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BLACK DIAMOND BD620633

Black Diamond Storm Headlamp Instruction Manual

Model: BD620633

1. INTRODUCTION

The Black Diamond Storm Headlamp is a robust and waterproof lighting solution designed for demanding outdoor conditions and various activities. It delivers 350 lumens of powerful illumination and features multiple night vision modes. The headlamp's lighting profile is optimized for both distance and close-range tasks, offering enhanced peripheral visibility. It incorporates Brightness Memory, allowing the light to be turned on and off at a preferred brightness level without defaulting to full power. With eight distinct lighting modes and Power Tap Technology, the Storm Headlamp provides versatile and instant brightness adjustments for any situation.



Image 1.1: User preparing gear in snowy conditions, illuminated by the Black Diamond Storm Headlamp.

2. SETUP

2.1. Battery Installation

Your Black Diamond Storm Headlamp requires four AAA batteries. The headlamp is supplied with alkaline batteries. For optimal performance and environmental benefits, high-performance rechargeable NiMH AAA batteries, such as Panasonic Eneloop Pro, are recommended for extended use.

1. Locate the battery compartment on the front of the headlamp unit.
2. Open the battery compartment latch.
3. Insert four AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Securely close the battery compartment latch until it clicks into place. The compartment is sealed to maintain the headlamp's waterproof rating.

2.2. Headband Adjustment

Adjust the elastic headband to ensure a comfortable and secure fit on your head or helmet. The strap should be snug enough to prevent the headlamp from shifting during activity but not so tight as to cause

discomfort.



Image 2.1: Front view of the Black Diamond Storm Headlamp, highlighting its design and headband.

3. OPERATING INSTRUCTIONS

The Black Diamond Storm Headlamp features a single button for all primary functions. Understanding its various presses and holds is key to utilizing its full capabilities.

3.1. Basic On/Off and Mode Switching

- **Power On/Off:** Press the power button once to turn the headlamp on or off.
- **Switching Main Modes (White / Colored):** If the light is currently on, press the power button once to turn it off. Then, press and hold the power button for approximately 2 seconds. The headlamp will turn on in the alternate main mode (e.g., if it was in white mode, it will now be in colored mode).
- **Switching Sub-Modes (White: Main/Flood; Colored: Red/Blue/Green):** While in either the white or colored main mode, double-press the power button to cycle through the available sub-modes.

3.2. Brightness Adjustment (Dimming)

To adjust the brightness level:

1. Ensure the light is on in your desired mode.
2. Press and hold the power button. The light will begin to dim or brighten.
3. Release the button when the desired brightness is reached. The headlamp's Brightness Memory feature will recall this setting when turned off and on again in the same mode.

3.3. Power Tap Technology

The Power Tap Technology allows for quick transitions to maximum brightness:

- While the light is on, tap the touch-sensitive pad on the side of the headlamp unit. The light will instantly switch to maximum brightness for the current mode.
- Tap the touchpad again to return to the previously set brightness level.

3.4. Strobe Mode

To activate the strobe function:

- From any light mode, triple-press the power button. The headlamp will enter strobe mode.
- Triple-press again or press once to exit strobe mode.

3.5. Lock Mode

To prevent accidental activation and conserve battery life during transport or storage:

- Press and hold the power button for 4-6 seconds until the light flashes, indicating it is locked.
- To unlock, press and hold the power button again for 4-6 seconds until the light flashes and turns on.

4. MAINTENANCE

4.1. Cleaning

To maintain optimal performance and longevity, keep your headlamp clean. Wipe the lens and body with a soft, damp cloth. Avoid using abrasive cleaners or solvents, which can damage the materials or waterproof seals.

4.2. Battery Care

- Always remove batteries if the headlamp will not be used for an extended period to prevent leakage and damage.
- When using rechargeable batteries, follow the manufacturer's instructions for charging and care.
- Ensure battery contacts are clean and free of corrosion.

4.3. Waterproofing

The Black Diamond Storm Headlamp is rated IPX7, meaning it is waterproof and dustproof, capable of withstanding immersion in water up to 1 meter for 30 minutes. Ensure the battery compartment is securely closed to maintain this rating. After exposure to water, especially saltwater, rinse the headlamp with fresh water and dry thoroughly.

4.4. Headband and Components

Periodically inspect the headband for wear and tear. Replacement headbands are available if needed. The elevation detent, which allows you to angle the light, is designed for durability but can be reinforced with a small O-ring on the pivot if it loosens over time.

5. TROUBLESHOOTING

- **Light Not Turning On:**
 - Check battery orientation and ensure they are fresh or fully charged.
 - Verify the headlamp is not in lock mode (refer to Section 3.5).

- Clean battery contacts if corrosion is present.

- **Accidental Mode Changes or Strobe Activation:**

- Familiarize yourself with the single-button operation (Section 3.1, 3.4). Multiple presses can quickly change modes.
- If the