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## Yokomo BL-RPX3-1

# YOKOMO RPX3-1 RPX3 Ver. 2 Competition ESC Racing Performer User Manual

## 1. INTRODUCTION

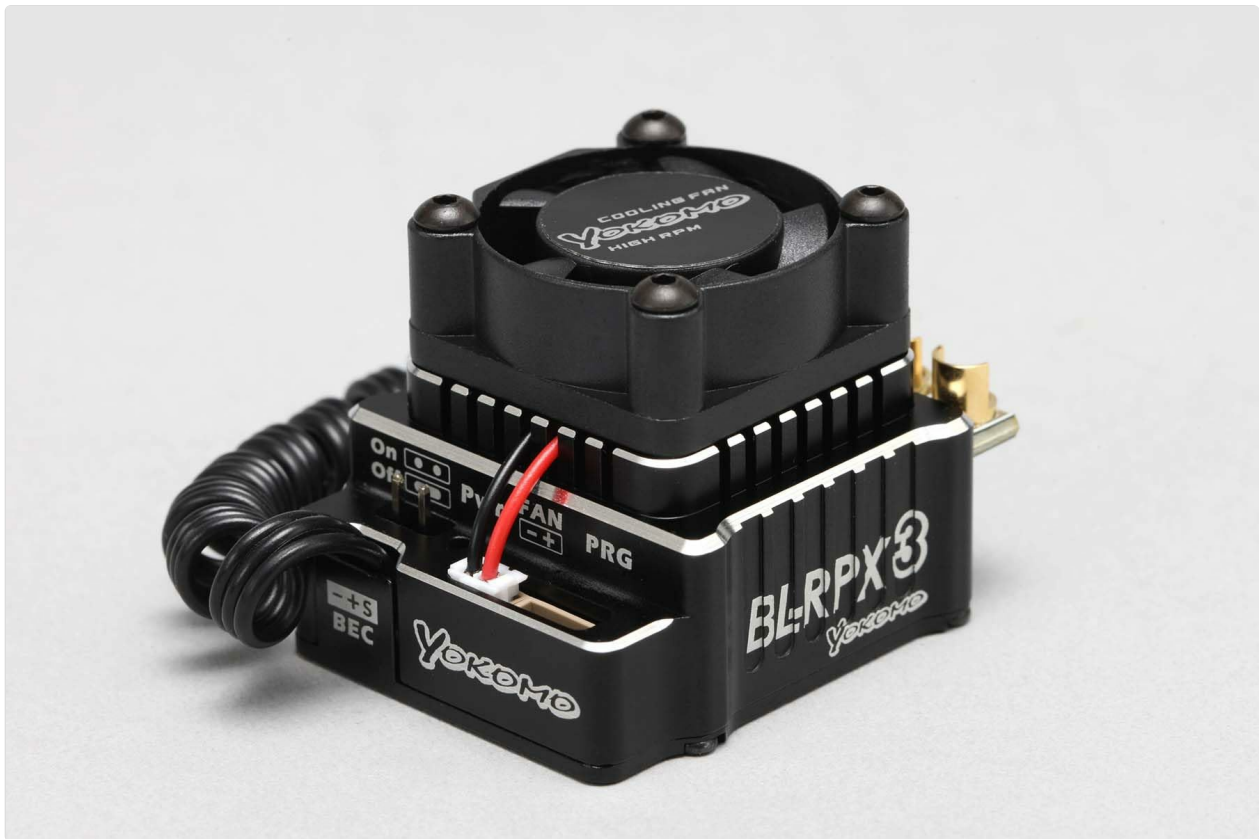
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Thank you for choosing the YOKOMO RPX3-1 RPX3 Ver. 2 Competition ESC Racing Performer. This advanced brushless speed controller is designed for high-performance RC racing applications, offering enhanced power feel settings and braking efficiency. This manual provides essential information for the proper setup, operation, and maintenance of your ESC to ensure optimal performance and longevity.

## 2. PRODUCT OVERVIEW

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The RPX3 Ver. 2 ESC features a robust design with improved internal components for superior control and durability. Key components include the main ESC unit, power cables, a capacitor bank for stable power delivery, a high-RPM cooling fan, and mounting screws.



**Figure 2.1:** Components of the YOKOMO RPX3-1 RPX3 Ver. 2 Competition ESC. This image displays the main ESC unit with its heat sink, the bundled power cables (12AWG silicon wire), a capacitor bank, a separate cooling fan labeled 'YOKOMO COOLING FAN HIGH RPM', and a set of four mounting screws.

The ESC unit includes clearly marked ports for power (PWR), fan connection (FAN), and programming (PRG), along with an On/Off switch for convenient control.

### 3. SETUP

1. **Mounting the ESC:** Securely mount the ESC unit in your RC vehicle chassis using the provided screws. Ensure adequate airflow around the unit for optimal cooling.
2. **Connecting the Motor:** Connect the motor wires to the corresponding output terminals on the ESC. Refer to your motor's instructions for correct phase connections.
3. **Connecting the Battery:** Connect the battery power cables to the ESC's power input. Ensure correct polarity (red to positive, black to negative).
4. **Connecting the Receiver:** Plug the ESC's signal cable into the throttle channel of your RC receiver.
5. **Connecting the Cooling Fan:** Connect the included cooling fan to the 'FAN' port on the ESC. The fan is crucial for maintaining optimal operating temperatures during intense use.
6. **Initial Programming:** The RPX3/RPXS V2 ESC requires an R26P/R26P3 programmer for initial setup and parameter changes. Connect the programmer to the 'PRG' port and update the firmware as necessary. Adjust settings such as throttle response, braking force, and other parameters according to your driving style and track conditions.

### 4. OPERATING

The RPX3 Ver. 2 ESC introduces significant improvements for enhanced driving experience:

- **Power Feel Settings:** The 'compress' setting, which influences throttle feel, can now be adjusted on both

the positive and negative sides, allowing for finer tuning of acceleration characteristics.

- **Braking Efficiency:** The braking system has been improved for better response and increased strength, enabling powerful and precise braking, especially at high speeds.
- **Party Mode:** A new 'Party Mode' feature allows you to limit the maximum throttle opening, which can be useful for practice, new drivers, or specific race regulations.
- **Boost and Turbo Functionality:** The traditional powerful output, boost, and turbo functionalities are maintained, providing explosive power when needed.

Always ensure your battery is fully charged and all connections are secure before operating your RC vehicle.

## 5. MAINTENANCE

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- **Regular Cleaning:** Keep the ESC and cooling fan free from dirt, dust, and debris. Use a soft brush or compressed air for cleaning.
- **Inspect Connections:** Periodically check all electrical connections (motor, battery, receiver, fan) for looseness or damage. Secure any loose connections.
- **Check for Damage:** Inspect the ESC casing and wires for any signs of physical damage, such as cracks, frayed wires, or burnt components.
- **Avoid Moisture:** While the ESC is designed for RC use, avoid exposing it to excessive moisture or water unless it is specifically rated as waterproof.
- **Firmware Updates:** Regularly check the Yokomo website for any available firmware updates for your ESC to ensure you have the latest performance enhancements and bug fixes.

## 6. TROUBLESHOOTING

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- **ESC Not Powering On:**
  - Check battery connection and charge level.
  - Ensure the On/Off switch is in the 'On' position.
  - Verify all power cables are securely connected.
- **Motor Not Responding:**
  - Check motor wire connections to the ESC.
  - Verify receiver signal cable is correctly plugged into the throttle channel.
  - Ensure your transmitter is powered on and bound to the receiver.
  - Check ESC programming for correct motor type and settings.
- **Overheating:**
  - Ensure the cooling fan is properly connected and functioning.
  - Check for obstructions to airflow around the ESC.
  - Review motor gearing; excessive gearing can cause overheating.
  - Consider ambient temperature and driving conditions.
- **Inconsistent Performance:**
  - Check for loose connections or damaged wires.
  - Verify ESC programming settings using the R26P/R26P3 programmer.

- Ensure battery is in good condition and providing consistent power.

If you encounter persistent issues, consult the Yokomo support resources or contact your retailer.

## 7. SPECIFICATIONS

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Feature	Specification
Product Dimensions	3.94 x 3.94 x 3.94 inches
Item Weight	7 ounces
Item Model Number	BL-RPX3-1
Manufacturer Recommended Age	15 years and up
Type	Brushless Speed Controller (ESC)
Version	Ver. 2

## 8. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the official Yokomo website or contact your authorized Yokomo dealer. Keep your proof of purchase for any warranty claims. This product does not include fuel, batteries, paint, glue, oil, grease, or tools.