

## X Version 200A ESC

The X version is a new product, except the different menu and prompt sound, this version is also support programe with programe card (the programe card will be released later).

### 1. Power-on sound and meaning

When the system is power on with throttle at lowest position, the ESC will detect the current battery setting and indicating with sound.

NiMh battery, auto cut-off (cut-off at 70% of power-one voltage):	one long high tone
3 Cell LiPo:	3 high tones
4 Cell LiPo:	4 high tones
5 Cell LiPo:	one short music
6 Cell LiPo:	one short music + one high tone

Once the ESC setting reporting tones complete, then the ESC is ready to work.

### 2. Programe with radio system

To enter into the programe mode, you need to connect the motor to the ESC, then put the transmitter throttle to highest (full open) position (transmitter is powered on), then connect the ESC power supply, then the ESC will enter into programe mode.

There are 4 top level menus, the sounds and meaning are as following:

Short music+1 high tone	Battery type and cell number
Short music+2 high tones	Break setting
Short music+3 high tones	Acceleration modes (throttle curve)
Short music+4 high tones	Throttle range

To enter into the current main menu, you can move the throttle swiftly to the middle position before the sound complete.

#### 2.1 Sub-menu options

Menu 1: battery type and cell number

1 high BEEP+1 low BEEP	NiMh auto cut-off (cut-off at 70% of power on voltage, so please fully charge the battery before use)
1 high BEEP+2 low BEEPs	3 cell Lipo (9V)

1 high BEEP+3 low BEEPs	4 cell Lipo (12V)
1 high BEEP+4 low BEEPs	5 cell Lipo (15V)
1 high BEEP+5 low BEEPs	6 cell Lipo (18V)

#### Menu 2: break mode

2 high BEEPs +1 low BEEP	No break
2 high BEEPs+2 low BEEPs	Slight brake *
2 high BEEPs+3 low BEEPs	Strong Brake

#### Menu 3: Acceleration modes (throttle response)

3 high BEEPs+1 low BEEP	soft
3 high BEEPs+2 low BEEPs	Middle *
3 high BEEPs+3 low BEEPs	hard

#### Menu 4: throttle range

4 high BEEPs+1 low BEEP	Auto-calibrate *
4 high BEEPs +2 low BEEPs	Manually set throttle range (note 1)

Note 1: You can use throttle auto-calibrate option in most cases, the manually set option is only for use when the auto-calibrate function can not detect the correct throttle range under some special application, in this option, the throttle point when the ESC enters into programe mode will be set as full throttle (100%), and the throttle point when the ESC quits programe mode will be set as full close (0) position.

Factory default setting:

①battery type and cell number	NiMh auto cut-off (cut-off at 70% of power on voltage, so please fully charge the battery before use)
②Brake mode	Slight brake
③Acceleration modes	Middle
④throttle range	Auto-calibrate

## 2.2 Progame operation summary

To enter into progame mode: move the throttle to highest position BEFORE the ESC is powered on.

Enter into main menu option: move the throttle from highest position to middle (50%) position while the ESC is beeping in the main menu option.

Choose and save sub-menu option: move throttle from middle position to highest position while the ESC is beeping the sub-menu option you want to choose.

Quit the setting: move throttle to full close position (quite the setting operation will not save the current beeping option)