

# EBMX X-9000 FAQ

## **Q: Why did EBMX want to make a controller?**

A: The current controller options on the market were not cutting it... we needed better performance, more features, better reliability, better supply chain relationships and stock on hand. The only way to ensure things were done right was to do it ourselves! This project has been in the works for over 9 months, and it has been hard to stay patient and quiet, especially with recent issues with other controllers. We can't wait for you to experience the EBMX controller for yourself. We are confident you will agree this is the future of electric dirt bike motor controllers.

## **Q: How is this controller tested?**

A: We were just as sick as you were of installing a new (non-EBMX) controller only to have an error before the bike has even run! Rest assured that each controller is bench tested using a dyno and run up to 30kw then stalled out. This is the most violent type of test that can be carried out and we ensure every controller passes this test before leaving the factory to come to you.

## **Q: Water has always been an issue in other controllers, how is the EBMX controller better?**

A: Yes, water ingress in other controllers has been an issue. The EBMX controller is constructed differently. It does not have plugs moulded into the body of the controller (where water can collect), the individual wires run out of the controller then plug together in a waterproof connector. This is the construction that the stock factory controllers have and it provides a significant improvement in the water resistance of the controller.

## **Q: What is the install process like for the EBMX controller and what is included in the kit?**

A: The controllers kit has been designed to fit into the SurRon Light Bee and Talaria Sting without any additional brackets and without the need for any phase cable extensions. Each kit comes in a custom box with greeting card that will prompt you to register for warranty and point you in the right direction for troubleshooting help and info. The components in each kit include Controller, Air Cooled Heat Sink, Harness Adapter (both SurRon and Talaria), Regen Thumb Throttle, Bluetooth Module, Cable Extension and Plug for Programmable 12v Outputs and SW102 (Eggrider) Display.

## **Q: How can adjustments be made to the tunes to dial them in for specific types of riding and my needs?**

A: EBMX have developed a free comprehensive app (Apple and Android) that works with the controller via Bluetooth. This app allows extensive control and adjustments to be made to the feeling of the tune.

**Q: How does the 12v output for the controller work?**

A: The controllers have a inbuilt DC/DC converter that output 12v and up to 5A, there are 4 different programmable outputs that can be used for a wide range of applications such as coolant pumps, high power head lights and other 12v applications. Since this is built into the controller, it can be programmed and controlled using the EBMX App to suit your specific application and needs.

**Q: Will I be able to control speed limits in different modes on my bike?**

A: Yes, there are two main modes (street and race). You are able to set different speed limits (and multiple power level steps) in each of the modes. For example, you can have the street mode limited to 45km/hr and then race mode at 125km/hr and you can easily swap between the modes as required.

**Q: What if I have a different motor in my bike (KO?) What needs to be done to the controller to make it run? What if I have an encoder motor vs a hall sensor motor?**

A: EBMX have custom tune maps for a multitude of motors (Including KO, QS, ME....). All tunes will be available on the app and able to be swapped as needed. The EBMX controller functions flawlessly with both encoder and hall sensor motors.

**Q: What if I want to ride a wheelie while holding an ice cream in my right hand and I'm not sure I'll be able to do that because I will have to let the throttle off?**

A: What a predicament! Fear not thought, we have you covered. You can use the App to swap the regen thumb throttle over to being used as a left-hand thumb throttle and keep that wheelie going for as long as it takes you to eat your ice cream, assuming you have the skills to pull it off. There are many features and adjustments that can be made using the controller... best you get one for yourself and start having a play to discover everything it can do!

