

INSTRUCTION MANUAL





- 1. Electrical Connection
- Before connecting the ESC to related components, ensure proper insulation of all wires and connectors. Short circuits can damage the ESC.
- 2. Power Compatibility
- Prior to using this ESC, carefully review the specifications of your power system and chassis. Ensurea rational power combination to avoid motor overload, preventing damage to the ESC.
- If welding is required for the ESC's input/output wires or connectors, use a welding device with a minimum power of 60W to ensure reliable connections.
- Safety Testing
 For your safety and that of others, perform wiring tests with the vehicle suspended to avoid
- accidents.
 5. Temperature Limits
- Avoid exceeding an external temperature of 90°C/194°F for the ESC. High temperatures can damage the ESC and potentially harm the motor.
- damage the ESC and p

 6. Disconnecting Power

After use, remember to disconnect the battery from the ESC. Failure to do so may result in energy consumption, leading to battery or ESC failure. We are not responsible for any damage

01 Features

- 1. The INJORA MBL32, based on the AM32 firmware, is meticulously tailored for Micro crawlers and is programmable
- 2. Smooth and linear at low speeds, powerful and aggressive at high speeds.
- 3. Runs more quietly than brushed systems, producing virtually no noise.
- 4. MBL32 features a built-in BEC with adjustable output: 6V/7.4V
- 5. The MBL32 ESC is preset for the INJORA 1621 Purple Viper Motor. For the 2204 Fat Viper Motor or others, adjust settings using our website tutorials

02 Begin to Use the New ESC

ESC Specifications

Part Number: MBL32

BEC: Max 3A

Max.Current: 30A

BEC Output: 6.0v/7.4V(adjustable by DIP switch) (1)

LiPo Cells: 2-3S

Compatible Motors: INJORA 1621/2204

Motor Connectors: PH 2.0 Dimensions(L*w*h): 30*22*11mm

Applications: 1/18 1/24 RC Crawler car

Weight: 16g

03 Connecting the Motor to the ESC

Quick Start Guide

1. Connecting the ESC, Motor, Receiver, and Battery

Follow the wiring diagram included with this manual to connect the ESC, motor, receiver, and battery (transmitter, receiver, and 2-3S LiPo battery need to be provided by the user). Ensure the battery is fully charged.

2. Turning On the ESC

To Turn On the ESC: Press and hold the power switch button until the ESC powers on. The power switch indicator light will remain on, indicating that the ESC is successfully powered on.

3. Connecting the Transmitter

After turning on the ESC, turn on the power switch of the transmitter. The ESC indicator light will change from red to green, indicating a successful connection.

4. Indicator Light Instructions

ESC Power Switch Indicator Light:

Green light on continuously: ESC is powered on.

Light off: ESC is powered off.

ESC Status Indicator Light:

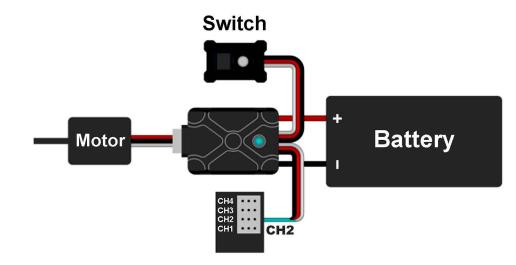
Red light: Connection not yet successful.

Green light on continuously: Connection successful.

NOTICE:

- ① Always disconnect the battery from the system when you have finished operating your vehicle. The system's switch only controls power to the receiver and servos. The system will continue to draw current when connected to the battery, resulting in possible damage to the battery through over-discharge.
- ② The INJORA brushless ESC only supports INJORA brushless motors. We cannot guarantee compatibility with products from other brands. Please do not pair INJORA ESC with motors from other brands, or vice versa. Any damage resulting from such use is not covered under our warranty.

Connections



IJ	1	2	DIP SWITCH	BEC OUTPUT
	OFF	OFF	ON KE	6.0V
	ON	OFF	ON KE	7.4V

04 Parameter Settings

Operating Parameters

Battery Type	Li-po
Forward Force	100%
Reverse Force	100%
Brake Force	100%
Drag Brake Force	100%

The parameters have been pre-configured at the factory. If you wish to customize the settings using the firmware, please visit our website to download the relevant drivers and firmware tools, as well as the accompanying tutorials.

05 Troubleshooting

PROBLEM	SOLUTION		
The ESC power switch light	Ensure all connections are secure.		
does not illuminate when	Charge the battery or replace it with a fully charged one.		
pressed and held.	Repair or replace the ESC power switch.		
Steering direction is incorrect.	Adjust the reverse direction setting on the transmitter.		
	Ensure all connections are secure.		
ESC power switch light is solid green, but the ESC	Make sure the ESC plug is connected to CH2 on the receiver.		
indicator light is red.	Ensure the transmitter is powered on.		
0	Ensure good reception between transmitter and receiver		
	Ensure good reception between the transmitter and receiver.		
Operation is not smooth,	Verify that the ESC is correctly programmed with the appropriate		
experiencing stuttering.	parameters for the motor and battery.		
	Adjust or replace the gear.		
	Ensure all system programming matches your installed systems requirements for safety		
	Ensure all receiver connections are correct and secure		
Steering servo operates but	Test the system apart from the vehicle system and replace system as needed		
the system doesn't run	Recharge or replace batteries		
	Ensure all system connections are secure		
	Adjust throttle travel or other throttle settings on the transmitter and the system		
	Adjust transmitter settings, such as trim, throttle travel, etc.		
System slows but will not	Ensure system settings are correct for system		
stop	Calibrate throttle control to system		

If you encounter any issues during use, please contact us through our official website.



We are committed to resolving your concerns and ensuring a smooth experience with our products.

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