



**D2-5000W**

**User Manual**

## Foreword

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Dear users:

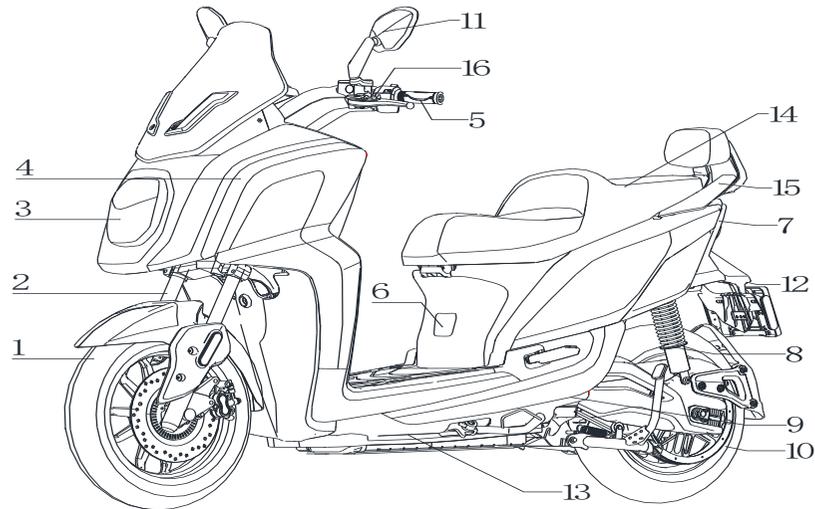
Thank you for purchasing our products. Our company and employees would like to give our sincere welcome and thanks for your choice. This Manual is mainly about the safety precautions, overall structure, operating instructions, inspection, maintenance, and repair. The Manual also contains some important safety information and skills for motorcycle driving. Please read the Manual carefully to understand the performance and characteristics of the motorcycle. Only ride after you know the instruction of the product; Due to the continuous improvement of product functions, design upgrades, and other reasons, the electric motorcycle you purchased may be slightly different from the contents described in this Manual. The actual product is subject to change without notice.

## Tips for Safe Riding

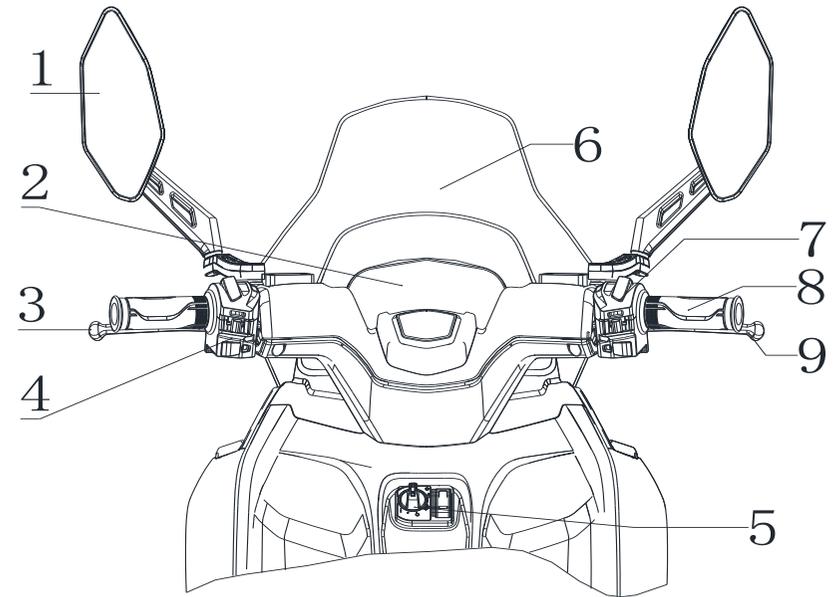
For your safety to prevent accidents, read and comply with the following safety precautions and relevant laws and regulations, and be a responsible motorcycle owner.

1. The motorcycle driver shall pass the examination of the traffic management department and obtain a driver's license before driving the motorcycle. It is strictly prohibited to drive a motorcycle without a license.
2. Only use the motorcycle after carefully reading the instruction manual and understanding the motorcycle's performance. Laying the motorcycle to people with no driver's license and unfamiliarity with the motorcycle's performance is strictly prohibited.
3. The motorcycle driver should carry people or items under laws and regulations. Overloading is strictly prohibited.
4. Ensure you are in good health and not tired to control the motorcycle in a good state. Do not ride the motorcycle after taking drugs, medicines, or alcohol.
5. To ensure your safety, please wear a helmet, gloves, and other protective gear while driving. Please do not wear loose clothes. Otherwise, it will make driving uncomfortable and unsafe.
6. Please slow down the motorcycle. It would help if you used cadence braking techniques to stop the motorcycle slowly to prevent a skid.
7. In the case of rainy and snowy weather or bad road conditions, the braking distance may increase, and falling over is prone to occur. In this case, the braking distance increases correctly to ensure safety, and turn on the headlights when driving at night.
8. If the water depth exceeds 10 cm, forcibly riding through the water may cause a short circuit of the electrical components and lines of the entire motorcycle, so please pay attention and be careful.
9. Do not hang objects on the handlebar when riding a motorcycle. Otherwise, they may get drawn into the wheels and cause the motorcycle to fall over, resulting in injuries to the rider.
10. Please avoid using third-party accessories or disassembling, cracking, and modifying them yourself. The losses caused, as a result, shall be borne by you, and our warranty will be invalid.
11. Riders shall abide by traffic laws and regulations and pay attention to safety on the road.
12. Do not park the motorcycle in the building foyer, evacuation stairs, aisles, and safety exit.
13. Do not charge or park the motorcycle in residential buildings; keep away from combustible when charging the motorcycle.

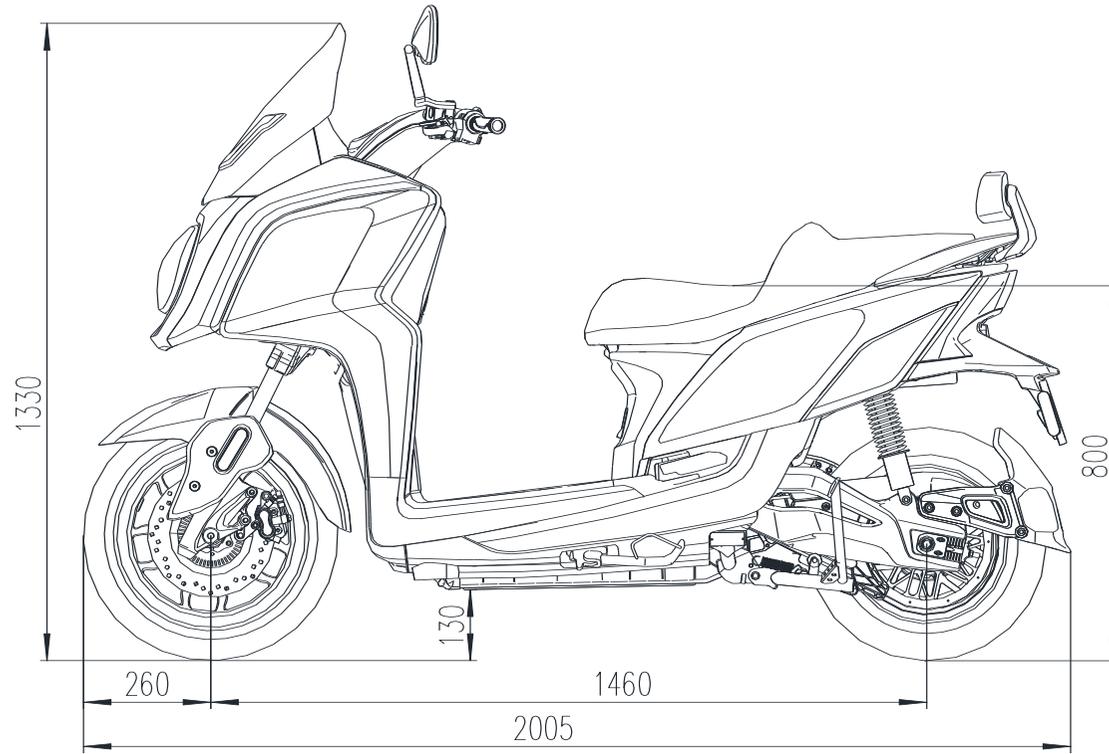
## Overall Motorcycle Structure



- 1、 Front tyre
- 2、 Front shock absorber
- 3、 Front headlight
- 4、 Front turn signal/daytime running light
- 5、 Handlebar
- 6、 Charging hole
- 7、 Rear tail light
- 8、 Rear shock absorber
- 9、 Motor
- 10、 Rear tyre
- 11、 Mirror
- 12、 Rear licence plate light
- 13、 Li-ion battery
- 14、 VIN number
- 15、 Rear rack
- 16、 Rear brake lock

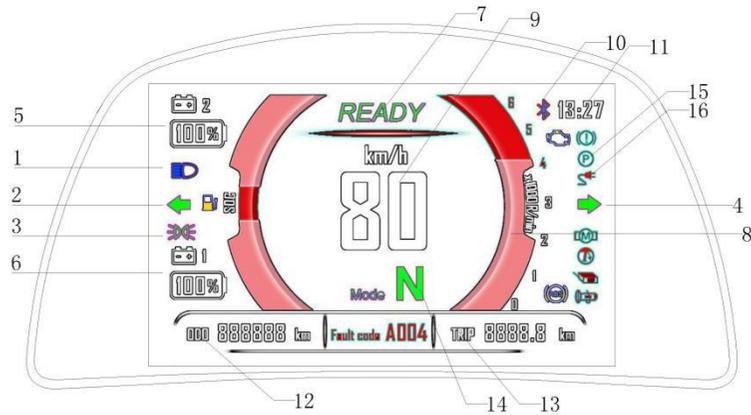


- 1、 Mirror
- 2、 LCD meter
- 3、 Left brake handle
- 4、 Left handlebar switch
- 5、 Lock
- 6、 Windscreen
- 7、 Right handlebar switch
- 8、 Speed governor
- 9、 Right brake handle

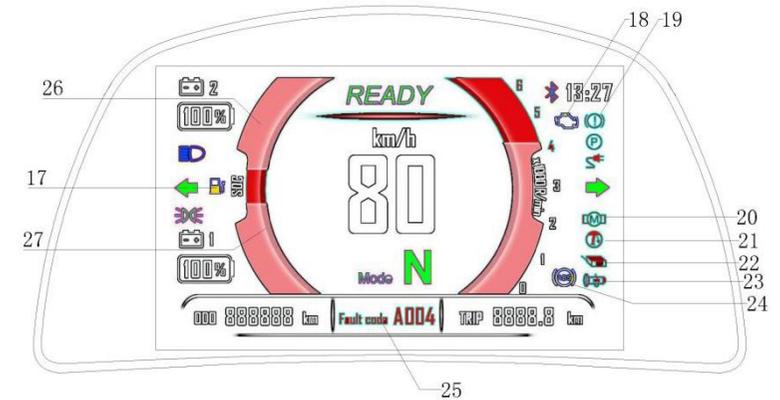


## Operation Instruction

### 1> Instrument Panel



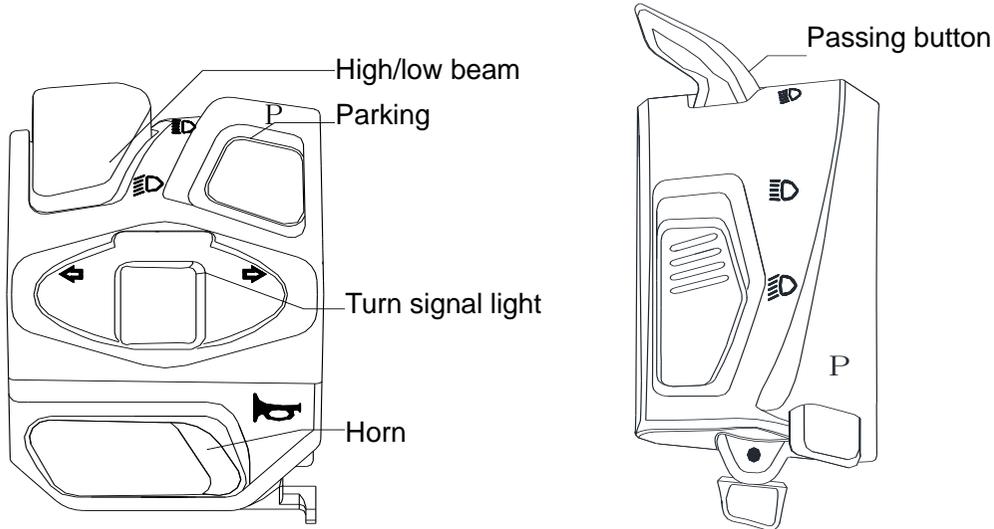
- 1、 High beam indication
- 2、 Left turn
- 3、 Light indication
- 4、 Right turn
- 5、 Battery 2 charge indication
- 6、 Battery 1 charge indication
- 7、 Drivable mark
- 8、 Motor speed
- 9、 Speed/Parking (P)
- 10、 Bluetooth connection
- 11、 Time
- 12、 Total mileage
- 13、 Subtotal mileage
- 14、 Gear
- 15、 P mode
- 16、 Charging connection



17. Charging indicator
18. OBD failure
19. Handbrake
20. Motor failure
21. Kickstand
22. Motor overheated
23. Twist throttle accelerator failure
24. ABS failure
25. Failure code
26. Battery 2 power level
27. Battery 1 power level

## Operating Instructions

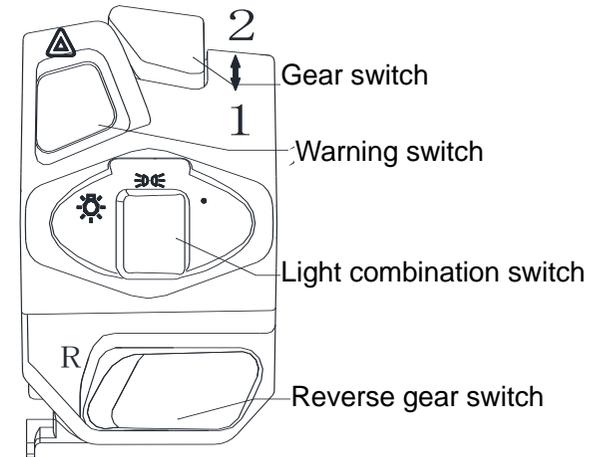
### 2> Left handlebar switches



### Left Handlebar Switches

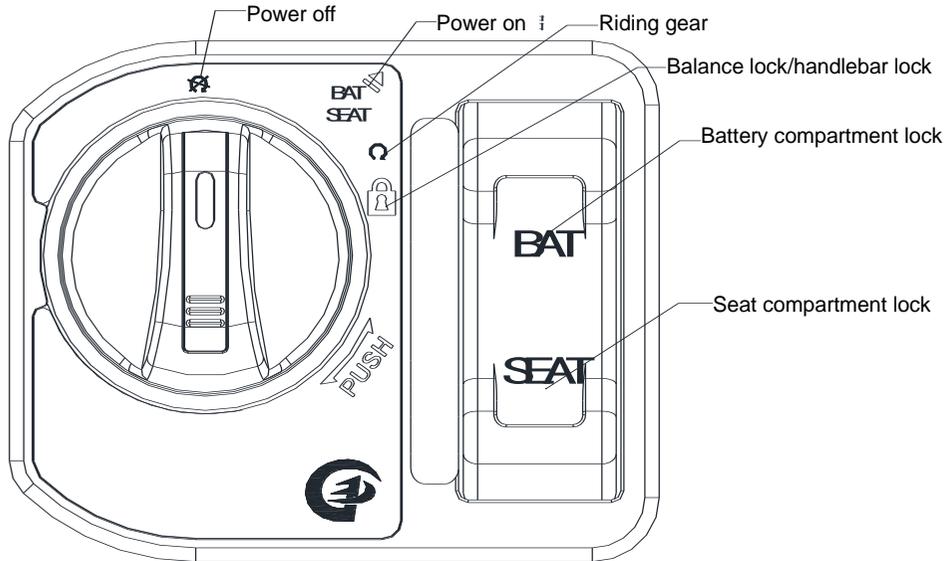
- **High/low beam switch:** after turning on the main switch on the right handlebar, press forward to turn on the high beam and press backward to turn on the low beam.
- **Turn signal light switch:** Push the switch to the left or right to turn on the turn signal light at the corresponding side and give out a continuously flashing orange light signal. When the switch is reset to the middle position, press the button to turn off the turn signal light. Meanwhile, the green turn signal indicator on the speedometer will be on.
- **Horn button:** press the horn button to honk the horn.

### Right Handlebar Switches



- **Light combination switch:** push the switch left or right to turn the corresponding light on “” or off when the power is on.
- All lights are off, the position light “” is on, and the front position light, tail light “”, and license plate light are on and headlight on.
- **Gear switch:** divided into two gears: 1 for low-speed gear; 2 for high-speed gear
- **Reverse gear switch:** press and hold this switch, slowly twist the throttle grip, and the motorcycle will move backward.
- **Warning switch:** press this switch, and the turn signal lights will flash.

### 3> Power Switch and Remote Control

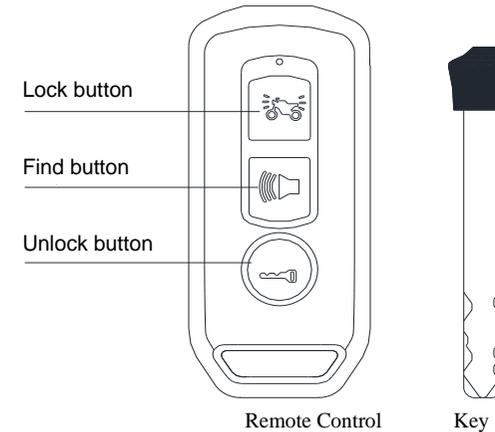


**Power off:** when the knob is turned to the upright position, the motorcycle's power is turned off, and the key can be removed.

**Power on:** when the knob is turned to  position, the motorcycle's power is turned on. The battery compartment and the seat compartment can be unlocked.

**Riding gear:** when the knob is turned to  position, the motorcycle is ready to go.

### Instructions for Using the Remote Control



**Unlock button:** press the Unlock button to exit alert mode.

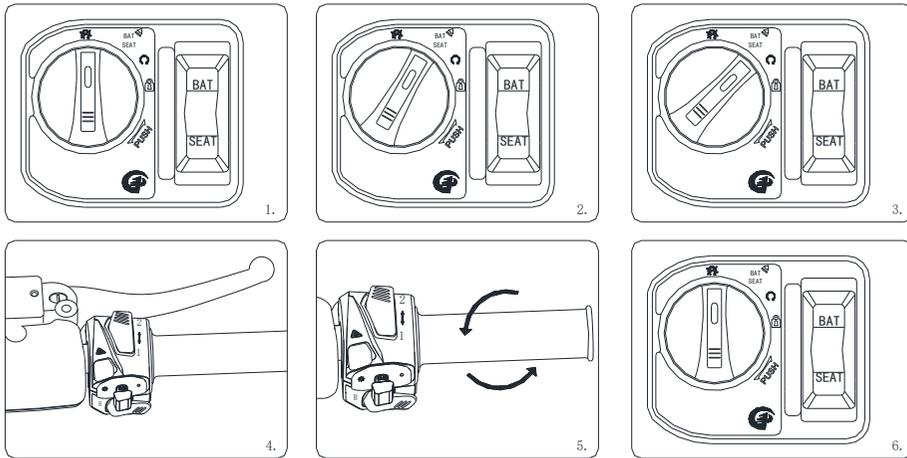
**Find button:** after pressing the finding button, the light of the motorcycle system will be on to indicate the location.

**Lock button:** after riding, press the lock button, and the motorcycle will be locked. The light will be on when any button on the remote control is pressed, indicating that the remote control is usually working.

 Before using a remote control, please ensure that the battery has been correctly installed on the motorcycle. The distance between the remote control and the motorcycle shall be <50 m.

**Key:** when the remote control fails or the battery is dead, the user can directly take out the key in the remote control and insert it into the lock hole to turn on the power.

## Instructions for Starting and Riding



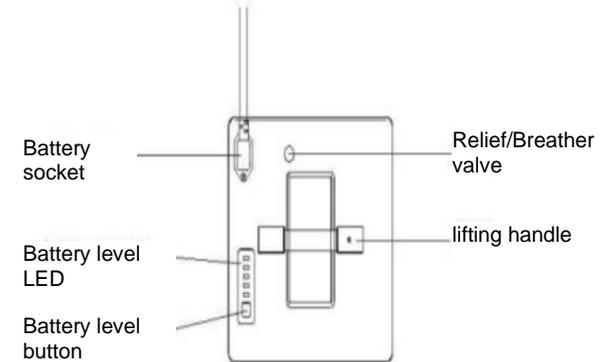
- Power off: turn off the power, and the key can be removed.
- Power on: insert the key into the power lock hole, and turn it clockwise to the position to turn on the power, then the key cannot be removed.
- Riding motorcycle: turn it clockwise to the position, then the motorcycle is ready to go.
- Gear position: if the motorcycle is in a ready-to-go state, shift the gear position to the first gear (low-speed gear), the second gear (high-speed gear), or the R gear;
- Slowly twist the throttle grip with your right hand to start your riding journey.
- When the motorcycle stops, turn it counterclockwise to the position to turn off the motorcycle power supply.

### Motorcycle Start Mode

- Start mode I: insert the key into the power switch and turn it clockwise to the position to turn on the power, and the motorcycle is ready to go.
- Start mode II: take the motorcycle remote control with you. Press the button, the power lock solenoid valve is unlocked, the light is on, and then turn the knob to turn on the power to make the motorcycle ready when the remote control is about 1 meter away from the motorcycle.
- Start mode III: press unlock button of the motorcycle's remote control, the power lock solenoid valve opens, the light is on, and then turn the knob to enter the riding gear.

## 4 Battery and Charger

### 4.1 Battery



### 4.2 Battery Level Indicators

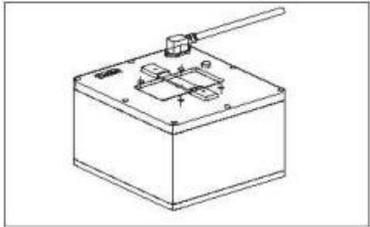
In the charging state, they indicate the power level of the battery. The indicator displays the highest battery level blinks. When the battery is fully charged, all the indicators are always on and no longer flash. When charging is completed, all the lights will be off.

- When the battery is not being charged, press the battery level button to display the current battery level (a total of 5 indicators, each indicator represents 20%)
- In the normal state, press the battery level button, and the indicator will show the battery level.
- Press the battery level button. If all the indicators are on at the same time, it means that the battery is faulty. Don't hesitate to get in touch with the local dealer for consultation.

**Note:** The 60V40AH ternary lithium battery is used as an example. The actual model may vary. The difference specifications may be different from this diagram.

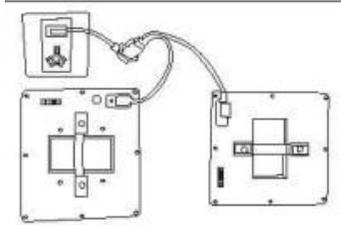
he actual model may vary.

**4.3 The motorcycle provides you with two charging modes, i.e., external charging and complete motorcycle charging, which is optional for your convenience.**

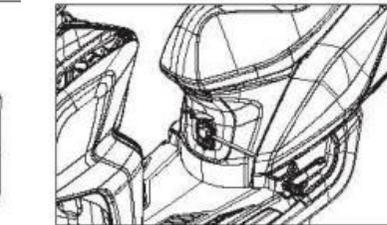


External charging mode  
(one-to-one charging)

Take the battery out, insert the charger's plug into the battery connector, and insert the AC220V charging terminal into a household outlet for external charging. The battery level indicators will be on, showing the highest battery level will blink.



External charging mode  
(one-to-two charging)



Motorcycle body  
charging mode

Insert the battery charging plug into the motorcycle charging port, then insert the AC220V charging terminal into a household outlet. The charging screen will be on and displays the battery level in real-time.



First, insert the battery plug of the charger into the socket interface, and then plug the charging AC220 V terminal into the household socket for charging.

**Before Using the Battery**

Please confirm the batteries model is the original from Dofern that was shipped with the motorcycle before use, and do not use other brands or other types of battery.

- Check if the appearance of the battery is intact, and ensure that there are no apparent phenomena such as damage, heating, water immersion, or smoke coming out.
- To ensure transportation safety, the battery power level is about 50% before shipping. Due to self-consumption factors such as transportation and storage cycles, the power is low, or there is no power when you use it for the first time. That is a normal phenomenon. Please don't worry. Just charge according to the charging instructions.



Used batteries shall not be disassembled without authorization and shall send to relevant professional organizations for recycling.

**Battery Usage Environment**

- Please use it at a temperature of  $-10\text{ }^{\circ}\text{C} \sim 45\text{ }^{\circ}\text{C}$ .
- Please avoid placing the battery close to a heat source, open flame, and flammable and explosive gas (liquid).
- Please prevent the metal foreign body from entering the battery pack.

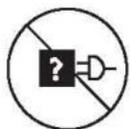
In the case of low temperature, the battery's usable capacity will have different degrees of attenuation, and the specific reference degree: the functional capacity is 70% at  $-10\text{ }^{\circ}\text{C}$ , 85% at  $0\text{ }^{\circ}\text{C}$ , and 100% at  $25\text{ }^{\circ}\text{C}$ . If the battery has a peculiar smell, heat, deformation, and other abnormal conditions, please stop using it immediately, stay away from it, and contact your local dealer.

The battery is a non-serviceable part for the user. The individual bears any risks arising from that place and may cause the battery to generate heat, smoke, fire, or explosion. If any abnormal behavior occurs, please get in touch with the local dealer for inspection. Dismantling the battery without permission will cause an invalid warranty.

### Notes for battery use

- When you use the battery for the first time, please run down the battery as much as possible, and then charge it fully. It will be better to use it 2-3 times to ensure that the actual capacity of the battery and meter are more accurate.
- After the first time, try to keep the battery level not less than 20%, and charge it timely, which can extend the battery cycle life.
- With the increase of battery use frequency, the actual capacity of the battery and the battery level indicator on the meter will be incorrect. Please fully charge and discharge the battery regularly (no more than 3 months). The internal battery and intelligent system can automatically calibrate the power to improve the experience.
- When riding normally, it is recommended to use low-speed gear, start slowly and twist the throttle grip slowly to accelerate gradually, which can extend the range.
- It is recommended to check power plug of the battery every two months to confirm whether there is carbon deposit and blackening caused by oxidation on contact reed. If yes, please go to the local dealer for inspection.
- Keep the battery from raining or water flushing, do not soak the battery in water. Do not ride the vehicle when the water level is beyond the bottom of battery compartment. Otherwise it may cause the water to get into the battery, internal short circuit, and permanent battery failure. In this case, it is strictly prohibited to charge the vehicle or the battery. Otherwise, it will cause the battery to catch fire, burn and explode.

### Notes for charging use



Please confirm that the battery model is the original one before use



Please keep it at the ambient temperature of 0 °C-35 °C



Do not let charging time exceed more than 12 hours

Do not use other brands or other types of batteries for charging the battery.

- The power level rises faster in the early stage of charging and slower in the later stage, which is the procedure set for charging safety and is normal.
- When you charge the battery in winter, the outdoor temperature is low, and when the environment is below 0 °C, the charging process is slow, which is normal. Please place the battery in a suitable ambient temperature for charging to ensure charging effect.
- During the charging process, some chargers with aluminum shell may have temperature rise effect, and the surface temperature is high, which is a normal phenomenon. Please rest assured to use it. Please keep the children from touching it.

### Notes for using charger

- Charger is limited to indoor use. During the charging process, the charger and the line shall be strictly prevented from being exposed to rain or water.
- When charging the battery, plug the battery connector first, then plug charger power connector to household outlet; When it is fully charged, please cut off the charger power connector and pull out the battery plug.
- During the charging process, if the indicator is abnormal, the odor appears or the charger casing overheats, the charging should be stopped immediately. The charger should be repaired or replaced.
- Do not disassemble or replace the components in charger by yourself.
- Never charge the battery in a confined space, under direct sunlight or high temperature environment. The charger must not be placed in the seat compartment.
- When replacing the charger, it shall be matched with the battery model.

### Storage environment

- Please store the battery at an ambient temperature of 0°C to 25 °C. Do not store the battery in an environment above 40°C. Otherwise it will cause irreversible capacity decay of the battery. If the vehicle is not used for a long time (such as in winter, summer or other special circumstances), the battery shall be taken out and stored separately, and shall be maintained and charged regularly. Otherwise, the battery capacity may be completely exhausted, resulting in irreversible damage. For such problems, battery failure will not be covered in warranty agreement.
- The most suitable storage power of the battery is 50%. If the capacity is lower than 10% or higher than 90%, long-term storage will result in irreversible capacity decay of the battery.

For self-power consumption protection mode for the safe storage of lithium battery, the technical standards are as follows:

**(1)** If it is not used for a long time and stored in the vehicle (without unplugging battery plug), the safe period is up to one month. Otherwise, it may cause battery to be under voltage and the problem cannot be fixed. **(2)** If it is not used for a long time, store it with no less than 50% power or put it in the vehicle (unplug battery plug), the maximum safety period is 3 months. Otherwise, it may cause battery to be under voltage, and the problem cannot be fixed.

Avoid storing the battery in a location where there is a risk of dropping it, as dropping may cause uncontrollable damage to the interior of the battery and may result in heat, smoke, fire or explosion of the battery.

Battery low voltage and under-voltage caused by the above improper use are not covered by warranty agreement.

### Safe Driving Tips and Precautions

Please read the following daily driving precautions carefully and ensure safe and correct driving.

- For your safety, it is strongly recommended to wear a helmet, and you must know the traffic laws to drive safely.
- When riding, for example, check the motorcycles on your left, right, and behind you before changing lanes to ensure you pass safely. Don't rely on your rear-view mirrors alone, you should enable to judge the distance and speed of other motorcycles, or you will be vulnerable to a crash.
- When climbing steep slopes, using the high-speed gear increases the motor output torque to avoid overloading the motor overload.
- When descending a long ramp, use the throttle grip to control the motorcycle speed. The front and rear auxiliary brakes should be used.
- When driving in wet terrain, please try to use the throttle grip to control the motorcycle speed and reduce the braking force of the front and rear wheels. The throttle grip should also be appropriately used to avoid the rear wheel over-accelerating or decelerating, causing the motorcycle to skid.
- Driving at a steady speed and avoiding unnecessary acceleration ensures personal safety, reduces power consumption, prolongs the motorcycle's service life, and reduces noise.
- When driving on wet or soft roads, the mobility of motorcycle may be reduced. In these environments, your real driving action should be coordinated and flexible, such as sudden acceleration, braking or turning, etc., which can cause the motorcycle to lose control.

### Precautions for Parking the Motorcycle

1. Turn off all lights and power switches when the motorcycle stops completely.
2. Using the front and rear brakes simultaneously when stopping is recommended.
3. The rider should stand on the left side and put down the kickstand on the flat ground when parking.
4. When you leave the motorcycle, please ensure to lock the anti-theft remote control and take it away to prevent loss caused by theft.
5. Turn off the power switch when you get off the motorcycle and push it, thus preventing accidents caused by the sudden start due to unintentional rotation of the speed governor during the push.

Please check the motorcycle components before riding. If there are any problems, please go to the dealer for an inspection in time.

- Check the status of the power circuit, light lighting circuit, etc.;
- Check if the front and rear handlebar work normally;
- Check the fixation of the handlebar and front and rear wheels;
- Check the air pressure of tires;
- Check the reflector for damage or contamination.

## Failures and Troubleshooting

Problems	Possible Causes	Recommended Solutions
Nothing displayed on the meter and speed control does not work when powered on	<ol style="list-style-type: none"> <li>1. The power plug and battery socket are loose or not plugged firmly</li> <li>2. Power lock switch is damaged or poor contact of connector</li> <li>3. Circuit breaker is not turned on</li> <li>4. Fuse is burned out</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect power plug to battery socket firmly</li> <li>2. Replace the power lock or connector</li> <li>3. Open the breaker</li> <li>4. Replace the fuse of the same model</li> </ol>
The meter works normally but speed control does not work when powered on	<ol style="list-style-type: none"> <li>1. Battery voltage is too low</li> <li>2. Throttle grip is damaged or loose</li> <li>3. Left or right power-off brake lever failure</li> <li>4. Controller or motor failure</li> </ol>	<ol style="list-style-type: none"> <li>1. Fully charge the battery</li> <li>2. Replace the throttle grip or clamp it</li> <li>3. Replace power failure brake lever</li> <li>4. Repair or replace the controller or motor</li> </ol>
The motor fails to start when you twist the throttle grip with power turned on	<ol style="list-style-type: none"> <li>1. motorcycle is braked</li> <li>2. The motorcycle is in parking and neutral state</li> </ol>	<ol style="list-style-type: none"> <li>1. Check if brake levers are in brake status</li> <li>2. Toggle the switch to low-speed gear position</li> </ol>
Insufficient cruising range after single charging.	<ol style="list-style-type: none"> <li>1. Battery undercharge</li> <li>2. Insufficient tire pressure</li> <li>3. Too many steep slopes, strong headwinds, frequent braking and heavy load</li> <li>4. Battery aging or normal attenuation</li> <li>5. Frequent use of high-speed gear</li> <li>6. The ambient temperature is too low and battery capacity is reduced</li> </ol>	<ol style="list-style-type: none"> <li>1. Fully charged the battery or check whether charger plug is in bad contact or charger damage or not</li> <li>2. Check the tire pressure before use each time</li> <li>3. Avoid frequent braking and control load condition</li> <li>4. Replace the battery</li> <li>5. After using high-speed gear, switch back to low-speed gear for riding</li> <li>6. It is a normal phenomenon</li> </ol>

Problems	Possible Causes	Recommended Solutions
The battery unable to charge	<ol style="list-style-type: none"> <li>1. Charger plug is loosely connected to the battery socket or needs to be plugged in correctly</li> <li>2. Battery pack wiring is disconnected</li> <li>3. The battery temperature is too low</li> <li>4. The battery temperature is too high</li> </ol>	<ol style="list-style-type: none"> <li>1. Check whether the charger plug and battery socket are connected firmly</li> <li>2. Check whether the plug is loose</li> <li>3. Wait for the battery to return to charging temperature</li> <li>4. Wait for the battery to return to the charging temperature</li> </ol>
USB charging failure	<ol style="list-style-type: none"> <li>1. The plug is not plugged in properly</li> <li>2. Properly</li> <li>3. The USB cable does not conform to the mobile phone standard.</li> <li>4. The USB charger is damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Check if the USB plug is plugged in properly.</li> <li>2. Please purchase a connection cable that meets the mobile phone standard.</li> <li>3. Contact the local dealer</li> </ol>

Please get in touch with your local dealer if you have problems that cannot be solved by yourself under the above guidelines. Please do not open the crucial parts alone, or you will lose warranty commitment during the warranty period.

## Motorcycle Failure Code

Type	Identification	Code	Identification	Code	Type	Identification	Code	Type	Identification	Code
<b>Battery failure</b>	Severe over-temperature alarm	B01	Low SOC (SOC<10%)	B26	<b>ABS failure</b>	Power supply failure of sensor	ABS 11	<b>Motor&amp; electric control failure</b>	Low voltage	M01
	Total voltage is too high	B02	Battery voltage difference is high	B27		Coil breakage	ABS 21, 22, 23, 24		High voltage	M02
	Total voltage is too low	B03	MOS temperature is too high	B28		Short circuit or reverse wiring of left front wheel sensor	ABS 31		Overcurrent	M03
	Serious overcurrent	B04	Low SOC (SOC<20%)	B41		Short circuit or reverse wiring of rear wheel sensor	ABS 32		Encoding disk failure	M04
	Cell voltage difference is too high	B05	Battery voltage difference is high	B42		Short circuit or reverse wiring of right front wheel sensor	ABS 33		Drive over-temperature	M05
	Cell voltage difference is too low	B06	Hardware failure of charger	B43		Front wheel speed sensor disconnected	ABS 41		Motor over-temperature	M06
	Insulation resistance is too low	B07	Charger temperature fault	B44		Rear wheel speed sensor disconnected	ABS 42		Module protection	M07
	Hardware failure of BMS	B08	Voltage limit power fault of the charger	B45		Right front wheel speed sensor disconnected	ABS 43		Motor overspeed	M08
	High temperature alarm	B21	Input voltage failure of charger	B46		Left front wheel speed signal is missing	ABS 51		Current sensor is damaged	M09
	Low temperature alarm	B22	Output overcurrent of charger	B47		Rear wheel speed signal is missing	ABS 52		Motor phase loss	M10
	Cell voltage is too high	B23	Charger start fault	B48		Right front wheel speed signal is missing	ABS 53		Throttle failure	M11
	Cell voltage is too low	B24	Communication failure of charger	B49		ABS motor disconnected	ABS 61			
	Overcurrent	B25	Charger battery connection failure	B50		ABS solenoid valve without+12 V power supply	ABS 62			
						The front wheel signal is abnormally increased	ABS 71			

## Lithium Battery Common Faults Diagnosis and Process of Elimination

Problems	Possible Causes	Recommended Solutions
The battery is broken down. The indicators do not come on when the button is pressed	Power depletion	Charging
All indicators blink when the power level button is pressed	Power depletion, battery failure	Charging, contact the dealer for inspection
When driving at a low battery level, such as 5%, the power is off, and the meter is off	Battery depletion, normal	Charging
The central controller and alarm consume power when working. Still, the consumed energy is not included in the calculation of battery level, resulting in a high battery level displayed on the meter, which needs to be corrected	The power consumption of the central controller and alarm is about 5% in 8 hours	Charging
The motorcycle is limited at low-speed gear when running, and the fault continues to exist even after the power is turned off and on again	Motorcycle intelligent central controller and battery BMS failure	Contact the dealer for an inspection
All indicators do not appear or blink when pressing the power level button	Battery storage time is too long, and the battery power will deplete	Please charge the battery so that it will return to normal. Please go to the dealer for inspection if it cannot be changed. The warranty does not cover that the battery has been stored in the motorcycle for a long time, resulting in battery power depletion and under-voltage
The charger is heated during charging	Due to the large internal current with high heat emission during the charging process, the metal aluminum case can effectively conduct heat and prolong the charger's life. However, the external temperature aluminum case is relatively high	If it is in a normal state. Please do not touch it when it charges
Excessive charging time	5 to 7 hours is the average charging time. In the early stage of constant current charging, the power level rises quickly, and in the later stage of regular voltage charging, the power level increases slowly	Normal phenomena
The battery cannot work correctly and the motorcycle cannot start	The motorcycle is soaked in water, drenched in the rain, or waded too deep, causing the water to get into the battery	Stop using it, and please go to the dealer for an inspection. If caused by human factors, it is not covered by warranty
Battery fall and impact caused the shell to be broken and cracked	External use causes damage	Stop using it and go to the dealer for inspection. If caused by human factors, it is not covered by the warranty

## Inspection and Maintenance

### User Self-Check Items

To prolong the service life of the motorcycle and enable it to run safely and comfortably, please inspect and maintain it regularly. If the motorcycle is out of service for a long time, it should also be checked periodically.

Self-Check Items	Items of Inspection
Headlight, turn signal, tail light, brake light, rear license plate light	Check whether it works normally?
Horn	Is the sound normal when honked?
Front/rear brake clearance	Check whether it is loose normally
Front/rear tires	Is air pressure normal, and is there any debris or wear on the surface?
Meter	Check whether all signal lights and indicators are in normal condition
Power lock, seat compartment lock, and battery compartment lock	Check whether they can be opened normally
Rearview mirror angle	Check whether the rear view is clear
Handlebar, fork	Check whether the rotation is flexible, and whether there is looseness or stagnation
Front and rear axles, flat fork axle, and other fasteners	Check whether there is looseness

## Precautions for Cleaning and Using the Motorcycle

- Turn off the power of the motorcycle before cleaning. Do not touch live parts such as battery charging and discharging port with a wet hand or metal conductor;
- Do not pour water directly on the brake, motor, and front and rear axles to prevent water from affecting the life of the motorcycle components;
- Please scrub the motorcycle with tap water and neutral detergent, and wipe the appearance of the motorcycle with a soft cloth after washing the motorcycle.
- Do not use steam or a high-pressure water gun to wash the sides and rear interior battery compartment directly. Electronic components such as the charger and controller are in the side cover above the rear wheel, and please do not flush directly to avoid damage.

### Motorcycle Storage Method

- Please store the motorcycle in a flat, stable, well-ventilated, and dry place;
- Keep the motorcycle from sunlight and rain, which can reduce the damage or aging of parts;
- When using after the long-term storage, please fully charge the battery;
- Please ride after checking that there is no abnormality in all parts. If there is any abnormality, you can go to the local dealer to make an appointment in advance for inspection and maintenance.

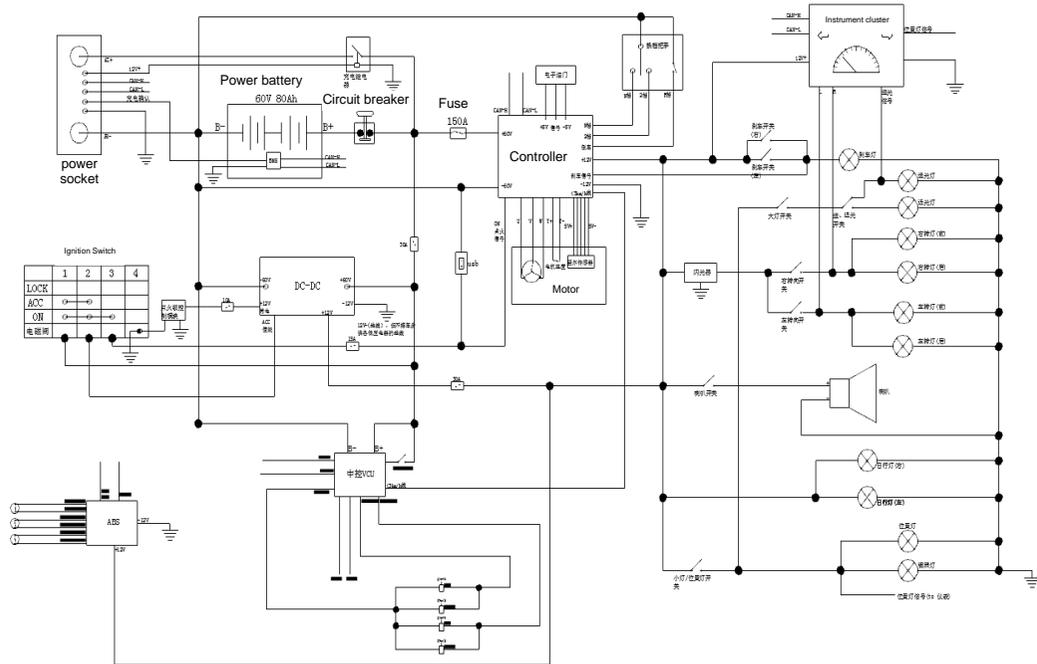
### Logo and Legal Disclaimer

"DOFERN" is a logo applied for registration by the Taizhou Doufeng motorcycle Co., Ltd. in Mainland China. Due to the continuous improvement of product functions, design changes, etc., there may be discrepancies between this manual and the product you purchased, and please refer to the actual product. Nobody can use the above logo marking on the approved merchandise by DOFERN without permission. Also, no organization or individual can reproduce or distribute the entire or any part of this manual without permission.

Product implementation standard: GB7258-2017

# Circuit Diagram and Technical Specifications

Electrical schematic



Technical description:  
 1. 12 V- (ground wire) that is not connected to the ground wire of the low-voltage electric equipment on the motorcycle, but is indicated by

Items	Parameters	Items	Parameters
Model No.	D2-5000W	Motor Type	Centre Motor
Dimension (mm)	2010*770*1330	Drive Mode	Belt Direct Drive
Wheelbase (mm)	1430	Rated Voltage of Motor Controller (V)	60
Seat Height (mm)	780	Motor Rated Output Power (W)	5000
Curb Weight (kg)	125	Controller Undervoltage Protection Value (V)	50
Rated Load Capacity (kg)	150	Motor Configuration	Permanent Magnet Synchronous Motor
Top Speed (km/h)	100km/h	Motor Rated Output (r/min)	3000
Rim Type	Front: MT3.0-14 Rear: MT3.5-12	Rated Torque (N.m)	15
Tires Size	Front:120/70-14 Rear:130/70-12	Climbing Capacity (%)	30
Tire Pressure	Front: 225Kpa Rear: 250Kpa	Brake (Front/Rear )	ABS+Disc Break
Battery Type	Lithium Battery	Operation Mode	Front/Rear: Manual
Battery Capacity (Ah)	40*2	Shock Absorber	Rear/Front: Hydraulic Damping