ABOUT THE MAMBA X

Motors	Please note that while the Mamba X is capable of handling incredible amounts of power, your motor must also be up for the task. Always run your motor within the manufacturer's specifications. Monitor motor, battery, and controller temperatures carefully and never let the motor get above 180° F. Excessive heat can damage the motor, the Mamba 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 online at our website: www.castlecreations.com.
Programming	The Mamba 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). See the Driver's Ed Guide for more instructions on transmitter programming and the Castle Link system ("Transmitter Programming", and "Tuning with Castle Link").
Data Logging	The Mamba 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 current, 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 ("Data Logging").

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P/N:095-0349-00

MAMBA X™

EXTREME 1:10 SCALE WATERPROOF* ELECTRONIC SPEED CONTROL

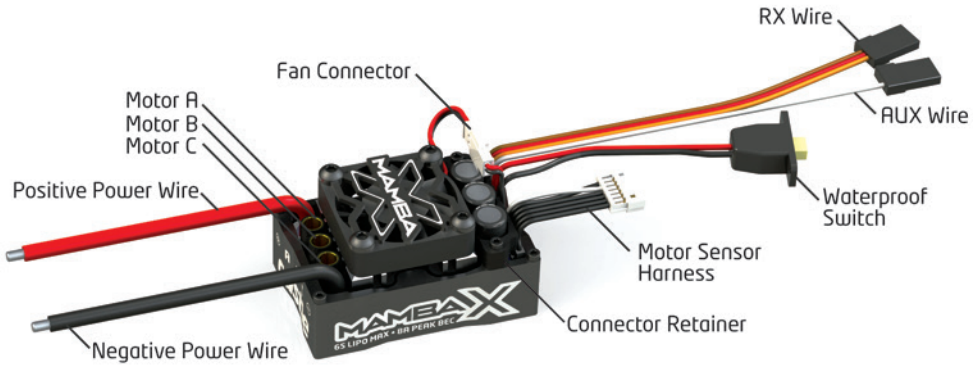
QUICK START GUIDE

OVERPOWERING RC SINCE 1997 castle

GETTING STARTED

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

YOU ARE NOW READY TO GO!



MAMBA X SPECIFICATIONS

Application Guidelines	• 1:10th scale buggies, stadium trucks, touring cars, crawlers and short course trucks weighing up to 7lbs. • 1:8th scale buggies, geared for off-road racing, weighing up to 9lbs.
Input Voltage Range	Min: 2S LiPo, Max: 6S LiPo, 25.2V
BEC Specifications	Adjustable: 5.5V, 6.0V, 7.5V, or 8.0V (8A Peak), default 5.5V
Waterproof	Yes*
Sensors	Yes, including Smart Sense™ feature.
Product Use Statement**	• Applying voltages higher than 25.2V will cause irreparable damage to your controller. • Recommended battery capacity for 1:8th and 1:10th scale vehicles is 5000mAh or larger. We recommend using 30C continuous discharge or higher LiPo batteries (or high quality 25C batteries such as Traxxas® Power Cell). • The Mamba X has 4.0mm bullet connectors directly on the ESC and the battery input wires are bare. You must add the connector of choice to the battery leads. We recommend a high-current connector rated for 70+ amps. • The Mamba X is not intended for human or animal propulsion.

RECEIVER CONNECTION

RX Wire	Plug the RX wire into the throttle (#2) channel on your receiver.
AUX Wire	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. If you are not utilizing the Aux wire function you can leave it disconnected from your receiver.

*Not intended for operation while submerged in liquid. If unit is operated in wet conditions, rinse with fresh water to remove dirt or corrosives, then fully dry unit.

**Failure to adhere to the Product Use Statement constitutes a violation of the warranty agreement, and will result in non-warranty service fees to repair or replace damaged products.

TRANSMITTER PROGRAMMING REFERENCE

1.Brake/Reverse Type
- With Reverse*
- Without Reverse
- Crawler Reverse

2.Voltage Cutoff
- Auto-Lipo*
- None

3. Brake Amount
- 25%
- 50%*
- 75%
- 100%

4. Drag Brake
- Disabled*
- 10%
- 20%
- 30%
- Crawler Full On

5. Motor Type
- Brushless*
- Brushed Reversing
- Brushed High Power

See Driver's Ed Guide, "Transmitter Programming".

**Default Setting*

AUDIBLE ALERT REFERENCE

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

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MAMBA X
EXTREME 1:10 SCALE
WATERPROOF
ELECTRONIC SPEED CONTROL