USEFUL TIPS

FOR MGM CONTROLLERS X2-SERIES ESCs

MGM CONTROLLERS ®

DO NOT EXCEED THE MAX VOLTAGE
DO NOT CHANGE POLARITY

DATA SHEET HIGH POWER

DATA SHEET LOW POWER

FAQ

DOWNLOAD CONTROLLER 2

EXTERNAL BEC

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

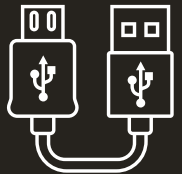2/ By using separate 2s Li-po battery (recommended)

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.

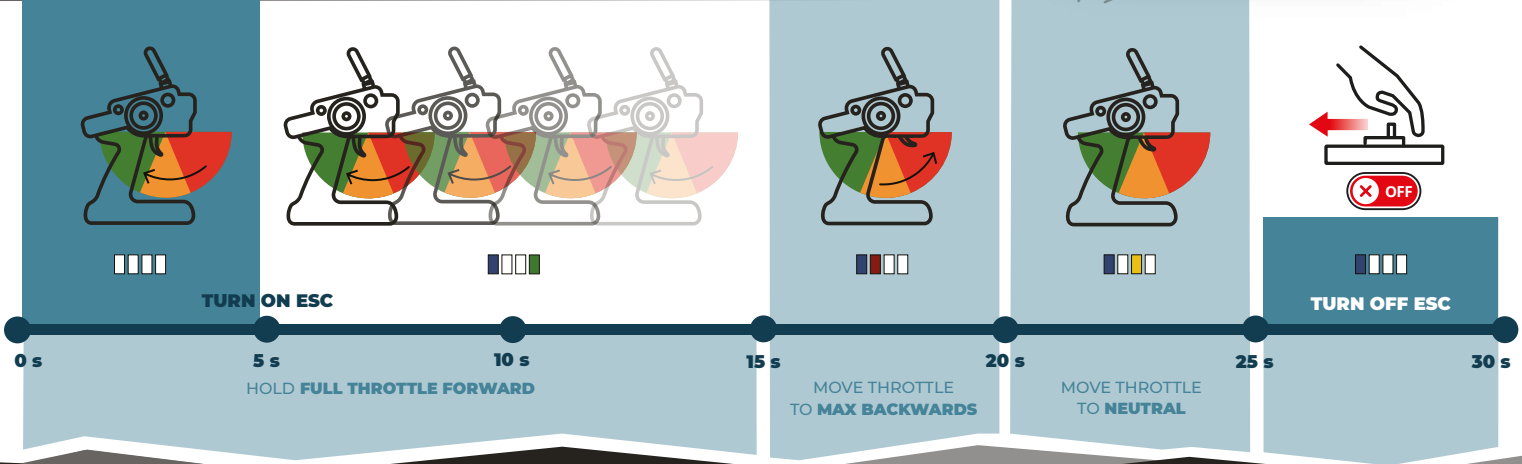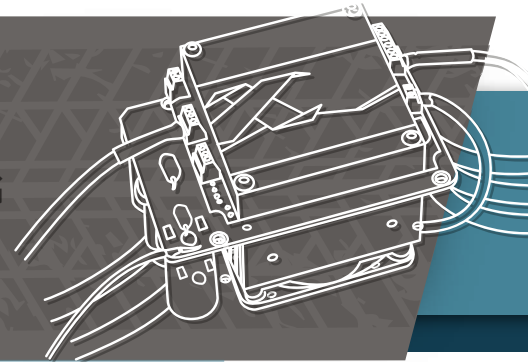| P52	Motor timing	15°	recommended for LMT motors
P16	Acceleration	min. 2.5 sec	to keep the peak current low during the acceleration
P22	Brake intensity	95 %	makes the motor stop on the dime
P21	Freewheel	Yes	freewheel as you know it
P83	Min. starting power	1.5 %	for smoother startup

BATTERY SETTINGS

		UNIVERSAL UNI
P42	**Controller feeding**	
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.
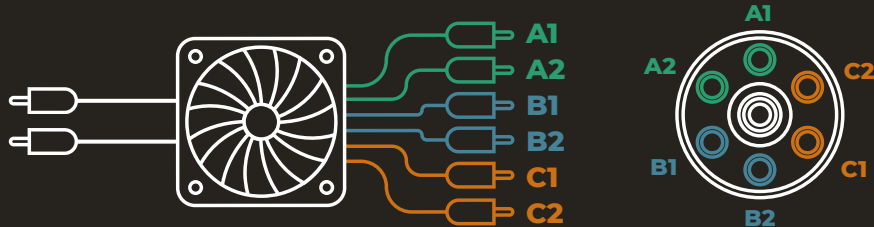

HOW TO PAIR ESC WITH YOUR TRANSMITTER

ESC - TRASMITTER PAIRING

TURN ON ESC

TURN OFF ESC

0 s	5 s	10 s	15 s	20 s	25 s	30 s

HOLD **FULL THROTTLE FORWARD**

MOVE THROTTLE TO **MAX BACKWARDS**

MOVE THROTTLE TO **NEUTRAL**

YT VIDEO

CONNECTING MGM ESC TO LMT MOTOR

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

A1
A2
B1
B2
C1
C2