Auxbeam QPAB006237

Auxbeam BC60 6 Gang Switch Panel Instruction Manual

Brand: Auxbeam

Introduction

The Auxbeam BC60 6 Gang Switch Panel is a universal circuit control relay system designed to simplify the wiring and operation of your vehicle's electronic accessories. It allows you to control up to six different auxiliary LED lights or other electrical devices from a single, compact touch control panel. This system is suitable for DC 12V vehicles, including cars, trucks, pickups, boats, UTVs, and SUVs.

Key features include an automatic dimmable LED backlight, easy plug-and-play installation, and a compact design that saves space under the hood and on your dashboard.

Package Contents

Before beginning installation, please ensure all components are present:

- 1 x 6 Gang Switch Panel
- 1 x Circuit Control Box
- 1 x Mounting Brackets (2 types)
- 1 x Double-sided Adhesive Tape
- 1 x Wiring Harness (10ft)
- 1 x ACC Wire
- 1 x Fuse Extender
- 1 x Auto Fuses (with 6 extra)
- 1 x 60pcs DIY Stickers
- 10 x Zip Ties
- 1 x User Manual
- Screws & Screwdriver



Figure 1: Complete package contents of the Auxbeam BC60 6 Gang Switch Panel.

Setup and Installation

The Auxbeam BC60 switch panel is designed for easy installation without the need to cut large holes in your vehicle. Follow these steps for proper setup:

1. Mounting the Circuit Control Box

The circuit control box has a compact footprint (3.2" x 4.4") and should be mounted under the hood. Use the provided mounting brackets or screws to secure it in a suitable location, ensuring it is close enough to the battery for the main power cables.

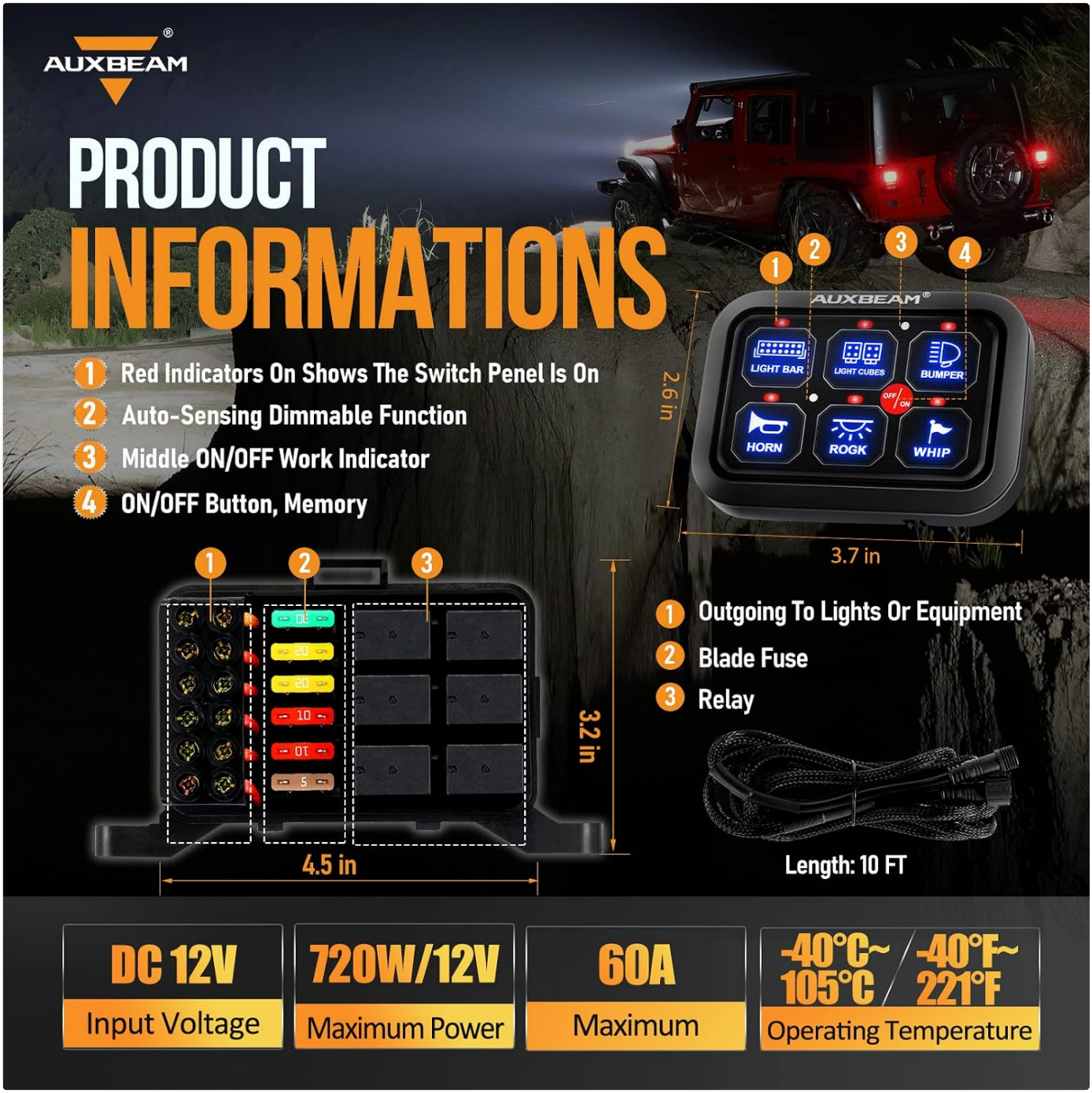


Figure 2: Dimensions of the switch panel and circuit control box for mounting reference.

2. Wiring Connections

The system uses plug-and-play wiring harnesses for easy connection of LED lights and accessories. Ensure all connections are secure.

- Connect the large red power cable from the control box to the positive (+) terminal of your 12V vehicle battery.
- Connect the large black ground cable from the control box to the negative (-) terminal of your 12V vehicle battery or a suitable chassis ground point.
- Connect the red ACC wire (with fuse tap) to an ACC fuse in your vehicle's fuse box. This provides power to the switch panel when the ignition is on.
- Connect the main wiring harness from the control box to the back of the switch panel.
- Connect your auxiliary lights/accessories to the corresponding output connections on the circuit control box. The control box has built-in solid-state relays and fuses for each circuit.



Figure 3: Detailed wiring diagram for the Auxbeam BC60 system.

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Video 1: A comprehensive guide to installing and wiring the Auxbeam 6 Gang Switch Panel.

3. Mounting the Switch Panel

The switch panel (3.7" x 2.6") can be installed on the dashboard, center console, or overhead sunglasses holder. Two types of mounting brackets are included for versatile placement. You can also customize your switches with the 60pcs self-adhesive labels provided.



Figure 4: Examples of versatile installation locations for the switch panel.

Operating Instructions

The Auxbeam BC60 switch panel features touch controls and an automatic dimmable function for optimal visibility and ease of use.

- **Individual Switch Control:** Press any of the six individual touch buttons to activate or deactivate the connected accessory. A red LED indicator above each button will light up when the circuit is active.
- **Main ON/OFF Button:** The central ON/OFF button acts as a master switch. Press it to turn all connected accessories on or off simultaneously. This button also features a memory function, retaining the last state of your accessories even after the vehicle is turned off.
- **Automatic Dimmable Backlight:** The backlight brightness of the switch panel automatically adjusts based on the ambient light conditions. In brighter environments, the backlight will be brighter, and it will dim in darker conditions to prevent glare and improve night driving experience.

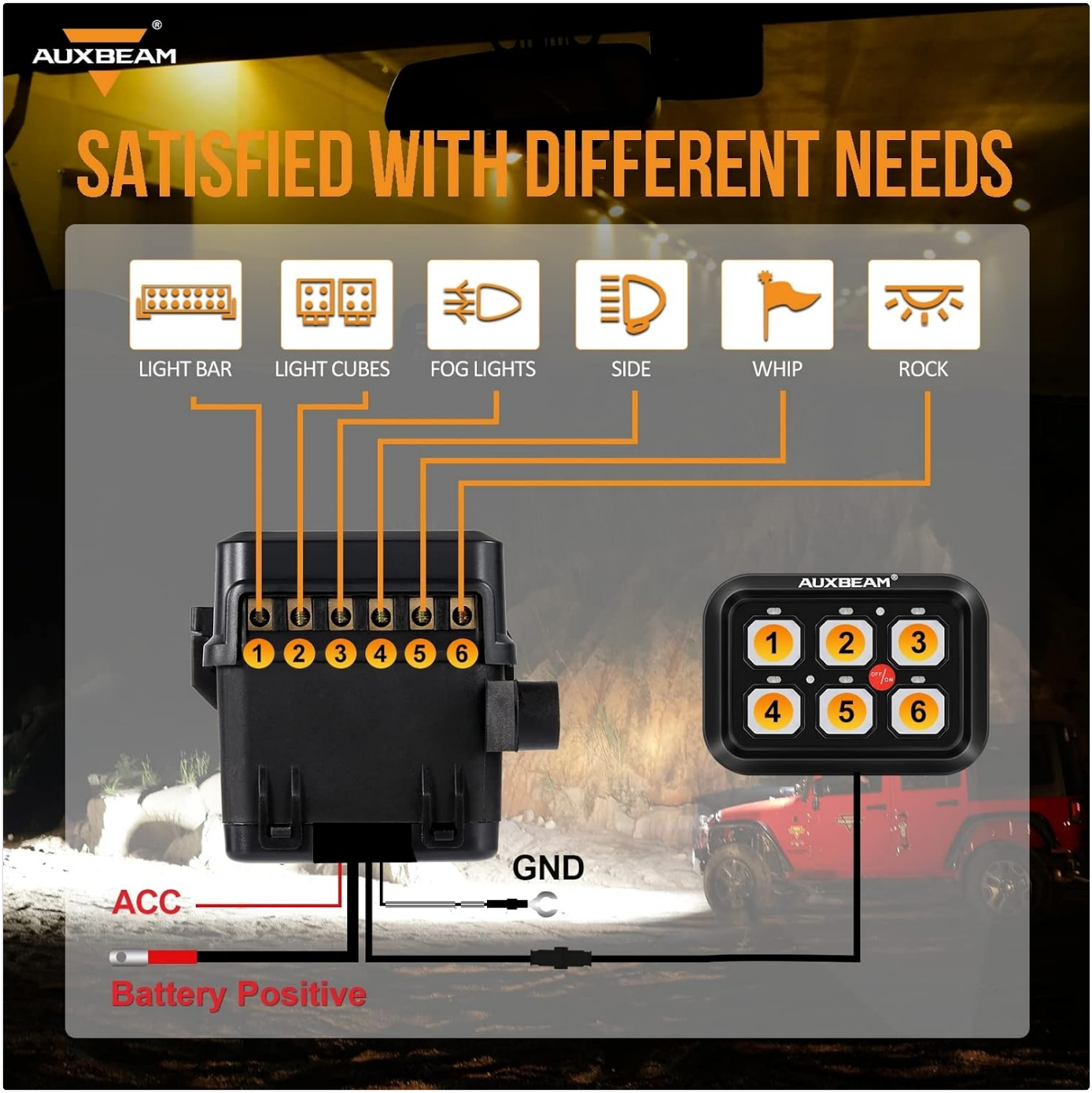


Figure 5: The automatic dimmable function adjusts backlight intensity based on ambient light.

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Video 2: Demonstration of the automatic dimmable touch switch panel in action.

Maintenance

To ensure the longevity and optimal performance of your Auxbeam BC60 Switch Panel, regular maintenance is recommended:

- **Inspect Wiring:** Periodically check all wiring connections for any signs of wear, fraying, or corrosion. Ensure all terminals are securely fastened.
- **Check Fuses:** The circuit control box has built-in fuses for each circuit. If an accessory stops working, check the corresponding fuse. The LED indicator will light up if a fuse is blown. Replace blown fuses with new ones of the correct amperage.
- **Clean Components:** Keep the switch panel and control box clean from dust, dirt, and moisture. Use a soft, dry cloth for cleaning. Avoid abrasive cleaners or solvents.

- **Environmental Protection:** While the unit is designed to be durable and resistant to extreme temperatures (-40°F to +221°F) and various weather conditions (IP54 rated), avoid prolonged exposure to harsh elements when possible.

Troubleshooting

Here are some common issues and their solutions:

- **Accessory not turning on:**
  - Check if the corresponding fuse on the control box is blown (indicated by a lit LED). Replace if necessary.
  - Ensure all wiring connections are secure, especially the positive and negative terminals to the battery.
  - Verify that the ACC fuse is properly connected and receiving power.
- **Switch panel not working when vehicle is off:**
  - This is normal behavior if the ACC fuse is used for power, as the system is designed to stop working when the car is off to prevent battery drain.
  - To keep the switch panel powered on all the time (not recommended due to battery drain), connect the red ACC wire directly to the battery.
- **Backlight not dimming automatically:**
  - Ensure the photosensitive sensor on the switch panel is not obstructed.
- **Connecting multiple lights to one button:**
  - Connect the positive wires of multiple lights into the same "+" hole of the circuit control box, and their negative poles together, to achieve synchronized operation.
- **Device not turning on after power restored (e.g., after car start):**
  - You still need to press the ON/OFF button to restore accessories. This is a design feature to ensure the battery can provide enough power to start the car.

Specifications

Specification	Value
Model	BC60 (QPAB006237)
Operating Voltage	DC 12V (NOT for DC 24V vehicles)
Max Power Rating	720W (at 12V)
Max Current Rating	60A
Circuit Type	6-way
Operating Temperature	-40°F to +221°F (-40°C to +105°C)
Waterproof Rating	IP54
Switch Housing Material	Aluminum
Switch Panel Dimensions	3.7" x 2.6"
Control Box Dimensions	3.2" x 4.4"

Warranty and Support

The Auxbeam BC60 6 Gang Switch Panel comes with a 2-Year Manufacturer Warranty. This warranty covers free replacement for any quality problems caused by non-human reasons.

For any issues or support inquiries, please feel free to contact Auxbeam customer service. They are committed to providing perfect after-sales service.

Ask a question about this manual

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.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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