



BEAST PRO Quick guide

BEAST PRO FAMILY



Features:

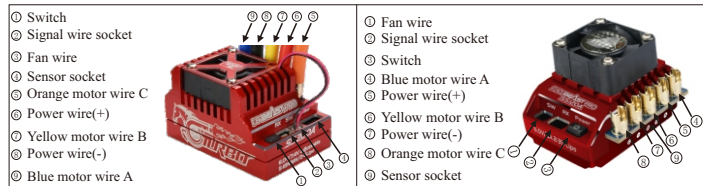
- Enhanced throttle response, excellent acceleration, linearity and driveability.
- Using the advanced PC interface allows you to set up, program or update the firmware.
- Fully programmable via LCD program card, PC interface and WiFi (iphone and Android).
- Adjustable BEC output 6.0/7.4V, up to 7A current output.
- Throttle curve and punch rate's are fully adjustable.
- Dynamic boost timing and turbo timing adjustment .
- Brake curve and brake rate adjustment.
- Dynamic running data log .

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- Multiple protection features: Low voltage cut-off protection, over-heat protection and throttle signal loss protection.

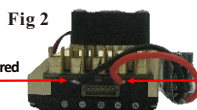
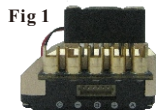
Initial Installation Pro Line ESC

Verify each wire is connected correctly per the diagram below.



CAUTION

Beast Pro SS120A(1-2S/2-3S), the external capacitor pack is not factory installed and is required to be soldered on prior to use. Please do not connect the power pack directly to the ESC prior to soldering the capacitors like picture shown as below (Fig 1) or you could burn up the ESC.



Blace wire soldered to negative

Red wire soldered to positive

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Sensored Mode

When using a Sensored Brushless motor, the Blue motor wire (A), Yellow motor wire (B) and Orange motor wire (C) of the ESC must be connected with the Sensored motor wire terminals (A,B,C) respectively. It is necessary to connect the Sensor wire to the "Sensor" socket on the ESC. Do not change the sequence of the wires.

Sensorless Mode

When using a Sensorless Brushless motor, the Blue motor wire (A), Yellow motor wire (B) and Orange motor wire (C) of the ESC must be connected with the Sensorless motor wire terminals (A,B,C) respectively. Do not change the sequence of the wires.

Note: If the motor operates in reverse rotation, this can be changed in the programming settings

Connection to Rx

Black wire RX-
Red wire RX+6.0V
White wire RX-Signal

LED Indication

When the Power wires on ESC are connected with the battery pack, the ESC can automatically identify the motor type (Sensored/Sensorless) via indicated LEDs.

If the ESC is in Sensored Mode, remove the Sensor wire and the ESC will automatically change to Sensorless Mode.

| Function | LED | LED Status |
|--------------------------------------|------------------|------------|
| Low voltage of the battery | Red LED | Blinking |
| Over-heat of the ESC and motor(95°C) | Blue LED | Blinking |
| Sensored Mode | Red and Blue LED | ON |
| Sensorless Mode | Blue LED | ON |

Throttle Range Calibration

Setting up the ESC for Throttle Range Calibration for initial use.

For the first time using a transmitter or changing to a different transmitter you must set up Throttle Range Calibration.

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1. Switch off the ESC, then connect the ESC to the battery pack and turn on the transmitter; set the direction of the throttle channel to REV; set the EPA/ATV value of the throttle channel to 100% or "0" depending on your radio.

2. Hold the "Switch" button until the Red and Blue LED are on solid, wait for about 2 seconds until the Red LED is off, then release the "Switch" button, pull the throttle trigger to full throttle until the Blue LED blinks and then goes Solid, the motor will beep to confirm setting.

3. Push the throttle trigger to Full Brake until the Red LED blinks and then goes solid, the motor will beep to confirm setting.

4. Now return the throttle trigger to the Neutral position, both of the Red and Blue LED's blink simultaneously then will go solid, the motor will beep to confirm settings. The Throttle Range Calibration is now set.

5. Turn off the ESC power switch. (Note: Holding the "Switch" button over 2 seconds will turn off the ESC.)

6. Turn the ESC back ON. You are ready to use the ESC now.

BEAST PRO series ESCs are fully programmable, there are tons of features can be programmed or changed via your radio, PC interface or ZTW WIFI programmer. If you want to know how-to please log on our website "www.ztwoem.com" to download manual or related firmware APP to do anything you want with your ESC. Thanks for purchasing ZTW product, enjoy you fun in your hobby.

Shenzhen ZTW Model Science & Technology Co.,Ltd

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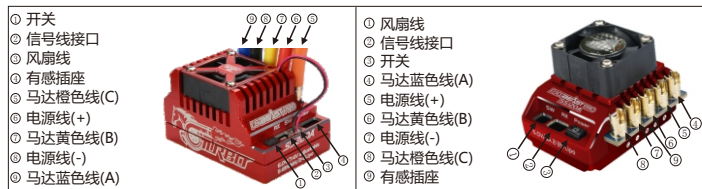
一、魔兽竞赛系列车用电子调速器主要特性：

- 快速的油门响应、强劲的速度、卓越的线性和可操控性。
- 可用电脑编程菜单设置和软件升级。
- 可用LCD编程卡，WiFi无线通过手机（Iphone, Android）设置参数。
- BEC输出6.0V/7.4V可调，电流输出高达7A。
- CNC全铝全金外壳质量散热效果更佳，比传统塑料更耐撞，耐用。
- 油门曲线和启动力度可调。
- 刹车曲线和刹车力度可调。
- 多重保护功能：电池低压保护，温度保护，油门失控保护。

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二、电调图解

请按以下图解连接相应位置，错接或反接有可损坏电调：



警告：魔兽竞赛TURBO120A（1-2S）与（2-3S）电容外置出货时与电调一并包装，需使用者单独焊接。强烈建议模友在使用这两款电调前将电容焊好再连接电池，未焊电容直接使用有可能损坏或烧毁电调；因此损坏的电调不在保修范围内，玩家自己承担责任。请按照下图焊接电调，焊好后的电调如下图1、2所示。

图1

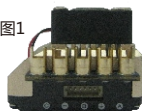
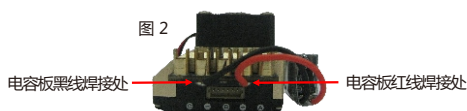


图2



电容板黑线焊接处

电容板红线焊接处

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三、有感/无感使用说明

有感模式：

连接有感马达时，请注意三根电调马达线颜色：蓝色线(A)、黄色线(B)、橙色线(C)，一定要对应有感马达外壳标示A、B、C连接，马达传感线要顺应插头位置连接。否则电调/电机有损坏的风险。

无感模式：

连接无感马达时，三根电调马达线颜色：蓝色线(A)、黄色线(B)、橙色线(C)，可与马达任意连接。如果马达反转，请更换其中的任意两根马达线的连接顺序。

四、信号线说明

- 黑线 RX-
- 红线 RX+6.0V
- 白线 RX-Signal

五、电调功能指示灯说明：

电调连接电源后，会自动检测马达类型，并通过LED灯指示，不用人为设置。当您电调使用有感功能时，马达传感线掉落，电调会自动转换为无感工作模式运行。

| 电调指示灯说明 | | |
|---------------|----------|------------|
| 功能状态 | 功能状态LED灯 | 功能状态LED灯指示 |
| 电池低压 | 红色LED灯 | 闪烁 |
| 电调与马达过热(95°C) | 蓝色LED灯 | 闪烁 |
| 配用有感马达 | 红色蓝色LED灯 | 长亮 |
| 配用无感马达 | 蓝色LED灯 | 长亮 |

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六、校准油门行程：

初次使用电调需要进行油门行程设定，或者更换接收机时也需要进行油门行程设定。

1. 首先关闭电调开关，连接电池，再打开您的车用发射机电源，将油门通道方向设置为（REV），油门通道的EPA/ATV正反向均设置为最大；
2. 按下SWITCH键不松开，红色和蓝色LED灯长亮，等待2秒左右，电调红色LED灯灭蓝色LED亮，这时把SWITCH键松开，同时把您的发射机油门拉杆拉最大，蓝色LED闪烁3秒左右长亮，马达滴响后；
3. 再把油门拉杆推到最小，红色LED闪烁3秒左右长亮，马达滴响后；
4. 把发射机油门拉杆置自然位，红色LED、蓝色LED同时闪烁后长亮，马达滴响后，油门行程设定OK；
5. 关闭电调开关（注意：按住SWITCH键超过2秒就可关闭电调）。
6. 电调油门行程校准完毕。

魔兽竞赛系列为玩家设计了各种不同需求的设置菜单，这些设置项都可通过摇控器，中特威LCD编程卡，PC软件还有我们最新研发的WiFi编程模块编程更改您所需要的设置。此指南只为玩家熟悉，安全使用产品提供基本信息，详细的操作步骤请登陆中特威官方网站“www.ztwoem.com”下载相应的说明书。

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