Auxbeam RB80 XL

Auxbeam RGB 8 Gang Switch Panel Instruction Manual

Model: RB80 XL

1. Introduction

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Auxbeam RGB 8 Gang Switch Panel, Model RB80 XL. This multifunction waterproof circuit relay system box is designed for various vehicles including trucks, ATVs, off-road vehicles, and marine applications, offering centralized control for multiple auxiliary electrical devices.

2. What's Included

Carefully unpack the box and ensure all the following components are present:

- RGB Switch Panel (RB80 XL)
- Circuit Control Box
- Circuit Breaker (60A)
- 60pcs Labels for customization
- Mounting Brackets
- 10ft Wire Harness
- Power Harness, Fuse Wire & Adapter, Installation Kit
- Panel Waterproof Cover



Image: All components included in the Auxbeam RB80 XL package, laid out for inspection.

3. Key Features

- **Dual-Side Wiring:** The current control box splits outputs into two sides, allowing for more flexible wiring and reducing clutter.
- **Smart Backlight and Backlight Off Function:** Intelligent backlighting adjusts brightness automatically based on the environment. An on/off mode button allows manual control of the backlight.

- **User-Friendly Design:** Features 1-inch large buttons for easy operation and a rugged aesthetic suitable for off-road vehicles.
- **Customizable Button Functions:** Each button can be programmed for Toggle (constant light), Momentary (ignition power), or Pulsed (strobe mode) functions.
- **Personalized RGB Colors:** Offers unlimited RGB color options for the backlight to match vehicle interior or personal style.
- **Built-in Solid State Relays:** Provides reliable and quiet operation with faster response times compared to traditional external relays.
- **60A Circuit Breaker:** Integrated for protection against reverse polarity, over-voltage, and overheating.



Image: Illustration of the three customizable lighting modes: Toggle, Momentary, and Pulsed.



Image: Comparison highlighting the advantages of built-in solid state relays over traditional external relays.

4. Specifications

Specification	Value
Brand	Auxbeam
Model Number	5.3 Inch RB80 XL
Operation Mode	ON-OFF-ON
Current Rating	60 Amps
Operating Voltage	12-24 Volts (DC)
Circuit Type	8-way
Actuator Type	Touch
Contact Material	Aluminum
International Protection Rating	IP65
Item Dimensions (L x W x H)	5.3 x 3 x 0.55 inches
Item Weight	5.5 pounds
Maximum Wattage	1400 watts
Upper Temperature Rating	221 Degrees Fahrenheit

5. Setup and Installation

The Auxbeam RB80 XL switch panel is designed for straightforward installation. Ensure your vehicle's battery is disconnected before beginning any wiring work.

5.1 Wiring Overview

The system includes a circuit control box that manages connections for up to 8 different electrical devices. Connect the

positive and negative wires of your accessories to the designated wiring ports (1-8) on the control box. The main power for the control box should be connected directly to the vehicle's battery, with the included 60A circuit breaker in line for safety.

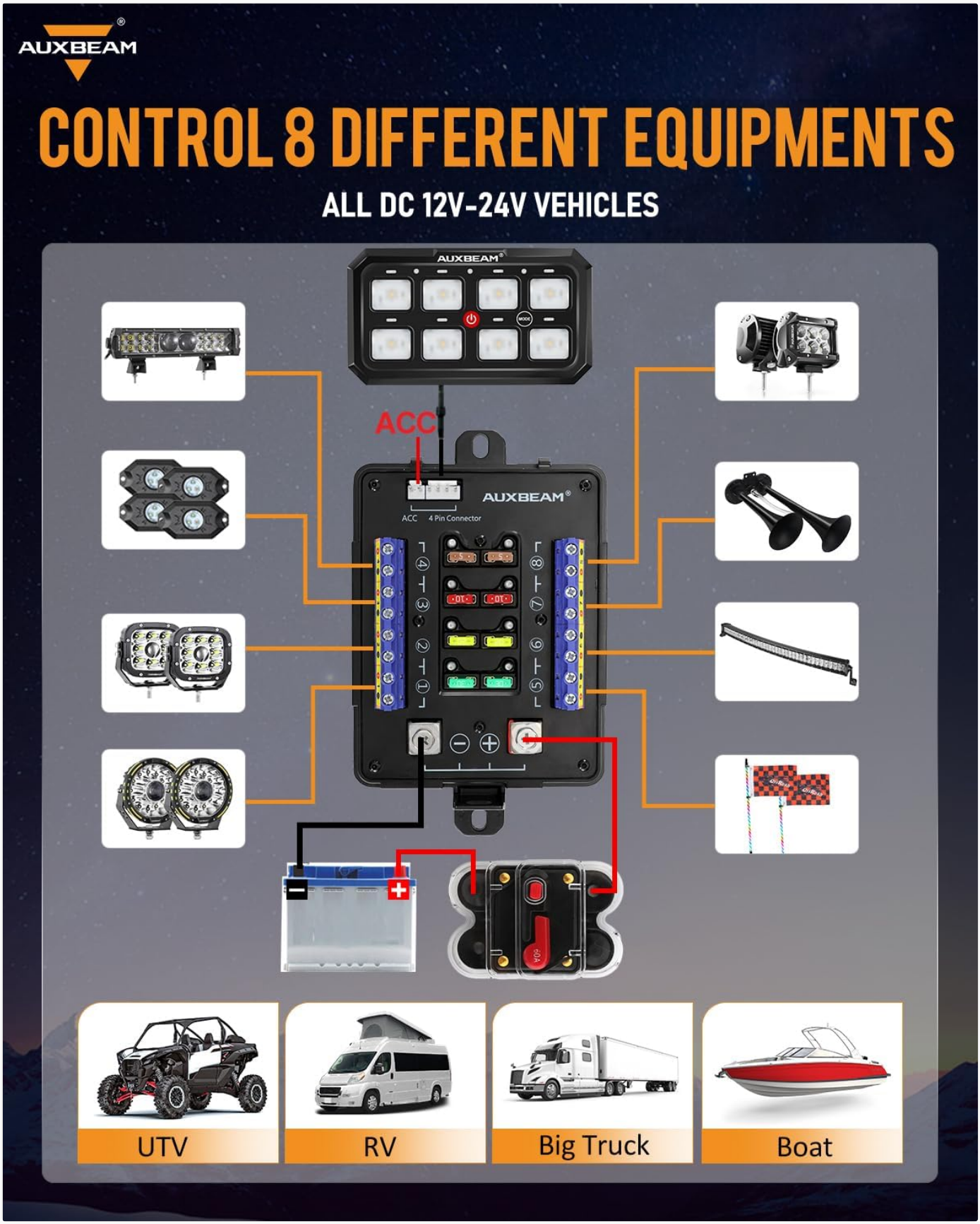


Image: A detailed diagram illustrating how to connect various DC 12V-24V equipment to the Auxbeam control box and battery.

5.2 ACC Fuse Connection

To enable the switch panel to power off with the vehicle, connect the red ACC Fuse wire to the vehicle's ACC fuse using the provided adapter. Insert the fuse adapter into the original car ACC Fuse position after removing the original fuse.

5.3 Mounting the Panel and Control Box

Choose a suitable location for the switch panel within the vehicle's cabin and for the circuit control box, typically under the hood. Use the provided mounting brackets and hardware for secure installation. The 10ft extension cable allows for flexible placement of the switch panel relative to the control box.



Image: Visual representation of how the Auxbeam system helps organize wiring in the engine bay.



Image: Examples of the switch panel mounted in different locations within a vehicle's interior.

5.4 Applying Labels

Utilize the included 60pcs of labels to clearly identify the function of each switch button. This enhances usability and organization.



Image: A selection of the 60 available labels for personalizing the switch panel.

6. Operating Instructions

6.1 Button Functions

Each of the 8 buttons on the switch panel can be configured to operate in one of three modes:

- **Toggle:** For constant light or continuous power to an accessory.
- **Momentary:** Provides power only while the button is pressed, ideal for horns or temporary functions.
- **Pulsed:** Activates a strobe or flashing mode, suitable for emergency lights.

Refer to the installation guide for specific instructions on how to program each button's function.

6.2 Backlight Control

The switch panel features intelligent backlighting that automatically adjusts its brightness based on ambient light conditions. Additionally, a dedicated button allows you to manually turn the backlight on or off, which can be useful in bright environments or when the backlight is not desired.

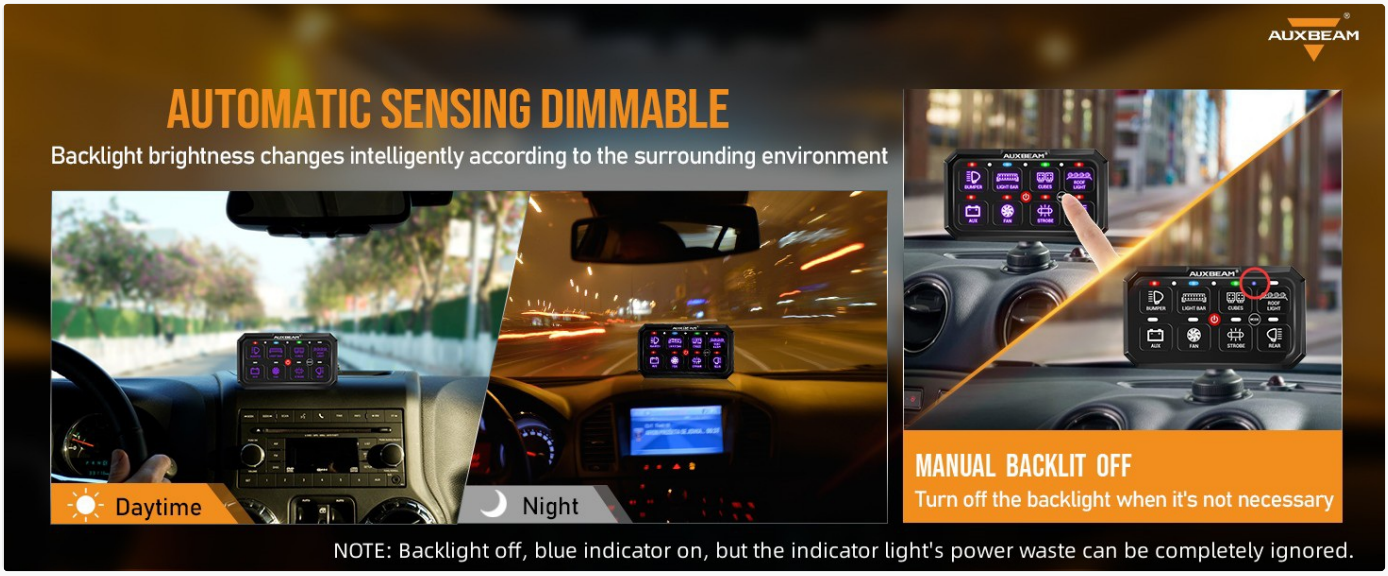


Image: Depicts the automatic sensing dimmable feature and the manual backlight off function for optimal visibility.

6.3 RGB Color Customization

The backlight color can be customized to an unlimited range of RGB colors. This allows you to match the panel's lighting

with your vehicle's interior aesthetics or to set a unique ambiance.



Image: Multiple Auxbeam switch panels showcasing the wide range of customizable RGB backlight colors.

7. Maintenance

To ensure the longevity and optimal performance of your Auxbeam switch panel, follow these general maintenance guidelines:

- Regularly inspect all wiring connections to ensure they are secure and free from corrosion.
- Keep the switch panel and control box clean. Use a soft, damp cloth to wipe surfaces. Avoid harsh chemicals or abrasive cleaners.
- The panel is IP65 rated for water and dust resistance. However, avoid direct high-pressure water jets on the unit.
- Utilize the included waterproof panel cover to protect the switch panel from harsh weather conditions, keeping it clean and dust-free when not in use or during storage.



Image: The included waterproof panel cover designed to protect the switch panel from environmental elements.

8. Troubleshooting

This section addresses common questions and issues you might encounter with your Auxbeam switch panel.

Q: How does a normal switch panel control 2 or more lights at the same time with one button?

A: Install the positive wires of the two work lights into the same "+" hole of the circuit control box, and similarly for the negative poles. This enables synchronized control.

Q: How to connect the ACC Fuse?
A: Connect the red ACC Fuse wire to the fuse adapter. Verify the car's ACC fuse is powered when the ACC gear is open. Remove the original car ACC Fuse, insert the fuse adapter, and then reinsert the entire fuse adapter into the original car ACC Fuse position.

Q: Does the switch panel still work when the vehicle is off?
A: No, because the ACC fuse is used for power, the switch system will stop working when the car is powered off. This ensures the battery does not drain.

Q: Is there a way that the switch panel can still control the devices in the car when the car is not started?
A: You can connect the red ACC wire directly to the battery to keep the switch panel powered on continuously. However, this is not recommended as it will consume battery power even when the vehicle is off.

Q: Does the ON/OFF button in the middle of the switch panel start all devices?
A: The ON/OFF button primarily functions as a memory and master control. It allows you to fully close and fully open all devices currently in use with one key. The memory function remains valid even after the car is parked and turned off, restoring the previous state when the car is restarted.

Q: How long is the 4 PIN extension cable?
A: The 4 PIN extension cable is 10 FT long.

Q: After the power is restored to my vehicle, do the devices turn on automatically?
A: No, you still need to press the ON/OFF button to restore power to the accessories. This design ensures the battery retains sufficient power to start the vehicle.

Q: Are relays built in?
A: Yes, the 8 gang switch panel has built-in Solid State Relays. Simply connect the positive and negative wires of the electrical equipment to the 1-8 way wiring ports.

Q: Does it come with relays and fuses?
A: Yes, there are 6/8 fuses in the relay box, and 6 extra fuses are included.

Q: What if the wire length is not enough? How can I get an extension for it?
A: Extension wires for the 8 gang switch panel can be obtained using ASIN: B093293RJ7.

Q: How can I get more stickers for the RA80 XL large switch panel?
A: Additional stickers for the RA80 XL switch panel can be obtained using ASIN: B0C13FPNP1.

9. Warranty and Support

Auxbeam guarantees a **2-year warranty** for the RB80 XL RGB 8 Gang Switch Panel. For any product-related inquiries, technical assistance, or warranty claims, please contact Auxbeam customer service. They offer 24-hour friendly online service to assist you.

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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.

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