HOBBYWING XeRUN XD10 PRO

HOBBYWING XeRUN XD10 PRO 1/10 Scale Electronic Speed Controller Instruction Manual



Image: The HOBBYWING XeRUN XD10 PRO Electronic Speed Controller in black, designed for 1/10 scale RC drift applications.

1. Introduction

This manual provides comprehensive instructions for the HOBBYWING XeRUN XD10 PRO Electronic Speed Controller (ESC), specifically designed for 1/10 scale RC drift applications. The XeRUN XD10 PRO is engineered to deliver precise control and reliable performance for competitive and recreational drifting.

The XeRUN XD10 PRO ESC is available in multiple colors, including Black, Red, and Purple, allowing for customization to match your RC vehicle's aesthetics.



Image: RC drift cars on a track, demonstrating the intended use environment for the HOBBYWING XeRUN XD10 PRO ESC.

2. Key Features

- **Optimized for Drift:** HOBBYWING's first ESC specifically developed and programmed for RC drift applications, ensuring smooth and precise control.
- **Powerful Cooling Fan:** Equipped with a high-performance cooling fan as standard to maintain optimal operating temperatures during intense use.
- **High-Quality Wires:** Features 13AWG ultra-soft silicone wires for efficient power transfer and flexibility.
- **Battery Reverse Polarity Protection:** Integrated internal protection circuit safeguards the ESC from damage due to incorrect battery connection.
- **High-Voltage BEC:** Supports high-voltage Battery Eliminator Circuit (BEC) for compatibility with various servos and accessories.
- **Advanced Programming:** Allows for smooth setting changes and firmware upgrades through a new communication protocol, compatible with LCD Program Box V2 and OTA Programmer.
- **Real-time Data Monitoring:** Easily monitor real-time operating status and data logs via a connected smartphone and OTA module.
- **Seamless Connectivity:** Offers convenient setup and parameter adjustments using a smartphone application and the OTA module.



Image: HOBBYWING XeRUN XD10 PRO ESCs in black, red, and purple, each equipped with a powerful cooling fan for optimal thermal management.

3. Safety Precautions

Always observe the following safety guidelines to prevent injury or damage to the product and surrounding equipment:

- Read the entire manual before use to ensure proper operation.
- Ensure all connections are correct and secure before powering on the ESC. Incorrect wiring can cause damage.
- Avoid short circuits. Always insulate exposed wires and connectors.
- Do not operate the ESC in wet conditions unless explicitly stated as waterproof.
- Keep the ESC away from heat sources and ensure adequate ventilation to prevent overheating.
- Disconnect the battery from the ESC when not in use to prevent accidental activation or discharge.
- Handle batteries with care. Refer to your battery's instruction manual for specific safety information.
- Keep out of reach of children.

4. Setup Guide

4.1 Wiring Connections

Connect the ESC to your motor, battery, and receiver according to the following steps. Ensure all connections are firm and correct.

1. **Motor Connection:** Connect the three motor wires from the ESC to your brushless motor. For sensorless motors, the order typically does not matter. For sensored motors, ensure the sensor cable is also connected correctly.

2. **Battery Connection:** Connect the battery input wires (black, 13AWG-250mm x 2) from the ESC to your 2S LiPo battery. The ESC features reverse polarity protection, but always double-check positive (+) and negative (-) connections.
3. **Receiver Connection:** Plug the ESC's signal cable into the throttle channel (usually channel 2) of your RC receiver.



Image: The XeRUN XD10 PRO ESC featuring its 13AWG ultra-soft silicone wires for robust and flexible connections.



Image: Diagram illustrating the battery reverse polarity internal protection circuit, which prevents damage if the battery is connected incorrectly.



Image: The XeRUN XD10 PRO ESC, highlighting its support for high-voltage BEC, providing stable power to connected components.

4.2 ESC Calibration

Perform ESC calibration with your radio system to ensure proper throttle and brake response.

1. Turn on your transmitter and ensure the throttle trim is at neutral.
2. Hold the ESC's SET button, then turn on the ESC. Release the SET button when the LED starts flashing.
3. Set the neutral point, full throttle, and full brake points as indicated by the ESC's LED and beeps.

4.3 Programming the ESC

The XeRUN XD10 PRO ESC can be programmed using a HOBBYWING program box (LCD Program Box V2) or an OTA Programmer connected to a smartphone.



Image: The HOBBYWING program box and OTA module, enabling smooth setting changes and firmware upgrades via a new communication protocol.



Image: A smartphone displaying the HOBBYWING app, demonstrating easy setting changes and programming with the OTA module.

5. Operating Instructions

5.1 Basic Operation

After completing the setup and calibration, turn on your transmitter, then the ESC. The ESC is ready for operation when the LED indicates a ready state (refer to the specific LED indicator guide in the full manual for details).

5.2 Parameter Adjustment for Drift

The XeRUN XD10 PRO offers various programmable parameters specifically optimized for drift performance. These can be adjusted via the program box or smartphone app.



Image: A smartphone screen displaying programmable parameters optimized for drift, allowing fine-tuning of the ESC's performance.

5.3 Real-time Data Monitoring

Utilize the HOBBYWING app with the OTA module to monitor real-time data such as speed, throttle percentage, RPM, ESC voltage, ESC current, and temperatures (ESC and motor). This feature helps in optimizing performance and diagnosing issues.

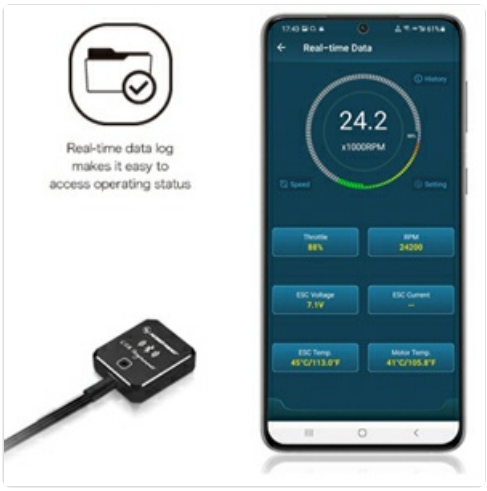


Image: A smartphone screen displaying real-time data logs, providing easy access to the ESC's operating status and performance metrics.

6. Maintenance

- **Cleaning:** Regularly clean the ESC and cooling fan to remove dust and debris, which can hinder cooling performance. Use a soft brush or compressed air.
- **Fan Inspection:** Periodically check the cooling fan for any obstructions or damage. Ensure it spins freely.
- **Firmware Updates:** Keep your ESC's firmware updated to the latest version to benefit from performance improvements and bug fixes. Use the HOBBYWING program box or OTA module for updates.
- **Wire Inspection:** Inspect all wires and connectors for signs of wear, fraying, or damage. Replace any damaged components immediately.

7. Troubleshooting

If you encounter issues with your XeRUN XD10 PRO ESC, consider the following common troubleshooting steps:

- **No Power:** Check battery connection, ensure battery is charged, and verify all wires are securely connected.
- **Motor Not Responding:** Re-calibrate the ESC with your transmitter. Check motor wire connections and sensor cable (if applicable). Ensure the motor is not damaged.
- **Overheating:** Ensure the cooling fan is operating correctly and is free of obstructions. Check motor timing and gear ratio for excessive load.
- **Erratic Behavior:** Check for radio interference. Ensure all connections are secure. Re-calibrate the ESC.
- **ESC LED Error Codes:** Refer to the full HOBBYWING manual or website for a detailed list of LED error codes and their corresponding solutions.

8. Specifications

品番・品名	
30112614	HOBBYWING XeRUN XD10 PRO ブラック 【1/10用】
30112615	HOBBYWING XeRUN XD10 PRO レッド 【1/10用】
30112616	HOBBYWING XeRUN XD10 PRO パープル 【1/10用】
タイプ	
スケール	1/10th
ブラシ/ブラシレス	ブラシレス
センサー/センサーレス	センサー/センサーレス
防水	未対応
仕様	
連続/最大電流	100A/800A
入力電圧	2S LiPo
BEC出力	5-7.4V，5A
ワイヤー & コネクター	
バッテリー用入力ワイヤー	ブラック-13AWG-250mm-2本
モーター用出力ワイヤー	ブラック-13AWG-250mm-3本
バッテリー用入力コネクター	無し
モーター用出力コネクター	3.5mmオスプラグ

ファン	
サイズ	30x30x10mm
対応電圧	5-7.4V
入力コネクター	BECコネクター
プログラム変更について	
スイッチボタン	不可
30501003 LEDプログラムボックス	不可
30502001 LCDプログラムボックス V2	可能
30850400 OTAプログラマー	可能
プログラミングポート	本体BECに接続
ファームウェア	
ファームウェアアップグレード	可能
サイズ & 重量	
サイズ	40.7x35.0x32.0mm(w/Fan)
重量	95g(w/Wires)
適合	
対応モーター	センサー / センサーレス両対応
モーター制限	8.5T
適合車種	1/10スケール　ドリフト

Image: Detailed specifications tables for the HOBBYWING XeRUN XD10 PRO ESC, covering various technical parameters and compatibility.

HOBBYWING XeRUN XD10 PRO ESC Specifications

Category	Specification	Value
Product Information	Model Number (Black)	30112614
	Model Number (Red)	30112615
	Model Number (Purple)	30112616
Type	Scale	1/10th
	Motor Type	Brushless
	Sensor Support	Sensored / Sensorless
	Waterproof	Not Supported
Electrical Specifications	Continuous / Peak Current	100A / 800A
	Input Voltage	2S LiPo
	BEC Output	5-7.4V, 5A
Wires & Connectors	Battery Input Wire	Black-13AWG-250mm (x2)
	Motor Output Wire	Black-13AWG-250mm (x3)
	Battery Connector	None

	Motor Output Connector	3.5mm Male Plug
Cooling Fan	Size	30x30x10mm
	Operating Voltage	5-7.4V
	Input Connector	BEC Connector
Programming & Firmware	Program Change via Switch Button	Not Possible
	Program Change via 30501003 LED Program Box	Not Possible
	Program Change via 30502001 LCD Program Box V2	Possible
	Program Change via 30850400 OTA Programmer	Possible
	Programming Port	Connects to main BEC
Firmware	Firmware Upgrade	Possible
Physical Characteristics	Dimensions (L x W x H)	40.7x35.0x32.0mm (with Fan)
	Weight	95g (with Wires)
Compatibility	Compatible Motor Type	Sensored / Sensorless
	Motor Limit	8.5T
	Compatible Vehicle Type	1/10 Scale Drift

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact your local HOBBYWING distributor or visit the official HOBBYWING website. Keep your purchase receipt as proof of purchase for warranty claims.
Official HOBBYWING Website: www.hobbywing.com

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question