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› SKYRC Engine Head Heater User Manual

SKYRC SK-600066

SKYRC Engine Head Heater User Manual

Model: SK-600066

INTRODUCTION

Thank you for purchasing the SKYRC Engine Head Heater. This device is designed to pre-heat your nitro engine's head, ensuring optimal performance and easier starting, especially in colder conditions. It features LiPo low voltage cutoff detection for safe operation. Please read this manual thoroughly before use to ensure proper operation and to prevent damage.

SAFETY PRECAUTIONS

- Always ensure the engine is cool before attaching the heater.
- Do not operate the heater near flammable materials or liquids.
- Use only with a 12V DC power source.
- Ensure correct polarity when connecting power.
- Keep out of reach of children.
- Disconnect power immediately if any abnormal operation is observed.
- The heater will become hot during operation. Avoid direct contact with the heating element.

PRODUCT OVERVIEW

The SKYRC Engine Head Heater is designed for .19 to .26 sized nitro engines. It comes with XT60 connectors and alligator clips for versatile power connection options. It also features a built-in LiPo low voltage cutoff detection system to protect your battery.



Image 1: The SKYRC Engine Head Heater showing the main heating unit, XT60 connector, and alligator clips for power connection.



Image 2: A close-up diagram illustrating the LED indicator and Power ON/OFF button on the SKYRC Engine Head Heater's control board. The diagram also explains that a red LED indicates heating, and a blinking red LED indicates low voltage.

SETUP

1. **Engine Preparation:** Ensure your nitro engine is clean and free of debris around the cylinder head.
2. **Attach Heater:** Carefully place the SKYRC Engine Head Heater over the engine's cylinder head. Ensure it fits snugly and covers the head completely for efficient heating.
3. **Connect Power:**
 - **Using XT60:** Connect the XT60 connector from the heater to a compatible 12V DC power source (e.g., a LiPo battery with an XT60 output).
 - **Using Alligator Clips:** If using a power supply with binding posts or a car battery, attach the red alligator clip to the positive (+) terminal and the black alligator clip to the negative (-) terminal of your 12V DC power source. Ensure a secure connection.
4. **Verify Connection:** Double-check all connections to ensure they are secure and correctly polarized.

OPERATING INSTRUCTIONS

1. **Power On:** Once connected to a 12V DC power source, press the Power ON/OFF button located on the heater's

control board (refer to Image 2).

- 2. **Heating Indication:** The LED indicator will illuminate red and stay on, signifying that the heater is actively heating the engine head.
- 3. **Pre-heating Time:** Allow the heater to operate for approximately 10-15 minutes, or until the engine head reaches a suitable operating temperature (typically around 60-70°C / 140-158°F). The exact time may vary based on ambient temperature and engine size.
- 4. **Low Voltage Detection:** If the input voltage drops below a safe level for LiPo batteries (e.g., 3.8V per cell for a 3S LiPo), the red LED will start blinking, indicating a low voltage condition. Disconnect the power source immediately and recharge or replace the battery.
- 5. **Power Off:** Once the desired temperature is reached or before starting the engine, press the Power ON/OFF button again to turn off the heater.
- 6. **Remove Heater:** Carefully remove the heater from the engine head. Be cautious as the heater will be hot.

MAINTENANCE

- **Cleaning:** After use, allow the heater to cool down completely. Wipe the exterior with a soft, dry cloth. Do not use liquids or solvents.
- **Storage:** Store the heater in a dry, cool place away from direct sunlight and moisture.
- **Cable Inspection:** Periodically inspect the power cables and connectors for any signs of wear, fraying, or damage. Replace if necessary.
- **No User Serviceable Parts:** The internal components are not user-serviceable. Do not attempt to disassemble the unit.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Heater does not turn on.	No power, incorrect polarity, faulty connection, or power button not pressed.	Check power source (12V DC), ensure correct polarity (+ to +, - to -), verify all connections are secure, and press the Power ON/OFF button.
Red LED is blinking.	Low input voltage (LiPo low voltage cutoff activated).	Disconnect power source immediately. Recharge or replace the LiPo battery.
Heater is not getting hot enough.	Insufficient contact with engine head, low input voltage, or extremely cold ambient temperature.	Ensure heater is snugly fitted. Check power source voltage. Allow more pre-heating time.

SPECIFICATIONS

Model: SK-600066

Input Voltage: 12V DC

Engine Compatibility: .19 to .26 sized Nitro Engines

Connectors: XT60, Alligator Clips

Features: LiPo Low Voltage Cutoff Detection

Dimensions: Approximately 1.97 x 1.97 x 2.48 inches (50 x 50 x 63 mm)

Weight: Approximately 4 ounces (113 grams)

WARRANTY AND SUPPORT

SKYRC products are manufactured to high quality standards. For warranty information and technical support, please refer to the official SKYRC website or contact your local distributor. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, you may visit the [SKYRC Official Website](#).

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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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