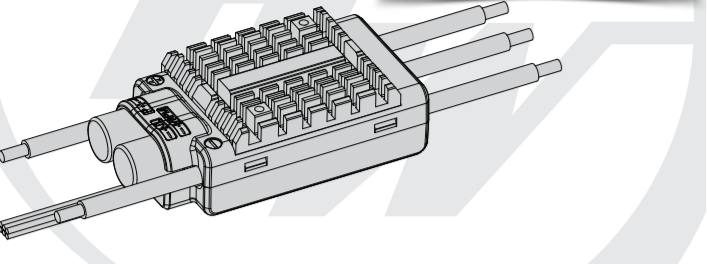


USER MANUAL PLATINUM



01 Declaration



Thanks for purchasing our Electronic Speed Controller (ESC). High power system for RC models can be very dangerous...

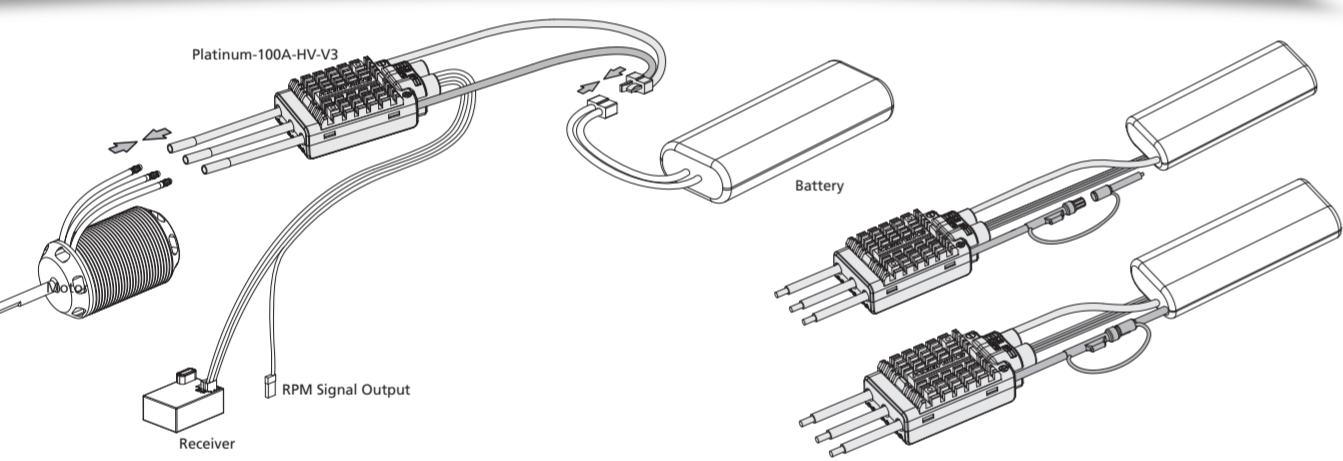
02 Features

- High-performance microprocessor with the operating frequency up to 50MHz brings excellent compatibility...

03 Specifications

Table with 2 columns: Model, Platinum-100A-HV-V3. Rows include Main Application, Input, Cont./Burst Current, BEC, Programming Port, Throttle Signal and RPM signal, Input/output Wires, Weight/Size.

04 Wiring Diagram



- The tricolor (WRB) cable here is the throttle cable (throttle signal is transferred via optoelectronic coupler)

The operation of anti-spark connectors. There are a pair of bullet connectors and a thin red wire attached to the positive input wire...

05 Output Port For RPM Signals

Platinum V3 series speed controllers have independent output ports / interfaces for RPM signals, so it can connect to flybarless systems like Mikado V-Bar as RPM signal source.

06 Output The Real-time Running Status Data Of The ESC

Platinum V3 series speed controllers have independent ports for parameter setting, which can also be the output ports of the running status data of the ESCs.

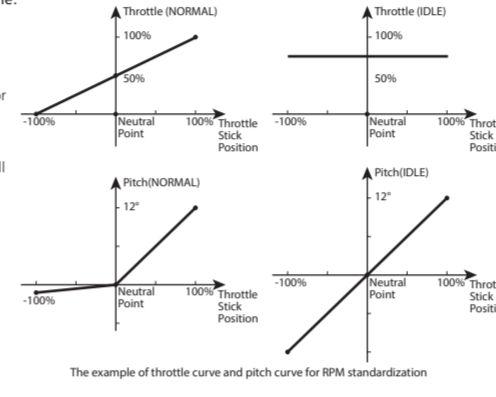
07 Programmable Items

Table with 10 columns (Option 1-10) and 10 rows (Brake, Battery Type, Cutoff Mode, Low-voltage Cutoff Threshold, Flight Mode, Auto Rotation Restart Time, Advanced Timing, PWM Frequency, BEC Voltage, Lipo Cells).

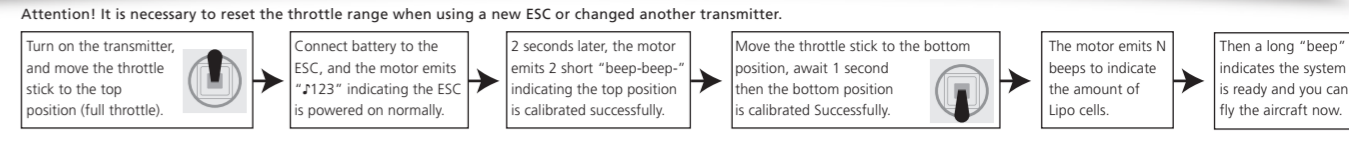
08 Programmable Items

- **in explanations below indicate factory defaults. 1. Brake: *Off / Soft / Hard / Very hard 2. Battery Type: *LiPo / NiMH...

RPM standardization in "Governor (EH) mode": when the throttle value switches to over 40% from 0%, the motor starts in a super soft way and accelerates slowly...



13 Set The Throttle Range



14 Parameters Programming / setting Via The Transmitter

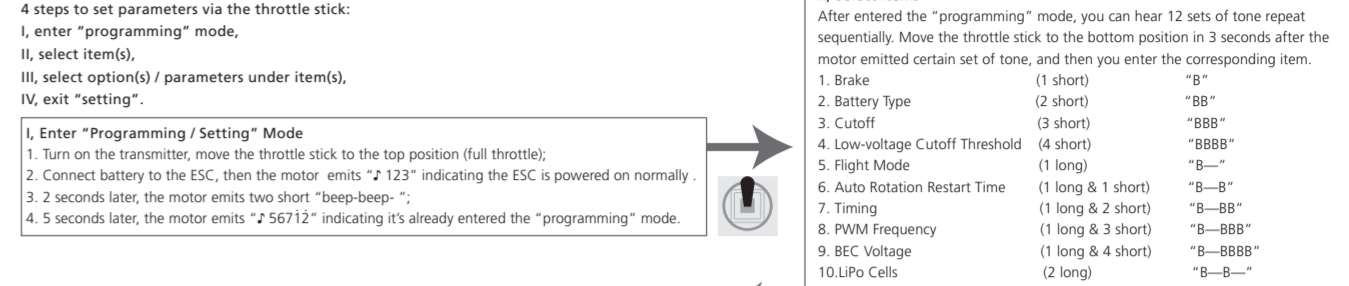
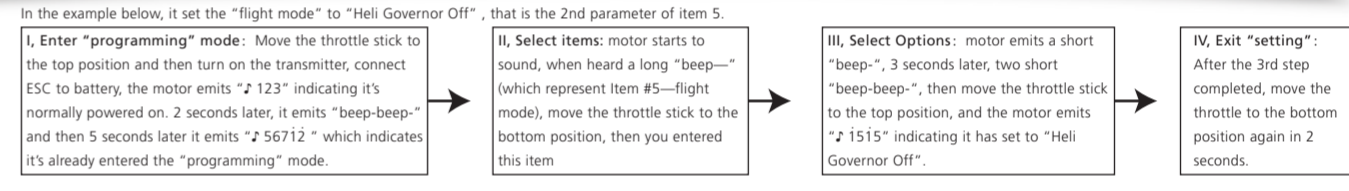


Table with columns: Item, Option, 1 short beep, 2 short beeps, 3 short beeps, 4 short beeps, 1 long beep, 1 long & 1 short beep, 1 long & 2 short beeps, 1 long & 3 short beeps, 1 long & 4 short beeps. Rows include Brake, Battery type, Cutoff mode, Low-voltage Threshold, Flight mode, etc.

15 ESC Programming Sample



16 Troubleshooting

Table with 3 columns: Trouble, Cause, Solution. Rows include After powered on, motor doesn't rotate; After powered on, motor doesn't spin; After powered on, motor doesn't spin but emits warning tone; After powered on, motor doesn't run but emits "beep-beep"; The motor rotates in the wrong direction; The motor stops halfway.

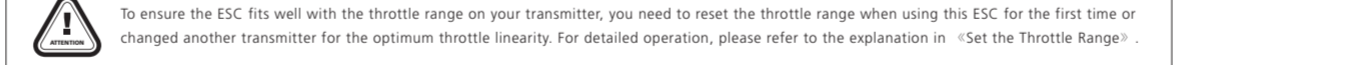
DEVELOPER'S GUIDE (Note: This guide is only for developers, common users needn't read it.)

[Output the real-time running data of the ESC] The PLATINUM V3 series of ESC has independent port for connecting the LCD program box and output the running status data of the ESC via the SCI (Serial Communication Interface).

[Output Port for RPM Signals] Platinum V3 series of speed controllers have independent output ports for RPM signals. Specification for interface signals: It is the periodic signal with duty ratio of 17%, and 0V for low level, 3.3V for high level.

09 Begin To Use A New Brushless Esc

Before using a new ESC, you need to check all the connections to make sure they are correct and reliable before connecting the ESC to the battery.



10 Explanations For Warning Tone

- Warning tone for abnormal input voltage: when powered on the ESC, it will start testing the input voltage.

11 Explanation For Other Protections

- Startup Protection: The ESC will shut down the motor after failed to start the motor normally in 2 seconds by increasing the throttle value.

12 Normal Start-up Process

