

# STOP!

This is an E-Revo with a Castle Creations Brushless System pre-installed from the factory. It is designed to eliminate guesswork and provide a truly Ready-To-Race® brushless powerhouse right out of the box. The E-Revo is manufactured by Traxxas and is backed by full Traxxas factory support. The installed Mamba Monster power system (electronic speed control, motor, on/off switch) is manufactured by Castle Creations. All support for the power system will be handled directly by Castle Creations and will be subject to Castle Creations' warranty and service terms. *Traxxas will not provide direct service and support for the installed power system. If you cannot accept this product support arrangement, do not run the model or open any of the enclosed materials.* Return the model to your hobby dealer. Note that your hobby dealer absolutely cannot accept an item for return or exchange after it has been run or is otherwise no longer in as-new condition.

**The Power System is NOT WATERPROOF. Do not expose the power system to any type of water, condensation, or moisture.**

## E-REVO

### Brushless Addendum Quick Start Instructions

## MAMBA MONSTER

- Refer to supplied Castle Creations Mamba Monster instruction manual for full operation details.
- Read and follow all operating instructions prior to running the model.
- The information on this addendum and in the Castle Creations Mamba Monster instructions supersedes the information in the Traxxas E-Revo Owner's Manual.

Your E-Revo Brushless edition truck has been pre-programmed and "bound" to the transmitter at the factory. Follow these instructions to switch your model on:

1. Install the batteries in the transmitter as described in the E-Revo Owner's Manual on page 11.
2. Install the batteries in the E-Revo as described in the E-Revo Owner's Manual on page 12.
3. Make certain the throttle trim knob and throttle neutral switch are set as shown (right).
4. Switch the transmitter on.
5. Switch the speed control on.  
You will hear a short sequence of tones as ALL the LEDs blink. The sequence will then repeat twice more, then the YELLOW LED will remain illuminated.
6. With the E-Revo's wheels off the ground, confirm correct operation of the throttle and steering system. Your E-Revo is ready to drive.



Make sure the throttle trim knob is centered.



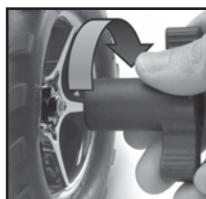
Make sure the throttle neutral is set to 50/50.

#### ATTENTION! LiPo Battery Users

The E-Revo Brushless Edition is programmed at the factory for use with NiMH batteries. There is no low-voltage protection in NiMH mode. Your model will run properly with LiPo batteries in this mode, but your batteries will not be protected against overdischarging. Before installing LiPo batteries, refer to the Mamba Monster manual included with your model for instructions on activating the speed control's voltage cutoff feature and setting the correct cutoff voltage for your batteries. Failure to activate and properly set the Cutoff Voltage may lead to damage or failure of your LiPo batteries.

#### • Make Sure The Axle Nuts Are Tight Before Each Run

Before operating your E-Revo Brushless Edition, take a moment to make sure the axle nuts are tight, as they may have loosened during shipping. The correct size axle-nut wrench is supplied with the truck. Check the tightness of the axle nuts before each run. The E-Revo's high speed and torque can loosen the nuts over time if left unchecked.



#### • Range-Testing the TQ2.4GHz Radio System

Before each running session with your model, you should range test your radio system to ensure that it operates properly.

1. Turn on the radio system and check its operation as described on page 15 of the E-Revo manual.
2. Have a friend hold the model securely by the wing and front bumper. Make sure hands and clothing are clear of the wheels and other moving parts on the model.
3. Walk away from the model with the transmitter until you reach the farthest distance you plan to operate the model.
4. Operate the controls on the transmitter once again to be sure that the model responds correctly.
5. Do not attempt to operate the model if there is any problem with the radio system or any external interference with your radio signal at your location.

#### • Higher Speeds Require Greater Distance

The faster you drive your E-Revo, the more quickly it will near the limit of radio range. At 60mph, the truck will cover 88 feet every second! It's a thrill, but use caution to keep your model in range. If you want to see your E-Revo Brushless Edition achieve its maximum speed, it is best to position yourself in the middle of the truck's running area, not the far end, so you drive the truck towards and past your position. In addition to maximizing the radio's range, this technique will keep your model closer to you, making it easier to see and control.

**No matter how fast you drive your E-Revo, always leave adequate space between you, the model, and others. Never drive directly toward yourself or others.**

#### • Slipper Clutch Break-In

The E-Revo Brushless Edition's slipper clutch requires a break-in procedure to ensure consistent operation with the extremely high power output of the included Castle Creations Mamba Monster brushless motor system. The slipper clutch has been adjusted to the correct initial setting for break-in. Follow these steps to ensure maximum performance and life from your slipper clutch:

1. Make your first runs with the model using the stock gearing and 6- or 7-cell NiMH packs, or 2S LiPo packs.
2. Drive normally. The slipper clutch should slip momentarily when accelerating aggressively on high-traction surfaces (you will hear a whirring sound when the slipper clutch allows the spur gear to slip).
3. If excessive slippage is noticed (slipping that lasts for more than 3 seconds under hard acceleration), or the slipper clutch slips anytime the throttle is applied at any lever, stop driving immediately. Let the slipper clutch cool for 10-15 minutes. When the clutch is cool, test-drive the vehicle again. If you still experience excessive slippage, allow the slipper to cool once more, then tighten the slipper nut ¼ turn (turn the nut clockwise) and repeat the break-in process. Do not adjust the slipper clutch before it has cooled.
4. Continue to run the vehicle and monitor slipper clutch performance as noted above, and readjust if necessary. When the run is complete, the slipper should be fully broken in.

After break-in, the slipper clutch is ready for any type of driving, with any batteries up to 6S Lipo. Set the slipper clutch so it only slips for a moment (if at all) under hard acceleration in high-traction conditions. If excessive slippage is noticed, stop driving immediately. Continuing to drive with a loose slipper will cause damage to the slipper unit. You must let the slipper cool down to ambient temperature before tightening the slipper nut and resuming driving.

#### TQ 2.4 Transmitter Binding Instructions

For proper operation, the transmitter and receiver must be electronically 'bound.' This has been done for you at the factory. Should you ever need to re-bind the system, follow these instructions:

1. Install batteries in the E-Revo and plug them into the speed control.
2. Press and hold the transmitter's SET button as you switch transmitter on. The SET LED will flash.
3. Press and hold the receiver's SET button as you switch receiver on. The SET LED will flash.
4. When both LEDs stop flashing (this will take just a moment or two), the system is bound and ready for use. Confirm that the steering and throttle operate properly before driving the model.

#### TQ 2.4 Transmitter Fail-Safe Operation

When bound to the transmitter, the 2.4GHz Micro Receiver automatically sets its fail-safe position to throttle neutral. This means the receiver will automatically return the throttle setting to neutral in the event of signal loss due to interference, low battery power, or accidentally switching the

transmitter off while driving. When powered on, the receiver's green LED will glow to indicate Fail Safe mode is active. If the LED glows red, the Fail Safe mode has been deactivated. Use these steps to reactivate the Fail Safe system:

1. Switch the transmitter and receiver on.
2. Press and hold the receiver's SET button. The LED will flash once, then turn off. Continue to hold the SET button. After about three seconds, the LED will flash on and off. It will continue flashing as long as you hold the SET button.
3. Release the SET button. The LED will now light green and glow steadily, indicating Fail Safe mode is active.

Should you ever wish to deactivate the Fail Safe mode (for example, when using a speed control that has its own Fail Safe circuitry), simply repeat the steps above.

### Setting the TQ 2.4 Transmitter Throttle Endpoints

The Traxxas TQ 2.4GHz radio system is pre-set at the factory and is ready for use. If you wish to reprogram the receiver to make certain the throttle endpoints are correctly set, follow the steps below.

1. Switch the transmitter and receiver on.
2. Press and hold the receiver's SET button until the LED blinks red once then switches off. Release the SET button.
3. Pull the throttle trigger to the full-throttle position and hold until the receiver's LED blinks red twice.
4. Push the trigger to full brake and hold until the red LED blinks twice.
5. Return the trigger to neutral. The LED will blink three times then remain on (the LED will shine green if Fail Safe is active, or red if Fail Safe is disabled).

**Note:** although the vehicle will not respond to throttle commands during this procedure, as a precaution it is recommended that the speed control be unplugged from the receiver during programming.

### Speed Control Programming Instructions

The Castle Creations Mamba Max speed control should not need reprogramming with normal use. However, if you install a different radio system in your model, or change the transmitter's throttle-neutral setting from 50/50 to 70/30, you will need to reprogram the speed control. Follow these instructions to reprogram the speed control:

1. Install the batteries of your choice in the battery compartments and plug the batteries into the speed control.
2. Switch on your transmitter.
3. Hold full throttle while you switch on the Mamba Monster controller. After a few seconds, you will hear multiple tones and the RED LED will light.
4. Hold full brake. After a few seconds, you will hear multiple tones and the YELLOW LED will light.
5. Release the trigger to the neutral position. After a few seconds, you will hear multiple tones and ALL THE LEDs will light.
6. Wait a few more seconds for the speed control to 'arm,' indicated by a double-tone. You are now ready to drive.

### Disconnect Batteries After Use

Always disconnect the batteries from the speed control when you are finished using your vehicle. The switch on the speed control only shuts off power to the receiver and servos. The speed control continues to draw power as long as it is plugged in and may over-discharge your batteries if they are left connected to the speed control.

### Mamba Monster Specifications:

Cells..... 18 NiCad / NiMH 6s LiPo  
 Continuous..... More than you can handle!  
 Resistance..... 0.0003 Ohms per phase  
 Brake..... Proportional with adjustable curve  
 Reversible..... Yes - with lockout  
 Low Voltage Cutoff..... Programmable  
 Case Size..... 2.2" x 1.9" x 1.4"  
 Weight with Wires..... 121g  
 Connector Type..... 6.5mm bullet

### Castle Creations Mamba Monster Warranty

Your Castle speed control is warranted for one (1) year from date of purchase to be free from manufacturing and component defects. This warranty does not cover abuse, neglect, or damage due to incorrect wiring, over-voltage, or overloading. If you have any questions, comments or wish to return your Castle speed control for warranty or non-warranty repair or replacement, please contact Castle Creations, Inc.

Castle Creations, Inc., 235 South Kansas Avenue, Olathe, KS 66061  
 Phone: (913) 390-6939, E-mail: support@castlecreations.com  
 www.castlecreations.com

### E-Revo Brushless Gearing Chart

		Spur Gear					
		54	56	58	62	65	68
Pinion Gear	12	4.50	4.67	4.83	5.17	5.42	5.67
	13	4.15	4.31	4.46	4.77	5.00	5.23
	14	3.86	4.00	4.14	4.43	4.64	4.86
	15	3.60	3.73	3.87	4.13	4.33	4.53
	16	3.38	3.50	3.63	3.88	4.06	4.25
	17	3.18	3.29	3.41	3.65	3.82	4.00
	18	3.00	3.11	3.22	3.44	3.61	3.78
	19	NR	NR	3.05	3.26	3.42	3.58
	20	NR	NR	NR	3.10	3.25	3.40
	21	NR	NR	NR	NR	3.10	3.24
	22	NR	NR	NR	NR	NR	3.09
	23	NR	NR	NR	NR	NR	DNF
	24	NR	NR	NR	NR	NR	DNF
	25	NR	NR	NR	NR	NR	DNF

- Stock gearing
- Optional included gearing (4S LiPo)
- Recommended gearing for all battery types
- Recommended gearing for 4S LiPo only
- Not recommended
- Does not fit

### E-Revo Brushless Edition Recommended Speed Settings

MAMBA MONSTER		Your Battery Selection and Pinion Gear Selection Determines Your Speed. How Fast Do You Want To Go?				
		25+mph	35+mph	40+mph*	50+mph	65mph & Beyond
#5608 E-Revo Brushless Edition						
Pinion/Spur	18/65	18/65	18/54	18/65	24/54**	
Battery	twin 6-Cell NiMH (12 cell total)	twin 7-Cell NiMH (14 cell total)	twin 2S LiPo (4S total)	twin 3S LiPo (6S total)	twin 3S LiPo (6S total)	
Nominal Voltage	14.4V	16.8V	14.8V	22.2V	22.2V	
mAh	3000+ mAh	4000+ mAh	5000+ mAh	5000+ mAh	5000+ mAh	
Skill Level						

\* With Included Optional Gearing  
 \*\* 24T pinion not included. Optional gearing for high-speed running on smooth surfaces only.

### CAUTION: Read before operating your model with 65+mph gearing!

- The 24/54 ratio for use with 6S LiPo batteries is designed for maximum speed on smooth surfaces only, with steady acceleration to full throttle.
- Do not use this gear ratio for general driving.
- Avoid repetitive starting and stopping.
- Do not use the 24/54 ratio with NiMH batteries or low-capacity LiPo batteries. 5000mAh LiPo batteries are recommended.
- Allow the motor to cool between runs, and monitor motor temperature.
- Do not use the 24/54 gear ratio for off-road running or overheating and damage may result.
- Do not allow the motor temperature to exceed 200° F or damage and motor failure may result.

To accurately monitor motor temperature, Traxxas suggests the #4091 On-Board Temperature Gauge. The gauge features a large LCD screen, on/off button for longer battery life, a min/max temp button, a Centigrade/Fahrenheit button, and a clear Lexan splash guard. Visit your local dealer or Traxxas.com for more information.

If you have questions or need technical assistance, call Traxxas at

**1-888-TRAXXAS**

(1-888-872-9927) (U.S. residents only)