



Joystick Programming Kit

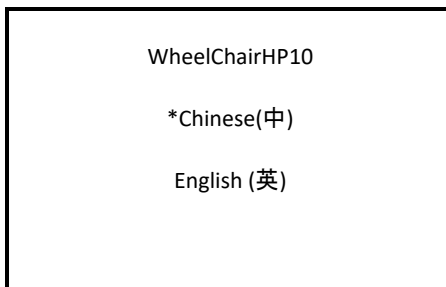
Model: SC-08

(Sine Wave Controller System)

Usage Instructions

Modifying the Values of Any Parameters

1. Connect the programming kit to the I/O port on the Joystick (3-pin or 5-pin XLR plug)
2. Press “↑” or “↓” to choose English or Chinese language. Press “set” to begin programming.
At this point, reference the Screens below (Screen 1, 2, 3...)
3. Press “connect” to establish connection between the programmer and controller.
4. Press “read” to retrieve the controllers current parameters.
5. Press “set” to browse screens, to find the settings you need to change.
6. Press “↑” or “↓” to select the parameter you need to change on the current screen.
The chosen parameter will be flashing. Then press “←” or “→” to change the parameter values.
7. Press “save” to write changes. The screen will show “save successfully” if accepted.



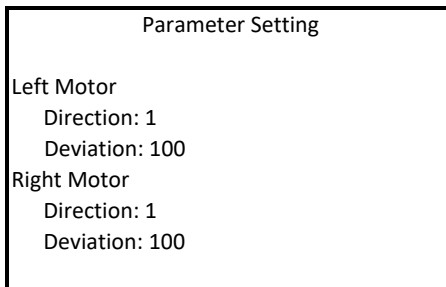
Boot Screen

First, select the interface language.

Set **Chinese** or **English**, by using the "UP ARROW" key, or "DOWN ARROW" key.

Your selection will be noted with an asterisk (*) character.

Then, press the "SET" key to start browsing the settings pages in the selected language.

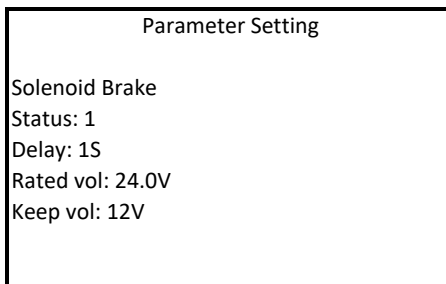


Screen 1

Here you set parameters for the direction that the motor rotates, and the speed at which it rotates. Left & Right determined when sitting on the chair.

For **Direction**, 0 means forward rotation, 1 means reverse rotation.

For **Deviation**, the smaller the number, the slower it rotates. The higher the number, the faster it rotates. Typically you will not change either of these settings unless you need to make one motor rotate at a different rate, to catch up to the other motor.



Screen 2

Here, you can set parameters for the brake lock mechanism.

For **Status**, 0 means lock is off, 1 means lock is on.

For **Delay**, set time in seconds to delay the pull-in the brake piston.

For **Rated Voltage**, set pull-in voltage of the motor (operating voltage.)

For **Hold Voltage**, set voltage held after lock pull-in.

Parameter Setting

Reverse Sound: 0
Forward Speed: 5
Reverse Speed: 5
Shutdown Time: 25
Under Vol: 21.0
SoundGear:

Screen 3

Here, you can set the speed, shutdown and low voltage protection.

For **Reverse Sound**, 0 means no sound, 1 means beep while driving in reverse.

For **Forward Speed**, set the forward speed, higher value means faster speed; Lower value means lower speed.

For **Rated Voltage**, set the reverse speed, higher value means faster speed; Lower value means lower speed.

For **Shutdown Time**, set how long in minutes of idle time before device powers off. Timing starts when device is not moving and joystick or the buttons are not used.

For **Under Voltage**, to prevent the battery voltage from dropping too low, set the voltage for the device to stop working.

Parameter Setting

Accel: 05
Decel: 05
Steering Ac: 05
Steering De: 05

Screen 4

Here, you can set parameters for acceleration.

For **Acceleration**, with forward movement, set the acceleration. A higher value means accelerate faster; a lower value means accelerate slower.

For **Deceleration**, with forward movement, set the deceleration. A higher value means decelerate faster; a lower value means decelerate slower.

For **Steering Acceleration**, while turning, set the acceleration. A higher value means accelerate faster; a lower value means accelerate slower.

For **Steering Deceleration**, while turning, set the deceleration. A higher value means decelerate faster; a lower value means decelerate slower.

Select Motor

ET-V08
ET-V10
ET-V12

Screen 5

Here, you can set the pre-defined motor program.

ET-V08 ** motor with 8" rear wheels

ET-V10 ** motor with 10" rear wheels

ET-V12 ** motor with 12" rear wheels

Your selection will be noted with an astericks (*) character.

Once selected, press the "save" key to set the program.

Rocker Setting

SoundGear: 3

Screen 6

Here, you can set the sound level of the Joystick

For **SoundGear**, you can select from 0, to 3 for the level of beeping sounds. 0 is no sound, while 3 is the highest sound.

Remember to press the "save" key to save any changes you've made!

Precautions:

1. Parameters can be set only after the Joystick Programming Kit and the software driver (UART) in the controller board have established a communication connection. Press "connect" if you've lost connection.
2. Moving the Joystick during programming will cause the communication to be lost, and need to be reestablished. ** This is a common occurrence, remember to reconnect if you use the joystick! ** If this happens, Press "connect" to establish connection between the programmer and controller.
3. "Parameter Setting" and "Motor Model Selection" are independent of each other, meaning saving data of the parameter setting will not modify data of motor model selection.

Motor Model Selection

In order to match motors of different sizes and improve the versatility of the driver, the hand-held programmer can be used to select the corresponding program for a particular motor.

1. Connect the programming kit to the I/O port on the Joystick (3-pin or 5-pin XLR plug)
2. Press "↑" or "↓" to choose English or Chinese language. Press "set" to begin programming.
3. Press "connect" to establish connection between the programmer and controller.
4. Press "set" until you reach "Motor Model Selection" screen, & press the "read" key to see the current motor model.
5. Press "↑" or "↓" to select the motor model, your selection will be noted with an asterisk (*) character.
6. Press "save" to write changes. The screen will show "save successfully" if accepted. If there is no corresponding motor model connected, it will show "Save Failed The selected model does not exist".