About adjustable parameter

No.	parameter	adjustable range	description
1	**System Power (%)**	0～100	The real power is power rating at 0% and max. power at 100%.
2	**Throttle Response (%)**	0～100	The fastest at 0% and the slowest at 100%.
3	**Energy Regen (%)**	0～100	The least at 0% and the most at 100%.
4	**Voltage Coef (%)**	0～100	**Battery voltage coefficient** which represents characters of the battery. The more easily system is protected, the less percent.
5	**Forward Speed (rpm)**	1500～5600	**Motor forward rotation speed** which determines vehicle's top forward speed.
6	**Reverse Speed (rpm)**	500～2500	**Motor reverse rotation speed** which limits the vehicle's backward speed.
7	**Voltage Threshold (V)**	0～200	**Battery pack discharging voltage threshold**. When the battery pack voltage is under this value, you should charge the battery pack.

NOTE ： You can change the parameters above-mentioned easily if necessary.

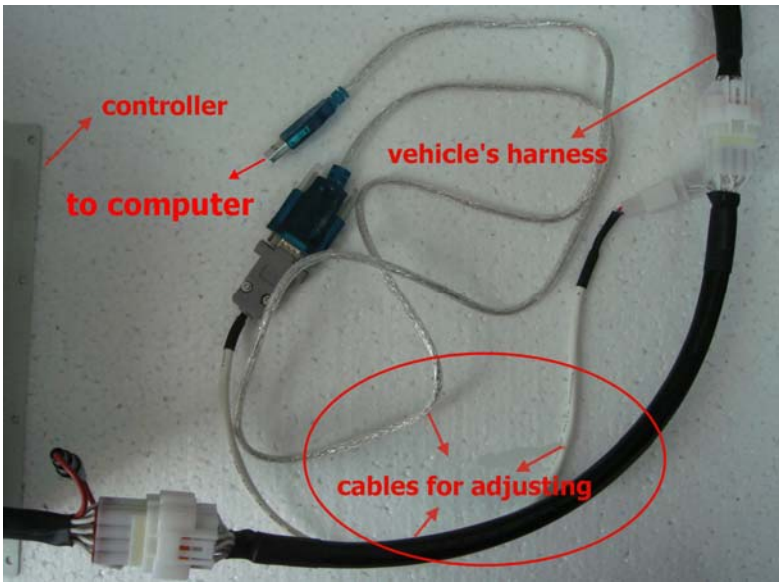
How to change the system parameters

You can modify the system parameters by the following steps if necessary.

1. wiring

- Power off the system by put the key switch to "**Off**" position (as follow picture).

- Connect the cables for adjusting to controller, vehicle harness and computer (laptop computer or PC), shown as follows.

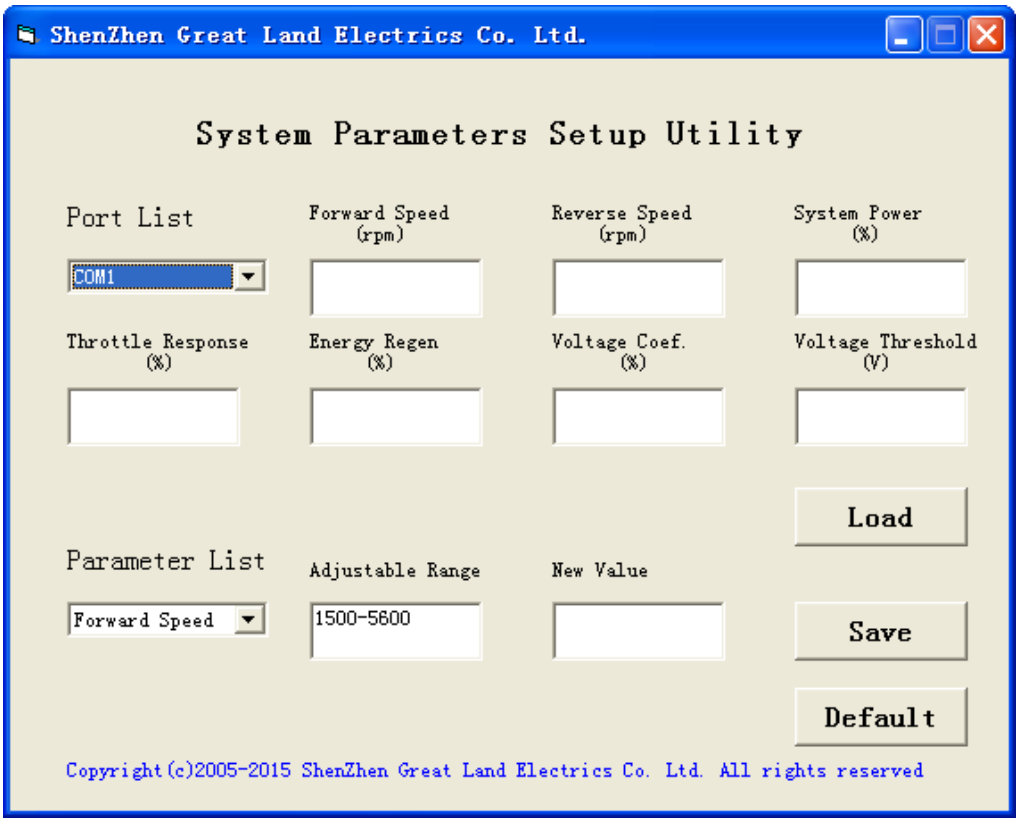


2. Entering parameter setup mode

- Put the shift-lever to backward position and step on the brake pedal.
- Power on the system by turn the key switch to "**Start**" position, and the main contactor is closed. After entering the system parameter setup mode, the throttle pedal can not affect to the vehicle any more, you can release the brake pedal or put the shift-lever (as follow pictures) to forward position.

3. Choosing serial port

- Start the **System Parameters Setup Utility**, and the setup window appears (as follow figure).



- In the parameters setup window, select one from the **Port List** box.

4. Loading parameter

Click the **Load** button, the previous parameters will be displayed in their respective box. Or else you can exit **System Parameters Setup Utility**, and repeat step 3, step 4 or you can also turn the key switch to "**Off**" position, in more than 10s, repeat step 2, step 3 and step 4.

5. Saving parameter

- In the parameters setup window, choose one you want to modify from **Parameter List** box.
- Input a proper value in **New Value** box according to the value in the **Adjustable Range** box.
- Click the **Save** button.
- Massage "**OK**" will pop out in one second if saved successfully. Or else you may click the **Load** button again to check the parameter modified or not.

6. Restoring factory default

- Click the **Default** button, all parameters will be reset as the factory default value.
- Massage "**OK**" will pop out in about 2s if saved successfully. Or else you may click the **Load** button again to check the parameter modified or not.

7. Ending parameter setup

- Power off the system by turning the key switch to "**Off**" position.
- Remove the 16-pin cable and RS232/USB cable.
- Power on the system by turning the key switch to "**Start**" position in about 10s.
- The vehicle can operate normally.

NOTE: You can not put the shift-lever to backward position and push brake pedal while you power on the system, or else the vehicle can not work normally due to entering parameter setup mode.

How to change rotation direction of the motor

Vehicle forward or backward going depends on motor rotation. In most case, the vehicle move forward when the motor is running forward or clockwise. But in some case, you need to change the motor rotation in order to get proper vehicle running direction in the following way.

1. Normally, the six cables between the motor and the controller are connected to each other by the same color heat-shrink tube at the end of each cable. For example, **yellow to yellow, blue to blue and green to green.** You can change any four cables connection by different color heat-shrink tube and remain two cables connection by the same color heat-shrink tube. For example, **blue to blue, yellow to green, and green to yellow.**
2. Swap the **yellow wire** and the **blue wire** of the 4-core shielded cable between the motor and the controller.