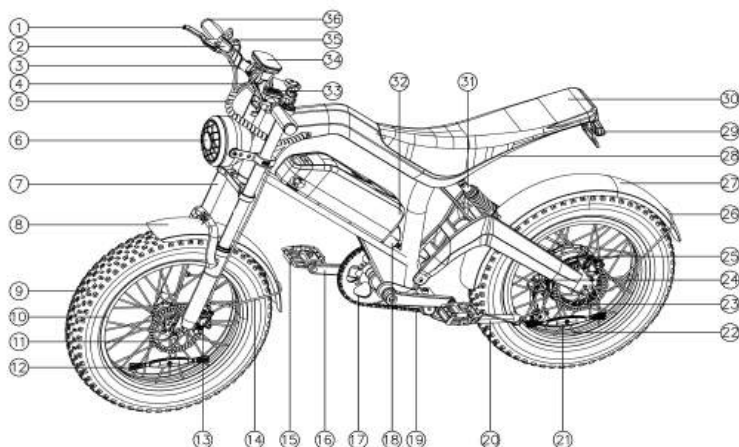




M20 Owner's Manual

Do not use this product without carefully reading this instruction manual
and understanding the performance of electric bicycles
Please keep the instruction manual properly

PARTS & COMPONENTS



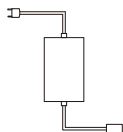
- | | |
|------------------------------|--------------------------|
| 1. Brake Lever | 19. Chain |
| 2. Thumb Shifter | 20. Kickstand |
| 3. Front Reflector | 21. Rear Wheel Reflector |
| 4. Handlebar | 22. Spoke |
| 5. Wiring Harness | 23. Motor |
| 6. Front Light | 24. Rear Derailleur |
| 7. Front Fork | 25. Freewheel |
| 8. Front Fender | 26. Rear Fender Bracket |
| 9. Tire | 27. Rear Fender |
| 10. Rim | 28. Frame |
| 11. Brake Disc | 29. Rear Light |
| 12. Front Wheel Reflector | 30. Seat |
| 13. Front Disc Brake Caliper | 31. Shock Absorber |
| 14. Front Fender Bracket | 32. Battery |
| 15. Pedal | 33. Power Switch |
| 16. Crank Arm | 34. Display |
| 17. Chainring | 35. Half-Twist Throttle |
| 18. Controller | 36. Handlebar Grip |

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.

LIST OF ACCESSORIES



Pedal×2



Charger×1



Manual×1



Open wrench



Allen key

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 15mm Open wrench.
3. Align the handlebar with the stem, then tighten the screws with 5mm Open wrench.
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. Install the pedals and tighten up.

Remark: 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 & BUTTONS



BUTTONS

1. Power Button

Power ON/OFF:

Press and hold for 2 seconds to power ON/OFF.

When powered ON, all icons on the display will illuminate briefly.

Parameter Display:

Short press to cycle through TRIP / VOLT / ODO. Factory default: TRIP.

Speed Unit:

Double press to switch km/h ↔ mph. Factory default: km/h.

Cruise Control:

Triple-press to enable/disable cruise control.

(When enabled, the cruise icon will illuminate; if abnormal, the icon may flash.)

When braking or accelerating, cruise control will exit automatically.

Factory default: cruise control OFF.

2. Left Button

Headlight:

Press and hold for 2 seconds to turn the headlight ON/OFF.

When powered ON, the daytime running light is ON by default.

Assist Up:

Single press to increase assist level.

3. Right Button

Walk Assist Mode:

Press and hold for 2 seconds to enter walk assist mode (6 km/h, pedestrian icon ON).

Assist Down:

Single press to decrease assist level.

Mode Switching (Gear Mode):

With power OFF, press and hold the power button for 10 seconds to enter mode settings.

Three modes are available:

1.Factory default "F0": Level 0 = no assist.

Factory default:

Highest mode available.

ERROR CODES

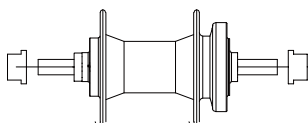
Code	Description
1	Throttle
2	Brake
11	Motor Stall
12	Overcurrent
13	Communication
14	Overvoltage
15	Undervoltage
16	Phase Fault
17	Hall
21	Stall

INSTALLING THE FRONT WHEEL

Installing the Front Wheel

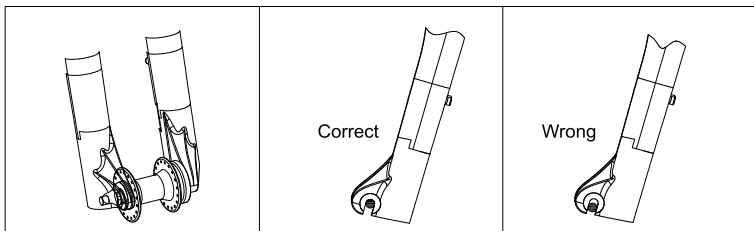
I. Basic mechanical principle with the hub and anchor nuts

Turn the anchor nuts clockwise to increase clamping, and anti-clockwise to decrease.

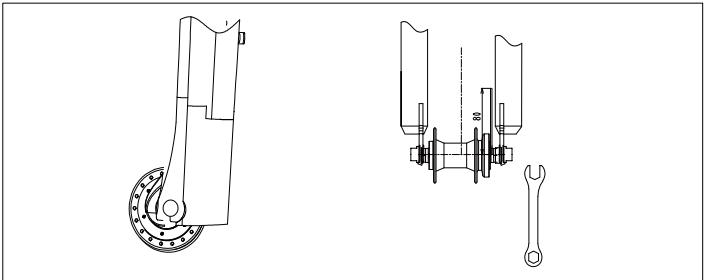


II. How to install

1. Manually turn the anchor nuts anti-clockwise to loosen for space, and insert the front wheel all the way into the dropouts of the front fork.



2. Manually turn the anchor nuts clockwise to fasten up. Ensure that the front wheel is located at the very center of the front fork, and that the disc brake rotor is parallel to the disc brake caliper towards the end of the front fork with space in between. Keep some space on both sides, and tighten into place with a spanner as indicated below.



Gears

Some DYU eBikes come with gears, which consists of:

- Rear sprocket cluster, called freewheel or cog set
- Rear derailleur
- Shifter
- Control cable
- Front sprocket, called chaining
- Drive chain



The gear mechanism differs in ergonomic design, performance and price.

A downshift is a shift to a lower or slower gear, which makes pedaling easier. An upshift is a shift to a higher or faster gear, which makes pedaling harder. In practice, you can upshift to go faster, and you can downshift to go uphill. A shift is possible only when you are pedaling forward, i.e. the drive chain is moving forward and under some tension.

CAUTION

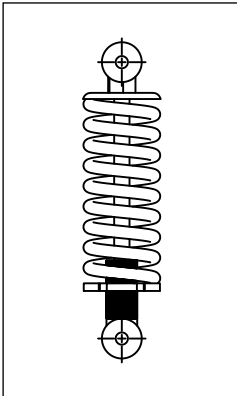
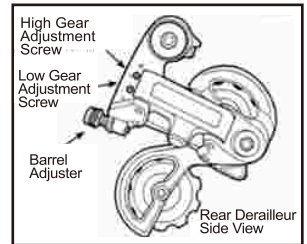
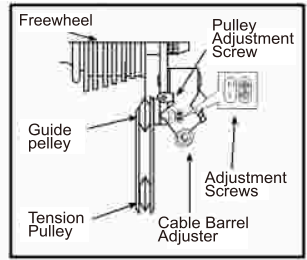
Never shift when pedaling backward. Also, do not pedal backwards after a shift. Either action may jam the chain and cause serious damage to your eBike.

Derailleur System

The derailleur system includes front and rear derailleurs, shift levers, and derailleur control cables. For smooth shifting, all components must function properly.

Although the front and rear derailleurs are initially adjusted in the factory, you need to inspect them before each ride.

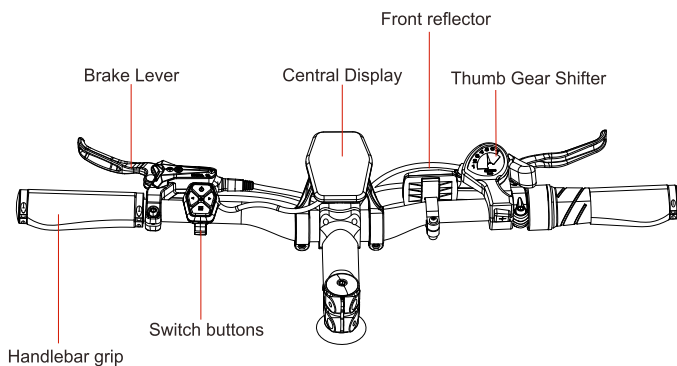
To begin, twist the shifter to the largest number indicated, and the cable shall loosen the anchor bolt on the rear derailleur, placing the chain on the smallest sprocket. Adjust the high limit screw so that the guide pulley and the smallest sprocket are lined up vertically. Re-tighten the cable, pull out any slack, and re-tighten the anchor bolt securely. Shifting through the gears, making sure that each gear is achieved quietly and swiftly. 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 loosens cable tension and moves the chain away from the wheel, while turning counter-clockwise tightens cable tension and direct the chain towards the wheel.



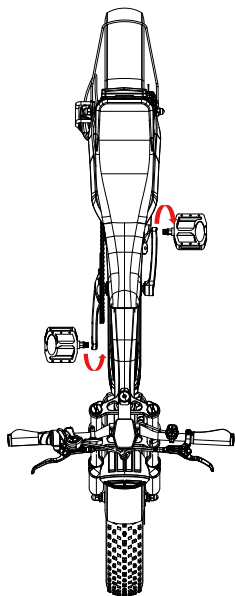
Installing the Shock Absorber

- 1.Remove the countersunk bolts from the frame with the hex key.
- 2.Align the eyelets of the shock absorber and the frame.
- 3.Pass the countersunk bolts through the eyelets, and fasten to secure.

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.

SPECIFICATION

Build	Model	M20
	Body material	High-carbon steel
	Expanded size	1820*690*1140MM
	Folded size	Not foldable
	Wheelbase	1190mm
	Ground clearance	150mm
	Wheel hub	20 in
	Net weight	39.2KG
Performance	Max Load	120 kg (or 264.55 lbs)
	Riding speed	25 km/h
	Max speed	25 km/h
	Range in Throttle Mode	72 km
	Range in Pedal Assist mode	80± km
	Hill climbing capacity	15 degrees
	Operating temperature	-10°C - 45°C (or 14°F - 113°F)
	IP rating	IP54

SPECIFICATION

Core	Battery type	18650 Lithium-ion Battery
	Battery capacity	18.2 Ah
	Battery rated voltage	48V
	Charging voltage	DC54.6V
	Charger input voltage	AC100-240V
	Charging time	8-9 hours
	Motor type	High-speed motor
	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	NO
	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.



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Supports one-click device pairing, real-time data display, usage record storage, and product management.

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