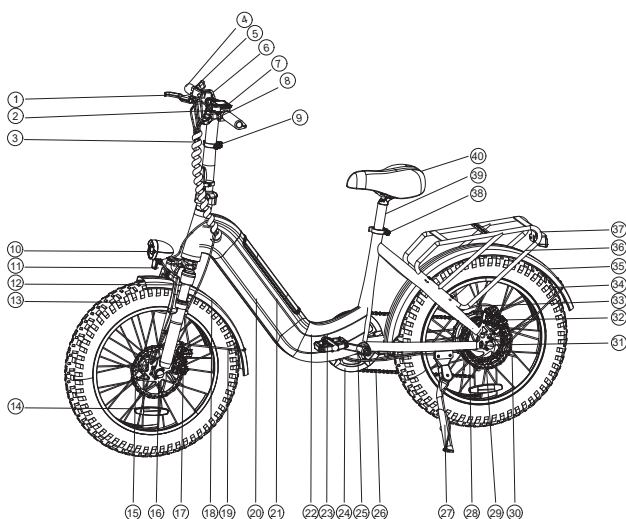




DYU SMART ELECTRIC BIKE FF500 INSTRUCTION

Do not use the eBike without reading this manual carefully and
knowing your eBike thoroughly
Please save this manual for future reference

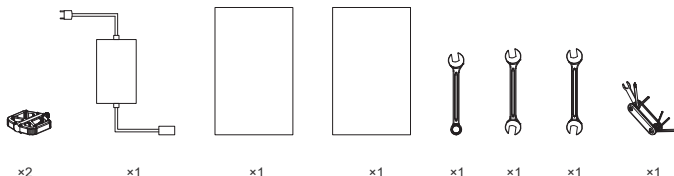
PARTS & COMPONENTS



- | | | |
|-----------------------|---------------------------|----------------------------|
| 1.Brake Lever | 14.Wheel Reflector | 28.Disc Brake Rotor |
| 2.Bell | 15.Disc Brake Rotor | 29.Rear Deraillleur |
| 3.Cable Harness | 16.Hub | 30.Spoke |
| 4.Grip Cover | 17.Disc Brake Caliper | 31.Motor |
| 5.Electric Shifter | 18.Front Mudguard | 32.Disc Brake Caliper |
| 6.Mechanic Shifter | 19.Front Mudguard Support | 33.Flywheel |
| 7.Display | 20.Frame | 34.Rear Mudguard Support |
| 8.Brake Lever | 21.Battery | 35.Rear Mudguard |
| 9.Riser Quick Release | 22.Controller | 36.Pannier Rack |
| 10.Headlight | 23.Pedal | 37.Taillight |
| 11.Front Reflector | 24.Chain Wheel | 38.Seat Tube Quick Release |
| 12.Front Fork | 25.Crank | 39.Seat Tube |
| 13.Tyre | 26.Chain | 40.Saddle |
| | 27.Kickstand | |

Note: As we upgrade our eBikes, the one you own may be slightly different from the one shown above, but how you use it shall be the same.

In the Package



ASSEMBLING

1. Open the box, take out your eBike, and remove the packaging.
 2. Assemble the front wheel: Mount the front wheel to the front fork, and tighten the nuts with a tool.
 3. Assemble the handlebar: Lift the riser, close the riser latch, align the handlebar, and fasten the handlebar latch.
 4. Walk the eBike to ensure no abnormal sound from the turning wheels. Gently pull the brake levers for a couple of times to ensure both the front and rear brakes function normally.
 5. Adjust the seat tube to desired height, and lock the quick release.
 6. Install the pedals and tighten up.
- Please wear a helmet when riding the eBike.

CHARGING

Please use the original charger that comes with the eBike. Connect the DC jack of the charger to the charging slot of your eBike, and then the AC plug to the mains. When the charging starts, the red light on the charger turns on. The charger light turns from red to green when charging is complete. (When the battery does not need charging, do not keep the AC plug connected to the mains, and do not keep the charger connected to the battery. Do not charge indoors. When charging outdoors, avoid rain or direct sun on the charger.)

DISPLAY



1. Headlight



2. Voltage Status/ POWER

POWER

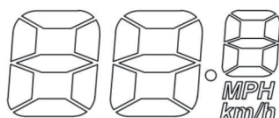
3. Multi-display

TRIP
ODO
TIVOL



V
mile
km

Digital Voltage/ VOL, Total Mileage/ ODO, Mileage This Trip/ TRIP, Time Lapse/ TIME



Current Speed/ CUR, Max Speed/ MAX, Average Speed/ AVG, Unit/ MPH or KM/H

4. Failure Alert



Motor Failure



Throttle Failure



Controller Failure



Power Cut-off Brakes



Under-voltage Protection



BUTTONS


The buttons may be pressed, pressed and held, individually or jointly.


When riding, press  or  to adjust the gear/speed.

When riding, press  to switch the display of various data.







In general, pressing and holding a single button is for switching on and off. Pressing and holding more than one button is for parameter setting. Such design, especially without pressing more than one button at the same time for once, is to reduce the likelihood of mis-operation, and to make it easy to operate.

1) Adjust gear: When in Pedal Assist Mode, press  to gear up by one level, i.e., Gear 1.

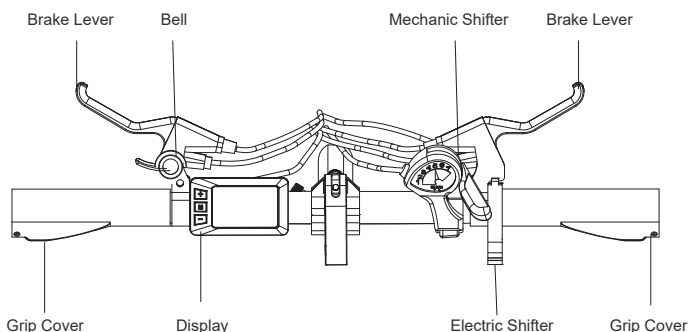
2) Switch on/off the headlight: When the display is on, press and hold  for three seconds to switch on/off the headlight.

3) Switch the display of various data: Press  to view various data.

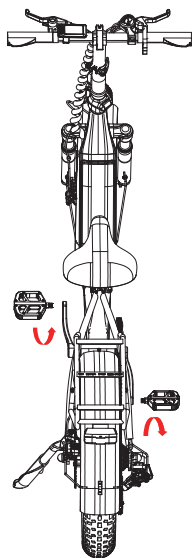
4) Set the parameters: Press and hold  and  together to initiate parameter setting or viewing.

Parameters that can be set or viewed include: P01 display brightness, P02 unit of mileage, and P03 ODO erasure. Press  to switch among the items of parameter. Press  and  to adjust the value, which shall flash upon revision. Upon desired value, press  to save, and enter the next item. Press and hold  and  together to exit parameter setting or viewing. The setting times out after ten seconds of inactivity.

HANDLEBAR



INSTALLING THE PEDALS



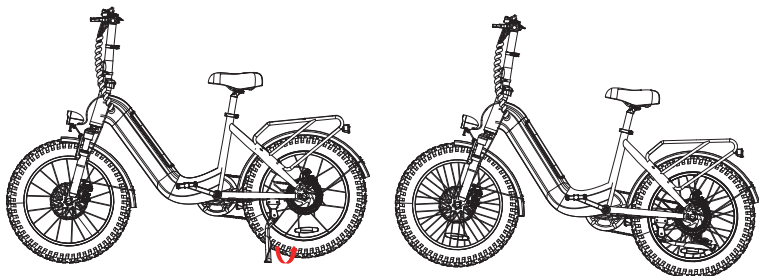
(1) Insert the pedal marked "R" into the crank. Hold the pedal with your hand, and turn it clockwise for a few rounds. Then clamp the pedal shaft with the spanner in the package, and turn it clockwise until fastened.

(2) Find the L pedal and repeat the above steps (but rotate counterclockwise).

(3) If you feel resistance when turning the pedal shaft, immediately remove the pedal to avoid possible damage. Attach the pedal again and make sure the pedal shaft is perpendicular to the threaded hole on the crank. Proceed with the rest of the steps.

Screw in the right pedal clockwise, and the left counter-clockwise.

KICKSTAND

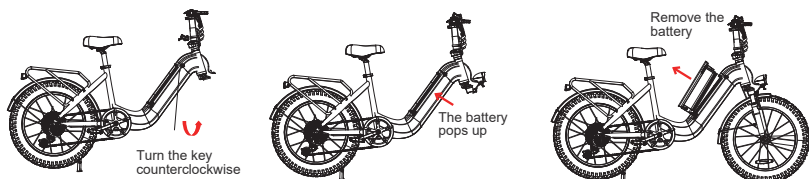


(1) Kick the kickstand backward with your foot, and it shall lift up to a position parallel to the ground.

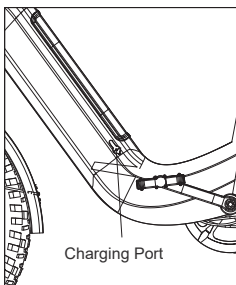
(2) Gently press down the kickstand towards the ground with your foot, and it shall support the eBike against the ground.

Note: Please be sure to swing the kickstand up before riding.

REMOVING THE BATTERY



CHARGING PORT



SPECIFICATION

Build	Model	FF500
	Body material	Aluminium
	Expanded size	1740*575*1235 mm(or 68.50*22.64*48.62 in)
	Folded size	Not foldable
	Wheelbase	1150 mm (or 45.28 in)
	Ground clearance	120 mm (or 4.72 in)
	Wheel hub	20 in
	Net weight	31 kg (or 68.34 lbs)
	Body colour	Blue
Performance	Load	120 kg (or 264.55 lbs)
	Riding speed	25 km/h (or 15.53 mph)
	Max speed	45 km/h (or 27.96 mph)
	Power consumption per hundred kilometres	1.17 kWh
	Range in Throttle Mode	55±2 km (or 34.17±1.24 mi)
	Range in Pedal Assist mode	80±2 km (or 49.71±1.24 mi)
	Hill climbing capacity	15 degrees
	Operating temperature	-10°C - 45°C (or 14°F - 113°F)
	IP rating	IP54

SPECIFICATION

Core	Battery type	21700 Lithium-ion
	Battery capacity	13.5Ah
	Battery rated voltage	48V
	Charging voltage	DC54.6V
	Charger input voltage	AC100-240V
	Charging time	6-7 hours
	Motor type	High-speed motor
	Motor rated power	500W
	Motor rated voltage	48V
	Controller under voltage value	41±1V
	Controller over current value	20±1A
Features	Headlight	Yes
	Pannier rack	Yes
	Braking	Front and rear disc brakes
	Pedal assist sensor	Speed sensor
	Adjustable seat height	Yes
	Others	The eBike powers off automatically after ten minutes of inactivity.

Note: The max speed may vary, depending on the battery level, load, tyre pressure, terrain, lubrication state of the chain and bearings, etc. The ranges are determined upon tests at the ambient temperature of 25°C (or 77°F), at the speed of 15 to 20 km/h (or 9.32 to 12.43 mph), on smooth and firm terrain, with a load of 60 kg (or 132.30 lbs), and within an uninterrupted period from full to zero battery level. The ranges may vary, depending on your riding behaviour, ambient temperature, load, tire pressure, terrain, etc.

ATTENTION

Battery & Charging

- Do not connect the positive to negative, or vice versa. Do not damage, disassemble, or short-circuit the battery. Avoid water, other liquid, or other foreign matter inside the battery to prevent short circuit.
- Instructions in this manual must be followed when charging the battery, otherwise the owner shall take sole responsibility for any consequences.
- Charge the battery only at the temperature between 0°C (or 32°F) and 45°C (or 113°F), and discharge at the temperature between -20°C (or -4°F) and 60°C (or 140°F). The charging current should not exceed 2A. Charge only in a well-ventilated area, away from sun and heat.
- Use the original charger from the package to charge the battery. Connect the charger and battery before plugging the charger into the mains. Do not charge the battery for over 6 hours each time.
- When charging, if the charging indicator appears abnormal, a smell is released, or the charger overheats, stop charging immediately. Service or replace the charger.
- To stop charging, unplug from the mains before disconnecting the charger and battery.
- When the charging indicator turns green, stop charging.
- Do not leave the charger connected to any AC power source when not charging.
- When not in use, store the battery in a dry (relative humidity at 65±20%) and cool (temperature at 10-35°C, or 50-95°F) place. Keep away from fire, heat and high temperature. Do not put the battery in acid or alkaline liquid. Make sure to charge the battery for two hours each month.
- Before using the charger to charge a different battery, note the battery type and voltage that the charger may apply to.
- It is advisable not to carry the charger with your eBike. If you must, place the charger in a toolbox upon shock absorption treatment.
- Do not disassemble the charger or replace the parts and components in the charger on your own.
- Waste battery is classified as hazardous. Do not disassemble the waste battery on your own. It should be collected and recycled properly.

Riding your eBike

- Do not use the eBike before reading this manual carefully and knowing your eBike thoroughly.
- **This eBike is designed for riders aged 16-45. Anyone aged below 16 is strictly forbidden to ride this eBike.**
- **Please wear a helmet.**
- Do not lend your eBike to anyone who do not know how to use it, so as to avoid harm.
- When adjusting the steerer tube and seat tube, do not expose the minimum insertion marks.
- Before riding, check the tire pressure. It is advisable to maintain at 35-45 PSI.
- Before riding, ensure the power, lights, handles, brakes, wheels, reflectors and others are in good condition.
- Before carrying people or objects on your eBike, learn the local laws and regulations, and abide by them.
- Do not exceed the load capacity of 120 kg (or 264.60 lbs.).
- Wear a helmet, and obey traffic rules.
- Obey local traffic rules to keep to the right or left.
- Do not ride on any motorized lane or in any pedestrian crowd.

ATTENTION

- It is advisable not to go over 15 km/h (or 9.32 mph) when riding on any non-motorized lane, downhill, or paved road.
- Slow down in rain or snow as required braking distances increase.
- It is advisable not to ride in storms or any extreme weather.
- Avoid impact on the motor.
- Keep the bearings lubricated.
- Do not park your eBike in any lobby, walkway, evacuation stairway, or emergency entrance/exit.
- Do not charge or park your eBike inside any residential building. Keep away from combustibles when charging. Charging should not exceed 6 hours each time.

Maintenance

- The front and rear wheels should be aligned to the center of the front fork and frame.
- Park away from direct sunlight and rain.
- Do not rinse the eBike. Wipe with a damp cloth to clean.
- Check the motor and brakes frequently. Do not oil the braking system.
- Regularly check all screws and keep them fastened.
- Recommended torque specs: handlebar screw 60-80 kgf.cm (or 52.08-69.44 lbf.in), steering stem screw 175-200 kgf.cm (or 151.90-173.60 lbf.in), saddle screw 175-250 kgf.cm (or 151.90-217.00 lbf.in), and wheel screw 320-450 kgf.cm (or 277.70-390.60 lbf.in).
- Regularly check the tension of the chain, which can be adjusted via the chain regulator.
- Frequently check the tires for scratches, cracks or excessive wear. The inner tube and valve should be perpendicular to the wheel hub. Punctured, damaged or excessively worn inner tube and tire must be replaced immediately. Please contact professional technicians.
- It is forbidden to modify key structural parts including the frame, front fork and steerer tube, and any electrical parts. If damaged, replace with identical parts from our factory. Otherwise, the warranty shall be void and the owner shall take sole responsibility for any consequence.

Disclaimer

- Our company reserves the right to modify and give final interpretation to the product model, specification, and other information contained in this manual.
- The functions of the specific model referred to in this manual apply to this specific model only.
- The product model, specification, and other information contained in this manual is subject to any modification or change without notice.
- Without the prior written permission of the company, the contents of the manual may not be copied, modified, reprinted, disseminated or published in any form.
- Please read this manual carefully before using the product, and operate in accordance with the manual. Otherwise, the company shall not be liable for any personal or property damage, including damage to the product, caused by misuse or abuse.
- For more information, please visit our official website: www.dyucycle.com.



DYU Ebike Owners Group