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BioLite CSA

BioLite CampStove 2+ Complete Kit User Manual

Model: CSA

1. INTRODUCTION

The BioLite CampStove 2+ Complete Kit is an innovative outdoor cooking and power generation system. It allows users to cook meals, boil water, and charge small electronic devices using renewable biomass fuel such as twigs, sticks, and pinecones. This manual provides comprehensive instructions for the safe and efficient operation, maintenance, and troubleshooting of your CampStove 2+ Complete Kit.



Figure 1: BioLite CampStove 2+ Complete Kit components.

2. COMPONENTS OVERVIEW

The BioLite CampStove 2+ Complete Kit includes the following main components:

- **CampStove 2+ Power Module:** The core unit that burns fuel and generates electricity. Features an integrated USB port and a 3,200 mAh battery.
- **Burn Chamber:** The cylindrical part where biomass fuel is placed and combusted.
- **Portable Grill:** A lightweight grill attachment for cooking over the flame.
- **KettlePot:** A stainless steel pot designed to sit securely on the stove, capable of boiling 1 liter of water.
- **Coffee Press:** An accessory for the KettlePot to brew coffee.
- **FlexLight:** A 100-lumen USB-powered light.
- **Stuff Sacks (2x):** For convenient storage and transport of the components.
- **Micro USB Cable:** For charging the internal battery or external devices.

Fully integrated system

Includes CampStove 2+, Grill, KettlePot with CoffeePress and FlexLight 100



Figure 2: Integrated system showing CampStove 2+, Grill, KettlePot, and Coffee Press.

3. SETUP INSTRUCTIONS

1. **Unpack Components:** Carefully remove all items from the packaging.
2. **Assemble CampStove:**
 - Extend the folding legs of the burn chamber for stability.
 - Attach the orange power module to the side of the burn chamber, ensuring it clicks securely into place.
3. **Prepare Fuel:** Gather dry biomass fuel such as twigs, small sticks, pinecones, or BioFuel pellets. Ensure fuel pieces are small enough to fit into the burn chamber (recommended length up to 6 inches).
4. **Initial Charge (Optional but Recommended):** Before first use, it is recommended to fully charge the internal 3,200 mAh battery using the provided micro USB cable. Connect the cable to the USB port on the power module and a compatible USB power source.

CampStove Complete Cook Kit

Put some adventure in your culinary with our fully integrated camp cook system



Figure 3: How the CampStove 2+ works: Heat, Electricity, and Air.

4. OPERATING INSTRUCTIONS

1. Starting a Fire:

- Place a small amount of tinder (e.g., dry leaves, paper) and kindling (small twigs) into the burn chamber.
- Ignite the tinder. Once a small flame is established, add slightly larger pieces of fuel.
- The internal fan will automatically activate once sufficient heat is detected, creating a smokeless flame.

2. Fueling the Stove:

- Continuously feed small pieces of fuel into the burn chamber as needed to maintain the desired flame.
- Avoid overfilling the chamber, as this can reduce efficiency and increase smoke.



Figure 4: Fueling the CampStove with twigs or pellets.

3. Power Generation and Charging:

- As the stove heats up, the thermoelectric generator converts heat into electricity.
- The integrated LED dashboard on the power module displays real-time feedback on fire strength and power generation.
- Connect your USB-powered devices (e.g., smartphones, headlamps) to the USB port on the power module for charging. The 3,200 mAh battery stores excess power for later use.



Figure 5: On-demand electricity for charging devices.

4. Using Accessories:

- **KettlePot:** Place the KettlePot directly onto the scalloped pot stand of the burn chamber. It is designed for optimal heat transfer.
- **Coffee Press:** Insert the coffee press into the KettlePot for brewing.
- **Portable Grill:** Place the grill attachment on top of the burn chamber. Ensure it is stable before placing food on it.
- **FlexLight:** Plug the FlexLight into the USB port on the power module for illumination.

5. **Adjusting Fan Speed:** The fan speed can be adjusted to control the flame intensity and power generation. Higher fan speeds result in a hotter, more efficient burn but consume fuel faster.

6. **Extinguishing the Fire:** Allow the fuel to burn down completely. Do not use water to extinguish the fire, as this can damage the stove components. Ensure the stove is cool to the touch before handling or packing.

5. MAINTENANCE

- **Ash Removal:** After each use and once the stove is completely cool, empty any remaining ash from the burn chamber.
- **Cleaning:** Wipe down the exterior of the stove and accessories with a damp cloth. For stubborn

residue on the KettlePot or Grill, use a non-abrasive cleaner. Ensure all components are dry before storage.

- **Storage:** Store the CampStove and its accessories in their respective stuff sacks in a dry place.
- **Battery Care:** For long-term storage, ensure the internal battery is charged to approximately 50% to prolong its lifespan. Recharge periodically if not used for extended periods.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Stove produces excessive smoke.	Wet fuel, too much fuel, or insufficient airflow.	Use dry fuel. Do not overfill the burn chamber. Ensure the fan is operating correctly and the air intake is clear.
No electricity generation/charging.	Stove not hot enough, power module not properly connected, or device not compatible.	Ensure a strong, consistent flame. Check that the power module is securely attached. Verify your device is USB-compatible.
Fan not turning on.	Not enough heat generated, or battery is completely drained.	Build a hotter fire. If the battery is drained, charge it via USB before attempting to generate power from the fire.

7. SPECIFICATIONS

Feature	Detail
Brand	BioLite
Model Number	CSA
Fuel Type	Renewable Biomass (twigs, pinecone, wood pellets, etc.)
Material	Aluminum, Stainless Steel
Product Dimensions (Stove)	4.94"L x 2.06"W x 7.91"H
Item Weight (Complete Kit)	5.1 pounds (as per feature bullets)
Power Source	Wood
Maximum Energy Output	3500 Watts (Thermal), 3 Watts (Electrical)
Internal Battery	3,200 mAh
Water Boil Time (1L)	4.5 minutes (as per feature bullets)

8. WARRANTY AND SUPPORT

BioLite products are designed for durability and performance. For specific warranty details and terms, please refer to the official BioLite website or contact their customer support directly. Keep your proof of purchase for any warranty claims.

For further assistance, product registration, or to explore other BioLite products, please visit the official BioLite Store:

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