

VEVOR[®]

TOUGH TOOLS, HALF PRICE

Technical Support and E-Warranty Certificate www.vevor.com/support

Brushless DC motor

Model: JZ48V2000W

We continue to be committed to provide you tools with competitive price.

"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

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NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.



Safety precautions

1.1 Safety advisory warning

Please read carefully before operation.

Be sure to read all safety warnings and all instructions before operating the motor. Failure to comply with warnings and instructions may result in electric shock, fire or serious injury.

If you encounter problems, please communicate with customer service in time to solve, your satisfaction is our service purpose.

1.2 Warning sign for safe operation of motor



1.3 Risk factor

- 1) Mechanical damage
- 2) Get an electric shock
- 3) Extrusion collision
- 4) Object impact
- 5) Other injuries

1.4 Operational considerations and triggers for motor non-work accidents

- 1) Check whether all accessories are connected tightly and not loose, check whether the pins in each plug-in are bent, and visually check whether each interface is consistent with the instructions in the wiring manual and whether the connection is correct. To avoid wiring errors and burning the controller.

2) It is recommended to use lead-acid batteries. Lithium batteries can also work (note that the battery voltage and battery power match the kit power). The recommended battery capacity is 12AH-20AH. The battery voltage needs to be consistent with the motor kit voltage, allowing an over voltage range of +10%. The positive and negative terminals of the power supply must be connected correctly (the positive terminal is connected to the thick line of the controller in red, and the negative terminal is connected to the thick line of the controller in black). Charging the battery and controller creates small arcing and sparks, which is normal for charging.

3) The electric door lock (orange, red) must be connected (you can use the electric door lock, or you can shorten the orange and red wires with wires), this operation is the last step.

4) The accessories outside this kit, which belong to the accessories purchased by you, may not match with the kit and need to be used after matching. Please contact customer service in time to match the kit with each other.

1.5 Precautions and suggestions

All machine operators should be trained and certified in electrical skills.

1) Before opening the box, check whether the package is intact, broken, and whether there is water. After removing the cover, carefully remove dust from the motor.

2) Install in a dry, dust less place;

3) Install in a well-ventilated place;

4) It is installed in a wide and smooth place for easy daily operation and maintenance.

Thank you for your reading, if you still have operational problems, please contact customer service in time, before contacting customer service, please provide clear photos taken by the motor and controller nameplate, provide clear photos and clear videos of the accessory wiring connected to each plug-in of the controller, you need to clearly see the color of each wire and the color of the accessory line. In order to provide you with a more convenient and faster solution.

TECHNICAL INFO

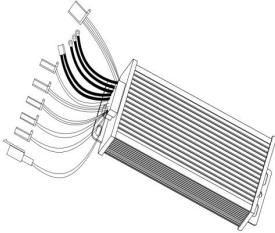
PERFORMANCE PARAMETERS OF JZ48V2000W MOTOR

Parameter	Numerical value
Rated voltage/V (DC)	48
Maximum wattage/W	2000
Rated speed/rpm	4300
Rated torque/N.m	4.8
Rated current/A	35
No-load speed/rpm	5600±10%
Motor efficiency	≥85%
Sprocket number	T8F-9T and T8F-11T
Screw thread	M8 Left-hand tighten thread *1.25*12mm (There is thread glue at the thread, and the disassembly needs to be heated at 80℃ for 1-2 minutes0
Recommended reduction gear ratio	9-tooth/11-tooth:64-tooth
Load weight/kg	≤150
Dimension/mm	134*Ø107*112
Weight/kg	4.61±5%
Scope of application	Small electric vehicles, electric bicycles, electric karts, electric scooters...

PERFORMANCE PARAMETERS OF ZWK4835 CONTROLLER

Parameter	Numerical value
Rated voltage/V (DC)	48
Maximum wattage/W	2000
Rated current/A	35
Brake	Low level brake
Under voltage/V	39
Operating temperature/°C	-25~60
Controller enclosure size/mm	212*87*49(error±2mm)
Controller mounting hole/mm	199*44*Ø6(error±2mm)
Weight/kg	0.63

CONFIGURATION LIST

	
① Brushless DC motor (with footing) X1 PCS	② ZWK4835 Controller X1PCS

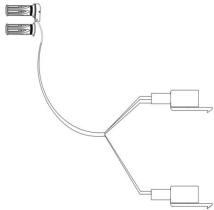
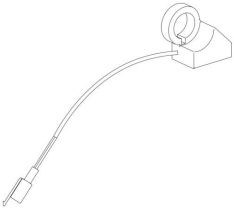
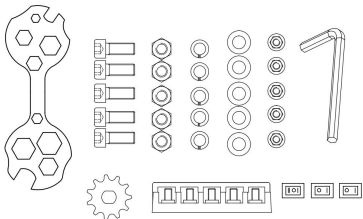
	
③Power display + Handle with electric door lock X1 SET	④Three speed switch X1 PCS
	
⑤Hardware kit X1 set	

Table 1 Product configuration table

Product number	Product configuration
ZLWSDJTJ200013XYAV9	①②⑤
ZLWSDJTJ2000G4RXBV9	①②③⑤
ZLWSDJTJ2000EEQF3V9	①②③④⑤

The specific accessories are subject to the purchased products. If the accessories are not in the list, you need to purchase them by yourself.

Overall dimensions and mounting dimensions

The dimensions and mounting dimensions of the motor are shown in Figure 1.

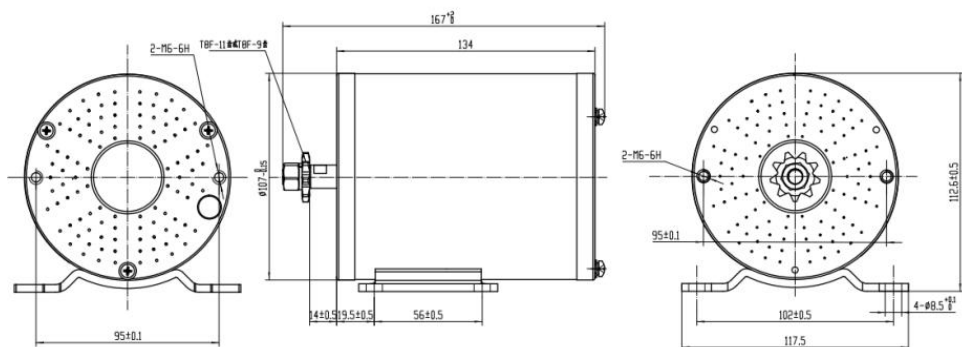


Figure 1 Motor dimensions and mounting dimensions

Install

1. Motor

The A-phase line of the motor lead out main line is blue, the B-phase line is green, and the C-phase line is yellow; The positive pole of the power supply in the signal line of the position sensor (Hall) is red, and the negative pole is black; The A-phase sensor signal line is blue, the B-phase sensor signal line is green, and the C-phase sensor signal line is yellow. The colors on both sides of the motor line are the same, and the motor wiring is shown in Figure 2.

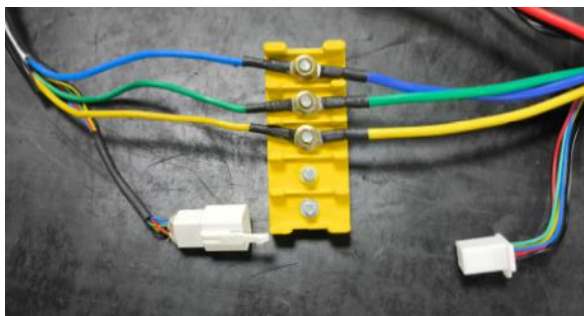


Figure 2 Motor wiring

2. Controller

There are one types of controllers. The functions of each plug-in are shown in Figure 3 below.

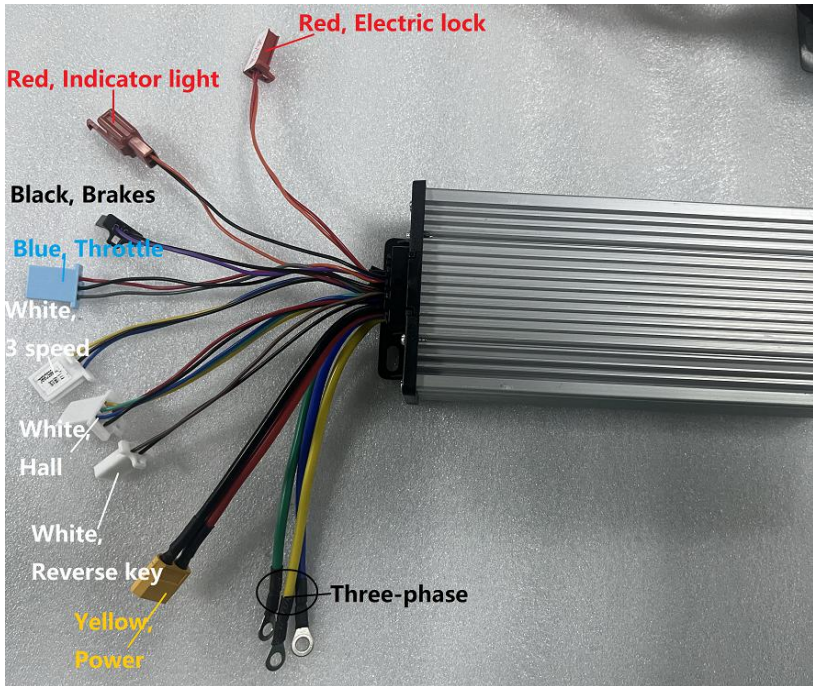


Figure 3 Controller

Controller voltage: DC48-54V

1. Red 48V+
2. Black 48V-

The positive and negative values cannot be connected incorrectly, otherwise the controller will burn out. There will be a slight spark when connected, which is a normal start up phenomenon.



Figure 4 shows the controller cable connections.

3. Attachment

3.1 Handle

Turn the handle line (turn the throttle).

1. Red: +4.3V
2. Black: Ground wire
3. Gray: Signal line

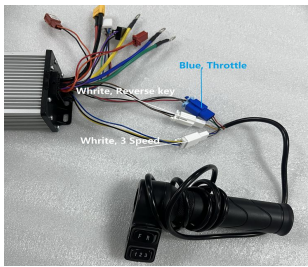
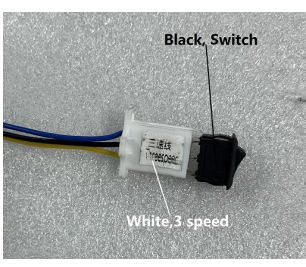
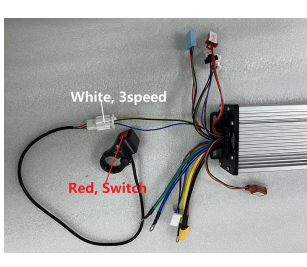
The handle wiring is shown in Figure 5.

		
Handle function	Electric quantity display + electric door lock handle	With three speed + reverse forward handle

3.2Three-speed switch

Three speed switch: default speed 2, short circuit of blue and black lines is 3 speed, short circuit of yellow and black lines is 1 speed.
 There are several ways to connect the three speed switch, as shown in Figure 6.

Fig.6 3 Speed wiring

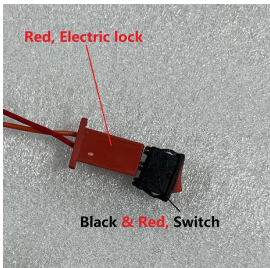
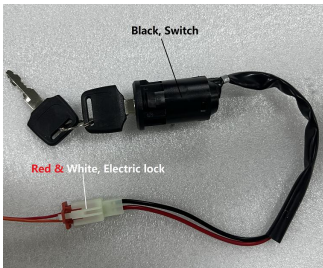
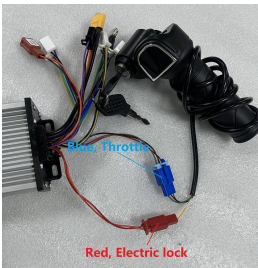
		
1. Comes with 3 speed function	2. 3 foot switch controls 3 speed	3. 3 speed switch controls

3.3 Electric door lock

Electric door lock: 1. Red: p+ 2. Orange: VCC
 The electric door lock must be kept normally open, or the red and orange lines

must be connected by a short circuit. Electric door lock wiring has the following types, electric door lock wiring is shown in Figure 7.

Fig.7 Electric lock wiring

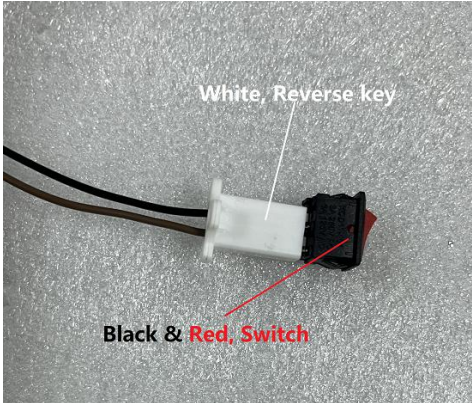
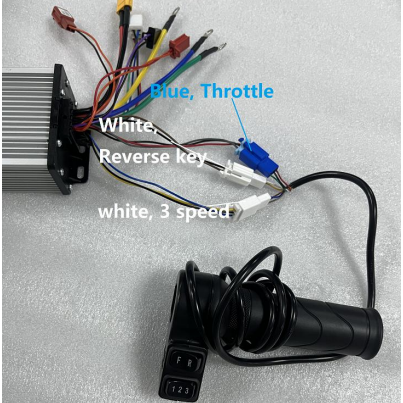
 Red, Electric lock Black & Red, Switch	 Black, Switch Red & White, Electric lock	 Blue, Throttle Red, Electric lock
1. 2 foot switch controls the electric lock	2. The white and red plugs of the electric lock are connected	3. The electric door lock handle

4. Other accessories installation (purchase by oneself)

4.1 Reverse

Reverse: Switch brown and black, reverse speed is 100%. There are the following types of reverse cables. Figure 8 shows the reverse cables.

Figure 8 Reverse cable connection

 White, Reverse key Black & Red, Switch	 Blue, Throttle White, Reverse key white, 3 speed
1. Two-pin switch controls forward and backward	2. Handle with reverse function

4.2 Brake

Brake: Connect the brake to realize the brake power off function. Brake wiring is shown in Figure 9.

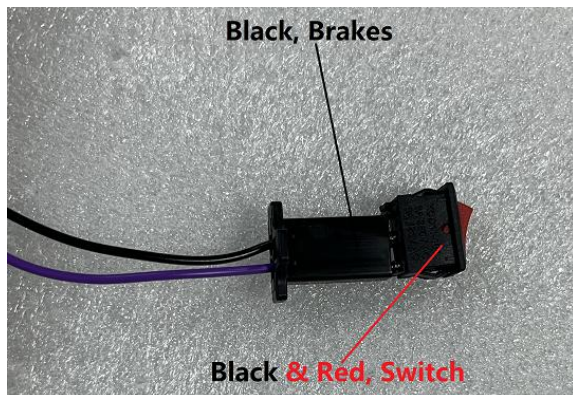


Figure 9 Brake wiring

4.3 Indicator lights

Indicator light: Connected to the battery level display, it can be used as a DC48V voltage output for DC48V to emit light. The positive and negative terminals cannot be reversed. Orange is 48V+ and black is 48V -. The wiring of the indicator light is shown in Figure 10.

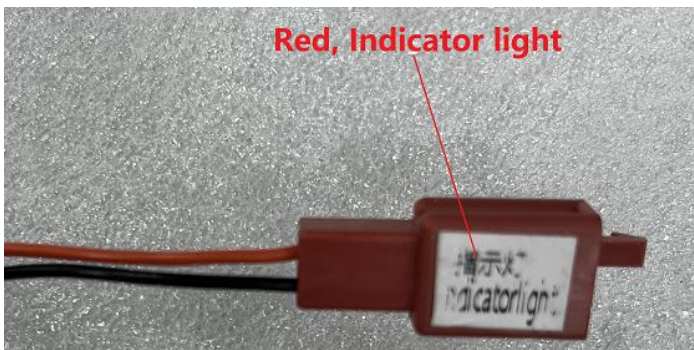


Figure 10 Wiring of indicator lights

4.4 Pedal/accelerator

Pedal/accelerator wire (twist throttle).

1. Red: +4.3V
2. Black: Ground wire
3. Gray: Signal line

The pedal/accelerator wiring is shown in Figure 11.

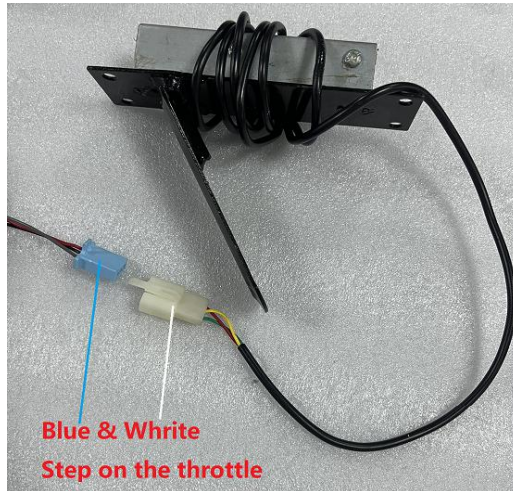


Fig.11 Step on the throttle wiring

COMMON PROBLEMS AND REMEDIES

Phenomenon:

The electronic lock must be opened, When the electronic lock is opened, the throttle is turned and the motor does not work

Reason:

Battery The battery is too low and does not reach the required operating voltage

Solution:

1. Charging ;
2. Select a battery with the corresponding operating voltage ;
3. Check whether each plug-in is connected correctly and whether the connected terminals are connected reliably, so as to avoid failure to work normally due to incorrect connection or poor contact.

CE Comply with the European security certification.

CORRECT DISPOSAL



This product is subject to the provision of European Directive 2012/19/EU. The symbol showing a wheeled bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices.

FCC Information:

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment!

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This product may cause harmful interference.
- 2) This product must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the product.

Note: This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause

harmful interference to radio or television reception,which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the distance between the product and receiver.
- Connect the product to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

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