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Hobbywing 38010803 | 38010804

EzRun MAX6 G2 Combo User Manual

Brand: Hobbywing

1. Product Overview

The Hobbywing EzRun MAX6 G2 Combo features the MAX6 G2 Electronic Speed Controller (ESC) and the 5690SD 1250KV G2 Sensored Brushless Motor. This powerful system is designed for high-performance RC applications, offering robust control and advanced features.

Key Features:

- **Waterproof Sensor Interface:** Enhances waterproof and dustproof performance, allowing operation in harsh conditions like sediment, ice, snow, and water.
- **High Current Capacity:** Rated at up to 200 amps, suitable for high-powered builds.
- **Intelligent Freewheeling Technology:** Reduces heat generation, improving efficiency, temperature performance, stability, and reliability.
- **Integrated Bluetooth Module:** Allows direct connection to a mobile app for parameter setting, data reading, and firmware upgrades without additional devices.
- **Powerful Built-in BEC:** Delivers a continuous current of 8A (instant 25A) with support for 6V/7.4V/8.4V switching, compatible with a wide range of high-voltage servos.
- **Multiple Protection Functions:** Includes battery low voltage protection, ESC and motor overheat protection, signal loss protection, and current protection.
- **Data Logging:** View various running data via the HW LINK app.
- **Firmware Upgrade Support:** Ensures access to the latest functions and improvements.

2. Safety Precautions

Please read and understand all safety information before operating the EzRun MAX6 G2 Combo. Improper use can lead to damage, injury, or fire.

- Before using this product, read the instruction manual carefully. Ensure that the equipment is used appropriately to avoid damaging the ESC. Wrong usage will overheat and damage the electronics.
- It is important to ensure that all wires soldered are properly secured to avoid short circuits from happening. A good soldering station is recommended to do such a job to avoid overheating the circuit board as well as to ensure connections are properly soldered.

- Even though the product has relevant protective measures, always use it in a safe manner in accordance with the operating environment noted in the manual (e.g., voltage, current, temperature, etc.).
- Always remember to disconnect the battery each time after using it. Failure to do so will cause the battery to be completely discharged, resulting in an unpredictable danger.

3. Package Contents

Verify that all items are present in your package:

- (1) Ezrun MAX6 G2 ESC
- (1) Ezrun Brushless Motor (5690SD 1250KV G2)
- (1) User's manual

4. Product Visuals



Figure 4.1: The EzRun MAX6 G2 ESC and the 5690SD 1250KV G2 motor, showcasing their compact design and robust build. The ESC features cooling fins and a fan for heat dissipation, while the motor displays its ribbed casing for efficient cooling.



Figure 4.2: A detailed view of the EzRun MAX6 G2 ESC and 5690SD 1250KV G2 motor, highlighting the various wiring connections including power input, motor phase wires, and sensor cable. This image provides a clearer perspective on the connectivity options.

5. Setup Guide

Follow these steps for proper installation and initial setup of your EzRun MAX6 G2 Combo:

1. **Mounting the ESC and Motor:** Securely mount the ESC and motor in your RC vehicle using appropriate screws and mounting hardware. Ensure adequate airflow around both components for cooling.
2. **Motor Connection:** Connect the three phase wires from the ESC to the motor. For sensored operation, connect the sensor cable from the motor to the ESC's sensor port. Ensure the sensor cable is properly aligned and secured.
3. **Battery Connection:** Solder appropriate high-current connectors (e.g., XT90, EC5) to the ESC's battery input wires if not already present. Connect your LiPo battery pack to the ESC. Ensure correct polarity.
4. **Receiver Connection:** Connect the ESC's throttle cable to the throttle channel (usually Channel 2) on your RC receiver.
5. **Power On:** Turn on your transmitter first, then connect the battery to the ESC. The ESC will perform a self-test and emit a series of beeps.
6. **Throttle Calibration:** Perform throttle range calibration according to the detailed instructions in the full user manual (refer to the included manual for specific steps). This ensures proper communication between your transmitter and the ESC.
7. **Bluetooth App Connection:** Download the HW LINK app on your mobile device. Turn on the ESC, then open the app and connect to the ESC via Bluetooth for parameter settings and data logging.

6. Operation

Once set up, the EzRun MAX6 G2 Combo is ready for operation. Always ensure your vehicle is on a stand or clear of obstacles before applying throttle.

- **Starting the Vehicle:** With the transmitter on and battery connected, gently apply throttle. The ESC provides

smooth and linear power delivery.

- **Driving Modes:** The ESC supports various driving modes and adjustable parameters (e.g., punch, drag brake, timing) which can be configured via the HW LINK app. Experiment with settings to match your driving style and vehicle requirements.
- **Turbo Timing:** For advanced users, the turbo timing setting can be enabled and adjusted via the app when using a matching sensored motor like the 5690SD G2, providing a significant boost in RPM at full throttle.
- **Monitoring:** Utilize the data logging function in the HW LINK app to monitor real-time parameters such as temperature, voltage, and RPM during operation.
- **Shutting Down:** Always disconnect the battery from the ESC after use. This prevents accidental discharge and ensures safety.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your EzRun MAX6 G2 Combo.

- **Cleaning:** After each use, especially in dusty or wet conditions, clean the ESC and motor to remove dirt, debris, and moisture. Use a soft brush or compressed air.
- **Inspecting Connections:** Periodically check all wiring connections (battery, motor, receiver, sensor) for looseness, corrosion, or damage. Re-solder or replace as necessary.
- **Fan Check:** Ensure the cooling fan on the ESC is free of obstructions and spins freely. Clean if necessary.
- **Firmware Updates:** Regularly check the HW LINK app for available firmware updates for your ESC. Updating the firmware can improve performance, add new features, and fix bugs.
- **Storage:** When not in use for extended periods, store the ESC and motor in a dry, cool place, disconnected from batteries.

8. Troubleshooting

This section addresses common issues you might encounter with your EzRun MAX6 G2 Combo.

Problem	Possible Cause	Solution
ESC does not power on.	Battery not connected, low battery voltage, faulty power switch, damaged ESC.	Check battery connection and charge. Ensure power switch is on. Inspect ESC for visible damage.
Motor not responding or erratic.	Incorrect throttle calibration, loose motor wires, sensor cable issue, motor damage.	Recalibrate throttle. Check all motor wire connections. Verify sensor cable is secure and undamaged.
ESC overheats.	Overgearing, insufficient cooling, excessive load, incorrect ESC settings.	Reduce gearing. Ensure proper airflow and fan operation. Adjust ESC settings (e.g., timing, punch). Reduce load on the vehicle.
Vehicle loses signal.	Transmitter battery low, receiver issue, signal interference.	Check transmitter battery. Ensure receiver is properly connected and powered. Avoid areas with strong interference.
Bluetooth connection issues.	ESC not powered on, app not updated, mobile device Bluetooth off.	Ensure ESC is on. Update HW LINK app. Turn on Bluetooth on your mobile device. Try restarting both devices.

9. Technical Specifications

Specification	Detail
Brand	Hobbywing
Model	MAX6 G2 Combo (MAX6 G2 + 5690SD 1250KV G2)
Item Model Number	38010803 | 38010804
Product Dimensions	9 x 3.9 x 6.5 inches
Item Weight	3.5 pounds
Power Source	Battery Powered
Engine Type	Electric
Voltage	8.4 Volts (BEC output)
Color	Red
Manufacturer	Hobbywing Technology
Manufacturer Recommended Age	3 years and up
UPC	088718507653

10. Warranty and Support

Hobbywing products are manufactured to high-quality standards and are backed by a manufacturer's warranty against defects in materials and workmanship. The specific warranty period and terms may vary by region and product type. Please refer to the official Hobbywing website or contact your local distributor for detailed warranty information.

For technical support, troubleshooting assistance, or warranty claims, please contact Hobbywing North America directly or visit their official support channels. Ensure you have your product model number and purchase details ready when contacting support.

Hobbywing North America Contact:
Refer to the official Hobbywing website for the most current contact information and support resources.

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