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BLACK DIAMOND BD620672

BLACK DIAMOND Spot 400 LED Headlamp User Manual

Model: BD620672

INTRODUCTION

The BLACK DIAMOND Spot 400 LED Headlamp is a high-performance, versatile lighting device designed for various outdoor activities and tasks. It offers powerful illumination, multiple lighting modes, and a durable, waterproof construction to withstand challenging environments. This manual provides detailed instructions for the proper setup, operation, maintenance, and troubleshooting of your headlamp.



Figure 1: Overview of the BLACK DIAMOND Spot 400 LED Headlamp.

SETUP

Battery Installation

The Spot 400 headlamp requires three (3) AAA alkaline batteries for operation. To install or replace batteries:

1. Locate the battery compartment on the rear of the headlamp unit.
2. Carefully open the battery compartment latch. Ensure the latch is securely closed after installation, but avoid excessive force to prevent damage.
3. Insert the three AAA batteries according to the polarity indicators (+/-) inside the compartment.
4. Close the battery compartment securely until the latch clicks into place.



BRIGHTNESS MEMORY

The Brightness Memory feature allows you to turn the light on and off at a chosen brightness without reverting back to a default setting.

Figure 2: Battery compartment location on the headlamp.

Adjusting the Headband

The elastic headband is adjustable to ensure a comfortable and secure fit. Slide the buckle on the strap to tighten or loosen the band until it fits snugly around your head or over a helmet.

OPERATING INSTRUCTIONS

Controls Overview

The Spot 400 features two main buttons for control: a large power button and a smaller mode button.



Figure 3: Control buttons on the headlamp.

Power On/Off and Brightness Adjustment

- **To Turn On/Off:** Press the large power button once.
- **Brightness Memory:** The headlamp features a memory mode that stores your last used brightness setting. When you turn the light back on, it will resume at that saved brightness level.
- **PowerTap Technology:** To quickly switch between full power and dimmed light, simply tap the side of the headlamp housing. This allows for rapid brightness adjustments without cycling through modes.
- **Dimmable Feature:** While the light is on, press and hold the large power button to dim the light. Release the button when the desired brightness is reached.

Lighting Modes

The Spot 400 offers several lighting modes for various situations:

- **High Beam:** Provides maximum illumination for long-distance visibility.
- **Close Range:** A wider, less intense beam suitable for proximity lighting.
- **Flashing Mode:** For signaling or increased visibility.
- **Night Vision Mode (Red):** Activates a red light for preserving night vision. This mode can be activated directly without cycling through normal white light modes. It also has dimming and flashing settings.



Figure 4: Different light sources for various modes.

Lock Mode

To prevent accidental activation and conserve battery life during transport or storage, the headlamp features a lock mode. To engage or disengage lock mode, press and hold the small mode button (with the lock icon) until the light flashes, indicating the mode has been activated/deactivated.

MAINTENANCE

Cleaning

Wipe the headlamp body with a damp cloth as needed. Do not use harsh chemicals or abrasive cleaners. Ensure the lens is clean for optimal light output.

Battery Care

Always remove batteries if the headlamp will not be used for an extended period to prevent leakage and damage. Replace all three batteries at the same time with new ones of the same type.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Headlamp does not turn on.	<ul style="list-style-type: none"> Batteries are dead or incorrectly installed. Headlamp is in lock mode. 	<ul style="list-style-type: none"> Replace batteries, ensuring correct polarity. Deactivate lock mode by pressing and holding the mode button.
Light is dim or flickers.	<ul style="list-style-type: none"> Low battery power. Dirty lens. 	<ul style="list-style-type: none"> Replace batteries. Clean the lens with a soft cloth.
Battery compartment does not close securely.	<ul style="list-style-type: none"> Obstruction in compartment. Latch misalignment or damage. 	<ul style="list-style-type: none"> Check for debris and clear it. Ensure batteries are seated correctly. If latch is damaged, contact customer support.

SPECIFICATIONS

Feature	Detail
Brightness	400 Lumens (Max)
Power Source	Battery Powered
Battery Type	3 x AAA Alkaline batteries (not included)
Runtime	Up to 200 hours (on lowest setting)
Light Source Type	LED
Material	Polycarbonate
Water Resistance Level	Waterproof
Item Weight	1.6 ounces
Product Dimensions	1.25"D x 2.5"W x 1.5"H
Special Features	Dimmable, PowerTap Technology, Red Night Vision Mode, Lock Mode

WARRANTY AND SUPPORT

The BLACK DIAMOND Spot 400 LED Headlamp comes with a **3-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or further assistance, please visit the official BLACK DIAMOND website or contact their customer service department. Keep your proof of purchase for warranty validation.

You can find more information and support at the [BLACK DIAMOND Store on Amazon](#).