



GOLDENMOTOR PROKIT 901/902 TECHNICAL MANUAL

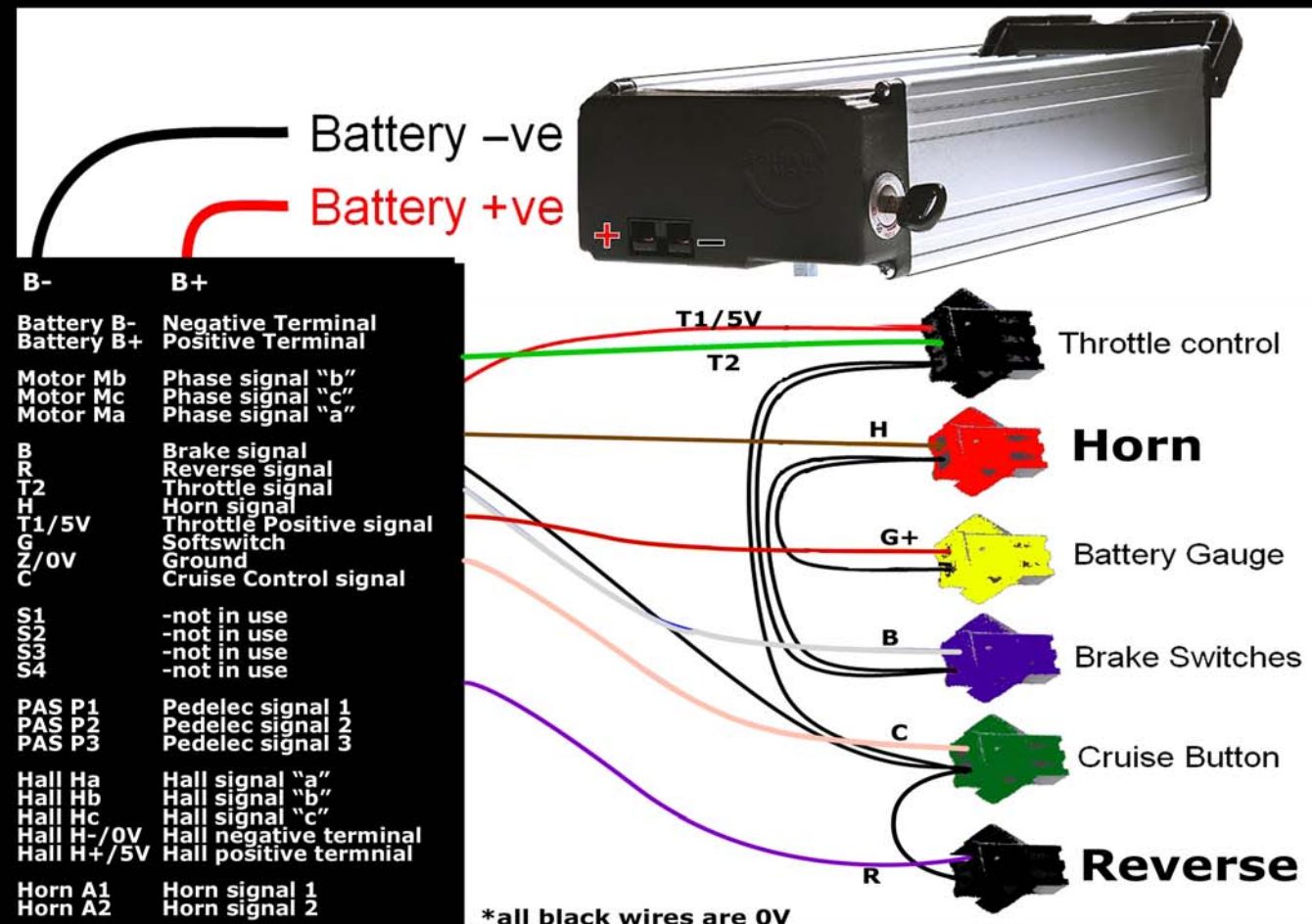


Mechanical Installation:

- 1) Unpack everything.
- 2) Install the motorized wheel onto your bicycle frame.
- 3) Tighten the axle bolts and make sure they are really tight.
- 4) Install all the Electronic controls onto the handle bars: brake levers, throttle, cruise control.
- 5) Install the rear rack onto the bike frame.
- 6) Take the controller out and all the wires needed.
- 7) For full details on Manual installation, please refer to the GoldenMotor forum installation guide.



Wiring Diagram



How to Enable/Disable these Functions/Features?

1. Cruise speed control:
Pressing the cruise control button will make your eBike maintain the speed you are currently at. Squeezing the brakes or pressing the cruise control button again will disable it.
2. Motor hall-sensor malfunctions:
When the controller detects a motor hall-sensor failure, it will beep twice before automatically entering into sensor-independent control mode. Twist/press the throttle to run the motor and pedal your bike for a push start if the motor does not operate. (This malfunction seldom happens in a state of sensor-independent control status)
3. Throttle malfunctions:
When the throttle fails to function correctly, the controller will beep three times. In this situation, press and hold the cruise control button to drive your bike at half the maximum speed. The controller will automatically return to its original status when the problem is resolved.
4. Power-brake lever malfunction:
If the power-brakes level malfunctions (i.e. disconnected from the controller), twist/press the throttle repeatedly for at least four times. The controller will then beep four times if this malfunction is detected. Similarly, press and hold the cruise control button to drive your bike at half the maximum speed. The controller will automatically return to its original status when the problem is resolved.
5. Unknown malfunctions:
If your eBike fails to move and the cause is unknown or if your battery is low, you can force your eBike to work. While squeezing the power-brakes, press the cruise control button five times and if you hear the honk from your horn, press and hold the cruise control button again and you can drive your bike at half speed. You will need to turn off the battery power to reset the controller back to normal mode after the problem is resolved.
6. Anti-theft alarm setting:
Cut off power supply to motor (called soft-switch, but controller is still powered on) and take out the battery key, within 10 seconds press and hold the cruise control button until you hear a beep sound, then release the cruise control button. The vehicle is now protected from theft and the motor is electronically locked. Any movement or vibration of vehicle will trigger the siren for 30 seconds, and the motorized wheel will resist any pedaling movement.
7. 1+1 Pedal Assist Mode:
Release the throttle to its neutral position during riding, press cruise speed controller button twice, listen a beep sound, the system enters into pedelec (PAS) mode. Cut off power supply to the controller to reset this system.
8. Motor phase Calibrating (Use it only if your motor is not from GoldenMotor):
The controller can work brushless motors with different phase angles other than defaulted 120 degree. Below are procedures to allow the controller to match the motor phases:
 - Cut-off power to controller and motor
 - Grip and hold power brake lever, turn throttle to maximum speed position, press and hold the cruise control button, turn on the power switch (using battery key)
 - Connect battery power to the system, release throttle, release brake lever, release cruise control button.
 - Listen for two beep sounds, then turn the motor wheel forward and reverse once.
 - When you hear a beep sound, motor phase calibrating is successful.
 - If it fails, swap any two of the three motor phase wires, and repeat the above steps.

Warning!

- 1) Check the battery terminals and make sure that the polarity of the terminals are correct before you connect them. Inappropriate connection may lead to irreversible damage to the controller.
- 2) Please make sure your front fork is able to withstand the torque of the motor. If it is unable to, please buy Torque Arms. Weak front forks may cause the front wheel to break off from the bike while riding.
- 3) Before you test the wheel, please make sure it DOES NOT make any contact with the ground or any other part of the bike except for the axles. Do not underestimate the strength of the motor, it is very dangerous.

