

# USEFUL TIPS

FOR MGM CONTROLLERS X2-SERIES ESCs

**DO NOT EXCEED THE MAX VOLTAGE  
DO NOT CHANGE POLARITY**

DATA SHEET  
HIGH POWER



DATA SHEET  
LOW POWER



FAQ



DOWNLOAD  
CONTROLLER 2



OUR 63V ESCs are made in **OPTO version**, meaning, they don't have an internal BEC. That's why you need to feed your receiver.

### 1/ BY USING AN EXTERNAL BEC

2/ By using separate 2s Li-po battery (recommended)

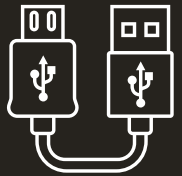
EXTERNAL  
BEC



### HOW TO CONNECT ESC TO YOUR COMPUTER

1/ Run the **CONTROLLER 2 PC** application

2/ Connect the ESC to your battery + turn ON the ESC



### HOW TO READ OUT THE HISTORY FROM YOUR ESC

1/ Run the **CONTROLLER 2 PC** application

2/ Connect the ESC to your battery + turn ON the ESC

3/ Choose "History" tab in your Controller 2 application

4/ Click "Read"

5/ Export the **.xls** and **.hdf** files by clicking "Save history"

YT VIDEO



SEND US  
YOUR LOG



**DON'T FORGET TO SAVE THE LOG  
IT RE-WRITES ITSELF WITH EACH STARTUP**

### RECOMMENDED SETTINGS FOR THE FIRST RUN

There are plenty of parameters you can adjust to get your setup working with the highest possible efficiency. It's good to start with the default settings and perform first test run.

|     |                     |              |  |
|-----|---------------------|--------------|--|
| P52 | Motor timing        | 15°          | recommended for LMT motors                           |
| P16 | Acceleration        | min. 2.5 sec | to keep the peak current low during the acceleration |
| P22 | Brake intensity     | 95 %         | makes the motor stop on the dime                     |
| P21 | Freewheel           | Yes          | freewheel as you know it                             |
| P83 | Min. starting power | 1.5 %        | for smoother startup                                 |



# BATTERY SETTINGS



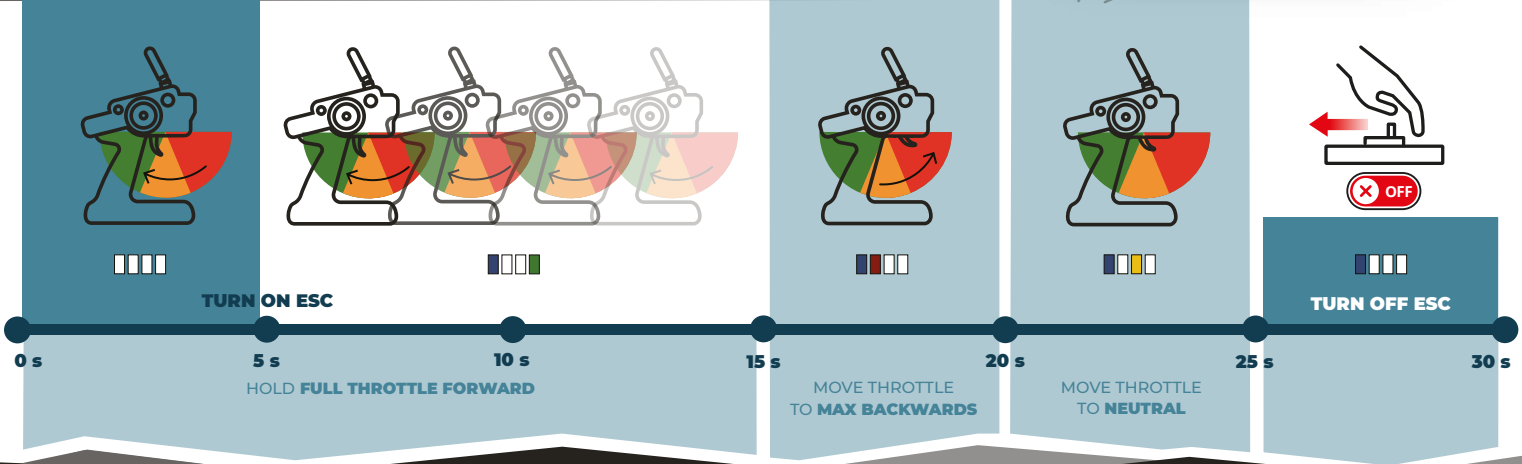
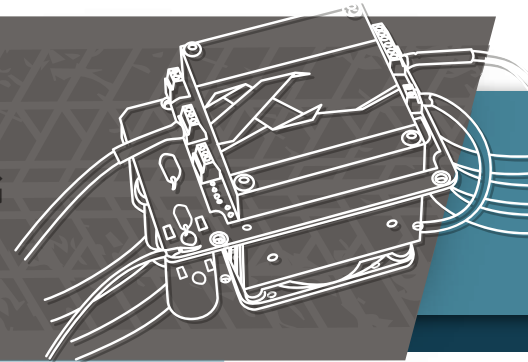
|     |                                  |                                     |
|-----|----------------------------------|-------------------------------------|
| P42 | Controller feeding               | UNIVERSAL UNI                       |
| P43 | Number of cells                  | according to your battery pack      |
| P44 | Cut-off voltage per cells        | 3.6 V                               |
| P45 | Empty battery behavior           | power reduction + prewarning by P77 |
| P77 | Empty battery in advance warning | 3.7 V                               |

Recommended settings for LI-PO batteries (for cars and boats).  
You will prevent possible damage to your batteries by setting these parameters correctly.

## HOW TO PAIR ESC WITH YOUR TRANSMITTER



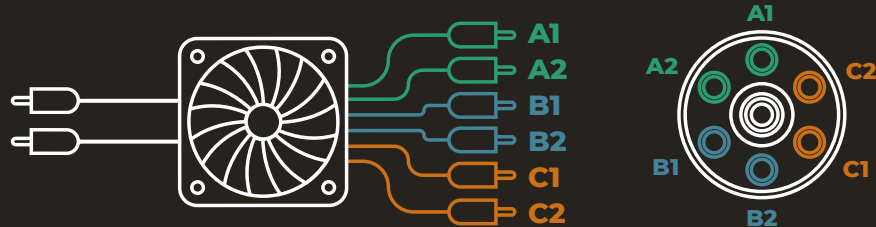
## ESC - TRANSMITTER PAIRING



## CONNECTING MGM ESC TO LMT MOTOR

To change the motor spinning direction, swap phases A and B.

YT VIDEO



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www.mgm-controllers.com

If you have any questions, contact us at [info@mgm-controllers.com](mailto:info@mgm-controllers.com)