using your vehicle for the first time.

General Instructions before Riding

- 1) To ensure the vehicle is functioning correctly, do a quick check of the vehicle's tires and check that the brakes are working. (For more detailed maintenance instructions see the Maintenance Schedule). Your vehicle has been thoroughly checked by our engineers before delivery but on the spot checks are equally important.
- 2) When the key is inserted and turned to the "ON" position, the power indicator will illuminate. If current drain is over 60A, the power will be automatically cut off to avoid over-heating. Wait for one minute and then press the red button to restart the vehicle.
- 3) To avoid unplanned acceleration, always turn the key to the "OFF" position before dismounting or leaving the bike unattended.
- 4) SAFETY NOTICE: Be sure that you are seated on the bike and stands are clear of the floor before touching the throttle handle. If you twist the throttle before you are ready to go or while you are mounting the bike it may run away from you and could lead to an accident.
- 5) This vehicle may be ridden in wet conditions, but be sure to avoid soaking it during



cleaning to avoid damaging any of the electric components.

- 6) The vehicle should not be left in strong, direct sunlight for long periods as some of the electric components may overheat.
- 7) Motorcycle must abide by the same traffic rules and regulations as other motorists. Before taking your motorcycle on a public road, be familiar with traffic rules and regulations and any special requirements for motorcycles.
- 8) Never drink and ride. Alcohol slows reflexes and greatly limits your ability to operate a motorcycle. Even a very small amount of alcohol will reduce your ability to operate a motorcycle safely.
- 9) Frequently switch on LOW SPEED mode and ride at economical speed will be great help on battery life and range. Especially at crowded city traffic.
- 10) High speed mode only recommended to ride on open road,

Point Inspection before every use

Item	Action
Front Brake	Squeeze right hand brake and push the vehicle to see whether it rolls easily. If it does, then the brake must be tightened. Tighten the bolt until the vehicle will no longer move with the brakes applied.
Rear Power/Disc Brake	Listen for any noticeable grinding or squealing from the tires while the brake is applied. If so, contact the supplier. Set the bike upon the middle stand, and turn the rear wheel by hand. If it does not turn freely, adjust rear disc to avoid electric consumption.



Brake Fluid	Check fluid gauge on the left handlebar to ensure that the brake fluid is above the indicated level. If not, top it off with a good brand of brake fluid.
Electric Switch Handle	Turn Throttle counter clockwise then release; the Throttle should spring back to stop position. If not, contact your supplier.
Tires	Check the tire pressure is 36 PSI
Controller/ Motor	Check the usage and condition
Battery	Check the power level by looking at the gauge or with a voltage meter (75V-52.5V).
Signal	Check to make sure your lights are working.
Nuts and Bolts	Check to make sure that all nuts and bolts are tightened and secured.

Important Notes



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1. Regularly perform a routine maintenance check. Doing so will help protect yourself and your vehicle.
 2. If any parts are damaged, whether normal or abnormal, please check with the supplier before riding.

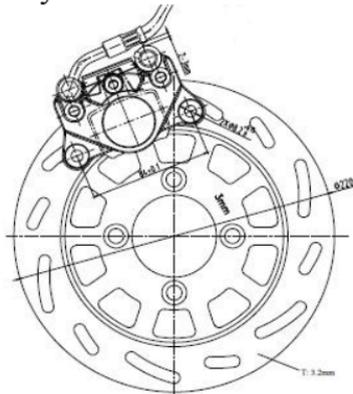
Assembly Instructions

Installing the mirrors



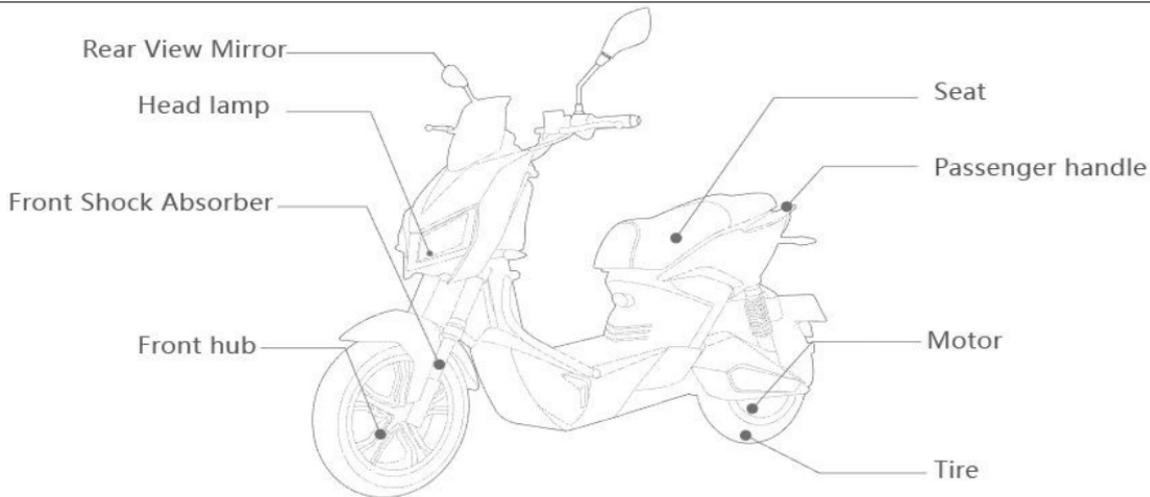
1. Mirrors can be easily fixed to the handle bars between the grips and the brake handle.
2. Screw in the mirror clockwise. The mirror that goes on the left controller is curved to the left and the mirror that goes on the right controller curves to the right.
3. Secure mirror by tightening the bolt.
4. Clean and adjust both mirrors before you ride. Adjust each mirror so you can see the lane

behind you and as far as possible the lane next to you. When the mirror is properly adjusted you can see the edge of your arm and shoulder.



5. Insert axle and brake disc before installing front wheel.

Parts List



A.Rear View Mirror B.Head Lamp C. Front Shock AbsorberRear D. Front hub
E. Seat F. Passenger handle G.Motor H. Tire

Front Display

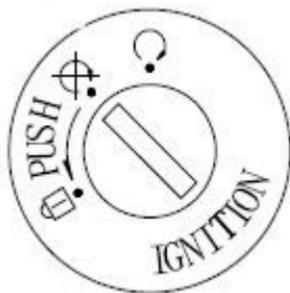


Fault code and symbol description

 Bluetooth	 Time	 GPS	 Network signal
 TEL	 message	 servicing	 Electric quantity
 High beam	 Undervoltage	 ready light	 TRIP Single mileage
 POWER Model	 Cruise	 speed meter	 ODO Total mileage
 Current display	 fault	 Direction lamp	

Ignition Key Position

Key Position	Description
On	Key cannot be taken out when power is on.
Off	Key can be taken out when power is off
Lock handle bar	To prevent theft, turn the Handle Bar to the far left and turn the key into the lock position. The key can be taken out when handle bar is on the lock position.
Opening the seat	Use the key in the slot on the side of the bike to release the locking mechanism of the seat.



Left handle bar controls

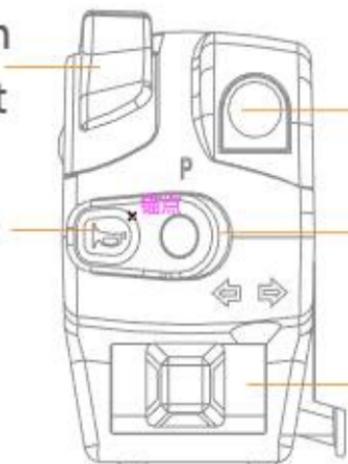
Switch of High beam	High Beam – Push switch up Low Beam – Push switch down
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or dipped headlight	
Danger signal lamp	Press this button when the vehicle is in a state of emergency
Horn switch	Sounds Horn – Push red button on the left.
Parking switch	The motor is in a stop state when the switch is pressed
Turn lamp switch	The left turn light is turn on when pushing the switch to the left. The right turn light is turn on when pushing the switch to the right.

Switch of High beam
or dipped headlight

Horn switch



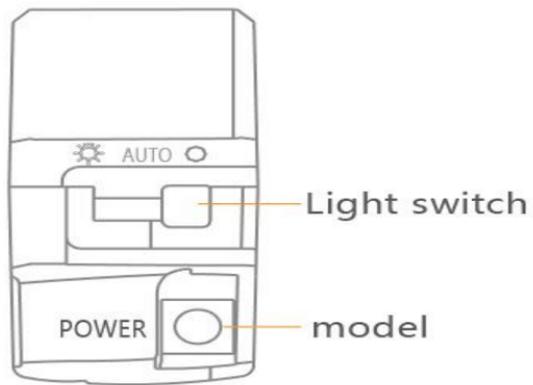
Danger signal lamp

parking switch

Turn lamp switch

Right handle bar controls

Light switch	When the switch is in the rightmost position, all lights are turned off, the front position light and the rear position light are turned on when the center position is on, and the headlights turn on at the left end.
Model	Select a different pattern through the forward and backward of the button



Accelerating and Braking

Throttle Tips

1. Turn the key to the 'ON' position, and turn the Throttle gradually to accelerate.
2. To prevent losing control of the vehicle, please turn the Throttle slowly until the speed increases.
3. Do not turn the Throttle until you are in the position to drive.
4. To stop, release the throttle and apply the front and rear brake simultaneously.
5. To move, release the brakes and turn the Throttle gradually.
6. The Brushless motor makes a small electromagnetic noise when turning the Throttle to start. This is normal.
7. Please, for your safety and security, take the key out when you are not riding.



Braking Tips

1. For safety, this vehicle has a circuit brake system. When the front and rear brake is applied or kick stand ON, the controller will disable the circuit; release all brakes and ensure the tail light is OFF before accelerate again.
2. Less frequent sudden braking will increase range entirely. If running under top speed, do not continually operate at full throttle. Frequently releasing the throttle and running with inertia will help to much increase your range. This motor has good torque and the inertia momentum is enough to run some distances without electric power.

Battery Gauge and Charging Instructions

Color	Description
Green	While riding, when the battery is fully charged the gauge light will be green.
Green (2nd)	This light indicates that the battery is 75% of full charge
Yellow	When power is low (around 50%) the battery gauge will turn to yellow.
Red	When the battery is discharged the motor will be automatically cut off. This means that there is less than 25% charge remaining. Switch to “Economical speed” and find the nearest charging point.



Charging

- 1.The battery for this vehicle is a Lithium free D/C battery. The owner must use the factory-supplied charger with an 110V (or 240V) outlet.
- 2.Turn off all switches while charging the battery. Plug one side to an 110V (or 240V) outlet and the other into the charging plug on the vehicle (located under the seat).
3. The average charging time is 4 hours (90%) for the Moped. To fully charge battery, charging time will be 5 to 7 hours. After full charging, the light will change from “Red” color to “Green” color.
- 4.After charging, turn the ignition to the ‘On’ position and unplug the charger from both sides.
5. To keep the battery in good condition, charge it after each use. Please charge the battery fully once a month, even when the vehicle has not been ridden.
- 6.BMS charger ensure of balance Voltage on each cell battery.

Battery Longevity

The driver should, if possible, charge the scooter after every trip as this will help the battery's life. The life of the Lithium battery is 800 deep cycles (80% deep discharged), but if you charge the battery every time or when its capacity falls below 50%, the battery life will be greatly increased. Therefore we advise the rider to charge the bike as often as possible. Frequently ride at economical speed would be better for battery life and range.

Performance

1. A range of 38-56Mile (60-90km) has been recorded, yet the distance and speed depend upon various elements of the rider's style and the road conditions. A 20mph (32kmph) constant speed will ensure the longest range but our figures include going flat out too. Other factors include weather, vehicle condition, and battery charge. Drivers must be cautious when driving on rough roads, in poor weather, or when the battery charge is low.
2. This vehicle has a circuit brake system to protect the vehicle when the brake is applied;
3. After each trip, the driver should turn off the vehicle, take out the key and charge the battery. This battery does not have memory (i.e. you do not have to run it down completely to achieve a good charge. On the contrary, regular charging will lengthen the life of the battery) and can be charged at any time in the cycle of the battery.
4. Always check the battery gauge while you are riding and be sure that it does not get too low too often.

Maintenance

This electric motorbike represents a new generation of environmentally friendly two-wheeled transportation. Therefore, good maintenance will play a major role in keeping your vehicle in good working condition and prolonging the life of the batteries. Please follow these suggestions:

To prevent rust always keep your vehicle dry and clean. Regularly check the front and rear tires, suspension and body frame and all fasteners.

When riding in rain do not go through deep puddles or muddy areas; excessive water will cause the motor and other electrical components to suffer undue harm. To prevent rust from forming on the vehicle, avoid parking your vehicle in high humidity and corrosive areas. To avoid damage to the electrical parts of this vehicle, especially the controller, do not park the vehicle in direct sunlight or in heavy rain.

Due to the complexity of the electronic manufacture of this vehicle, customers should never



attempt to take out any of the parts, or attempt major maintenance without consulting the supplier (this will invalidate the warranty).

Never overload and ride the vehicle for an extended period of time, prolonged use with excessive weight could cause serious damage to the electronic and mechanical parts.

Always check your vehicle and perform necessary routine maintenance - tires, brakes, nuts and bolts. For your safety, perform routine maintenance on your vehicle. This will lower the potential for damage.

Maintenance Schedule

Mileage	400	1000	2000	3000	4000	5000	6000	Maintenance
Kilometer	640	1610	3220	4800	6400	8000	9600	
Battery			C				C	
Charger			C				C	
Tire Pressure	C	C	C	C	C	C	C	A
Tire Wear							C	
Brake System	C		C		C		C	A



Brake Pad							A	
Nuts and Bolts	T		T				T	
Mileage	7000	8000	9000	10,000	11,000	12,000		Maintenance
Kilometer	11200	12800	14400	16000	17600	19200		
Battery		C				C		
Charger		C				C		
Tire Pressure	C	C	C	C	C	C		A
Tire Wear		C				C		
Brake System		C		C		C		A



Brake Pad		A				A		
Nuts and Bolts		T				T		

A: Adjust C: Check T: Tighten

Frequently Asked Questions (FAQ)

1. Fully charged, what is the range of the electric vehicle?
 - A. The Range is affected by the weight of rider, the type of terrain and the speed at which the vehicle is driven. Under optimal conditions (push red button and keep a steady 20mph(32kmph) rate speed), a range of (60-90 km) has been recorded on a single charge.
 - B. See the specification sheet for the full range and speed of the models.
2. Is riding an electric vehicle a comfortable riding experience?
 - A. Riding an electric vehicle is indescribably more comfortable than riding a gasoline motor vehicle. The silence and the smoothness of a direct drive electric-motor-powered vehicle are incomparable.
3. Do you have to warm-up the electric vehicle before riding it?

A. When the driver turns the ignition key, three beeps will immediately follow telling the driver that the vehicle is ready to drive. There is absolutely no warm-up time needed. Just turn the key and you are ready to go. It cannot be any easier.

4. What about maintenance?

A. This motor bike is designed for minimum maintenance. Considering the fact that this vehicle has no combustion engine, no transmission, no belts, no chains, no gasoline, no lubricants, no ignition plugs, no carburetor, etc. Modular designed components are practically maintenance free. The unique design of the direct drive system and the total absence of belts or chains make this vehicle much easier to maintain than other electric scooters. Practically any scooter dealer can do most of the maintenance that may be required. The brushless motor is precisely that so there is never a need to change the brushes.

5. What about parts, is it a problem getting parts for the E-Moped?

I. ALL parts can be purchased directly from the supplier including batteries, tires, bulbs, body shells, seats etc.

6. Can the electric vehicle be cleaned or washed with water without any concern?

- A. As with any electric vehicle, care should always be taken when washing.
 - B. One should be careful never to pour water directly into the charger outlet, the controller and the internal battery set when washing or cleaning.
7. Do you need to wear a helmet to drive the electric vehicle?
- A. For safety reasons we always advise the use of a helmet. However, local law dictates whether or not riding vehicle law obligates a helmet.
8. Is it easy to recharge the batteries?
- A. Yes, it is very easy. The user just needs to insert the input plug of the Battery Charger into any regular wall outlet of AC110V (or AC220V) and the output plug into the inlet on the right rear side of the vehicle, which is clearly marked. This will start to recharge the batteries. Daily charge of the battery will lengthen its life cycle,



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9. How long will the batteries last, what is the batteries life cycle?
- A. The battery's life cycle will be reduced or damaged if an insufficient charge level is retained for a long period of time. Depending on the user's operation, between 800(80% discharged) and 1000 cycles (50% discharged). Normally the batteries should last between two and three years if the user charges it regularly.
10. How can I know the batteries condition and energy level?
- A. The display panel includes a battery indicator, which clearly indicate the power level of the batteries in your vehicle.
- I. FULL: the index at Green Zone
- II. Warning: the Index at Yellow Zone.
- III. Low Voltage: the index at red Zone.
11. If one of the batteries has a problem do I need to change all the five batteries?
- A. Not necessarily. Simply check the condition of all five batteries and only replace the battery which shows lack of charge.



12. Can a rider get burned while riding the electric vehicle?

A. Riders will not get burned from riding the electric vehicle. The vehicle does not have an exhaust pipe like in gasoline scooters. Nothing heats up.

13. Why is this product the best available in the world today?

It has a Brushless motor. We emphasize "brushless" not just because this is the latest technology, but because these permanent magnet motors are supremely reliable! These more expensive motors produce high torque at low speeds, keeping an acceptable balance of torque and energy across the whole speed range. Often other types of electric vehicles on the market today will still use sealed brush-type motors that are dependant upon brush life that build up brush dust (residue) and susceptible to wear over time which may affect maximum speed and electrical noise or become Problematic in other ways. Because these brush-type motors are sealed, it often takes an expensive motor replacement to get them working again.

14. What is the Manufacturer Warranty?

Please connect with local dealer for warranty information on this model.

Trouble shooting

Problem	Condition	Check	Solution
When I turn my vehicle on nothing happens.	1. Power indicator light is off while riding.	1. check the circuit breaker under the seat	1. Fasten connections.
	2. Indicating light on motor is not illuminated.	2. Check battery and motor connection.	2. Recharge battery.
		3. Assess the weather for humidity.	3. Loosen connection and wipe down with a damp rag and dry and fasten again.

			Contact the supplier.
		4. Check regulator.	4. If there is any corrosion replace. Contact the supplier.
		5. Check power connection and battery level.	5. Change or replace damaged part. Contact the supplier.
The Throttle does not work or switch on, the vehicle moves without acceleration.	The Throttle does not return to stop position.	1. Check the grip for damage	1. Use a flat head screwdriver to adjust the gap between the rubber handle and the cover.



		2. Check the Throttle spring.	2. Readjust the Throttle spring position. Contact the supplier.
		3. The Throttle handle is loose.	3. Lubricate the Throttle spring. Contact the supplier.
The batteries do not take a charge.	Charger light is off	1. Check the charger plug position.	1. Check by unplugging charger and plugging in again.
		2. Check the fuse in the charger box.	2. Unplug the charger and replace the fuse. Contact the supplier to order a new charger fuse/ charger.

		3. Charger has blown a fuse.	3. Replace the charger fuse. The fuse box is located on the floorboard, unscrew the two screws and open the fuse case, and replace scooter. Contact the supplier to order a new fuse.
		4. A bad connection exists between the charger and the battery.	4. Unplug and plug in again. Otherwise contact the supplier.
Ignition on and all lights, horn on, but throttle	Brake cut off	5. check the tail lamp	5. check the front and rear brake and kick stands switch



does not work			
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