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› Hobby King Turnigy 9XR 11.1V 2200mAh 1.5C Transmitter Pack User Manual

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Model: Turnigy 9XR 11.1v 2200mAh 1.5C Transmitter Pack

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your Hobby King Turnigy 9XR Safety Protected 11.1V (3S) 2200mAh 1.5C Transmitter Pack. This Lithium Polymer (LiPo) battery is specifically designed for use in compatible radio transmitters, such as the Turnigy 9XR, offering reliable power with built-in safety features. Please read this manual thoroughly before initial use to ensure proper handling, charging, and maintenance, thereby maximizing battery life and ensuring user safety.

2. SAFETY INSTRUCTIONS

Lithium Polymer batteries require careful handling. Failure to follow these safety guidelines can result in fire, personal injury, and property damage.

- **Charging:** Always use a LiPo compatible charger. Never charge unattended. Charge on a non-flammable surface away from combustible materials. Do not exceed the maximum charge rate of 1C (2.2 amps).
- **Discharging:** Do not discharge below 9.0V (3.0V per cell). Over-discharging can permanently damage the battery.
- **Storage:** Store batteries at room temperature in a fireproof container, away from direct sunlight and heat sources. For long-term storage, charge to a storage voltage (typically 3.8V per cell).
- **Damage:** Do not use or charge a battery that is swollen, punctured, or otherwise damaged. Immediately discontinue use and dispose of it safely.
- **Temperature:** Avoid exposing the battery to extreme temperatures. Do not charge or discharge in temperatures below 0°C (32°F) or above 45°C (113°F).
- **Protection Circuit:** This pack includes over-charge, over-discharge, and over-current protection. While these features enhance safety, they do not replace the need for careful handling and monitoring.
- **Disposal:** Dispose of LiPo batteries according to local regulations. Never put them in household trash.

3. PRODUCT OVERVIEW

The Turnigy 9XR Transmitter Pack is a 3-cell (3S) Lithium Polymer battery designed to power compatible radio

transmitters. It features integrated safety circuits for enhanced protection against common battery issues.



Image 1: The Hobby King Turnigy 9XR 11.1V 2200mAh 1.5C Transmitter Pack. This image shows the battery pack with its JST and JST-XH connectors.

Key Features:

- **Capacity:** 2200mAh
- **Voltage:** 11.1V (3S)
- **Constant Discharge:** 1.5C (3.3 amps)
- **Max Charge Rate:** 1C (2.2 amps)
- **Standard Charge Rate:** 0.5C (1.1 amps)
- **Charge Cut-off:** 12.6V
- **Discharge Cut-off:** 9.0V
- **Over Current Cut-off:** 5 amps
- **Dimensions:** 100mm x 33mm x 19mm
- **Weight:** 139g
- **Connectors:** JST and JST-XH
- **Protection:** Over-charge, over-discharge, and over-current protection built-in.

4. SETUP

This battery is designed for use in radio transmitters. Ensure your transmitter is compatible with 3S LiPo batteries and has adequate battery compartment space.

1. **Inspect Battery:** Before installation, visually inspect the battery for any signs of damage, swelling, or punctures. Do not use if damaged.
2. **Prepare Transmitter:** Turn off your radio transmitter. Open the battery compartment.
3. **Connect Battery:** Connect the JST plug of the battery to the corresponding power input connector in your transmitter's battery compartment. Ensure correct polarity. The JST-XH connector is for balance charging.
4. **Position Battery:** Carefully place the battery into the compartment. Ensure it fits without excessive force or bending of the battery pack or wires. *Note: Some transmitters, like certain Hubsan models, may require minor modifications to the battery compartment for a perfect fit. Always verify fitment before closing the compartment.*
5. **Secure Compartment:** Close the battery compartment cover securely.

5. OPERATING

5.1 Initial Charge

It is recommended to fully charge the battery before its first use.

1. Connect the battery's JST-XH balance plug to a compatible LiPo balance charger.
2. Connect the main JST power plug to the charger's main output, if required by your charger.
3. Set your charger to "LiPo Balance Charge" mode for a 3S (11.1V) battery.
4. Set the charge current to 1.1 amps (0.5C standard rate) or up to 2.2 amps (1C maximum rate).
5. Start the charging process and monitor it closely. Disconnect once charging is complete.

5.2 Regular Use

Once installed and charged, the battery will power your transmitter. Monitor your transmitter's battery voltage indicator during use. Discontinue use and recharge the battery when the voltage approaches the discharge cut-off of 9.0V to prevent over-discharge.

6. MAINTENANCE

- **Regular Inspection:** Periodically inspect the battery for any physical damage, swelling, or signs of overheating. Check connectors for wear or corrosion.
- **Cleaning:** Keep the battery and its connectors clean and free from dust and debris. Use a dry, soft cloth for cleaning.
- **Storage:** For short-term storage, keep the battery in a cool, dry place. For long-term storage (more than a few days), charge the battery to a storage voltage (approximately 3.8V per cell or 11.4V for the pack) and store it in a fireproof LiPo bag or container.
- **Avoid Deep Discharge:** Never allow the battery to fully discharge. This can severely reduce its lifespan and capacity.

7. TROUBLESHOOTING

- **Battery Not Charging:**
 - Ensure the charger is correctly set for a 3S LiPo battery.
 - Check all connections (main power and balance lead) are secure and correctly polarized.
 - Inspect the battery for physical damage. If damaged, discontinue use.
- **Short Operating Time:**
 - The battery may not be fully charged. Ensure proper charging procedures are followed.
 - Battery degradation due to age or improper use (e.g., deep discharge). Consider replacing the battery.
- **Battery Does Not Fit Transmitter:**
 - Verify the dimensions of the battery (100x33x19mm) against your transmitter's battery compartment.
 - Some transmitters may require minor modifications to the battery compartment. Proceed with caution if attempting modifications.
- **Battery Swelling:**

Immediately discontinue use and charging. Swelling indicates internal damage and a potential fire hazard. Safely

dispose of the battery according to local regulations.

8. SPECIFICATIONS

Feature	Specification
Brand	Hobby King
Model Name	9XR
Capacity	2200mAh
Voltage	11.1V (3S)
Constant Discharge Rate	1.5C (3.3 Amps)
Max Charge Rate	1C (2.2 Amps)
Standard Charge Rate	0.5C (1.1 Amps)
Charge Cut-off Voltage	12.6V
Discharge Cut-off Voltage	9.0V
Over Current Cut-off	5 Amps
Dimensions (L x W x H)	100mm x 33mm x 19mm
Weight	139g
Connectors	JST & JST-XH
Reusability	Rechargeable
Recommended Use	Radio Transmitters

9. WARRANTY AND SUPPORT

This product is manufactured by Turnigy and distributed by Hobby King. For specific warranty information, please refer to the retailer or manufacturer's official website at the time of purchase. General support for Hobby King products can often be found through their official channels or community forums. Always retain your proof of purchase for any warranty claims.

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