

### To The GIGA Elebike Users:

We thank you to use our Elebike, and also we congratulate you on having this premium product.

Moreover, your contribution to the environmental preservation is highly appreciated. Therefore, we would like you to read this manual before you use Elebike.

### Warnings & Notices:

1. Please keep bike properly maintained to insure its longevity.
2. Avoid riding the bike on rainy days.
3. Avoid riding on rough roads due to the possibility of tire damage. If the wheel is deformed, controller will no longer work. Avoid drain grates, potholes, ruts, soft road edges, gravel and sand.
4. Before riding, check front and rear brakes to make sure that they are working. Also check bolts, to verify that they are tight. Speeding up or down hills will reduce the efficiency of the brakes. When you want to stop, slow down using both front and rear brakes to avoid losing your balance.
5. Maximum bike speed is 20 miles per hour (33km per hour). Wear a safety helmet and give proper signals when turning left or right.
6. Please avoid riding in evening, rainy days, & etc. If you have to ride the Elebike in the above-mentioned weather's condition, please put on the extra light, reflective light mark on electrical warning light in the bike. And please follow the traffic flow in a straight line close to the curb.
7. The bike is designed for a rider on flat ground whose average weight is below 165 lbs (75kgs). When riding uphill, use your leg power along with the hub motor assist. Also switch gears to save energy, and avoid riding up steep hills.
8. If the bike is unused for any length of time, pull electrical wires from the bike and turn off the power switch (key) on the control box. Take care of your key.
9. Please be careful when plugging in control wires. Wires tangled or plugged in improperly could damage the electrical system.
10. Keep children and objects away from batteries to avoid the danger of burns. Also remember to put plastic cover on plugs to avoid accidental shorting.
11. Do not put any liquids into the charger. It is enclosed in a plastic box which functions to release heat. Only use charger indoors and make sure there is plenty of fresh air and space while charging the battery pack.
12. The battery power in the bike is designed only for our charger. Please check voltage on the socket before charging, and make sure that it is within the range of 10 and 14 volts per 12-volt battery.
13. To avoid theft, lock the bike, turn off the power, and remove the key.

14. Please get accident insurance, ride carefully and respect life.
15. The seat is adjustable.
16. Riding the bike whenever your physical condition is impaired (by alcohol, medicines, etc.) is prohibited.
17. Do not carry heavy objects or people on the bike.
18. Safety comes first, so before you ride on the street, practice riding the bike somewhere away from cars.

## OPERATIONAL MANUAL

### A. Indicator LED (beside the controller key)

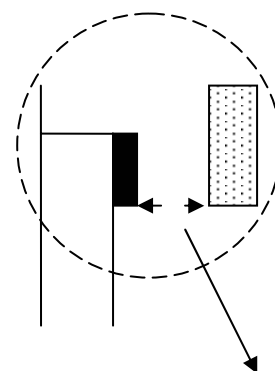
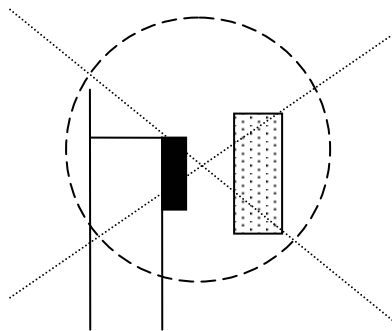
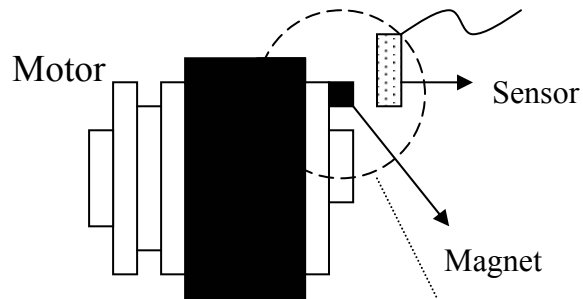
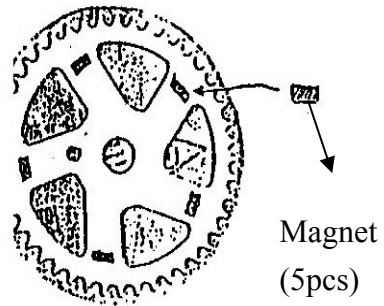
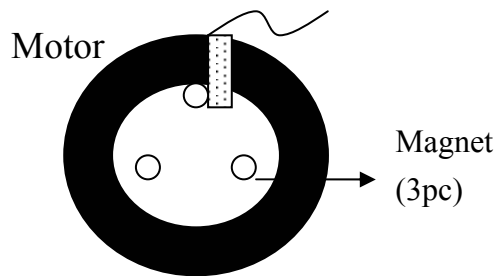
1. Controller: The/it LED indicates that electricity supply is normal.
2. While the bike motor is off:
  - A. Turn on the key. The LED will light up. If the bike is left sitting longer than 5 minutes, the power will automatically shut off. In order to ride the bike, the rider must turn the power on again. (Key: on-off-on)
  - B. If the battery power is low, the LED will be flashing. Please charge the battery regularly to keep it full.
  - C. If the power is low while the bike is running, the LED will start flashing. At this time, it is necessary to charge the battery.
  - D. The front wheel (and pedal sprocket if purchased with pedal assist option) is assembled with sensors. If the sensor is out of order or in the wrong position, the LED will be flashing. If everything is normal, the LED will be off, and then will light up. If the bike has continually been running, then the LED will shut off automatically.
  - E. The LED will let you know.
    - i. If the battery is full or empty
    - ii. If the sensors on the front wheel (or pedal) are out of order or out of position
  - F. If the controller is out of order, please send it to your dealer or distributor for repairs. The warranty is voided if the operator opens the control box.

### B. Front Wheel (or Pedal) Sensors

1. A sensor is positioned on the left front fork and the matching magnet is put on the left side of the hub motor on the front wheel. If magnets become damaged or loose the motor will not run. (Replacement magnets and sensors may be purchased local stores. Simply replace new ones in the same position

as the old ones.)

- The best reactive distance for sensor and magnet is between 2 mm and 5 mm. please refer to the following drawing to position sensor and magnet.



Distance less than 5 mm

### C. Pedal Sensors

1. If your bike is activated by pedaling, then a pedal sensor is positioned on the lower end of the seat shaft and the matching magnets are put on the sprockets of the pedal. If magnets become damaged or loose, the motor will not run. (Replacement magnets and sensors may be purchased at local stores. Simply replace new ones in the same position as the old ones.)
2. The best reactive distance for sensor and magnet is between 2 mm and 8 mm. Please refer to the drawing above to position sensor and magnet.

### D. How To Turn On the Electric Motor

1. Please check to see if the plug from the front wheel motor is loose. To avoid burning out the motor use vinyl electrical tape to separate the two wires.
2. Please use the key to turn the power on and off. Be sure that the electrical wires are plugged in and in the light position before you turn on the power.
3. Push on the pedals to gain speed until you reach the average speed of a pedestrian, at which point the motor will automatically turn on. Don't stop pedaling. One turn of the pedal is typically 3 seconds. The faster you pedal, the faster the motor will go. If you stop pedaling or you spend more than 3 seconds to make one complete turn of the pedal or speed over 24 km/h, the motor will stop automatically.
4. If the speed of the bike is slower than the average speed of a pedestrian, the motor will stop automatically.
5. If the motor is overloading or turned on for a long period of time, it will cut off automatically. After it has cooled down it will start up again.
6. If the battery is low, the motor will stop. The battery needs to be charged as soon as possible. Please do not turn motor on and off. This will damage the battery.
7. Reasons the motor stops working

There are several possible points of failure in the hub motor's electrical system, and careful analysis is necessary to be assured of reliable operation. Following is a list of problems that can cause failure.

- a. The key is not turned on.
- b. The connector plug is loose on the front wheel hub motor.
- c. Sensors in the front wheel or pedal are in the wrong position. The magnet or sensors are loose or damaged.
- d. If the motor stops running for 5 minutes, the controller automatically cuts off.
- e. If the temperature of the motor is too high, it will cut off.
- f. If the carbon brushes in the motor are worn down, it is necessary to replace them.

- g. The plug is loose in the battery case.
- h. The fuse in the battery case is burned out or loose.
- i. The voltage in the battery pack is low.
- j. The battery is getting worn out and needs replacing.
- k. The rider doesn't push the pedal continuously (Pedal assist model)

#### E. Battery

1. The three (or four) Lead-Acid batteries (7AH, 12V x 3pc = 36V or 7AH, 12V x 4pc. = 48V) are connected together.
2. The battery needs to be charged every month, if the battery isn't in use after a long time.
3. The Lead-Acid battery does not memorize its power capacity, therefore it needs to be charged frequently. For long life, after the bike battery is discharged, it needs to be recharged.
4. The Lead-Acid battery has a limited useful lifetime. If a fully charged battery has a riding distance reduced to half that of the new bike, then the electrical power is insufficient and the battery is worn out. Please take the old battery back to the distributor for replacement. For public safety, recycle - do not throw batteries away.
5. To pull out the battery pack, push case bottom first. There is a diagram inside the battery case. Please follow the diagram when rewiring a new set of batteries or plugging them in, to avoid improper use. If you have questions, contact your dealer.
6. There are two fuses (30Ah) inside the battery case. These will short circuit if the electrical plug is in contact with metal or in improper use. If the fuse should cut out, clear the electrical obstructions and replace the fuse.
7. Don't open the battery case if the battery is in use.
8. Please put the plastic protective cover on the plug while it is not in use. Keep battery pack away from children, metals, coins, screws or jewelry.
9. Only use charger which is specified for Elebike's Lead-Acid batteries. Other battery chargers may overcharge and cause damage.

#### F. Charger

Please read instructions for the charger carefully.

##### 1. Instructions for the LED:

There are 6 indicator LEDs

| Power | Light | Instruction for power   |
|-------|-------|---|
| L     | Red   | Lowest power  |
| M1    | Red   | Low power   |
| M2    | Red   | Middle power  |
| H     | Red   | High power  |
| Full  | Green | The flashing light indicates charging – if it stops, the battery is charged. After 48 hours, pull the plug because the battery is full (the charging time is 3 to 5 hour) |

2. While charging, if the Green L~D on the charger doesn't light up for one minute, it means the followings:

- A. The fuse in the battery case is burned or loose.
- B. The plug is loose
- C. The plug of charger doesn't put in proper position or it might be damaged
- D. It's auto cut-off the power while charging, since the temperature is too high.

3. Inside the charger there an overheat protection instrument. When the temperature is too high, the charger will turn off and the LED will also be off. The charger will start again after it has cooled down.

4. Only use the charger indoors with plenty of fresh air. Please keep away from flammable objects. Use only the charger for recharging the battery pack.

5. A void using charger in a hot, humid environment.

6. If charger smokes or has a strange odor, pull the plug immediately to avoid possible fire. Send the charger back to your dealer.

#### G. Tire Air:

1. Rear Wheel: the rider should keep tire pressure between 60 & 70 psi. Do not over-inflate, or the tire may change shape, causing damage to the rim.

2. Front Wheel: Please keep the air pressure between 50 to 70 psi. The tire must keep proper pressure for comfortable riding. If the air pressure is too low, the rider has to push the pedals harder.

#### H. Guarantee and Maintenance

1. According to the Guarantee, the rider of Elebike is qualified to get quality proof and maintenance service.

2. Within the period of the guarantee for Elebike, if your bike is out of order and you

have followed the riding instructions, you can apply for service from your dealer.

3. During the guarantee period the dealer will provide free service for the hub motor, controller, and charger, as long as the rider has followed the instruction manual. However, the dealer will charge a fee for service if the bike is damaged by the owner.
4. The batteries and the other spare parts of the bike, such as tires, light bulbs, basket, steel wire, spokes, bell, reflector, saddle, pedal, brake cover, etc., are not included in the guarantee. However, the dealer will give the user the best possible price for special maintenance services.
5. The user is asked to return to the dealer for maintenance every six months, which includes: clean dust in the motor, replace carbon brushes, check the bike's condition, add more lubrication, etc.

## MAMUAL

### A.

- (1) Put Fork Sensor on the Fork, and try to make it fixed. We use the screws and board connected to Fork Sensor, which could help to fix the position of Fork Sensor. (Caution: If file Fork Sensor is still movable on the Fork, this may cause the computer unable to investigate the speed of bike, therefore, the motor is unworkable. According to our experience, one of the reasons the Elebike couldn't have "power on", since the Fork Sensor is not fixed well on the Fork, and then Sensor is unable to have reaction with Magnet, thus, the Motor could not work.)
- (2) The method to position the Fork Sensor is as same as the Frame Sensor.
- (3) It is strictly demand the correct position for Sensor and Magnet; otherwise, it would cause file. Motor unworkable frequently. The correct position should be the following:

The best reactive distance for Sensor and Magnet should be like the left picture. If file reactive distance is too far away or Magnet is put in the middle of Sensor, which will make the Motor unworkable.

### B. The conditions to make Elebike work:

- a. Continuously to push the Pedal, and to make it start working, until the speed of Front Wheel reaches to 4 Km per hour, the Motor will automatically run by itself. But when the speed of Front Wheel is over 24 Km per hour, the Motor will be auto cut-off. And if you want to make the speed gets over 24 Km per hour, you have to push the Pedal by yourself.
- b. If the Pedal stop working, the Motor will be auto cut-off. But If you push the Pedal, the Motor will start working again.

## GIGA 2001 MR User Manual

- \_ Please tight the battery set on rear carrier and connect cable of the battery.
- \_ Turn on the switch on the handle.
- \_ Sit on scooter and using one foot to push scooter, and then turn the throttle slowly.
- \_ when motor works, put your feet on step bars.

### Remarks:

- \_ when LED is sparkling, the battery is going to run out. Please recharge battery.
- \_ when stop for over 5 minutes, the power will cut off automatically. You need to turn the switch on again.
- \_ Scoobike only fits for a flat ground, please be noted.