

ABOUT THE MAMBA XL X

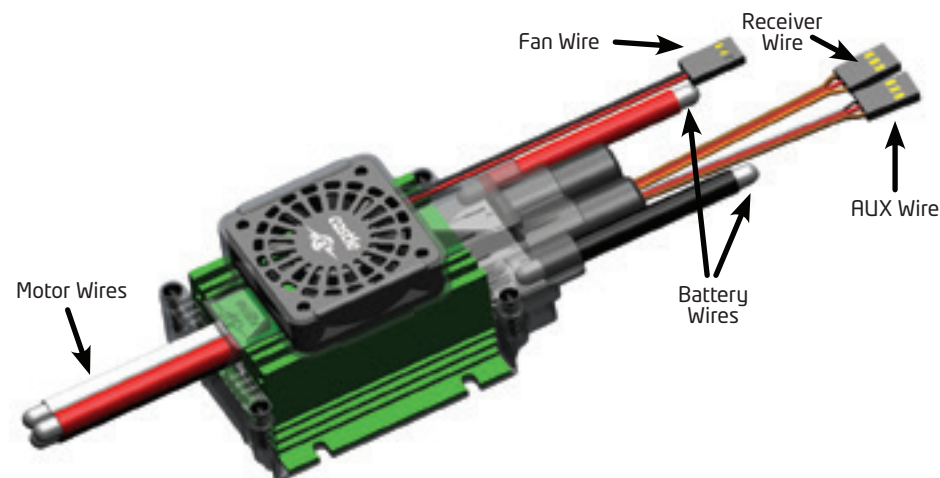
Motors	Please note that while the Mamba XL X is capable of handling incredible amounts of power, your motor must also be up to the task. Always run your motor within the manufacturer's specs. Monitor motor, battery, and controller temps carefully and never let the motor get above 180° F . Excessive heat in the motor can damage the motor, the Mamba XL X, and your batteries.
Gearing	Always start with stock gearing. If you wish to change the gearing, motor, or battery, you must check your motor temperature frequently on the first run. If the motor gets too hot, reduce the pinion size, increase the spur size, or reduce the pack voltage. Additional information about gearing can be found in the Gearing Chart (<i>available online at www.castlecreations.com/xlxgearing</i>).
Programming	Mamba XL X is programmable via your transmitter, Windows® based PC and a Castle Link USB adapter (available free with enclosed coupon), or a Field Link card (purchased separately). You must disconnect the AUX WIRE prior to connecting your ESC to the Castle Link USB adapter to avoid damage to the USB adapter. See the Drivers' Ed Guide for more instructions on transmitter programming and the Castle Link system (" <i>Tuning with Castle Link</i> "- page 28, and " <i>Transmitter Programming</i> ", page 32).
Data Logging	The Mamba XL X features data logging. You will be able to measure and record important power system information during your race, turn-by-turn. After your run, you can download and analyze this log using Castle Link. You will be able to inspect many parameters including battery voltage, motor RPM, ESC temperature, and more. Additional information about using the data logging features can be found in the Driver's Ed Guide (" <i>Data Logging</i> "- page 23).



GETTING STARTED

1. Solder a high quality battery connector to the ESC (see *Driver's Ed Guide "Connectors and Power Wiring"* - page 6).
2. Mount the ESC and motor into the vehicle.
3. Connect motor to the ESC (see *Driver's Ed Guide, "Motor Wiring"* - page 7).
4. Plug the RX wire and AUX wire in (see "*Receiver Connections*" section on the opposite side).
5. Calibrate your ESC to your radio. (See *Driver's Ed Guide, "How to Calibrate the ESC"* - page 14).

YOU ARE NOW READY TO GO!



MAMBA XL X SPECIFICATIONS

Application Guidelines	1:5th scale RC hobby vehicles weighing up to 30 lbs
Input Voltage Range	Min: 3S LiPo, Max: 8S LiPo, 33.6V
BEC Specifications	Adjustable from 5V to 8.4V (20 A peak), default 5.5V
Waterproof	No
Sensors	No
Product Use Statement	<ul style="list-style-type: none"> • Applying voltages higher than 33.6V will cause irreparable damage to your controller, voiding the warranty. • The Mamba XL X is a high-performance controller; you must use high-discharge cells in your high-performance application to ensure vehicle performance (<i>see Driver's Ed Guide, "A Word About Batteries"</i>- page 4). • The Mamba XL X requires the use of connectors designed for high-powered electric systems (<i>see Driver's Ed Guide, "Connectors and Power Wiring"</i>- page 6). • The Mamba XL X is not intended for human or animal propulsion.

RECEIVER CONNECTIONS

RX Wire	Plug the RX wire into the throttle (#2) channel on your receiver.
AUX Wire	<p>The AUX wire allows you to adjust a setting "on-the-fly" using an auxiliary channel on your receiver. The AUX wire function is disabled by default and is programmable via Castle Link. Plug this wire into the auxiliary (#3/#4) channel on your receiver.</p> <p>i You MUST connect the AUX wire to an open channel on your receiver even if you are not using the Auxiliary function.</p>
ESC Fan Wire	This wire provides power to the fan on the ESC. It can be plugged into any channel on the receiver. Note: it can also be connected via a Y-harness to any channel if there are no open ports.

TRANSMITTER PROGRAMMING REFERENCE

1.Brake/Reverse Type

- With Reverse*
- Without Reverse
- Crawler Reverse

3. Brake Amount

- 25%
- 50%*
- 75%
- 100%

5. Motor Type

- Brushless*
- Brushed Reversing
- Brushed High Power

2.Voltage Cutoff

- Auto-Lipo*
- None

4. Drag Brake

- Disabled*
- 10%
- 20%
- 30%
- Crawler Full On

*Default Setting

AUDIBLE ALERT REFERENCE

• •	Start Fail
• —	Low Voltage Cutoff
— •	Over-Current
• • —	Radio Glitch
• — •	Over-Temperature
• — —	Excessive Load
— • •	AUX Wire Radio Glitch
— • —	BEC Over-Temperature
• • • •	Data Log Full Warning

Contact

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